



March 28 2023

Ref: 42838.00

Analee Wulfkuhle, Chair
Town of Deerfield Planning Board
8 Conway Street
South Deerfield, MA 01373

Re: SunnyDayz Cannabis Campus, Greenfield Road
Response to Peer Review Comments

Dear Ms. Wulfkuhle:

On behalf of our client and the Applicant, SunnyDayz Cannabis, VHB is providing additional information as requested at the March 6, 2023, Planning Board meeting for more specific information on the items listed below.

5322. Traffic flow and safety, including parking and loading.

The traffic study submitted was based on record traffic counts for Route 5 & 10, obtained from MassDOT. These counts were increased by a percentage for every year to account for traffic growth which may have occurred during Covid, as recommended by MassDOT. The Planning Board asked for actual traffic counts on Route 5 & 10 as a comparison to the percentage increase.

Attachment A to this correspondence are the traffic counts recently commissioned for Route 5 & 10. The northbound volumes on Route 5/10 are 3,575 average daily trips and southbound volumes are 3,594 average daily trips. In comparison, the average daily trips utilized in the VHB Traffic Impact Assessment were 9,019 for northbound and 6,802 for southbound. This confirms that the assessment was based on a higher traffic volume estimate for Route 5 & 10 than is actual.

5482-Tree preservation: Approximately 5-acres of woodland are being removed for development of this site. The applicant is asking for a waiver of the tree inventory and replacement by-law. The intent is to not develop Parcel 150-7, leaving it in an undeveloped state.

The Planning Board asked for additional information in order to evaluate the waiver request. Attachment B contains a reduced scale overall site plan. This proposed tree line for the project has been plotted in red on this figure, which represents the 5-acre project site. The tree clearing has been kept to the minimum required to construct the project.

Based on tree density averages for Massachusetts developed by the U.S. Department of Agriculture in 2012, approximately 905-trees will be cut within this area. The entire 28-acre site is estimated to have 5,068 trees. There trees are mostly coniferous trees, of the pine species.

5489-Light Pollution reduction: The lighting plan utilizes down-facing cut-off LED light fixtures. Only down-



facing parking area lighting is proposed, with no pedestrian or accent/spot lighting. The lighting plan provides the foot-candlelight spread for the fixtures. The lighting consultant is currently reviewing the design to determine compliance with the by-law section.

The Peer Review recommended that additional information be provided so the Board could determine compliance with this Section. Attachment C contains an updated lighting plan as well as light fixture information for the fixture specified. Apex Lighting Solutions, the lighting designer for the project, has reviewed the zoning ordinance with respect to parking area lighting requirements and has provided this updated illumination plan. The light fixtures specified are based on a maximum height of 14-feet and are LED type fixtures.

5483-Building Orientation: All buildings will be highly efficient with respect to energy consumption and are oriented to take advantage of the unique wetland features of the site while limiting impact of the resources.

The Planning Board has requested more information regarding the efficiency of the building design. Attachment D contains information from SunnyDayz pertaining to the following:

- Cultivation Technology and Efficiency
- Sustainability
- Odor Mitigation
- Technologies pertaining to the cultivation and grow process

Also included in the PDF's is reduced scale exterior elevations of the buildings, which were included in the initial submittal.

The above comments responses are intended to supplement information already submitted for the project. VHB continues to work through comments related to drainage system design and expects to be able to host a conference call with the Peer Reviewer by the end of this week to discuss our findings and revisions to the hydrologic model. We expect the Planning Board may want to discuss the items above at the April 3 meeting. Please do not hesitate to call or email should you have questions or need additional information.

Sincerely,

VHB

A handwritten signature in blue ink that reads "John J. Furman".

John J. Furman, PE
Office Manager, Springfield

cc: Ken Bouquillon, SunnyDayz
Berkshire Design Group

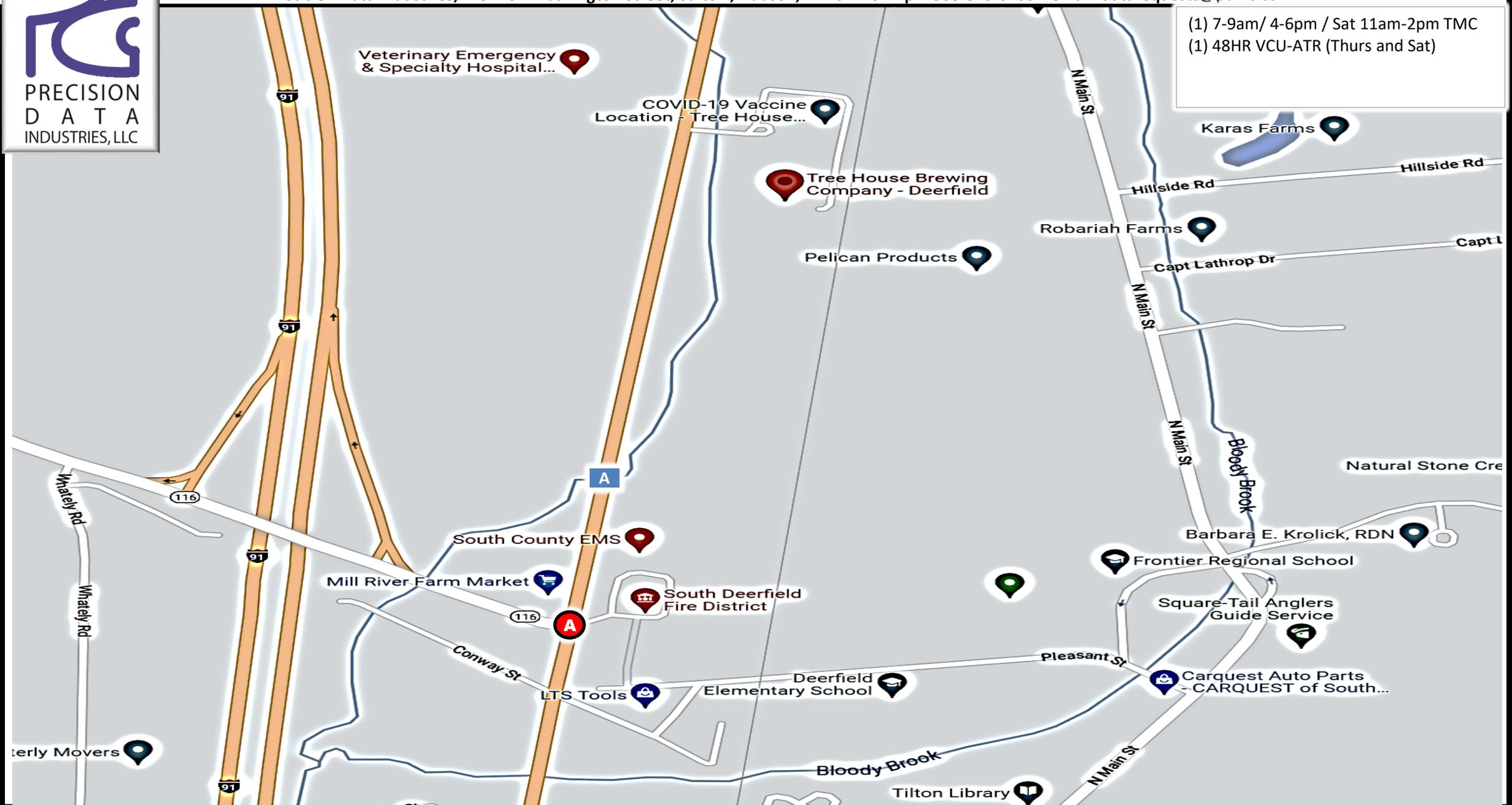
Attachment A



Location Map: 239242 Deerfield, MA

Precision Data Industries, LLC 157 Washington Street, Suite 2, Hudson, MA 01749 ph: 508-875-0100 email: datarequests@pdillc.com

(1) 7-9am/ 4-6pm / Sat 11am-2pm TMC
(1) 48HR VCU-ATR (Thurs and Sat)



Client: VHB	Engineer: M. Pause	Site Code:	Date: Thurs 3/16 and Sat 3/18/2023	PDI Job # 239242	City, State: Deerfield, MA
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Greenfield Road (Route 5)
north of Conway Road (Route 116)
City, State: Deerfield, MA
Client: VHB/M. Pause
Site Code: 42986.00



PRECISION
DATA
INDUSTRIES, LLC

157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

PDI File #: 239242 ATR A

Count Date: Thursday, March 16, 2023
Direction: NB

AM	Bicycles	Motorcycle	Cars & Light Goods	Buses	Single Unit Heavy	Multi Unit Heavy	Total
12:00 AM	0	0	0	0	0	0	0
12:15 AM	0	0	0	0	0	0	0
12:30 AM	0	0	0	0	0	0	0
12:45 AM	0	0	0	0	0	0	0
1:00 AM	0	0	2	0	0	0	2
1:15 AM	0	0	1	0	0	1	2
1:30 AM	0	0	2	0	0	0	2
1:45 AM	0	0	2	0	0	3	5
2:00 AM	0	0	0	0	0	0	0
2:15 AM	0	0	2	0	0	0	2
2:30 AM	0	0	4	0	0	0	4
2:45 AM	0	0	0	0	0	0	0
3:00 AM	0	0	0	0	0	0	0
3:15 AM	0	0	0	0	0	0	0
3:30 AM	0	0	3	0	0	0	3
3:45 AM	0	0	1	0	2	0	3
4:00 AM	0	0	3	0	0	0	3
4:15 AM	0	0	1	0	0	0	1
4:30 AM	0	0	0	0	0	0	0
4:45 AM	0	0	4	0	1	1	6
5:00 AM	0	0	4	0	0	0	4
5:15 AM	0	0	15	0	0	0	15
5:30 AM	0	0	27	0	0	1	28
5:45 AM	0	0	39	0	0	0	39
6:00 AM	0	0	16	0	2	0	18
6:15 AM	0	0	26	1	2	1	30
6:30 AM	0	0	25	1	0	3	29
6:45 AM	0	0	53	0	2	3	58
7:00 AM	0	0	45	1	2	2	50
7:15 AM	0	0	47	0	3	0	50
7:30 AM	0	0	67	2	5	2	76
7:45 AM	0	0	63	0	1	1	65
8:00 AM	0	0	53	0	3	2	58
8:15 AM	0	0	50	1	7	1	59
8:30 AM	0	0	75	0	1	1	77
8:45 AM	0	0	62	0	5	2	69
9:00 AM	0	0	38	0	4	4	46
9:15 AM	0	0	47	0	3	0	50
9:30 AM	0	0	55	1	1	3	60
9:45 AM	0	0	56	0	7	1	64
10:00 AM	0	0	39	2	2	2	45
10:15 AM	0	0	47	1	5	0	53
10:30 AM	0	0	34	0	2	0	36
10:45 AM	0	0	42	0	1	0	43
11:00 AM	0	0	47	0	3	3	53
11:15 AM	0	0	43	2	3	2	50
11:30 AM	0	0	47	0	7	2	56
11:45 AM	0	0	47	0	5	3	55

PM	Bicycles	Motorcycle	Cars & Light Goods	Buses	Single Unit Heavy	Multi Unit Heavy	Total
12:00 PM	0	0	61	1	3	2	67
12:15 PM	0	0	70	1	3	1	75
12:30 PM	0	0	69	0	3	1	73
12:45 PM	0	0	57	0	0	0	57
1:00 PM	0	0	60	0	4	2	66
1:15 PM	0	0	59	0	2	2	63
1:30 PM	0	0	65	0	3	0	68
1:45 PM	0	0	67	0	4	1	72
2:00 PM	0	0	65	0	2	3	70
2:15 PM	0	0	71	1	4	2	78
2:30 PM	0	0	65	1	0	0	66
2:45 PM	0	0	68	0	5	2	75
3:00 PM	0	0	74	1	4	1	80
3:15 PM	0	0	65	0	2	2	69
3:30 PM	0	0	82	0	2	0	84
3:45 PM	0	0	72	0	4	0	76
4:00 PM	0	0	65	0	3	0	68
4:15 PM	0	0	73	1	1	1	76
4:30 PM	0	0	77	0	1	0	78
4:45 PM	0	0	66	0	1	1	68
5:00 PM	0	0	67	0	3	1	71
5:15 PM	0	0	77	0	1	2	80
5:30 PM	0	0	60	0	1	2	63
5:45 PM	0	0	56	0	0	0	56
6:00 PM	0	0	55	1	0	1	57
6:15 PM	0	0	35	1	3	0	39
6:30 PM	0	0	28	0	0	0	28
6:45 PM	0	0	39	0	0	1	40
7:00 PM	0	0	32	0	0	1	33
7:15 PM	0	0	27	0	1	0	28
7:30 PM	0	0	28	0	0	0	28
7:45 PM	0	0	17	0	0	0	17
8:00 PM	0	0	24	0	0	0	24
8:15 PM	0	0	19	0	0	0	19
8:30 PM	0	0	22	0	0	0	22
8:45 PM	0	0	15	0	0	0	15
9:00 PM	0	0	23	0	1	1	25
9:15 PM	0	0	16	0	0	0	16
9:30 PM	0	0	16	0	0	0	16
9:45 PM	0	0	18	0	0	0	18
10:00 PM	0	0	12	0	1	0	13
10:15 PM	0	0	15	0	0	0	15
10:30 PM	0	0	15	0	0	0	15
10:45 PM	0	0	5	0	0	0	5
11:00 PM	0	0	5	0	0	0	5
11:15 PM	0	0	3	0	0	0	3
11:30 PM	0	0	8	0	0	0	8
11:45 PM	0	0	4	0	0	0	4

AM Total	0	0	1234	12	79	44	1369
Percentage	0.00%	0.00%	90.14%	0.88%	5.77%	3.21%	
AM Peak	12:00 AM	12:00 AM	7:45 AM	9:30 AM	11:00 AM	11:00 AM	8:00 AM
Volume	0	0	241	4	18	10	263

PM Total	0	0	2092	8	62	30	2192
Percentage	0.00%	0.00%	95.44%	0.36%	2.83%	1.37%	
PM Peak	12:00 PM	12:00 PM	3:00 PM	2:15 PM	1:00 PM	2:00 PM	3:00 PM
Volume	0	0	293	3	13	7	309

Day Total	0	0	3326	20	141	74	3561
Percentage	0.00%	0.00%	93.40%	0.56%	3.96%	2.08%	

Greenfield Road (Route 5)
north of Conway Road (Route 116)
City, State: Deerfield, MA
Client: VHB/M. Pause
Site Code: 42986.00



PRECISION
DATA
INDUSTRIES, LLC

157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

PDI File #: 239242 ATR A

Count Date: Saturday, March 18, 2023
Direction: NB

AM	Bicycles	Motorcycle	Cars & Light Goods	Buses	Single Unit Heavy	Multi Unit Heavy	Total
12:00 AM	0	0	5	0	0	0	5
12:15 AM	0	0	4	0	0	0	4
12:30 AM	0	0	6	0	0	0	6
12:45 AM	0	0	4	0	0	0	4
1:00 AM	0	0	6	0	0	0	6
1:15 AM	0	0	5	0	0	0	5
1:30 AM	0	0	8	0	0	0	8
1:45 AM	0	0	0	0	0	0	0
2:00 AM	0	0	2	0	0	0	2
2:15 AM	0	0	2	0	0	0	2
2:30 AM	0	0	6	0	0	0	6
2:45 AM	0	0	1	0	0	0	1
3:00 AM	0	0	2	0	0	0	2
3:15 AM	0	0	3	0	0	0	3
3:30 AM	0	0	1	0	0	0	1
3:45 AM	0	0	0	0	1	0	1
4:00 AM	0	0	1	0	0	1	2
4:15 AM	0	0	3	0	0	0	3
4:30 AM	0	0	2	0	0	0	2
4:45 AM	0	0	0	0	0	0	0
5:00 AM	0	0	2	0	0	0	2
5:15 AM	0	0	2	0	1	0	3
5:30 AM	0	0	17	0	0	0	17
5:45 AM	0	0	18	0	0	0	18
6:00 AM	0	0	9	0	1	0	10
6:15 AM	0	0	5	0	0	0	5
6:30 AM	0	0	7	0	0	0	7
6:45 AM	0	0	18	0	0	0	18
7:00 AM	0	0	7	0	0	0	7
7:15 AM	0	0	12	0	0	1	13
7:30 AM	0	0	19	0	1	0	20
7:45 AM	0	0	19	0	0	0	19
8:00 AM	0	0	23	0	1	0	24
8:15 AM	0	0	21	0	1	0	22
8:30 AM	0	0	29	0	3	0	32
8:45 AM	0	0	25	0	1	0	26
9:00 AM	0	0	32	0	1	0	33
9:15 AM	0	0	39	0	1	0	40
9:30 AM	0	0	46	0	2	0	48
9:45 AM	0	0	52	0	0	0	52
10:00 AM	0	0	46	0	0	0	46
10:15 AM	0	0	50	0	0	1	51
10:30 AM	0	0	48	0	0	0	48
10:45 AM	1	0	44	0	1	0	46
11:00 AM	0	0	56	0	0	0	56
11:15 AM	0	0	60	1	2	0	63
11:30 AM	0	0	59	0	0	1	60
11:45 AM	0	0	86	0	1	0	87

PM	Bicycles	Motorcycle	Cars & Light Goods	Buses	Single Unit Heavy	Multi Unit Heavy	Total
12:00 PM	0	0	79	0	1	0	80
12:15 PM	0	0	70	0	1	0	71
12:30 PM	0	0	74	0	0	0	74
12:45 PM	1	0	74	0	1	0	76
1:00 PM	1	1	82	0	0	0	84
1:15 PM	0	0	83	0	1	0	84
1:30 PM	0	0	89	0	0	0	89
1:45 PM	0	0	82	0	0	0	82
2:00 PM	0	0	71	0	1	0	72
2:15 PM	0	0	89	0	0	0	89
2:30 PM	0	0	82	1	0	0	83
2:45 PM	1	0	82	0	0	0	83
3:00 PM	0	0	75	0	0	0	75
3:15 PM	0	0	68	0	0	0	68
3:30 PM	0	0	77	0	0	0	77
3:45 PM	0	0	61	0	0	0	61
4:00 PM	0	1	67	0	0	0	68
4:15 PM	0	0	50	0	0	0	50
4:30 PM	1	0	61	0	0	1	63
4:45 PM	0	0	55	0	0	0	55
5:00 PM	0	0	68	0	0	0	68
5:15 PM	0	0	61	0	0	0	61
5:30 PM	0	0	46	0	0	0	46
5:45 PM	0	0	39	0	0	0	39
6:00 PM	0	0	46	0	0	0	46
6:15 PM	0	0	39	0	1	0	40
6:30 PM	0	0	36	0	0	0	36
6:45 PM	0	0	40	0	0	1	41
7:00 PM	0	0	30	0	0	0	30
7:15 PM	0	0	28	0	0	0	28
7:30 PM	0	0	19	0	0	0	19
7:45 PM	0	0	28	0	0	0	28
8:00 PM	0	0	29	0	0	0	29
8:15 PM	0	0	19	0	0	0	19
8:30 PM	0	0	8	0	0	0	8
8:45 PM	0	0	17	0	0	0	17
9:00 PM	0	0	15	0	0	0	15
9:15 PM	0	0	22	0	0	0	22
9:30 PM	0	0	21	0	0	0	21
9:45 PM	0	0	14	0	0	0	14
10:00 PM	0	0	17	0	0	0	17
10:15 PM	0	0	10	0	0	0	10
10:30 PM	0	0	9	0	1	0	10
10:45 PM	0	0	11	0	0	0	11
11:00 PM	0	0	12	0	0	0	12
11:15 PM	0	0	8	0	0	0	8
11:30 PM	0	0	8	0	0	0	8
11:45 PM	0	0	9	0	0	0	9

AM Total 1 0 912 1 18 4 936
Percentage 0.11% 0.00% 97.44% 0.11% 1.92% 0.43%

AM Peak 10:00 AM 12:00 AM 11:00 AM 10:30 AM 8:00 AM 3:15 AM 11:00 AM
Volume 1 0 261 1 6 1 266

PM Total 4 2 2180 1 7 2 2196
Percentage 0.18% 0.09% 99.27% 0.05% 0.32% 0.09%

PM Peak 12:15 PM 12:15 PM 1:00 PM 1:45 PM 12:00 PM 3:45 PM 1:00 PM
Volume 2 1 336 1 3 1 339

Day Total 5 2 3092 2 25 6 3132
Percentage 0.16% 0.06% 98.72% 0.06% 0.80% 0.19%

Greenfield Road (Route 5)
north of Conway Road (Route 116)
City, State: Deerfield, MA
Client: VHB/M. Pause
Site Code: 42986.00



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PDI File #: 239242 ATR A

Count Date: Thursday, March 16, 2023
Direction: SB

AM	Bicycles	Motorcycle	Cars & Light Goods	Buses	Single Unit Heavy	Multi Unit Heavy	Total
12:00 AM	0	0	0	0	0	0	0
12:15 AM	0	0	0	0	0	0	0
12:30 AM	0	0	0	0	0	0	0
12:45 AM	0	0	0	0	0	0	0
1:00 AM	0	0	0	0	0	0	0
1:15 AM	0	0	2	0	0	0	2
1:30 AM	0	0	2	0	0	0	2
1:45 AM	0	0	5	0	0	0	5
2:00 AM	0	0	1	0	0	1	2
2:15 AM	0	0	2	0	0	0	2
2:30 AM	0	0	3	0	0	2	5
2:45 AM	0	0	3	0	0	0	3
3:00 AM	0	0	3	0	0	0	3
3:15 AM	0	0	1	0	0	0	1
3:30 AM	0	0	0	0	0	1	1
3:45 AM	0	0	5	0	0	0	5
4:00 AM	0	0	1	0	1	1	3
4:15 AM	0	0	7	0	0	0	7
4:30 AM	0	0	6	0	0	1	7
4:45 AM	0	0	5	0	0	0	5
5:00 AM	0	0	19	1	1	1	22
5:15 AM	0	0	14	0	0	0	14
5:30 AM	0	0	14	0	0	1	15
5:45 AM	0	0	15	0	0	1	16
6:00 AM	0	0	24	0	0	1	25
6:15 AM	0	0	36	0	0	1	37
6:30 AM	0	0	37	0	0	0	37
6:45 AM	0	0	27	0	0	1	28
7:00 AM	0	0	40	1	2	1	44
7:15 AM	0	0	51	1	3	2	57
7:30 AM	0	0	53	0	3	2	58
7:45 AM	0	0	44	0	4	1	49
8:00 AM	0	0	40	0	5	1	46
8:15 AM	0	0	56	2	5	1	64
8:30 AM	0	0	55	0	4	1	60
8:45 AM	0	0	38	0	2	0	40
9:00 AM	0	0	41	1	3	3	48
9:15 AM	0	0	40	0	4	0	44
9:30 AM	0	0	51	0	0	1	52
9:45 AM	0	0	53	0	2	3	58
10:00 AM	0	0	35	0	2	2	39
10:15 AM	0	0	42	0	5	3	50
10:30 AM	0	0	45	0	4	3	52
10:45 AM	0	0	50	0	4	1	55
11:00 AM	0	0	41	1	2	0	44
11:15 AM	0	0	48	1	2	1	52
11:30 AM	0	0	59	0	2	2	63
11:45 AM	0	0	55	0	3	2	60

PM	Bicycles	Motorcycle	Cars & Light Goods	Buses	Single Unit Heavy	Multi Unit Heavy	Total
12:00 PM	0	0	59	0	3	1	63
12:15 PM	0	0	68	0	7	2	77
12:30 PM	0	0	58	1	0	1	60
12:45 PM	0	0	67	0	0	2	69
1:00 PM	0	0	77	1	2	0	80
1:15 PM	0	0	59	0	2	1	62
1:30 PM	0	0	46	0	2	3	51
1:45 PM	0	0	56	0	6	0	62
2:00 PM	0	0	93	0	1	1	95
2:15 PM	0	0	87	0	2	1	90
2:30 PM	0	0	72	0	2	2	76
2:45 PM	0	0	59	1	4	2	66
3:00 PM	0	0	77	2	3	2	84
3:15 PM	0	0	77	0	1	2	80
3:30 PM	1	0	89	1	1	3	95
3:45 PM	0	0	67	1	1	1	70
4:00 PM	0	0	70	0	5	1	76
4:15 PM	0	0	61	0	4	3	68
4:30 PM	0	0	71	1	2	2	76
4:45 PM	0	0	73	0	2	0	75
5:00 PM	0	0	92	2	1	0	95
5:15 PM	0	0	64	0	2	0	66
5:30 PM	0	0	63	0	0	0	63
5:45 PM	0	0	46	0	0	2	48
6:00 PM	0	0	44	0	0	0	44
6:15 PM	0	0	43	0	0	4	47
6:30 PM	0	0	55	0	0	1	56
6:45 PM	0	0	24	0	0	0	24
7:00 PM	0	0	38	0	0	1	39
7:15 PM	0	0	52	2	1	0	55
7:30 PM	0	0	40	0	2	0	42
7:45 PM	0	0	25	0	0	0	25
8:00 PM	0	0	36	0	0	0	36
8:15 PM	0	0	22	0	0	0	22
8:30 PM	0	0	25	0	0	1	26
8:45 PM	0	0	14	0	0	0	14
9:00 PM	0	0	20	0	1	0	21
9:15 PM	0	0	10	0	0	0	10
9:30 PM	0	0	7	0	1	0	8
9:45 PM	0	0	9	0	1	0	10
10:00 PM	0	0	25	0	0	0	25
10:15 PM	0	0	13	0	0	0	13
10:30 PM	0	0	9	0	0	0	9
10:45 PM	0	0	5	0	0	0	5
11:00 PM	0	0	9	0	0	0	9
11:15 PM	0	0	7	0	0	0	7
11:30 PM	0	0	2	0	0	0	2
11:45 PM	0	0	6	0	0	0	6

AM Total	0	0	1169	8	63	42	1282
Percentage	0.00%	0.00%	91.19%	0.62%	4.91%	3.28%	
AM Peak	12:00 AM	12:00 AM	11:00 AM	8:15 AM	7:45 AM	9:45 AM	7:45 AM
Volume	0	0	203	3	18	11	219

PM Total	1	0	2191	12	59	39	2302
Percentage	0.04%	0.00%	95.18%	0.52%	2.56%	1.69%	
PM Peak	2:45 PM	12:00 PM	2:00 PM	2:45 PM	4:00 PM	2:45 PM	3:00 PM
Volume	1	0	311	4	13	9	329

Day Total	1	0	3360	20	122	81	3584
Percentage	0.03%	0.00%	93.75%	0.56%	3.40%	2.26%	

Greenfield Road (Route 5)
north of Conway Road (Route 116)
City, State: Deerfield, MA
Client: VHB/M. Pause
Site Code: 42986.00



PRECISION
DATA
INDUSTRIES, LLC

157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

PDI File #: 239242 ATR A

Count Date: Saturday, March 18, 2023
Direction: SB

AM	Bicycles	Motorcycle	Cars & Light Goods	Buses	Single Unit Heavy	Multi Unit Heavy	Total
12:00 AM	0	0	3	0	0	0	3
12:15 AM	0	0	4	0	0	0	4
12:30 AM	0	0	1	0	0	0	1
12:45 AM	0	0	7	0	0	0	7
1:00 AM	0	0	3	0	0	0	3
1:15 AM	0	0	3	0	0	0	3
1:30 AM	0	0	1	0	0	0	1
1:45 AM	0	0	1	0	0	0	1
2:00 AM	0	0	0	0	0	0	0
2:15 AM	0	0	3	0	0	0	3
2:30 AM	0	0	0	0	0	0	0
2:45 AM	0	0	2	0	0	0	2
3:00 AM	0	0	2	0	1	0	3
3:15 AM	0	0	3	0	0	0	3
3:30 AM	0	0	2	0	0	0	2
3:45 AM	0	0	2	0	0	0	2
4:00 AM	0	0	3	0	0	1	4
4:15 AM	0	0	3	0	0	0	3
4:30 AM	0	0	1	0	0	0	1
4:45 AM	0	0	2	0	0	0	2
5:00 AM	0	0	6	0	0	0	6
5:15 AM	0	0	2	0	0	0	2
5:30 AM	0	0	5	0	0	0	5
5:45 AM	0	0	5	0	0	0	5
6:00 AM	0	0	4	0	0	0	4
6:15 AM	0	0	7	0	0	0	7
6:30 AM	0	0	8	0	0	0	8
6:45 AM	0	0	12	0	0	0	12
7:00 AM	0	0	9	0	0	0	9
7:15 AM	0	0	12	0	1	0	13
7:30 AM	0	0	16	0	0	0	16
7:45 AM	0	0	16	0	1	0	17
8:00 AM	0	0	12	0	0	0	12
8:15 AM	0	0	22	0	1	0	23
8:30 AM	0	0	25	0	1	0	26
8:45 AM	0	0	30	0	1	0	31
9:00 AM	0	0	39	0	1	1	41
9:15 AM	0	0	46	0	1	0	47
9:30 AM	0	0	34	0	2	0	36
9:45 AM	0	0	60	0	2	0	62
10:00 AM	0	0	53	0	1	0	54
10:15 AM	0	0	44	0	0	0	44
10:30 AM	0	0	35	0	0	1	36
10:45 AM	0	0	55	0	0	0	55
11:00 AM	0	0	57	1	0	0	58
11:15 AM	0	0	79	0	0	0	79
11:30 AM	0	0	61	0	2	0	63
11:45 AM	0	0	52	0	0	0	52

PM	Bicycles	Motorcycle	Cars & Light Goods	Buses	Single Unit Heavy	Multi Unit Heavy	Total
12:00 PM	0	0	73	0	0	0	73
12:15 PM	0	0	74	0	2	0	76
12:30 PM	0	0	63	0	0	1	64
12:45 PM	0	0	61	0	0	0	61
1:00 PM	1	1	69	0	1	0	72
1:15 PM	1	0	59	0	0	0	60
1:30 PM	0	0	69	0	0	0	69
1:45 PM	0	0	77	0	0	0	77
2:00 PM	1	0	68	0	1	0	70
2:15 PM	0	0	89	0	0	0	89
2:30 PM	0	0	93	0	1	0	94
2:45 PM	0	0	92	0	0	0	92
3:00 PM	0	0	69	0	0	0	69
3:15 PM	0	0	99	0	0	0	99
3:30 PM	0	0	77	0	0	0	77
3:45 PM	0	0	73	0	0	0	73
4:00 PM	0	0	94	0	4	0	98
4:15 PM	0	0	71	0	0	0	71
4:30 PM	1	0	65	0	1	0	67
4:45 PM	1	1	70	0	0	0	72
5:00 PM	0	0	66	0	1	0	67
5:15 PM	0	0	57	0	0	0	57
5:30 PM	0	0	51	0	0	0	51
5:45 PM	0	0	54	0	0	0	54
6:00 PM	0	0	59	0	1	0	60
6:15 PM	0	0	38	0	0	0	38
6:30 PM	0	0	31	0	0	0	31
6:45 PM	0	0	43	0	1	0	44
7:00 PM	0	0	37	0	2	0	39
7:15 PM	0	0	38	0	0	0	38
7:30 PM	0	0	38	0	0	0	38
7:45 PM	0	0	30	0	0	0	30
8:00 PM	0	0	43	0	0	0	43
8:15 PM	0	0	17	0	0	0	17
8:30 PM	0	0	26	0	0	0	26
8:45 PM	0	0	12	0	0	0	12
9:00 PM	0	0	11	0	0	0	11
9:15 PM	0	0	15	0	0	0	15
9:30 PM	0	0	18	0	0	0	18
9:45 PM	0	0	11	0	0	0	11
10:00 PM	0	0	11	0	0	0	11
10:15 PM	0	0	16	0	0	0	16
10:30 PM	0	0	7	0	0	0	7
10:45 PM	0	0	8	0	0	0	8
11:00 PM	0	0	2	0	0	0	2
11:15 PM	0	0	11	0	0	0	11
11:30 PM	0	0	7	0	0	0	7
11:45 PM	0	0	5	0	0	0	5

AM Total 0 0 852 1 15 3 871
Percentage 0.00% 0.00% 97.82% 0.11% 1.72% 0.34%

PM Total 5 2 2267 0 15 1 2290
Percentage 0.22% 0.09% 99.00% 0.00% 0.66% 0.04%

AM Peak 12:00 AM 12:00 AM 10:45 AM 10:15 AM 9:00 AM 3:15 AM 10:45 AM
Volume 0 0 252 1 6 1 255

PM Peak 12:30 PM 12:15 PM 2:30 PM 12:00 PM 3:45 PM 12:00 PM 2:30 PM
Volume 2 1 353 0 5 1 354

Day Total 5 2 3119 1 30 4 3161
Percentage 0.16% 0.06% 98.67% 0.03% 0.95% 0.13%

Greenfield Road (Route 5)
north of Conway Road (Route 116)
City, State: Deerfield, MA
Client: VHB/M. Pause
Site Code: 42986.00



PRECISION
DATA
INDUSTRIES, LLC

157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

PDI File # 239242 ATR A

Direction: NB

Weekly Report

Day Date	Thursday 03/16/23		Saturday 03/18/23												Week Ave	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
12:00	0	67	5	80	0	0	0	0	0	0	0	0	0	0	3	74
12:15	0	75	4	71	0	0	0	0	0	0	0	0	0	0	2	73
12:30	0	73	6	74	0	0	0	0	0	0	0	0	0	0	3	74
12:45	0	57	4	76	0	0	0	0	0	0	0	0	0	0	2	67
1:00	2	66	6	84	0	0	0	0	0	0	0	0	0	0	4	75
1:15	2	63	5	84	0	0	0	0	0	0	0	0	0	0	4	74
1:30	2	68	8	89	0	0	0	0	0	0	0	0	0	0	5	79
1:45	5	72	0	82	0	0	0	0	0	0	0	0	0	0	3	77
2:00	0	70	2	72	0	0	0	0	0	0	0	0	0	0	1	71
2:15	2	78	2	89	0	0	0	0	0	0	0	0	0	0	2	84
2:30	4	66	6	83	0	0	0	0	0	0	0	0	0	0	5	75
2:45	0	75	1	83	0	0	0	0	0	0	0	0	0	0	1	79
3:00	0	80	2	75	0	0	0	0	0	0	0	0	0	0	1	78
3:15	0	69	3	68	0	0	0	0	0	0	0	0	0	0	2	69
3:30	3	84	1	77	0	0	0	0	0	0	0	0	0	0	2	81
3:45	3	76	1	61	0	0	0	0	0	0	0	0	0	0	2	69
4:00	3	68	2	68	0	0	0	0	0	0	0	0	0	0	3	68
4:15	1	76	3	50	0	0	0	0	0	0	0	0	0	0	2	63
4:30	0	78	2	63	0	0	0	0	0	0	0	0	0	0	1	71
4:45	6	68	0	55	0	0	0	0	0	0	0	0	0	0	3	62
5:00	4	71	2	68	0	0	0	0	0	0	0	0	0	0	3	70
5:15	15	80	3	61	0	0	0	0	0	0	0	0	0	0	9	71
5:30	28	63	17	46	0	0	0	0	0	0	0	0	0	0	23	55
5:45	39	56	18	39	0	0	0	0	0	0	0	0	0	0	29	48
6:00	18	57	10	46	0	0	0	0	0	0	0	0	0	0	14	52
6:15	30	39	5	40	0	0	0	0	0	0	0	0	0	0	18	40
6:30	29	28	7	36	0	0	0	0	0	0	0	0	0	0	18	32
6:45	58	40	18	41	0	0	0	0	0	0	0	0	0	0	38	41
7:00	50	33	7	30	0	0	0	0	0	0	0	0	0	0	29	32
7:15	50	28	13	28	0	0	0	0	0	0	0	0	0	0	32	28
7:30	76	28	20	19	0	0	0	0	0	0	0	0	0	0	48	24
7:45	65	17	19	28	0	0	0	0	0	0	0	0	0	0	42	23
8:00	58	24	24	29	0	0	0	0	0	0	0	0	0	0	41	27
8:15	59	19	22	19	0	0	0	0	0	0	0	0	0	0	41	19
8:30	77	22	32	8	0	0	0	0	0	0	0	0	0	0	55	15
8:45	69	15	26	17	0	0	0	0	0	0	0	0	0	0	48	16
9:00	46	25	33	15	0	0	0	0	0	0	0	0	0	0	40	20
9:15	50	16	40	22	0	0	0	0	0	0	0	0	0	0	45	19
9:30	60	16	48	21	0	0	0	0	0	0	0	0	0	0	54	19
9:45	64	18	52	14	0	0	0	0	0	0	0	0	0	0	58	16
10:00	45	13	46	17	0	0	0	0	0	0	0	0	0	0	46	15
10:15	53	15	51	10	0	0	0	0	0	0	0	0	0	0	52	13
10:30	36	15	48	10	0	0	0	0	0	0	0	0	0	0	42	13
10:45	43	5	46	11	0	0	0	0	0	0	0	0	0	0	45	8
11:00	53	5	56	12	0	0	0	0	0	0	0	0	0	0	55	9
11:15	50	3	63	8	0	0	0	0	0	0	0	0	0	0	57	6
11:30	56	8	60	8	0	0	0	0	0	0	0	0	0	0	58	8
11:45	55	4	87	9	0	0	0	0	0	0	0	0	0	0	71	7
Total	1369	2192	936	2196	0	1153	2194									
Day Total	3561		3132		0	3347										
Peak HR	8:00 AM	3:00 PM	11:00 AM	1:00 PM											11:00 AM	2:15 PM
Volume	263	309	266	339											240	315

Greenfield Road (Route 5)
north of Conway Road (Route 116)
City, State: Deerfield, MA
Client: VHB/M. Pause
Site Code: 42986.00



PRECISION
DATA
INDUSTRIES, LLC

157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-9100 Fax: 508-875-0118

PDI File # 239242 ATR A

Direction: SB

Weekly Report

Day Date	Thursday 03/16/23		Saturday 03/18/23												Week Ave			
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM		
12:00	0	63	3	73	0	0	0	0	0	0	0	0	0	0	2	68		
12:15	0	77	4	76	0	0	0	0	0	0	0	0	0	0	2	77		
12:30	0	60	1	64	0	0	0	0	0	0	0	0	0	0	1	62		
12:45	0	69	7	61	0	0	0	0	0	0	0	0	0	0	4	65		
1:00	0	80	3	72	0	0	0	0	0	0	0	0	0	0	2	76		
1:15	2	62	3	60	0	0	0	0	0	0	0	0	0	0	3	61		
1:30	2	51	1	69	0	0	0	0	0	0	0	0	0	0	2	60		
1:45	5	62	1	77	0	0	0	0	0	0	0	0	0	0	3	70		
2:00	2	95	0	70	0	0	0	0	0	0	0	0	0	0	1	83		
2:15	2	90	3	89	0	0	0	0	0	0	0	0	0	0	3	90		
2:30	5	76	0	94	0	0	0	0	0	0	0	0	0	0	3	85		
2:45	3	66	2	92	0	0	0	0	0	0	0	0	0	0	3	79		
3:00	3	84	3	69	0	0	0	0	0	0	0	0	0	0	3	77		
3:15	1	80	3	99	0	0	0	0	0	0	0	0	0	0	2	90		
3:30	1	95	2	77	0	0	0	0	0	0	0	0	0	0	2	86		
3:45	5	70	2	73	0	0	0	0	0	0	0	0	0	0	4	72		
4:00	3	76	4	98	0	0	0	0	0	0	0	0	0	0	4	87		
4:15	7	68	3	71	0	0	0	0	0	0	0	0	0	0	5	70		
4:30	7	76	1	67	0	0	0	0	0	0	0	0	0	0	4	72		
4:45	5	75	2	72	0	0	0	0	0	0	0	0	0	0	4	74		
5:00	22	95	6	67	0	0	0	0	0	0	0	0	0	0	14	81		
5:15	14	66	2	57	0	0	0	0	0	0	0	0	0	0	8	62		
5:30	15	63	5	51	0	0	0	0	0	0	0	0	0	0	10	57		
5:45	16	48	5	54	0	0	0	0	0	0	0	0	0	0	11	51		
6:00	25	44	4	60	0	0	0	0	0	0	0	0	0	0	15	52		
6:15	37	47	7	38	0	0	0	0	0	0	0	0	0	0	22	43		
6:30	37	56	8	31	0	0	0	0	0	0	0	0	0	0	23	44		
6:45	28	24	12	44	0	0	0	0	0	0	0	0	0	0	20	34		
7:00	44	39	9	39	0	0	0	0	0	0	0	0	0	0	27	39		
7:15	57	55	13	38	0	0	0	0	0	0	0	0	0	0	35	47		
7:30	58	42	16	38	0	0	0	0	0	0	0	0	0	0	37	40		
7:45	49	25	17	30	0	0	0	0	0	0	0	0	0	0	33	28		
8:00	46	36	12	43	0	0	0	0	0	0	0	0	0	0	29	40		
8:15	64	22	23	17	0	0	0	0	0	0	0	0	0	0	44	20		
8:30	60	26	26	26	0	0	0	0	0	0	0	0	0	0	43	26		
8:45	40	14	31	12	0	0	0	0	0	0	0	0	0	0	36	13		
9:00	48	21	41	11	0	0	0	0	0	0	0	0	0	0	45	16		
9:15	44	10	47	15	0	0	0	0	0	0	0	0	0	0	46	13		
9:30	52	8	36	18	0	0	0	0	0	0	0	0	0	0	44	13		
9:45	58	10	62	11	0	0	0	0	0	0	0	0	0	0	60	11		
10:00	39	25	54	11	0	0	0	0	0	0	0	0	0	0	47	18		
10:15	50	13	44	16	0	0	0	0	0	0	0	0	0	0	47	15		
10:30	52	9	36	7	0	0	0	0	0	0	0	0	0	0	44	8		
10:45	55	5	55	8	0	0	0	0	0	0	0	0	0	0	55	7		
11:00	44	9	58	2	0	0	0	0	0	0	0	0	0	0	51	6		
11:15	52	7	79	11	0	0	0	0	0	0	0	0	0	0	66	9		
11:30	63	2	63	7	0	0	0	0	0	0	0	0	0	0	63	5		
11:45	60	6	52	5	0	0	0	0	0	0	0	0	0	0	56	6		
Total	1282	2302	871	2290	0	1077	2296											
Day Total	3584		3161		0		0		0		0		0		3373			
Peak HR	7:45 AM	3:00 PM	10:45 AM	2:30 PM													11:00 AM	2:00 PM
Volume	219	329	255	354													236	336

PDI File #: **239242 A**
 Location: **N: Greenfield Road (Route 5) S: Greenfield Road (Route 5)**
 Location: **E: Fire Station Driveway W: Conway Road (Route 116)**
 City, State: **Deerfield, MA**
 Client: **VHB/M. Pause**
 Site Code: **42986.00**
 Count Date: **Thursday, March 16, 2023**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



Cars and Heavy Vehicles (Combined)

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	3	42	0	0	45	0	0	1	0	1	0	43	51	0	94	60	1	7	0	68	208
7:15 AM	2	49	1	0	52	0	1	0	0	1	0	43	60	0	103	68	0	7	0	75	231
7:30 AM	4	59	0	0	63	0	0	0	0	0	1	66	99	0	166	91	0	10	0	101	330
7:45 AM	3	45	0	0	48	0	0	1	0	1	1	54	105	0	160	83	0	11	0	94	303
Total	12	195	1	0	208	0	1	2	0	3	2	206	315	0	523	302	1	35	0	338	1072
8:00 AM	4	41	0	0	45	0	1	0	0	1	0	50	110	0	160	76	1	8	0	85	291
8:15 AM	8	51	1	0	60	1	1	0	0	2	0	53	114	0	167	91	0	6	0	97	326
8:30 AM	5	53	0	0	58	0	0	0	0	0	0	70	137	0	207	86	0	9	0	95	360
8:45 AM	4	41	1	0	46	0	0	2	0	2	1	64	106	0	171	45	0	8	0	53	272
Total	21	186	2	0	209	1	2	2	0	5	1	237	467	0	705	298	1	31	0	330	1249
Grand Total	33	381	3	0	417	1	3	4	0	8	3	443	782	0	1228	600	2	66	0	668	2321
Approach %	7.9	91.4	0.7	0.0		12.5	37.5	50.0	0.0		0.2	36.1	63.7	0.0		89.8	0.3	9.9	0.0		
Total %	1.4	16.4	0.1	0.0	18.0	0.0	0.1	0.2	0.0	0.3	0.1	19.1	33.7	0.0	52.9	25.9	0.1	2.8	0.0	28.8	
Exiting Leg Total	510					8					985					818					2321
Cars	27	344	3	0	374	0	2	3	0	5	1	403	677	0	1081	572	2	65	0	639	2099
% Cars	81.8	90.3	100.0	0.0	89.7	0.0	66.7	75.0	0.0	62.5	33.3	91.0	86.6	0.0	88.0	95.3	100.0	98.5	0.0	95.7	90.4
Exiting Leg Total	468					6					919					706					2099
Heavy Vehicles	6	37	0	0	43	1	1	1	0	3	2	40	105	0	147	28	0	1	0	29	222
% Heavy Vehicles	18.2	9.7	0.0	0.0	10.3	100.0	33.3	25.0	0.0	37.5	66.7	9.0	13.4	0.0	12.0	4.7	0.0	1.5	0.0	4.3	9.6
Exiting Leg Total	42					2					66					112					222

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:45 AM	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:45 AM	3	45	0	0	48	0	0	1	0	1	1	54	105	0	160	83	0	11	0	94	303
8:00 AM	4	41	0	0	45	0	1	0	0	1	0	50	110	0	160	76	1	8	0	85	291
8:15 AM	8	51	1	0	60	1	1	0	0	2	0	53	114	0	167	91	0	6	0	97	326
8:30 AM	5	53	0	0	58	0	0	0	0	0	0	70	137	0	207	86	0	9	0	95	360
Total Volume	20	190	1	0	211	1	2	1	0	4	1	227	466	0	694	336	1	34	0	371	1280
% Approach Total	9.5	90.0	0.5	0.0		25.0	50.0	25.0	0.0		0.1	32.7	67.1	0.0		90.6	0.3	9.2	0.0		
PHF	0.625	0.896	0.250	0.000	0.879	0.250	0.500	0.250	0.000	0.500	0.250	0.811	0.850	0.000	0.838	0.923	0.250	0.773	0.000	0.956	0.889
Cars	16	168	1	0	185	0	1	1	0	2	0	209	397	0	606	324	1	33	0	358	1151
Cars %	80.0	88.4	100.0	0.0	87.7	0.0	50.0	100.0	0.0	50.0	0.0	92.1	85.2	0.0	87.3	96.4	100.0	97.1	0.0	96.5	89.9
Heavy Vehicles	4	22	0	0	26	1	1	0	0	2	1	18	69	0	88	12	0	1	0	13	129
Heavy Vehicles %	20.0	11.6	0.0	0.0	12.3	100.0	50.0	0.0	0.0	50.0	100.0	7.9	14.8	0.0	12.7	3.6	0.0	2.9	0.0	3.5	10.1
Cars Enter Leg	16	168	1	0	185	0	1	1	0	2	0	209	397	0	606	324	1	33	0	358	1151
Heavy Enter Leg	4	22	0	0	26	1	1	0	0	2	1	18	69	0	88	12	0	1	0	13	129
Total Entering Leg	20	190	1	0	211	1	2	1	0	4	1	227	466	0	694	336	1	34	0	371	1280
Cars Exiting Leg	242					2					493					414					1151
Heavy Exiting Leg	20					1					34					74					129
Total Exiting Leg	262					3					527					488					1280

PDI File #: **239242 A**
 Location: **N: Greenfield Road (Route 5) S: Greenfield Road (Route 5)**
 Location: **E: Fire Station Driveway W: Conway Road (Route 116)**
 City, State: **Deerfield, MA**
 Client: **VHB/M. Pause**
 Site Code: **42986.00**
 Count Date: **Thursday, March 16, 2023**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



Cars

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	3	38	0	0	41	0	0	0	0	0	0	38	50	0	88	59	1	7	0	67	196
7:15 AM	1	44	1	0	46	0	1	0	0	1	0	41	53	0	94	63	0	7	0	70	211
7:30 AM	3	55	0	0	58	0	0	0	0	0	0	58	90	0	148	88	0	10	0	98	304
7:45 AM	2	41	0	0	43	0	0	1	0	1	0	52	98	0	150	82	0	11	0	93	287
Total	9	178	1	0	188	0	1	1	0	2	0	189	291	0	480	292	1	35	0	328	998
8:00 AM	4	35	0	0	39	0	0	0	0	0	0	44	86	0	130	74	1	8	0	83	252
8:15 AM	7	44	1	0	52	0	1	0	0	1	0	44	97	0	141	87	0	6	0	93	287
8:30 AM	3	48	0	0	51	0	0	0	0	0	0	69	116	0	185	81	0	8	0	89	325
8:45 AM	4	39	1	0	44	0	0	2	0	2	1	57	87	0	145	38	0	8	0	46	237
Total	18	166	2	0	186	0	1	2	0	3	1	214	386	0	601	280	1	30	0	311	1101
Grand Total	27	344	3	0	374	0	2	3	0	5	1	403	677	0	1081	572	2	65	0	639	2099
Approach %	7.2	92.0	0.8	0.0		0.0	40.0	60.0	0.0		0.1	37.3	62.6	0.0		89.5	0.3	10.2	0.0		
Total %	1.3	16.4	0.1	0.0	17.8	0.0	0.1	0.1	0.0	0.2	0.0	19.2	32.3	0.0	51.5	27.3	0.1	3.1	0.0	30.4	
Exiting Leg Total	468					6					919					706					2099

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:45 AM	2	41	0	0	43	0	0	1	0	1	0	52	98	0	150	82	0	11	0	93	287
8:00 AM	4	35	0	0	39	0	0	0	0	0	0	44	86	0	130	74	1	8	0	83	252
8:15 AM	7	44	1	0	52	0	1	0	0	1	0	44	97	0	141	87	0	6	0	93	287
8:30 AM	3	48	0	0	51	0	0	0	0	0	0	69	116	0	185	81	0	8	0	89	325
Total Volume	16	168	1	0	185	0	1	1	0	2	0	209	397	0	606	324	1	33	0	358	1151
% Approach Total	8.6	90.8	0.5	0.0		0.0	50.0	50.0	0.0		0.0	34.5	65.5	0.0		90.5	0.3	9.2	0.0		
PHF	0.571	0.875	0.250	0.000	0.889	0.000	0.250	0.250	0.000	0.500	0.000	0.757	0.856	0.000	0.819	0.931	0.250	0.750	0.000	0.962	0.885
Entering Leg	16	168	1	0	185	0	1	1	0	2	0	209	397	0	606	324	1	33	0	358	1151
Exiting Leg	242					2					493					414					1151
Total	427					4					1099					772					2302

PDI File #: **239242 A**
 Location: **N: Greenfield Road (Route 5) S: Greenfield Road (Route 5)**
 Location: **E: Fire Station Driveway W: Conway Road (Route 116)**
 City, State: **Deerfield, MA**
 Client: **VHB/M. Pause**
 Site Code: **42986.00**
 Count Date: **Thursday, March 16, 2023**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	4	0	0	4	0	0	1	0	1	0	5	1	0	6	1	0	0	0	1	12
7:15 AM	1	5	0	0	6	0	0	0	0	0	0	2	7	0	9	5	0	0	0	5	20
7:30 AM	1	4	0	0	5	0	0	0	0	0	1	8	9	0	18	3	0	0	0	3	26
7:45 AM	1	4	0	0	5	0	0	0	0	0	1	2	7	0	10	1	0	0	0	1	16
Total	3	17	0	0	20	0	0	1	0	1	2	17	24	0	43	10	0	0	0	10	74
8:00 AM	0	6	0	0	6	0	1	0	0	1	0	6	24	0	30	2	0	0	0	2	39
8:15 AM	1	7	0	0	8	1	0	0	0	1	0	9	17	0	26	4	0	0	0	4	39
8:30 AM	2	5	0	0	7	0	0	0	0	0	0	1	21	0	22	5	0	1	0	6	35
8:45 AM	0	2	0	0	2	0	0	0	0	0	0	7	19	0	26	7	0	0	0	7	35
Total	3	20	0	0	23	1	1	0	0	2	0	23	81	0	104	18	0	1	0	19	148
Grand Total	6	37	0	0	43	1	1	1	0	3	2	40	105	0	147	28	0	1	0	29	222
Approach %	14.0	86.0	0.0	0.0		33.3	33.3	33.3	0.0		1.4	27.2	71.4	0.0		96.6	0.0	3.4	0.0		
Total %	2.7	16.7	0.0	0.0	19.4	0.5	0.5	0.5	0.0	1.4	0.9	18.0	47.3	0.0	66.2	12.6	0.0	0.5	0.0	13.1	
Exiting Leg Total	42					2					66					112					222
Buses	0	4	0	0	4	0	1	0	0	1	1	4	6	0	11	9	0	0	0	9	25
% Buses	0.0	10.8	0.0	0.0	9.3	0.0	100.0	0.0	0.0	33.3	50.0	10.0	5.7	0.0	7.5	32.1	0.0	0.0	0.0	31.0	11.3
Exiting Leg Total	4					1					13					7					25
Single-Unit Trucks	5	24	0	0	29	1	0	1	0	2	1	25	87	0	113	16	0	1	0	17	161
% Single-Unit	83.3	64.9	0.0	0.0	67.4	100.0	0.0	100.0	0.0	66.7	50.0	62.5	82.9	0.0	76.9	57.1	0.0	100.0	0.0	58.6	72.5
Exiting Leg Total	27					1					41					92					161
Articulated Trucks	1	9	0	0	10	0	0	0	0	0	0	11	12	0	23	3	0	0	0	3	36
% Articulated	16.7	24.3	0.0	0.0	23.3	0.0	0.0	0.0	0.0	0.0	0.0	27.5	11.4	0.0	15.6	10.7	0.0	0.0	0.0	10.3	16.2
Exiting Leg Total	11					0					12					13					36

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
8:00 AM	0	6	0	0	6	0	1	0	0	1	0	6	24	0	30	2	0	0	0	2	39
8:15 AM	1	7	0	0	8	1	0	0	0	1	0	9	17	0	26	4	0	0	0	4	39
8:30 AM	2	5	0	0	7	0	0	0	0	0	0	1	21	0	22	5	0	1	0	6	35
8:45 AM	0	2	0	0	2	0	0	0	0	0	0	7	19	0	26	7	0	0	0	7	35
Total Volume	3	20	0	0	23	1	1	0	0	2	0	23	81	0	104	18	0	1	0	19	148
% Approach Total	13.0	87.0	0.0	0.0		50.0	50.0	0.0	0.0		0.0	22.1	77.9	0.0		94.7	0.0	5.3	0.0		
PHF	0.375	0.714	0.000	0.000	0.719	0.250	0.250	0.000	0.000	0.500	0.000	0.639	0.844	0.000	0.867	0.643	0.000	0.250	0.000	0.679	0.949
Buses	0	2	0	0	2	0	1	0	0	1	0	1	1	0	2	4	0	0	0	4	9
Buses %	0.0	10.0	0.0	0.0	8.7	0.0	100.0	0.0	0.0	50.0	0.0	4.3	1.2	0.0	1.9	22.2	0.0	0.0	0.0	21.1	6.1
Single-Unit Trucks	3	14	0	0	17	1	0	0	0	1	0	16	72	0	88	11	0	1	0	12	118
Single-Unit %	100.0	70.0	0.0	0.0	73.9	100.0	0.0	0.0	0.0	50.0	0.0	69.6	88.9	0.0	84.6	61.1	0.0	100.0	0.0	63.2	79.7
Articulated Trucks	0	4	0	0	4	0	0	0	0	0	0	6	8	0	14	3	0	0	0	3	21
Articulated %	0.0	20.0	0.0	0.0	17.4	0.0	0.0	0.0	0.0	0.0	0.0	26.1	9.9	0.0	13.5	16.7	0.0	0.0	0.0	15.8	14.2
Buses	0	2	0	0	2	0	1	0	0	1	0	1	1	0	2	4	0	0	0	4	9
Single-Unit Trucks	3	14	0	0	17	1	0	0	0	1	0	16	72	0	88	11	0	1	0	12	118
Articulated Trucks	0	4	0	0	4	0	0	0	0	0	0	6	8	0	14	3	0	0	0	3	21
Total Entering Leg	3	20	0	0	23	1	1	0	0	2	0	23	81	0	104	18	0	1	0	19	148
Buses	1					0					6					2					9
Single-Unit Trucks	18					0					25					75					118
Articulated Trucks	6					0					7					8					21
Total Exiting Leg	25					0					38					85					148

PDI File #: **239242 A**
 Location: **N: Greenfield Road (Route 5) S: Greenfield Road (Route 5)**
 Location: **E: Fire Station Driveway W: Conway Road (Route 116)**
 City, State: **Deerfield, MA**
 Client: **VHB/M. Pause**
 Site Code: **42986.00**
 Count Date: **Thursday, March 16, 2023**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



Buses

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total	
	from North					from East					from South					from West						
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total		
7:00 AM	0	1	0	0	1	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	3	
7:15 AM	0	1	0	0	1	0	0	0	0	0	0	0	2	0	2	4	0	0	0	4	7	
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4	1	0	0	0	1	5	
7:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	
Total	0	2	0	0	2	0	0	0	0	0	1	3	5	0	9	5	0	0	0	5	16	
8:00 AM	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	0	0	0	0	0	2	
8:15 AM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	3	
8:30 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	4	
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	2	0	0	2	0	1	0	0	1	0	1	1	0	2	4	0	0	0	4	9	
Grand Total	0	4	0	0	4	0	1	0	0	1	1	4	6	0	11	9	0	0	0	9	25	
Approach %	0.0	100.0	0.0	0.0		0.0	100.0	0.0	0.0		9.1	36.4	54.5	0.0		100.0	0.0	0.0	0.0			
Total %	0.0	16.0	0.0	0.0	16.0	0.0	4.0	0.0	0.0	4.0	4.0	16.0	24.0	0.0	44.0	36.0	0.0	0.0	0.0	36.0		
Exiting Leg Total						4					1					13					7	25

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total	
	from North					from East					from South					from West						
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total		
7:00 AM	0	1	0	0	1	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	3	
7:15 AM	0	1	0	0	1	0	0	0	0	0	0	0	2	0	2	4	0	0	0	4	7	
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4	1	0	0	0	1	5	
7:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	
Total Volume	0	2	0	0	2	0	0	0	0	0	1	3	5	0	9	5	0	0	0	5	16	
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		11.1	33.3	55.6	0.0		100.0	0.0	0.0	0.0			
PHF	0.000	0.500	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.250	0.375	0.625	0.000	0.563	0.313	0.000	0.000	0.000	0.313	0.571	
Entering Leg	0	2	0	0	2	0	0	0	0	0	1	3	5	0	9	5	0	0	0	5	16	
Exiting Leg						3					1					7					5	16
Total						5					1					16					10	32

PDI File #: **239242 A**
 Location: **N: Greenfield Road (Route 5) S: Greenfield Road (Route 5)**
 Location: **E: Fire Station Driveway W: Conway Road (Route 116)**
 City, State: **Deerfield, MA**
 Client: **VHB/M. Pause**
 Site Code: **42986.00**
 Count Date: **Thursday, March 16, 2023**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



Single-Unit Trucks

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	2	0	0	2	0	0	1	0	1	0	2	0	0	2	1	0	0	0	1	6
7:15 AM	1	2	0	0	3	0	0	0	0	0	0	2	2	0	4	1	0	0	0	1	8
7:30 AM	1	2	0	0	3	0	0	0	0	0	1	4	6	0	11	2	0	0	0	2	16
7:45 AM	0	4	0	0	4	0	0	0	0	0	0	1	7	0	8	1	0	0	0	1	13
Total	2	10	0	0	12	0	0	1	0	1	1	9	15	0	25	5	0	0	0	5	43
8:00 AM	0	5	0	0	5	0	0	0	0	0	0	4	20	0	24	1	0	0	0	1	30
8:15 AM	1	4	0	0	5	1	0	0	0	1	0	6	14	0	20	2	0	0	0	2	28
8:30 AM	2	3	0	0	5	0	0	0	0	0	0	0	21	0	21	1	0	1	0	2	28
8:45 AM	0	2	0	0	2	0	0	0	0	0	0	6	17	0	23	7	0	0	0	7	32
Total	3	14	0	0	17	1	0	0	0	1	0	16	72	0	88	11	0	1	0	12	118
Grand Total	5	24	0	0	29	1	0	1	0	2	1	25	87	0	113	16	0	1	0	17	161
Approach %	17.2	82.8	0.0	0.0		50.0	0.0	50.0	0.0		0.9	22.1	77.0	0.0		94.1	0.0	5.9	0.0		
Total %	3.1	14.9	0.0	0.0	18.0	0.6	0.0	0.6	0.0	1.2	0.6	15.5	54.0	0.0	70.2	9.9	0.0	0.6	0.0	10.6	
Exiting Leg Total						1					41					92					161

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
8:00 AM	0	5	0	0	5	0	0	0	0	0	0	4	20	0	24	1	0	0	0	1	30
8:15 AM	1	4	0	0	5	1	0	0	0	1	0	6	14	0	20	2	0	0	0	2	28
8:30 AM	2	3	0	0	5	0	0	0	0	0	0	0	21	0	21	1	0	1	0	2	28
8:45 AM	0	2	0	0	2	0	0	0	0	0	0	6	17	0	23	7	0	0	0	7	32
Total Volume	3	14	0	0	17	1	0	0	0	1	0	16	72	0	88	11	0	1	0	12	118
% Approach Total	17.6	82.4	0.0	0.0		100.0	0.0	0.0	0.0		0.0	18.2	81.8	0.0		91.7	0.0	8.3	0.0		
PHF	0.375	0.700	0.000	0.000	0.850	0.250	0.000	0.000	0.000	0.250	0.000	0.667	0.857	0.000	0.917	0.393	0.000	0.250	0.000	0.429	0.922
Entering Leg	3	14	0	0	17	1	0	0	0	1	0	16	72	0	88	11	0	1	0	12	118
Exiting Leg						0					25					75					118
Total						1					113					87					236

PDI File #: **239242 A**
 Location: **N: Greenfield Road (Route 5) S: Greenfield Road (Route 5)**
 Location: **E: Fire Station Driveway W: Conway Road (Route 116)**
 City, State: **Deerfield, MA**
 Client: **VHB/M. Pause**
 Site Code: **42986.00**
 Count Date: **Thursday, March 16, 2023**
 Start Time: **7:00 AM**
 End Time: **9:00 AM**
 Class:



Articulated Trucks

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:00 AM	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	3
7:15 AM	0	2	0	0	2	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	5
7:30 AM	0	2	0	0	2	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	5
7:45 AM	1	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
Total	1	5	0	0	6	0	0	0	0	0	0	5	4	0	9	0	0	0	0	0	15
8:00 AM	0	1	0	0	1	0	0	0	0	0	0	2	3	0	5	1	0	0	0	1	7
8:15 AM	0	2	0	0	2	0	0	0	0	0	0	2	3	0	5	1	0	0	0	1	8
8:30 AM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	3
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	0	0	0	0	0	3
Total	0	4	0	0	4	0	0	0	0	0	0	6	8	0	14	3	0	0	0	3	21
Grand Total	1	9	0	0	10	0	0	0	0	0	0	11	12	0	23	3	0	0	0	3	36
Approach %	10.0	90.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	47.8	52.2	0.0		100.0	0.0	0.0	0.0		
Total %	2.8	25.0	0.0	0.0	27.8	0.0	0.0	0.0	0.0	0.0	0.0	30.6	33.3	0.0	63.9	8.3	0.0	0.0	0.0	8.3	
Exiting Leg Total	11					0					12					13					36

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
7:30 AM	0	2	0	0	2	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	5
7:45 AM	1	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
8:00 AM	0	1	0	0	1	0	0	0	0	0	0	2	3	0	5	1	0	0	0	1	7
8:15 AM	0	2	0	0	2	0	0	0	0	0	0	2	3	0	5	1	0	0	0	1	8
Total Volume	1	5	0	0	6	0	0	0	0	0	0	7	7	0	14	2	0	0	0	2	22
% Approach Total	16.7	83.3	0.0	0.0		0.0	0.0	0.0	0.0		0.0	50.0	50.0	0.0		100.0	0.0	0.0	0.0		
PHF	0.250	0.625	0.000	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.000	0.875	0.583	0.000	0.700	0.500	0.000	0.000	0.000	0.500	0.688
Entering Leg	1	5	0	0	6	0	0	0	0	0	0	7	7	0	14	2	0	0	0	2	22
Exiting Leg	7					0					7					8					22
Total	13					0					21					10					44

PDI File #: 239242 A

Location: N: Greenfield Road (Route 5) S: Greenfield Road (Route 5)

Location: E: Fire Station Driveway W: Conway Road (Route 116)

City, State: Deerfield, MA

Client: VHB/M. Pause

Site Code: 42986.00

Count Date: Thursday, March 16, 2023

Start Time: 7:00 AM

End Time: 9:00 AM

Class:



PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Bicycles (on Roadway and Crosswalks)

Table with columns for road names (Greenfield Road, Fire Station Driveway, Conway Road) and movement directions (from North, from East, from South, from West). Rows include time intervals (7:00 AM to 8:45 AM) and summary rows (Total, Grand Total, Approach %, Total %, Exiting Leg Total).

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

Table for Peak Hour Analysis starting at 7:00 AM. Columns and structure are identical to the main table above, showing volume and percentage data for the peak hour.

PDI File #: 239242 A

Location: N: Greenfield Road (Route 5) S: Greenfield Road (Route 5)

Location: E: Fire Station Driveway W: Conway Road (Route 116)

City, State: Deerfield, MA

Client: VHB/M. Pause

Site Code: 42986.00

Count Date: Thursday, March 16, 2023

Start Time: 7:00 AM

End Time: 9:00 AM

Class:



Pedestrians

	Greenfield Road (Route 5)							Fire Station Driveway							Greenfield Road (Route 5)							Conway Road (Route 116)							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Approach %	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total %	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Exiting Leg Total	0							0							0							0							0

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Greenfield Road (Route 5)							Fire Station Driveway							Greenfield Road (Route 5)							Conway Road (Route 116)							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Exiting Leg	0							0							0							0							0
Total	0							0							0							0							0

PDI File #: **239242 A**
 Location: **N: Greenfield Road (Route 5) S: Greenfield Road (Route 5)**
 Location: **E: Fire Station Driveway W: Conway Road (Route 116)**
 City, State: **Deerfield, MA**
 Client: **VHB/M. Pause**
 Site Code: **42986.00**
 Count Date: **Thursday, March 16, 2023**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



Cars and Heavy Vehicles (Combined)

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	7	69	1	0	77	3	3	2	0	8	0	57	124	0	181	67	0	7	0	74	340
4:15 PM	7	59	0	0	66	0	0	1	0	1	1	68	124	0	193	46	0	7	0	53	313
4:30 PM	11	62	0	0	73	0	0	1	0	1	1	72	140	0	213	67	0	6	0	73	360
4:45 PM	8	72	0	0	80	0	0	0	0	0	0	63	127	0	190	72	0	6	0	78	348
Total	33	262	1	0	296	3	3	4	0	10	2	260	515	0	777	252	0	26	0	278	1361
5:00 PM	9	83	0	0	92	0	0	0	0	0	0	65	118	0	183	64	0	4	0	68	343
5:15 PM	6	61	0	0	67	0	0	1	0	1	1	67	116	0	184	80	0	14	0	94	346
5:30 PM	4	60	0	0	64	0	0	0	0	0	0	55	114	0	169	62	0	8	0	70	303
5:45 PM	7	40	1	0	48	0	0	1	0	1	1	53	109	0	163	53	3	3	0	59	271
Total	26	244	1	0	271	0	0	2	0	2	2	240	457	0	699	259	3	29	0	291	1263
Grand Total	59	506	2	0	567	3	3	6	0	12	4	500	972	0	1476	511	3	55	0	569	2624
Approach %	10.4	89.2	0.4	0.0		25.0	25.0	50.0	0.0		0.3	33.9	65.9	0.0		89.8	0.5	9.7	0.0		
Total %	2.2	19.3	0.1	0.0	21.6	0.1	0.1	0.2	0.0	0.5	0.2	19.1	37.0	0.0	56.3	19.5	0.1	2.1	0.0	21.7	
Exiting Leg Total	558					9					1023					1034					2624
Cars	59	482	2	0	543	3	3	5	0	11	3	482	951	0	1436	493	0	52	0	545	2535
% Cars	100.0	95.3	100.0	0.0	95.8	100.0	100.0	83.3	0.0	91.7	75.0	96.4	97.8	0.0	97.3	96.5	0.0	94.5	0.0	95.8	96.6
Exiting Leg Total	537					5					980					1013					2535
Heavy Vehicles	0	24	0	0	24	0	0	1	0	1	1	18	21	0	40	18	3	3	0	24	89
% Heavy Vehicles	0.0	4.7	0.0	0.0	4.2	0.0	0.0	16.7	0.0	8.3	25.0	3.6	2.2	0.0	2.7	3.5	100.0	5.5	0.0	4.2	3.4
Exiting Leg Total	21					4					43					21					89

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:30 PM	11	62	0	0	73	0	0	1	0	1	1	72	140	0	213	67	0	6	0	73	360
4:45 PM	8	72	0	0	80	0	0	0	0	0	0	63	127	0	190	72	0	6	0	78	348
5:00 PM	9	83	0	0	92	0	0	0	0	0	0	65	118	0	183	64	0	4	0	68	343
5:15 PM	6	61	0	0	67	0	0	1	0	1	1	67	116	0	184	80	0	14	0	94	346
Total Volume	34	278	0	0	312	0	0	2	0	2	2	267	501	0	770	283	0	30	0	313	1397
% Approach Total	10.9	89.1	0.0	0.0		0.0	0.0	100.0	0.0		0.3	34.7	65.1	0.0		90.4	0.0	9.6	0.0		
PHF	0.773	0.837	0.000	0.000	0.848	0.000	0.000	0.500	0.000	0.500	0.500	0.927	0.895	0.000	0.904	0.884	0.000	0.536	0.000	0.832	0.970
Cars	34	269	0	0	303	0	0	1	0	1	2	255	491	0	748	275	0	30	0	305	1357
Cars %	100.0	96.8	0.0	0.0	97.1	0.0	0.0	50.0	0.0	50.0	100.0	95.5	98.0	0.0	97.1	97.2	0.0	100.0	0.0	97.4	97.1
Heavy Vehicles	0	9	0	0	9	0	0	1	0	1	0	12	10	0	22	8	0	0	0	8	40
Heavy Vehicles %	0.0	3.2	0.0	0.0	2.9	0.0	0.0	50.0	0.0	50.0	0.0	4.5	2.0	0.0	2.9	2.8	0.0	0.0	0.0	2.6	2.9
Cars Enter Leg	34	269	0	0	303	0	0	1	0	1	2	255	491	0	748	275	0	30	0	305	1357
Heavy Enter Leg	0	9	0	0	9	0	0	1	0	1	0	12	10	0	22	8	0	0	0	8	40
Total Entering Leg	34	278	0	0	312	0	0	2	0	2	2	267	501	0	770	283	0	30	0	313	1397
Cars Exiting Leg	285					2					545					525					1357
Heavy Exiting Leg	12					0					18					10					40
Total Exiting Leg	297					2					563					535					1397

PDI File #: **239242 A**
 Location: **N: Greenfield Road (Route 5) S: Greenfield Road (Route 5)**
 Location: **E: Fire Station Driveway W: Conway Road (Route 116)**
 City, State: **Deerfield, MA**
 Client: **VHB/M. Pause**
 Site Code: **42986.00**
 Count Date: **Thursday, March 16, 2023**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



Cars

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	7	64	1	0	72	3	3	2	0	8	0	56	121	0	177	65	0	6	0	71	328
4:15 PM	7	52	0	0	59	0	0	1	0	1	1	64	121	0	186	46	0	7	0	53	299
4:30 PM	11	58	0	0	69	0	0	1	0	1	1	70	134	0	205	65	0	6	0	71	346
4:45 PM	8	70	0	0	78	0	0	0	0	0	0	60	126	0	186	70	0	6	0	76	340
Total	33	244	1	0	278	3	3	4	0	10	2	250	502	0	754	246	0	25	0	271	1313
5:00 PM	9	81	0	0	90	0	0	0	0	0	0	61	115	0	176	63	0	4	0	67	333
5:15 PM	6	60	0	0	66	0	0	0	0	0	1	64	116	0	181	77	0	14	0	91	338
5:30 PM	4	59	0	0	63	0	0	0	0	0	0	54	112	0	166	56	0	6	0	62	291
5:45 PM	7	38	1	0	46	0	0	1	0	1	0	53	106	0	159	51	0	3	0	54	260
Total	26	238	1	0	265	0	0	1	0	1	1	232	449	0	682	247	0	27	0	274	1222
Grand Total	59	482	2	0	543	3	3	5	0	11	3	482	951	0	1436	493	0	52	0	545	2535
Approach %	10.9	88.8	0.4	0.0		27.3	27.3	45.5	0.0		0.2	33.6	66.2	0.0		90.5	0.0	9.5	0.0		
Total %	2.3	19.0	0.1	0.0	21.4	0.1	0.1	0.2	0.0	0.4	0.1	19.0	37.5	0.0	56.6	19.4	0.0	2.1	0.0	21.5	
Exiting Leg Total	537					5					980					1013					2535

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:30 PM	11	58	0	0	69	0	0	1	0	1	1	70	134	0	205	65	0	6	0	71	346
4:45 PM	8	70	0	0	78	0	0	0	0	0	0	60	126	0	186	70	0	6	0	76	340
5:00 PM	9	81	0	0	90	0	0	0	0	0	0	61	115	0	176	63	0	4	0	67	333
5:15 PM	6	60	0	0	66	0	0	0	0	0	1	64	116	0	181	77	0	14	0	91	338
Total Volume	34	269	0	0	303	0	0	1	0	1	2	255	491	0	748	275	0	30	0	305	1357
% Approach Total	11.2	88.8	0.0	0.0		0.0	0.0	100.0	0.0		0.3	34.1	65.6	0.0		90.2	0.0	9.8	0.0		
PHF	0.773	0.830	0.000	0.000	0.842	0.000	0.000	0.250	0.000	0.250	0.500	0.911	0.916	0.000	0.912	0.893	0.000	0.536	0.000	0.838	0.980
Entering Leg	34	269	0	0	303	0	0	1	0	1	2	255	491	0	748	275	0	30	0	305	1357
Exiting Leg	285					2					545					525					1357
Total	588					3					1293					830					2714

PDI File #: **239242 A**
 Location: **N: Greenfield Road (Route 5) S: Greenfield Road (Route 5)**
 Location: **E: Fire Station Driveway W: Conway Road (Route 116)**
 City, State: **Deerfield, MA**
 Client: **VHB/M. Pause**
 Site Code: **42986.00**
 Count Date: **Thursday, March 16, 2023**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class: **Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)**



	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	5	0	0	5	0	0	0	0	0	0	1	3	0	4	2	0	1	0	3	12
4:15 PM	0	7	0	0	7	0	0	0	0	0	0	4	3	0	7	0	0	0	0	0	14
4:30 PM	0	4	0	0	4	0	0	0	0	0	0	2	6	0	8	2	0	0	0	2	14
4:45 PM	0	2	0	0	2	0	0	0	0	0	0	3	1	0	4	2	0	0	0	2	8
Total	0	18	0	0	18	0	0	0	0	0	0	10	13	0	23	6	0	1	0	7	48
5:00 PM	0	2	0	0	2	0	0	0	0	0	0	4	3	0	7	1	0	0	0	1	10
5:15 PM	0	1	0	0	1	0	0	1	0	1	0	3	0	0	3	3	0	0	0	3	8
5:30 PM	0	1	0	0	1	0	0	0	0	0	0	1	2	0	3	6	0	2	0	8	12
5:45 PM	0	2	0	0	2	0	0	0	0	0	1	0	3	0	4	2	3	0	0	5	11
Total	0	6	0	0	6	0	0	1	0	1	1	8	8	0	17	12	3	2	0	17	41
Grand Total	0	24	0	0	24	0	0	1	0	1	1	18	21	0	40	18	3	3	0	24	89
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	100.0	0.0		2.5	45.0	52.5	0.0		75.0	12.5	12.5	0.0		
Total %	0.0	27.0	0.0	0.0	27.0	0.0	0.0	1.1	0.0	1.1	1.1	20.2	23.6	0.0	44.9	20.2	3.4	3.4	0.0	27.0	
Exiting Leg Total	21					4					43					21					89
Buses	0	2	0	0	2	0	0	0	0	0	0	1	3	0	4	1	0	0	0	1	7
% Buses	0.0	8.3	0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	5.6	14.3	0.0	10.0	5.6	0.0	0.0	0.0	4.2	7.9
Exiting Leg Total	1					0					3					3					7
Single-Unit Trucks	0	13	0	0	13	0	0	1	0	1	1	11	12	0	24	15	3	1	0	19	57
% Single-Unit	0.0	54.2	0.0	0.0	54.2	0.0	0.0	100.0	0.0	100.0	100.0	61.1	57.1	0.0	60.0	83.3	100.0	33.3	0.0	79.2	64.0
Exiting Leg Total	12					4					29					12					57
Articulated Trucks	0	9	0	0	9	0	0	0	0	0	0	6	6	0	12	2	0	2	0	4	25
% Articulated	0.0	37.5	0.0	0.0	37.5	0.0	0.0	0.0	0.0	0.0	0.0	33.3	28.6	0.0	30.0	11.1	0.0	66.7	0.0	16.7	28.1
Exiting Leg Total	8					0					11					6					25

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	5	0	0	5	0	0	0	0	0	0	1	3	0	4	2	0	1	0	3	12
4:15 PM	0	7	0	0	7	0	0	0	0	0	0	4	3	0	7	0	0	0	0	0	14
4:30 PM	0	4	0	0	4	0	0	0	0	0	0	2	6	0	8	2	0	0	0	2	14
4:45 PM	0	2	0	0	2	0	0	0	0	0	0	3	1	0	4	2	0	0	0	2	8
Total Volume	0	18	0	0	18	0	0	0	0	0	0	10	13	0	23	6	0	1	0	7	48
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	43.5	56.5	0.0		85.7	0.0	14.3	0.0		
PHF	0.000	0.643	0.000	0.000	0.643	0.000	0.000	0.000	0.000	0.000	0.000	0.625	0.542	0.000	0.719	0.750	0.000	0.250	0.000	0.583	0.857
Buses	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4	1	0	0	0	1	5
Buses %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	23.1	0.0	17.4	16.7	0.0	0.0	0.0	14.3	10.4
Single-Unit Trucks	0	11	0	0	11	0	0	0	0	0	0	6	7	0	13	4	0	1	0	5	29
Single-Unit %	0.0	61.1	0.0	0.0	61.1	0.0	0.0	0.0	0.0	0.0	0.0	60.0	53.8	0.0	56.5	66.7	0.0	100.0	0.0	71.4	60.4
Articulated Trucks	0	7	0	0	7	0	0	0	0	0	0	3	3	0	6	1	0	0	0	1	14
Articulated %	0.0	38.9	0.0	0.0	38.9	0.0	0.0	0.0	0.0	0.0	0.0	30.0	23.1	0.0	26.1	16.7	0.0	0.0	0.0	14.3	29.2
Buses	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4	1	0	0	0	1	5
Single-Unit Trucks	0	11	0	0	11	0	0	0	0	0	0	6	7	0	13	4	0	1	0	5	29
Articulated Trucks	0	7	0	0	7	0	0	0	0	0	0	3	3	0	6	1	0	0	0	1	14
Total Entering Leg	0	18	0	0	18	0	0	0	0	0	0	10	13	0	23	6	0	1	0	7	48
Buses	1					0					1					3					5
Single-Unit Trucks	7					0					15					7					29
Articulated Trucks	3					0					8					3					14
Total Exiting Leg	11					0					24					13					48

PDI File #: **239242 A**
 Location: **N: Greenfield Road (Route 5) S: Greenfield Road (Route 5)**
 Location: **E: Fire Station Driveway W: Conway Road (Route 116)**
 City, State: **Deerfield, MA**
 Client: **VHB/M. Pause**
 Site Code: **42986.00**
 Count Date: **Thursday, March 16, 2023**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



Buses

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	2
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4	1	0	0	0	1	5
5:00 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Grand Total	0	2	0	0	2	0	0	0	0	0	0	1	3	0	4	1	0	0	0	1	7
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	25.0	75.0	0.0		100.0	0.0	0.0	0.0		
Total %	0.0	28.6	0.0	0.0	28.6	0.0	0.0	0.0	0.0	0.0	0.0	14.3	42.9	0.0	57.1	14.3	0.0	0.0	0.0	14.3	
Exiting Leg Total	1					0					3					3					7

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	2
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4	1	0	0	0	1	5
% Approach Total	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	25.0	75.0	0.0		100.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.750	0.000	0.500	0.250	0.000	0.000	0.000	0.250	0.625
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4	1	0	0	0	1	5
Exiting Leg	1					0					1					3					5
Total	1					0					5					4					10

PDI File #: **239242 A**
 Location: **N: Greenfield Road (Route 5) S: Greenfield Road (Route 5)**
 Location: **E: Fire Station Driveway W: Conway Road (Route 116)**
 City, State: **Deerfield, MA**
 Client: **VHB/M. Pause**
 Site Code: **42986.00**
 Count Date: **Thursday, March 16, 2023**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



Single-Unit Trucks

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:00 PM	0	3	0	0	3	0	0	0	0	0	0	1	1	0	2	1	0	1	0	2	7
4:15 PM	0	4	0	0	4	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	5
4:30 PM	0	2	0	0	2	0	0	0	0	0	0	2	5	0	7	1	0	0	0	1	10
4:45 PM	0	2	0	0	2	0	0	0	0	0	0	2	1	0	3	2	0	0	0	2	7
Total	0	11	0	0	11	0	0	0	0	0	0	6	7	0	13	4	0	1	0	5	29
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	3	3	0	6	1	0	0	0	1	7
5:15 PM	0	1	0	0	1	0	0	1	0	1	0	1	0	0	1	3	0	0	0	3	6
5:30 PM	0	1	0	0	1	0	0	0	0	0	0	1	1	0	2	5	0	0	0	5	8
5:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	2	3	0	0	5	7
Total	0	2	0	0	2	0	0	1	0	1	1	5	5	0	11	11	3	0	0	14	28
Grand Total	0	13	0	0	13	0	0	1	0	1	1	11	12	0	24	15	3	1	0	19	57
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	100.0	0.0		4.2	45.8	50.0	0.0		78.9	15.8	5.3	0.0		
Total %	0.0	22.8	0.0	0.0	22.8	0.0	0.0	1.8	0.0	1.8	1.8	19.3	21.1	0.0	42.1	26.3	5.3	1.8	0.0	33.3	
Exiting Leg Total						4					29					12					57

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:30 PM	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
4:30 PM	0	2	0	0	2	0	0	0	0	0	0	2	5	0	7	1	0	0	0	1	10
4:45 PM	0	2	0	0	2	0	0	0	0	0	0	2	1	0	3	2	0	0	0	2	7
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	3	3	0	6	1	0	0	0	1	7
5:15 PM	0	1	0	0	1	0	0	1	0	1	0	1	0	0	1	3	0	0	0	3	6
Total Volume	0	5	0	0	5	0	0	1	0	1	0	8	9	0	17	7	0	0	0	7	30
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	100.0	0.0		0.0	47.1	52.9	0.0		100.0	0.0	0.0	0.0		
PHF	0.000	0.625	0.000	0.000	0.625	0.000	0.000	0.250	0.000	0.250	0.000	0.667	0.450	0.000	0.607	0.583	0.000	0.000	0.000	0.583	0.750
Entering Leg	0	5	0	0	5	0	0	1	0	1	0	8	9	0	17	7	0	0	0	7	30
Exiting Leg						0					13					9					30
Total	13					1					30					16					60

PDI File #: **239242 A**
 Location: **N: Greenfield Road (Route 5) S: Greenfield Road (Route 5)**
 Location: **E: Fire Station Driveway W: Conway Road (Route 116)**
 City, State: **Deerfield, MA**
 Client: **VHB/M. Pause**
 Site Code: **42986.00**
 Count Date: **Thursday, March 16, 2023**
 Start Time: **4:00 PM**
 End Time: **6:00 PM**
 Class:



Articulated Trucks

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total	
	from North					from East					from South					from West						
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total		
4:00 PM	0	2	0	0	2	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	3	
4:15 PM	0	3	0	0	3	0	0	0	0	0	0	2	2	0	4	0	0	0	0	0	7	
4:30 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	3	
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	
Total	0	7	0	0	7	0	0	0	0	0	0	3	3	0	6	1	0	0	0	1	14	
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	2	
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	2	0	3	4	
5:45 PM	0	2	0	0	2	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	4	
Total	0	2	0	0	2	0	0	0	0	0	0	3	3	0	6	1	0	2	0	3	11	
Grand Total	0	9	0	0	9	0	0	0	0	0	0	6	6	0	12	2	0	2	0	4	25	
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	50.0	50.0	0.0		50.0	0.0	50.0	0.0			
Total %	0.0	36.0	0.0	0.0	36.0	0.0	0.0	0.0	0.0	0.0	0.0	24.0	24.0	0.0	48.0	8.0	0.0	8.0	0.0	16.0		
Exiting Leg Total						8					0					11					6	25

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total	
	from North					from East					from South					from West						
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total		
4:00 PM	0	2	0	0	2	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	3	
4:15 PM	0	3	0	0	3	0	0	0	0	0	0	2	2	0	4	0	0	0	0	0	7	
4:30 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	3	
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	
Total Volume	0	7	0	0	7	0	0	0	0	0	0	3	3	0	6	1	0	0	0	1	14	
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	50.0	50.0	0.0		100.0	0.0	0.0	0.0			
PHF	0.000	0.583	0.000	0.000	0.583	0.000	0.000	0.000	0.000	0.000	0.000	0.375	0.375	0.000	0.375	0.250	0.000	0.000	0.000	0.250	0.500	
Entering Leg	0	7	0	0	7	0	0	0	0	0	0	3	3	0	6	1	0	0	0	1	14	
Exiting Leg						3					0					8					3	14
Total						10					0					14					4	28

PDI File #: 239242 A

Location: N: Greenfield Road (Route 5) S: Greenfield Road (Route 5)

Location: E: Fire Station Driveway W: Conway Road (Route 116)

City, State: Deerfield, MA

Client: VHB/M. Pause

Site Code: 42986.00

Count Date: Thursday, March 16, 2023

Start Time: 4:00 PM

End Time: 6:00 PM

Class:



Pedestrians

	Greenfield Road (Route 5)							Fire Station Driveway							Greenfield Road (Route 5)							Conway Road (Route 116)							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Approach %	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total %	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Exiting Leg Total	0							0							0							0							0

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Greenfield Road (Route 5)							Fire Station Driveway							Greenfield Road (Route 5)							Conway Road (Route 116)							Total
	from North							from East							from South							from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Exiting Leg	0							0							0							0							0
Total	0							0							0							0							0

PDI File #: **239242 A**
 Location: **N: Greenfield Road (Route 5) S: Greenfield Road (Route 5)**
 Location: **E: Fire Station Driveway W: Conway Road (Route 116)**
 City, State: **Deerfield, MA**
 Client: **VHB/M. Pause**
 Site Code: **42986.00**
 Count Date: **Saturday, March 18, 2023**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



Cars and Heavy Vehicles (Combined)

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	5	54	0	0	59	0	1	0	0	1	2	52	73	0	127	64	0	5	0	69	256
11:15 AM	6	66	1	0	73	0	1	1	0	2	0	54	68	0	122	55	0	9	0	64	261
11:30 AM	4	58	0	0	62	0	0	0	0	0	0	51	79	0	130	56	0	7	0	63	255
11:45 AM	8	44	0	0	52	0	0	0	0	0	0	72	59	0	131	74	1	14	0	89	272
Total	23	222	1	0	246	0	2	1	0	3	2	229	279	0	510	249	1	35	0	285	1044
12:00 PM	12	58	0	0	70	1	0	0	0	1	0	73	96	0	169	64	0	8	0	72	312
12:15 PM	6	71	1	0	78	0	1	1	0	2	1	62	71	0	134	53	0	10	0	63	277
12:30 PM	7	57	0	0	64	1	0	0	0	1	1	61	63	0	125	63	0	8	0	71	261
12:45 PM	3	59	0	0	62	0	0	0	0	0	0	69	74	0	143	54	0	10	0	64	269
Total	28	245	1	0	274	2	1	1	0	4	2	265	304	0	571	234	0	36	0	270	1119
1:00 PM	11	57	0	0	68	0	0	0	0	0	0	67	63	0	130	52	0	14	0	66	264
1:15 PM	4	56	0	0	60	0	0	0	0	0	0	63	75	0	138	45	0	12	0	57	255
1:30 PM	11	57	1	0	69	0	0	1	0	1	0	83	76	0	159	62	0	7	0	69	298
1:45 PM	9	68	0	0	77	0	1	1	0	2	2	70	77	0	149	50	0	11	0	61	289
Total	35	238	1	0	274	0	1	2	0	3	2	283	291	0	576	209	0	44	0	253	1106
Grand Total	86	705	3	0	794	2	4	4	0	10	6	777	874	0	1657	692	1	115	0	808	3269
Approach %	10.8	88.8	0.4	0.0		20.0	40.0	40.0	0.0		0.4	46.9	52.7	0.0		85.6	0.1	14.2	0.0		
Total %	2.6	21.6	0.1	0.0	24.3	0.1	0.1	0.1	0.0	0.3	0.2	23.8	26.7	0.0	50.7	21.2	0.0	3.5	0.0	24.7	
Exiting Leg Total	894					10					1401					964					3269
Cars	86	695	3	0	784	2	4	4	0	10	6	768	863	0	1637	687	1	113	0	801	3232
% Cars	100.0	98.6	100.0	0.0	98.7	100.0	100.0	100.0	0.0	100.0	100.0	98.8	98.7	0.0	98.8	99.3	100.0	98.3	0.0	99.1	98.9
Exiting Leg Total	883					10					1386					953					3232
Heavy Vehicles	0	10	0	0	10	0	0	0	0	0	0	9	11	0	20	5	0	2	0	7	37
% Heavy Vehicles	0.0	1.4	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.3	0.0	1.2	0.7	0.0	1.7	0.0	0.9	1.1
Exiting Leg Total	11					0					15					11					37

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:45 AM	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:45 AM	8	44	0	0	52	0	0	0	0	0	0	72	59	0	131	74	1	14	0	89	272
12:00 PM	12	58	0	0	70	1	0	0	0	1	0	73	96	0	169	64	0	8	0	72	312
12:15 PM	6	71	1	0	78	0	1	1	0	2	1	62	71	0	134	53	0	10	0	63	277
12:30 PM	7	57	0	0	64	1	0	0	0	1	1	61	63	0	125	63	0	8	0	71	261
Total Volume	33	230	1	0	264	2	1	1	0	4	2	268	289	0	559	254	1	40	0	295	1122
% Approach Total	12.5	87.1	0.4	0.0		50.0	25.0	25.0	0.0		0.4	47.9	51.7	0.0		86.1	0.3	13.6	0.0		
PHF	0.688	0.810	0.250	0.000	0.846	0.500	0.250	0.250	0.000	0.500	0.500	0.918	0.753	0.000	0.827	0.858	0.250	0.714	0.000	0.829	0.899
Cars	33	226	1	0	260	2	1	1	0	4	2	264	283	0	549	253	1	40	0	294	1107
Cars %	100.0	98.3	100.0	0.0	98.5	100.0	100.0	100.0	0.0	100.0	100.0	98.5	97.9	0.0	98.2	99.6	100.0	100.0	0.0	99.7	98.7
Heavy Vehicles	0	4	0	0	4	0	0	0	0	0	0	4	6	0	10	1	0	0	0	1	15
Heavy Vehicles %	0.0	1.7	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.1	0.0	1.8	0.4	0.0	0.0	0.0	0.3	1.3
Cars Enter Leg	33	226	1	0	260	2	1	1	0	4	2	264	283	0	549	253	1	40	0	294	1107
Heavy Enter Leg	0	4	0	0	4	0	0	0	0	0	0	4	6	0	10	1	0	0	0	1	15
Total Entering Leg	33	230	1	0	264	2	1	1	0	4	2	268	289	0	559	254	1	40	0	295	1122
Cars Exiting Leg	306					4					480					317					1107
Heavy Exiting Leg	4					0					5					6					15
Total Exiting Leg	310					4					485					323					1122

PDI File #: **239242 A**
 Location: **N: Greenfield Road (Route 5) S: Greenfield Road (Route 5)**
 Location: **E: Fire Station Driveway W: Conway Road (Route 116)**
 City, State: **Deerfield, MA**
 Client: **VHB/M. Pause**
 Site Code: **42986.00**
 Count Date: **Saturday, March 18, 2023**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



Cars

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	5	53	0	0	58	0	1	0	0	1	2	52	73	0	127	62	0	5	0	67	253
11:15 AM	6	66	1	0	73	0	1	1	0	2	0	51	68	0	119	55	0	9	0	64	258
11:30 AM	4	56	0	0	60	0	0	0	0	0	0	51	79	0	130	56	0	6	0	62	252
11:45 AM	8	44	0	0	52	0	0	0	0	0	0	70	57	0	127	74	1	14	0	89	268
Total	23	219	1	0	243	0	2	1	0	3	2	224	277	0	503	247	1	34	0	282	1031
12:00 PM	12	58	0	0	70	1	0	0	0	1	0	72	94	0	166	63	0	8	0	71	308
12:15 PM	6	69	1	0	76	0	1	1	0	2	1	61	69	0	131	53	0	10	0	63	272
12:30 PM	7	55	0	0	62	1	0	0	0	1	1	61	63	0	125	63	0	8	0	71	259
12:45 PM	3	59	0	0	62	0	0	0	0	0	0	69	73	0	142	53	0	10	0	63	267
Total	28	241	1	0	270	2	1	1	0	4	2	263	299	0	564	232	0	36	0	268	1106
1:00 PM	11	55	0	0	66	0	0	0	0	0	0	67	62	0	129	51	0	14	0	65	260
1:15 PM	4	56	0	0	60	0	0	0	0	0	0	62	74	0	136	45	0	12	0	57	253
1:30 PM	11	57	1	0	69	0	0	1	0	1	0	83	74	0	157	62	0	6	0	68	295
1:45 PM	9	67	0	0	76	0	1	1	0	2	2	69	77	0	148	50	0	11	0	61	287
Total	35	235	1	0	271	0	1	2	0	3	2	281	287	0	570	208	0	43	0	251	1095
Grand Total	86	695	3	0	784	2	4	4	0	10	6	768	863	0	1637	687	1	113	0	801	3232
Approach %	11.0	88.6	0.4	0.0		20.0	40.0	40.0	0.0		0.4	46.9	52.7	0.0		85.8	0.1	14.1	0.0		
Total %	2.7	21.5	0.1	0.0	24.3	0.1	0.1	0.1	0.0	0.3	0.2	23.8	26.7	0.0	50.6	21.3	0.0	3.5	0.0	24.8	
Exiting Leg Total	883					10					1386					953					3232

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:45 AM	8	44	0	0	52	0	0	0	0	0	0	70	57	0	127	74	1	14	0	89	268
12:00 PM	12	58	0	0	70	1	0	0	0	1	0	72	94	0	166	63	0	8	0	71	308
12:15 PM	6	69	1	0	76	0	1	1	0	2	1	61	69	0	131	53	0	10	0	63	272
12:30 PM	7	55	0	0	62	1	0	0	0	1	1	61	63	0	125	63	0	8	0	71	259
Total Volume	33	226	1	0	260	2	1	1	0	4	2	264	283	0	549	253	1	40	0	294	1107
% Approach Total	12.7	86.9	0.4	0.0		50.0	25.0	25.0	0.0		0.4	48.1	51.5	0.0		86.1	0.3	13.6	0.0		
PHF	0.688	0.819	0.250	0.000	0.855	0.500	0.250	0.250	0.000	0.500	0.500	0.917	0.753	0.000	0.827	0.855	0.250	0.714	0.000	0.826	0.899
Entering Leg	33	226	1	0	260	2	1	1	0	4	2	264	283	0	549	253	1	40	0	294	1107
Exiting Leg	306					4					480					317					1107
Total	566					8					1029					611					2214

PDI File #: **239242 A**
 Location: **N: Greenfield Road (Route 5) S: Greenfield Road (Route 5)**
 Location: **E: Fire Station Driveway W: Conway Road (Route 116)**
 City, State: **Deerfield, MA**
 Client: **VHB/M. Pause**
 Site Code: **42986.00**
 Count Date: **Saturday, March 18, 2023**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class: **Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)**



	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:00 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	3
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	3
11:30 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4	0	0	0	0	0	4
Total	0	3	0	0	3	0	0	0	0	0	0	5	2	0	7	2	0	1	0	3	13
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	1	0	0	0	1	4
12:15 PM	0	2	0	0	2	0	0	0	0	0	0	1	2	0	3	0	0	0	0	0	5
12:30 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	2
Total	0	4	0	0	4	0	0	0	0	0	0	2	5	0	7	2	0	0	0	2	13
1:00 PM	0	2	0	0	2	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	4
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	2
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	1	0	1	3
1:45 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
Total	0	3	0	0	3	0	0	0	0	0	0	2	4	0	6	1	0	1	0	2	11
Grand Total	0	10	0	0	10	0	0	0	0	0	0	9	11	0	20	5	0	2	0	7	37
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	45.0	55.0	0.0		71.4	0.0	28.6	0.0		
Total %	0.0	27.0	0.0	0.0	27.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	29.7	0.0	54.1	13.5	0.0	5.4	0.0	18.9	
Exiting Leg Total	11					0					15					11					37
Buses	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	3
% Buses	0.0	10.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	0.0	0.0	5.0	20.0	0.0	0.0	0.0	14.3	8.1
Exiting Leg Total	1					0					2					0					3
Single-Unit Trucks	0	9	0	0	9	0	0	0	0	0	0	7	6	0	13	3	0	1	0	4	26
% Single-Unit	0.0	90.0	0.0	0.0	90.0	0.0	0.0	0.0	0.0	0.0	0.0	77.8	54.5	0.0	65.0	60.0	0.0	50.0	0.0	57.1	70.3
Exiting Leg Total	8					0					12					6					26
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	1	5	0	6	1	0	1	0	2	8
% Articulated	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	45.5	0.0	30.0	20.0	0.0	50.0	0.0	28.6	21.6
Exiting Leg Total	2					0					1					5					8

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total
	from North					from East					from South					from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	
11:30 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4	0	0	0	0	0	4
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	1	0	0	0	1	4
12:15 PM	0	2	0	0	2	0	0	0	0	0	0	1	2	0	3	0	0	0	0	0	5
Total Volume	0	4	0	0	4	0	0	0	0	0	0	4	6	0	10	1	0	1	0	2	16
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	40.0	60.0	0.0		50.0	0.0	50.0	0.0		
PHF	0.000	0.500	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.750	0.000	0.625	0.250	0.000	0.250	0.000	0.500	0.800
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Buses %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Single-Unit Trucks	0	4	0	0	4	0	0	0	0	0	0	4	3	0	7	1	0	0	0	1	12
Single-Unit %	0.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	50.0	0.0	70.0	100.0	0.0	0.0	0.0	50.0	75.0
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	0	0	1	0	1	4
Articulated %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	30.0	0.0	0.0	100.0	0.0	50.0	25.0
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Single-Unit Trucks	0	4	0	0	4	0	0	0	0	0	0	4	3	0	7	1	0	0	0	1	12
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	0	0	1	0	1	4
Total Entering Leg	0	4	0	0	4	0	0	0	0	0	0	4	6	0	10	1	0	1	0	2	16
Buses	0					0					0					0					0
Single-Unit Trucks	4					0					5					3					12
Articulated Trucks	1					0					0					3					4
Total Exiting Leg	5					0					5					6					16

PDI File #: **239242 A**
 Location: **N: Greenfield Road (Route 5) S: Greenfield Road (Route 5)**
 Location: **E: Fire Station Driveway W: Conway Road (Route 116)**
 City, State: **Deerfield, MA**
 Client: **VHB/M. Pause**
 Site Code: **42986.00**
 Count Date: **Saturday, March 18, 2023**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



Buses

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
11:00 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2				
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1				
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Total	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	1	3				
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Grand Total	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	1	3				
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		100.0	0.0	0.0	0.0							
Total %	0.0	33.3	0.0	0.0	33.3	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	33.3	33.3	0.0	0.0	0.0	0.0	33.3					
Exiting Leg Total						1					0					2					0					3

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

11:00 AM	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
11:00 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2				
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1				
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Total Volume	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	1	3				
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		100.0	0.0	0.0	0.0							
PHF	0.000	0.250	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.250	0.375					
Entering Leg	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	1	3				
Exiting Leg						1					0					2					0					3
Total						2					0					3					1					6

PDI File #: **239242 A**
 Location: **N: Greenfield Road (Route 5) S: Greenfield Road (Route 5)**
 Location: **E: Fire Station Driveway W: Conway Road (Route 116)**
 City, State: **Deerfield, MA**
 Client: **VHB/M. Pause**
 Site Code: **42986.00**
 Count Date: **Saturday, March 18, 2023**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



Single-Unit Trucks

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total	
	from North					from East					from South					from West						
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total		
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	2	
11:30 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	3	
Total	0	2	0	0	2	0	0	0	0	0	0	4	1	0	5	1	0	0	0	1	8	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	1	0	0	0	1	3	
12:15 PM	0	2	0	0	2	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	4	
12:30 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	2	
Total	0	4	0	0	4	0	0	0	0	0	0	2	3	0	5	2	0	0	0	2	11	
1:00 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	1	0	1	3	
1:45 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2	
Total	0	3	0	0	3	0	0	0	0	0	0	1	2	0	3	0	0	1	0	1	7	
Grand Total	0	9	0	0	9	0	0	0	0	0	0	7	6	0	13	3	0	1	0	4	26	
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	53.8	46.2	0.0		75.0	0.0	25.0	0.0			
Total %	0.0	34.6	0.0	0.0	34.6	0.0	0.0	0.0	0.0	0.0	0.0	26.9	23.1	0.0	50.0	11.5	0.0	3.8	0.0	15.4		
Exiting Leg Total						8					0					12					6	26

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total	
	from North					from East					from South					from West						
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total		
11:30 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	3	
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	1	0	0	0	1	3	
12:15 PM	0	2	0	0	2	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	4	
Total Volume	0	4	0	0	4	0	0	0	0	0	0	4	3	0	7	1	0	0	0	1	12	
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	57.1	42.9	0.0		100.0	0.0	0.0	0.0			
PHF	0.000	0.500	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.750	0.000	0.583	0.250	0.000	0.000	0.000	0.250	0.750	
Entering Leg	0	4	0	0	4	0	0	0	0	0	0	4	3	0	7	1	0	0	0	1	12	
Exiting Leg						4					0					5					3	12
Total						8					0					12					4	24

PDI File #: **239242 A**
 Location: **N: Greenfield Road (Route 5) S: Greenfield Road (Route 5)**
 Location: **E: Fire Station Driveway W: Conway Road (Route 116)**
 City, State: **Deerfield, MA**
 Client: **VHB/M. Pause**
 Site Code: **42986.00**
 Count Date: **Saturday, March 18, 2023**
 Start Time: **11:00 AM**
 End Time: **2:00 PM**
 Class:



Articulated Trucks

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	2
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	2
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	0	0	0	0	0	2
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	2
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	1	0	0	0	1	0	0	0	0	0	4
Grand Total	0	0	0	0	0	0	0	0	0	0	0	1	5	0	6	1	0	1	0	2	0	0	0	0	0	8
Approach %	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	16.7	83.3	0.0		50.0	0.0	50.0	0.0							
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	62.5	0.0	75.0	12.5	0.0	12.5	0.0	25.0						
Exiting Leg Total	2					0					1					5					8					

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

	Greenfield Road (Route 5)					Fire Station Driveway					Greenfield Road (Route 5)					Conway Road (Route 116)					Total					
	from North					from East					from South					from West										
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total						
11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	0	0	1	0	1	0	0	0	0	0	4
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0		0.0	0.0	100.0	0.0							
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.750	0.000	0.750	0.000	0.000	0.250	0.000	0.250						1.000
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	0	0	1	0	1	0	0	0	0	0	4
Exiting Leg	1					0					3					4					4					
Total	1					0					3					4					8					

PDI File #: 239242 A

Location: N: Greenfield Road (Route 5) S: Greenfield Road (Route 5)

Location: E: Fire Station Driveway W: Conway Road (Route 116)

City, State: Deerfield, MA

Client: VHB/M. Pause

Site Code: 42986.00

Count Date: Saturday, March 18, 2023

Start Time: 11:00 AM

End Time: 2:00 PM

Class:



PRECISION DATA INDUSTRIES, LLC

157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Bicycles (on Roadway and Crosswalks)

Table with columns for road names (Greenfield Road, Fire Station Driveway, Conway Road) and directions (from North, from East, from South, from West). Rows show counts for various times from 11:00 AM to 1:45 PM, plus Grand Total, Approach %, Total %, and Exiting Leg Total.

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

Table for Peak Hour Analysis from 12:30 PM. Columns include road names and directions. Rows show counts for 12:30 PM, 12:45 PM, 1:00 PM, 1:15 PM, Total Volume, % Approach Total, PHF, Entering Leg, Exiting Leg, and Total.

PDI File #: 239242 A

Location: N: Greenfield Road (Route 5) S: Greenfield Road (Route 5)

Location: E: Fire Station Driveway W: Conway Road (Route 116)

City, State: Deerfield, MA

Client: VHB/M. Pause

Site Code: 42986.00

Count Date: Saturday, March 18, 2023

Start Time: 11:00 AM

End Time: 2:00 PM

Class:



PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Pedestrians

Table with columns for road names (Greenfield Road, Fire Station Driveway, Conway Road) and movement directions (from North, from East, from South, from West). Rows include time intervals from 11:00 AM to 1:45 PM, Grand Total, Approach %, Total %, and Exiting Leg Total.

Peak Hour Analysis from 11:00 AM to 02:00 PM begins at:

Table for Peak Hour Analysis from 11:00 AM to 02:00 PM. Columns and structure are identical to the main Pedestrians table, showing counts for various movements and percentages.

Greenfield Road (Route 5)
north of Conway Road (Route 116)
City, State: Deerfield, MA
Client: VHB/M. Pause
Site Code: 42986.00



PDI File #: 239242 ATR A

Count Date: Thursday, March 16, 2023
Direction: NB

AM	Bicycles	Motorcycle	Cars & Light Goods	Buses	Single Unit Heavy	Multi Unit Heavy	Total
12:00 AM	0	0	3	0	0	0	3
12:15 AM	0	0	3	0	0	0	3
12:30 AM	0	0	4	0	1	0	5
12:45 AM	0	0	3	0	0	0	3
1:00 AM	0	0	2	0	0	0	2
1:15 AM	0	0	1	0	0	1	2
1:30 AM	0	0	2	0	0	0	2
1:45 AM	0	0	2	0	0	3	5
2:00 AM	0	0	0	0	0	0	0
2:15 AM	0	0	2	0	0	0	2
2:30 AM	0	0	4	0	0	0	4
2:45 AM	0	0	0	0	0	0	0
3:00 AM	0	0	0	0	0	0	0
3:15 AM	0	0	0	0	0	0	0
3:30 AM	0	0	3	0	0	0	3
3:45 AM	0	0	1	0	2	0	3
4:00 AM	0	0	3	0	0	0	3
4:15 AM	0	0	1	0	0	0	1
4:30 AM	0	0	0	0	0	0	0
4:45 AM	0	0	4	0	1	1	6
5:00 AM	0	0	4	0	0	0	4
5:15 AM	0	0	15	0	0	0	15
5:30 AM	0	0	27	0	0	1	28
5:45 AM	0	0	39	0	0	0	39
6:00 AM	0	0	16	0	2	0	18
6:15 AM	0	0	26	1	2	1	30
6:30 AM	0	0	25	1	0	3	29
6:45 AM	0	0	53	0	2	3	58
7:00 AM	0	0	45	1	2	2	50
7:15 AM	0	0	47	0	3	0	50
7:30 AM	0	0	67	2	5	2	76
7:45 AM	0	0	63	0	1	1	65
8:00 AM	0	0	53	0	3	2	58
8:15 AM	0	0	50	1	7	1	59
8:30 AM	0	0	75	0	1	1	77
8:45 AM	0	0	62	0	5	2	69
9:00 AM	0	0	38	0	4	4	46
9:15 AM	0	0	47	0	3	0	50
9:30 AM	0	0	55	1	1	3	60
9:45 AM	0	0	56	0	7	1	64
10:00 AM	0	0	39	2	2	2	45
10:15 AM	0	0	47	1	5	0	53
10:30 AM	0	0	34	0	2	0	36
10:45 AM	0	0	42	0	1	0	43
11:00 AM	0	0	47	0	3	3	53
11:15 AM	0	0	43	2	3	2	50
11:30 AM	0	0	47	0	7	2	56
11:45 AM	0	0	47	0	5	3	55

PM	Bicycles	Motorcycle	Cars & Light Goods	Buses	Single Unit Heavy	Multi Unit Heavy	Total
12:00 PM	0	0	61	1	3	2	67
12:15 PM	0	0	70	1	3	1	75
12:30 PM	0	0	69	0	3	1	73
12:45 PM	0	0	57	0	0	0	57
1:00 PM	0	0	60	0	4	2	66
1:15 PM	0	0	59	0	2	2	63
1:30 PM	0	0	65	0	3	0	68
1:45 PM	0	0	67	0	4	1	72
2:00 PM	0	0	65	0	2	3	70
2:15 PM	0	0	71	1	4	2	78
2:30 PM	0	0	65	1	0	0	66
2:45 PM	0	0	68	0	5	2	75
3:00 PM	0	0	74	1	4	1	80
3:15 PM	0	0	65	0	2	2	69
3:30 PM	0	0	82	0	2	0	84
3:45 PM	0	0	72	0	4	0	76
4:00 PM	0	0	65	0	3	0	68
4:15 PM	0	0	73	1	1	1	76
4:30 PM	0	0	77	0	1	0	78
4:45 PM	0	0	66	0	1	1	68
5:00 PM	0	0	67	0	3	1	71
5:15 PM	0	0	77	0	1	2	80
5:30 PM	0	0	60	0	1	2	63
5:45 PM	0	0	56	0	0	0	56
6:00 PM	0	0	55	1	0	1	57
6:15 PM	0	0	35	1	3	0	39
6:30 PM	0	0	28	0	0	0	28
6:45 PM	0	0	39	0	0	1	40
7:00 PM	0	0	32	0	0	1	33
7:15 PM	0	0	27	0	1	0	28
7:30 PM	0	0	28	0	0	0	28
7:45 PM	0	0	17	0	0	0	17
8:00 PM	0	0	24	0	0	0	24
8:15 PM	0	0	19	0	0	0	19
8:30 PM	0	0	22	0	0	0	22
8:45 PM	0	0	15	0	0	0	15
9:00 PM	0	0	23	0	1	1	25
9:15 PM	0	0	16	0	0	0	16
9:30 PM	0	0	16	0	0	0	16
9:45 PM	0	0	18	0	0	0	18
10:00 PM	0	0	12	0	1	0	13
10:15 PM	0	0	15	0	0	0	15
10:30 PM	0	0	15	0	0	0	15
10:45 PM	0	0	5	0	0	0	5
11:00 PM	0	0	5	0	0	0	5
11:15 PM	0	0	3	0	0	0	3
11:30 PM	0	0	8	0	0	0	8
11:45 PM	0	0	4	0	0	0	4

AM Total	0	0	1247	12	80	44	1383
Percentage	0.00%	0.00%	90.17%	0.87%	5.78%	3.18%	
AM Peak	12:00 AM	12:00 AM	7:45 AM	9:30 AM	11:00 AM	11:00 AM	8:00 AM
Volume	0	0	241	4	18	10	263

PM Total	0	0	2092	8	62	30	2192
Percentage	0.00%	0.00%	95.44%	0.36%	2.83%	1.37%	
PM Peak	12:00 PM	12:00 PM	3:00 PM	2:15 PM	1:00 PM	2:00 PM	3:00 PM
Volume	0	0	293	3	13	7	309

Day Total	0	0	3339	20	142	74	3575
Percentage	0.00%	0.00%	93.40%	0.56%	3.97%	2.07%	

Greenfield Road (Route 5)
north of Conway Road (Route 116)
City, State: Deerfield, MA
Client: VHB/M. Pause
Site Code: 42986.00



PDI File #: 239242 ATR A

Count Date: Saturday, March 18, 2023
Direction: NB

AM	Bicycles	Motorcycle	Cars & Light Goods	Buses	Single Unit Heavy	Multi Unit Heavy	Total
12:00 AM	0	0	5	0	0	0	5
12:15 AM	0	0	4	0	0	0	4
12:30 AM	0	0	6	0	0	0	6
12:45 AM	0	0	4	0	0	0	4
1:00 AM	0	0	6	0	0	0	6
1:15 AM	0	0	5	0	0	0	5
1:30 AM	0	0	8	0	0	0	8
1:45 AM	0	0	0	0	0	0	0
2:00 AM	0	0	2	0	0	0	2
2:15 AM	0	0	2	0	0	0	2
2:30 AM	0	0	6	0	0	0	6
2:45 AM	0	0	1	0	0	0	1
3:00 AM	0	0	2	0	0	0	2
3:15 AM	0	0	3	0	0	0	3
3:30 AM	0	0	1	0	0	0	1
3:45 AM	0	0	0	0	1	0	1
4:00 AM	0	0	1	0	0	1	2
4:15 AM	0	0	3	0	0	0	3
4:30 AM	0	0	2	0	0	0	2
4:45 AM	0	0	0	0	0	0	0
5:00 AM	0	0	2	0	0	0	2
5:15 AM	0	0	2	0	1	0	3
5:30 AM	0	0	17	0	0	0	17
5:45 AM	0	0	18	0	0	0	18
6:00 AM	0	0	9	0	1	0	10
6:15 AM	0	0	5	0	0	0	5
6:30 AM	0	0	7	0	0	0	7
6:45 AM	0	0	18	0	0	0	18
7:00 AM	0	0	7	0	0	0	7
7:15 AM	0	0	12	0	0	1	13
7:30 AM	0	0	19	0	1	0	20
7:45 AM	0	0	19	0	0	0	19
8:00 AM	0	0	23	0	1	0	24
8:15 AM	0	0	21	0	1	0	22
8:30 AM	0	0	29	0	3	0	32
8:45 AM	0	0	25	0	1	0	26
9:00 AM	0	0	32	0	1	0	33
9:15 AM	0	0	39	0	1	0	40
9:30 AM	0	0	46	0	2	0	48
9:45 AM	0	0	52	0	0	0	52
10:00 AM	0	0	46	0	0	0	46
10:15 AM	0	0	50	0	0	1	51
10:30 AM	0	0	48	0	0	0	48
10:45 AM	1	0	44	0	1	0	46
11:00 AM	0	0	56	0	0	0	56
11:15 AM	0	0	60	1	2	0	63
11:30 AM	0	0	59	0	0	1	60
11:45 AM	0	0	86	0	1	0	87

PM	Bicycles	Motorcycle	Cars & Light Goods	Buses	Single Unit Heavy	Multi Unit Heavy	Total
12:00 PM	0	0	79	0	1	0	80
12:15 PM	0	0	70	0	1	0	71
12:30 PM	0	0	74	0	0	0	74
12:45 PM	1	0	74	0	1	0	76
1:00 PM	1	1	82	0	0	0	84
1:15 PM	0	0	83	0	1	0	84
1:30 PM	0	0	89	0	0	0	89
1:45 PM	0	0	82	0	0	0	82
2:00 PM	0	0	71	0	1	0	72
2:15 PM	0	0	89	0	0	0	89
2:30 PM	0	0	82	1	0	0	83
2:45 PM	1	0	82	0	0	0	83
3:00 PM	0	0	75	0	0	0	75
3:15 PM	0	0	68	0	0	0	68
3:30 PM	0	0	77	0	0	0	77
3:45 PM	0	0	61	0	0	0	61
4:00 PM	0	1	67	0	0	0	68
4:15 PM	0	0	50	0	0	0	50
4:30 PM	1	0	61	0	0	1	63
4:45 PM	0	0	55	0	0	0	55
5:00 PM	0	0	68	0	0	0	68
5:15 PM	0	0	61	0	0	0	61
5:30 PM	0	0	46	0	0	0	46
5:45 PM	0	0	39	0	0	0	39
6:00 PM	0	0	46	0	0	0	46
6:15 PM	0	0	39	0	1	0	40
6:30 PM	0	0	36	0	0	0	36
6:45 PM	0	0	40	0	0	1	41
7:00 PM	0	0	30	0	0	0	30
7:15 PM	0	0	28	0	0	0	28
7:30 PM	0	0	19	0	0	0	19
7:45 PM	0	0	28	0	0	0	28
8:00 PM	0	0	29	0	0	0	29
8:15 PM	0	0	19	0	0	0	19
8:30 PM	0	0	8	0	0	0	8
8:45 PM	0	0	17	0	0	0	17
9:00 PM	0	0	15	0	0	0	15
9:15 PM	0	0	22	0	0	0	22
9:30 PM	0	0	21	0	0	0	21
9:45 PM	0	0	14	0	0	0	14
10:00 PM	0	0	17	0	0	0	17
10:15 PM	0	0	10	0	0	0	10
10:30 PM	0	0	9	0	1	0	10
10:45 PM	0	0	11	0	0	0	11
11:00 PM	0	0	12	0	0	0	12
11:15 PM	0	0	8	0	0	0	8
11:30 PM	0	0	8	0	0	0	8
11:45 PM	0	0	9	0	0	0	9

AM Total	1	0	912	1	18	4	936
Percentage	0.11%	0.00%	97.44%	0.11%	1.92%	0.43%	
AM Peak	10:00 AM	12:00 AM	11:00 AM	10:30 AM	8:00 AM	3:15 AM	11:00 AM
Volume	1	0	261	1	6	1	266

PM Total	4	2	2180	1	7	2	2196
Percentage	0.18%	0.09%	99.27%	0.05%	0.32%	0.09%	
PM Peak	12:15 PM	12:15 PM	1:00 PM	1:45 PM	12:00 PM	3:45 PM	1:00 PM
Volume	2	1	336	1	3	1	339

Day Total	5	2	3092	2	25	6	3132
Percentage	0.16%	0.06%	98.72%	0.06%	0.80%	0.19%	

Greenfield Road (Route 5)
north of Conway Road (Route 116)
City, State: Deerfield, MA
Client: VHB/M. Pause
Site Code: 42986.00



PDI File #: 239242 ATR A

Count Date: Thursday, March 16, 2023
Direction: SB

AM	Bicycles	Motorcycle	Cars & Light Goods	Buses	Single Unit Heavy	Multi Unit Heavy	Total
12:00 AM	0	0	3	0	0	0	3
12:15 AM	0	0	2	0	0	0	2
12:30 AM	0	0	3	0	0	0	3
12:45 AM	0	0	2	0	0	0	2
1:00 AM	0	0	0	0	0	0	0
1:15 AM	0	0	2	0	0	0	2
1:30 AM	0	0	2	0	0	0	2
1:45 AM	0	0	5	0	0	0	5
2:00 AM	0	0	1	0	0	1	2
2:15 AM	0	0	2	0	0	0	2
2:30 AM	0	0	3	0	0	2	5
2:45 AM	0	0	3	0	0	0	3
3:00 AM	0	0	3	0	0	0	3
3:15 AM	0	0	1	0	0	0	1
3:30 AM	0	0	0	0	0	1	1
3:45 AM	0	0	5	0	0	0	5
4:00 AM	0	0	1	0	1	1	3
4:15 AM	0	0	7	0	0	0	7
4:30 AM	0	0	6	0	0	1	7
4:45 AM	0	0	5	0	0	0	5
5:00 AM	0	0	19	1	1	1	22
5:15 AM	0	0	14	0	0	0	14
5:30 AM	0	0	14	0	0	1	15
5:45 AM	0	0	15	0	0	1	16
6:00 AM	0	0	24	0	0	1	25
6:15 AM	0	0	36	0	0	1	37
6:30 AM	0	0	37	0	0	0	37
6:45 AM	0	0	27	0	0	1	28
7:00 AM	0	0	40	1	2	1	44
7:15 AM	0	0	51	1	3	2	57
7:30 AM	0	0	53	0	3	2	58
7:45 AM	0	0	44	0	4	1	49
8:00 AM	0	0	40	0	5	1	46
8:15 AM	0	0	56	2	5	1	64
8:30 AM	0	0	55	0	4	1	60
8:45 AM	0	0	38	0	2	0	40
9:00 AM	0	0	41	1	3	3	48
9:15 AM	0	0	40	0	4	0	44
9:30 AM	0	0	51	0	0	1	52
9:45 AM	0	0	53	0	2	3	58
10:00 AM	0	0	35	0	2	2	39
10:15 AM	0	0	42	0	5	3	50
10:30 AM	0	0	45	0	4	3	52
10:45 AM	0	0	50	0	4	1	55
11:00 AM	0	0	41	1	2	0	44
11:15 AM	0	0	48	1	2	1	52
11:30 AM	0	0	59	0	2	2	63
11:45 AM	0	0	55	0	3	2	60

PM	Bicycles	Motorcycle	Cars & Light Goods	Buses	Single Unit Heavy	Multi Unit Heavy	Total
12:00 PM	0	0	59	0	3	1	63
12:15 PM	0	0	68	0	7	2	77
12:30 PM	0	0	58	1	0	1	60
12:45 PM	0	0	67	0	0	2	69
1:00 PM	0	0	77	1	2	0	80
1:15 PM	0	0	59	0	2	1	62
1:30 PM	0	0	46	0	2	3	51
1:45 PM	0	0	56	0	6	0	62
2:00 PM	0	0	93	0	1	1	95
2:15 PM	0	0	87	0	2	1	90
2:30 PM	0	0	72	0	2	2	76
2:45 PM	0	0	59	1	4	2	66
3:00 PM	0	0	77	2	3	2	84
3:15 PM	0	0	77	0	1	2	80
3:30 PM	1	0	89	1	1	3	95
3:45 PM	0	0	67	1	1	1	70
4:00 PM	0	0	70	0	5	1	76
4:15 PM	0	0	61	0	4	3	68
4:30 PM	0	0	71	1	2	2	76
4:45 PM	0	0	73	0	2	0	75
5:00 PM	0	0	92	2	1	0	95
5:15 PM	0	0	64	0	2	0	66
5:30 PM	0	0	63	0	0	0	63
5:45 PM	0	0	46	0	0	2	48
6:00 PM	0	0	44	0	0	0	44
6:15 PM	0	0	43	0	0	4	47
6:30 PM	0	0	55	0	0	1	56
6:45 PM	0	0	24	0	0	0	24
7:00 PM	0	0	38	0	0	1	39
7:15 PM	0	0	52	2	1	0	55
7:30 PM	0	0	40	0	2	0	42
7:45 PM	0	0	25	0	0	0	25
8:00 PM	0	0	36	0	0	0	36
8:15 PM	0	0	22	0	0	0	22
8:30 PM	0	0	25	0	0	1	26
8:45 PM	0	0	14	0	0	0	14
9:00 PM	0	0	20	0	1	0	21
9:15 PM	0	0	10	0	0	0	10
9:30 PM	0	0	7	0	1	0	8
9:45 PM	0	0	9	0	1	0	10
10:00 PM	0	0	25	0	0	0	25
10:15 PM	0	0	13	0	0	0	13
10:30 PM	0	0	9	0	0	0	9
10:45 PM	0	0	5	0	0	0	5
11:00 PM	0	0	9	0	0	0	9
11:15 PM	0	0	7	0	0	0	7
11:30 PM	0	0	2	0	0	0	2
11:45 PM	0	0	6	0	0	0	6

AM Total	0	0	1179	8	63	42	1292
Percentage	0.00%	0.00%	91.25%	0.62%	4.88%	3.25%	
AM Peak	12:00 AM	12:00 AM	11:00 AM	8:15 AM	7:45 AM	9:45 AM	7:45 AM
Volume	0	0	203	3	18	11	219

PM Total	1	0	2191	12	59	39	2302
Percentage	0.04%	0.00%	95.18%	0.52%	2.56%	1.69%	
PM Peak	2:45 PM	12:00 PM	2:00 PM	2:45 PM	4:00 PM	2:45 PM	3:00 PM
Volume	1	0	311	4	13	9	329

Day Total	1	0	3370	20	122	81	3594
Percentage	0.03%	0.00%	93.77%	0.56%	3.39%	2.25%	

Greenfield Road (Route 5)
north of Conway Road (Route 116)
City, State: Deerfield, MA
Client: VHB/M. Pause
Site Code: 42986.00



PDI File #: 239242 ATR A

Count Date: Saturday, March 18, 2023
Direction: SB

AM	Bicycles	Motorcycle	Cars & Light Goods	Buses	Single Unit Heavy	Multi Unit Heavy	Total
12:00 AM	0	0	3	0	0	0	3
12:15 AM	0	0	4	0	0	0	4
12:30 AM	0	0	1	0	0	0	1
12:45 AM	0	0	7	0	0	0	7
1:00 AM	0	0	3	0	0	0	3
1:15 AM	0	0	3	0	0	0	3
1:30 AM	0	0	1	0	0	0	1
1:45 AM	0	0	1	0	0	0	1
2:00 AM	0	0	0	0	0	0	0
2:15 AM	0	0	3	0	0	0	3
2:30 AM	0	0	0	0	0	0	0
2:45 AM	0	0	2	0	0	0	2
3:00 AM	0	0	2	0	1	0	3
3:15 AM	0	0	3	0	0	0	3
3:30 AM	0	0	2	0	0	0	2
3:45 AM	0	0	2	0	0	0	2
4:00 AM	0	0	3	0	0	1	4
4:15 AM	0	0	3	0	0	0	3
4:30 AM	0	0	1	0	0	0	1
4:45 AM	0	0	2	0	0	0	2
5:00 AM	0	0	6	0	0	0	6
5:15 AM	0	0	2	0	0	0	2
5:30 AM	0	0	5	0	0	0	5
5:45 AM	0	0	5	0	0	0	5
6:00 AM	0	0	4	0	0	0	4
6:15 AM	0	0	7	0	0	0	7
6:30 AM	0	0	8	0	0	0	8
6:45 AM	0	0	12	0	0	0	12
7:00 AM	0	0	9	0	0	0	9
7:15 AM	0	0	12	0	1	0	13
7:30 AM	0	0	16	0	0	0	16
7:45 AM	0	0	16	0	1	0	17
8:00 AM	0	0	12	0	0	0	12
8:15 AM	0	0	22	0	1	0	23
8:30 AM	0	0	25	0	1	0	26
8:45 AM	0	0	30	0	1	0	31
9:00 AM	0	0	39	0	1	1	41
9:15 AM	0	0	46	0	1	0	47
9:30 AM	0	0	34	0	2	0	36
9:45 AM	0	0	60	0	2	0	62
10:00 AM	0	0	53	0	1	0	54
10:15 AM	0	0	44	0	0	0	44
10:30 AM	0	0	35	0	0	1	36
10:45 AM	0	0	55	0	0	0	55
11:00 AM	0	0	57	1	0	0	58
11:15 AM	0	0	79	0	0	0	79
11:30 AM	0	0	61	0	2	0	63
11:45 AM	0	0	52	0	0	0	52

PM	Bicycles	Motorcycle	Cars & Light Goods	Buses	Single Unit Heavy	Multi Unit Heavy	Total
12:00 PM	0	0	73	0	0	0	73
12:15 PM	0	0	74	0	2	0	76
12:30 PM	0	0	63	0	0	1	64
12:45 PM	0	0	61	0	0	0	61
1:00 PM	1	1	69	0	1	0	72
1:15 PM	1	0	59	0	0	0	60
1:30 PM	0	0	69	0	0	0	69
1:45 PM	0	0	77	0	0	0	77
2:00 PM	1	0	68	0	1	0	70
2:15 PM	0	0	89	0	0	0	89
2:30 PM	0	0	93	0	1	0	94
2:45 PM	0	0	92	0	0	0	92
3:00 PM	0	0	69	0	0	0	69
3:15 PM	0	0	99	0	0	0	99
3:30 PM	0	0	77	0	0	0	77
3:45 PM	0	0	73	0	0	0	73
4:00 PM	0	0	94	0	4	0	98
4:15 PM	0	0	71	0	0	0	71
4:30 PM	1	0	65	0	1	0	67
4:45 PM	1	1	70	0	0	0	72
5:00 PM	0	0	66	0	1	0	67
5:15 PM	0	0	57	0	0	0	57
5:30 PM	0	0	51	0	0	0	51
5:45 PM	0	0	54	0	0	0	54
6:00 PM	0	0	59	0	1	0	60
6:15 PM	0	0	38	0	0	0	38
6:30 PM	0	0	31	0	0	0	31
6:45 PM	0	0	43	0	1	0	44
7:00 PM	0	0	37	0	2	0	39
7:15 PM	0	0	38	0	0	0	38
7:30 PM	0	0	38	0	0	0	38
7:45 PM	0	0	30	0	0	0	30
8:00 PM	0	0	43	0	0	0	43
8:15 PM	0	0	17	0	0	0	17
8:30 PM	0	0	26	0	0	0	26
8:45 PM	0	0	12	0	0	0	12
9:00 PM	0	0	11	0	0	0	11
9:15 PM	0	0	15	0	0	0	15
9:30 PM	0	0	18	0	0	0	18
9:45 PM	0	0	11	0	0	0	11
10:00 PM	0	0	11	0	0	0	11
10:15 PM	0	0	16	0	0	0	16
10:30 PM	0	0	7	0	0	0	7
10:45 PM	0	0	8	0	0	0	8
11:00 PM	0	0	2	0	0	0	2
11:15 PM	0	0	11	0	0	0	11
11:30 PM	0	0	7	0	0	0	7
11:45 PM	0	0	5	0	0	0	5

AM Total	0	0	852	1	15	3	871
Percentage	0.00%	0.00%	97.82%	0.11%	1.72%	0.34%	
AM Peak	12:00 AM	12:00 AM	10:45 AM	10:15 AM	9:00 AM	3:15 AM	10:45 AM
Volume	0	0	252	1	6	1	255

PM Total	5	2	2267	0	15	1	2290
Percentage	0.22%	0.09%	99.00%	0.00%	0.66%	0.04%	
PM Peak	12:30 PM	12:15 PM	2:30 PM	12:00 PM	3:45 PM	12:00 PM	2:30 PM
Volume	2	1	353	0	5	1	354

Day Total	5	2	3119	1	30	4	3161
Percentage	0.16%	0.06%	98.67%	0.03%	0.95%	0.13%	

Greenfield Road (Route 5)
north of Conway Road (Route 116)
City, State: Deerfield, MA
Client: VHB/M. Pause
Site Code: 42986.00



PDI File # 239242 ATR A

Direction: NB

Weekly Report

Day Date	Thursday 03/16/23		Saturday 03/18/23												Week Ave	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
12:00	3	67	5	80	0	0	0	0	0	0	0	0	0	0	4	74
12:15	3	75	4	71	0	0	0	0	0	0	0	0	0	0	4	73
12:30	5	73	6	74	0	0	0	0	0	0	0	0	0	0	6	74
12:45	3	57	4	76	0	0	0	0	0	0	0	0	0	0	4	67
1:00	2	66	6	84	0	0	0	0	0	0	0	0	0	0	4	75
1:15	2	63	5	84	0	0	0	0	0	0	0	0	0	0	4	74
1:30	2	68	8	89	0	0	0	0	0	0	0	0	0	0	5	79
1:45	5	72	0	82	0	0	0	0	0	0	0	0	0	0	3	77
2:00	0	70	2	72	0	0	0	0	0	0	0	0	0	0	1	71
2:15	2	78	2	89	0	0	0	0	0	0	0	0	0	0	2	84
2:30	4	66	6	83	0	0	0	0	0	0	0	0	0	0	5	75
2:45	0	75	1	83	0	0	0	0	0	0	0	0	0	0	1	79
3:00	0	80	2	75	0	0	0	0	0	0	0	0	0	0	1	78
3:15	0	69	3	68	0	0	0	0	0	0	0	0	0	0	2	69
3:30	3	84	1	77	0	0	0	0	0	0	0	0	0	0	2	81
3:45	3	76	1	61	0	0	0	0	0	0	0	0	0	0	2	69
4:00	3	68	2	68	0	0	0	0	0	0	0	0	0	0	3	68
4:15	1	76	3	50	0	0	0	0	0	0	0	0	0	0	2	63
4:30	0	78	2	63	0	0	0	0	0	0	0	0	0	0	1	71
4:45	6	68	0	55	0	0	0	0	0	0	0	0	0	0	3	62
5:00	4	71	2	68	0	0	0	0	0	0	0	0	0	0	3	70
5:15	15	80	3	61	0	0	0	0	0	0	0	0	0	0	9	71
5:30	28	63	17	46	0	0	0	0	0	0	0	0	0	0	23	55
5:45	39	56	18	39	0	0	0	0	0	0	0	0	0	0	29	48
6:00	18	57	10	46	0	0	0	0	0	0	0	0	0	0	14	52
6:15	30	39	5	40	0	0	0	0	0	0	0	0	0	0	18	40
6:30	29	28	7	36	0	0	0	0	0	0	0	0	0	0	18	32
6:45	58	40	18	41	0	0	0	0	0	0	0	0	0	0	38	41
7:00	50	33	7	30	0	0	0	0	0	0	0	0	0	0	29	32
7:15	50	28	13	28	0	0	0	0	0	0	0	0	0	0	32	28
7:30	76	28	20	19	0	0	0	0	0	0	0	0	0	0	48	24
7:45	65	17	19	28	0	0	0	0	0	0	0	0	0	0	42	23
8:00	58	24	24	29	0	0	0	0	0	0	0	0	0	0	41	27
8:15	59	19	22	19	0	0	0	0	0	0	0	0	0	0	41	19
8:30	77	22	32	8	0	0	0	0	0	0	0	0	0	0	55	15
8:45	69	15	26	17	0	0	0	0	0	0	0	0	0	0	48	16
9:00	46	25	33	15	0	0	0	0	0	0	0	0	0	0	40	20
9:15	50	16	40	22	0	0	0	0	0	0	0	0	0	0	45	19
9:30	60	16	48	21	0	0	0	0	0	0	0	0	0	0	54	19
9:45	64	18	52	14	0	0	0	0	0	0	0	0	0	0	58	16
10:00	45	13	46	17	0	0	0	0	0	0	0	0	0	0	46	15
10:15	53	15	51	10	0	0	0	0	0	0	0	0	0	0	52	13
10:30	36	15	48	10	0	0	0	0	0	0	0	0	0	0	42	13
10:45	43	5	46	11	0	0	0	0	0	0	0	0	0	0	45	8
11:00	53	5	56	12	0	0	0	0	0	0	0	0	0	0	55	9
11:15	50	3	63	8	0	0	0	0	0	0	0	0	0	0	57	6
11:30	56	8	60	8	0	0	0	0	0	0	0	0	0	0	58	8
11:45	55	4	87	9	0	0	0	0	0	0	0	0	0	0	71	7
Total	1383	2192	936	2196	0	1160	2194									
Day Total	3575		3132		0		0		0		0		0		3354	
Peak HR	8:00 AM	3:00 PM	11:00 AM	1:00 PM											11:00 AM	2:15 PM
Volume	263	309	266	339											240	315

Greenfield Road (Route 5)
north of Conway Road (Route 116)
City, State: Deerfield, MA
Client: VHB/M. Pause
Site Code: 42986.00



PRECISION
DATA
INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

PDI File # 239242 ATR A

Direction: SB

Weekly Report

Day Date	Thursday 03/16/23		Saturday 03/18/23												Week Ave	
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
12:00	3	63	3	73	0	0	0	0	0	0	0	0	0	0	3	68
12:15	2	77	4	76	0	0	0	0	0	0	0	0	0	0	3	77
12:30	3	60	1	64	0	0	0	0	0	0	0	0	0	0	2	62
12:45	2	69	7	61	0	0	0	0	0	0	0	0	0	0	5	65
1:00	0	80	3	72	0	0	0	0	0	0	0	0	0	0	2	76
1:15	2	62	3	60	0	0	0	0	0	0	0	0	0	0	3	61
1:30	2	51	1	69	0	0	0	0	0	0	0	0	0	0	2	60
1:45	5	62	1	77	0	0	0	0	0	0	0	0	0	0	3	70
2:00	2	95	0	70	0	0	0	0	0	0	0	0	0	0	1	83
2:15	2	90	3	89	0	0	0	0	0	0	0	0	0	0	3	90
2:30	5	76	0	94	0	0	0	0	0	0	0	0	0	0	3	85
2:45	3	66	2	92	0	0	0	0	0	0	0	0	0	0	3	79
3:00	3	84	3	69	0	0	0	0	0	0	0	0	0	0	3	77
3:15	1	80	3	99	0	0	0	0	0	0	0	0	0	0	2	90
3:30	1	95	2	77	0	0	0	0	0	0	0	0	0	0	2	86
3:45	5	70	2	73	0	0	0	0	0	0	0	0	0	0	4	72
4:00	3	76	4	98	0	0	0	0	0	0	0	0	0	0	4	87
4:15	7	68	3	71	0	0	0	0	0	0	0	0	0	0	5	70
4:30	7	76	1	67	0	0	0	0	0	0	0	0	0	0	4	72
4:45	5	75	2	72	0	0	0	0	0	0	0	0	0	0	4	74
5:00	22	95	6	67	0	0	0	0	0	0	0	0	0	0	14	81
5:15	14	66	2	57	0	0	0	0	0	0	0	0	0	0	8	62
5:30	15	63	5	51	0	0	0	0	0	0	0	0	0	0	10	57
5:45	16	48	5	54	0	0	0	0	0	0	0	0	0	0	11	51
6:00	25	44	4	60	0	0	0	0	0	0	0	0	0	0	15	52
6:15	37	47	7	38	0	0	0	0	0	0	0	0	0	0	22	43
6:30	37	56	8	31	0	0	0	0	0	0	0	0	0	0	23	44
6:45	28	24	12	44	0	0	0	0	0	0	0	0	0	0	20	34
7:00	44	39	9	39	0	0	0	0	0	0	0	0	0	0	27	39
7:15	57	55	13	38	0	0	0	0	0	0	0	0	0	0	35	47
7:30	58	42	16	38	0	0	0	0	0	0	0	0	0	0	37	40
7:45	49	25	17	30	0	0	0	0	0	0	0	0	0	0	33	28
8:00	46	36	12	43	0	0	0	0	0	0	0	0	0	0	29	40
8:15	64	22	23	17	0	0	0	0	0	0	0	0	0	0	44	20
8:30	60	26	26	26	0	0	0	0	0	0	0	0	0	0	43	26
8:45	40	14	31	12	0	0	0	0	0	0	0	0	0	0	36	13
9:00	48	21	41	11	0	0	0	0	0	0	0	0	0	0	45	16
9:15	44	10	47	15	0	0	0	0	0	0	0	0	0	0	46	13
9:30	52	8	36	18	0	0	0	0	0	0	0	0	0	0	44	13
9:45	58	10	62	11	0	0	0	0	0	0	0	0	0	0	60	11
10:00	39	25	54	11	0	0	0	0	0	0	0	0	0	0	47	18
10:15	50	13	44	16	0	0	0	0	0	0	0	0	0	0	47	15
10:30	52	9	36	7	0	0	0	0	0	0	0	0	0	0	44	8
10:45	55	5	55	8	0	0	0	0	0	0	0	0	0	0	55	7
11:00	44	9	58	2	0	0	0	0	0	0	0	0	0	0	51	6
11:15	52	7	79	11	0	0	0	0	0	0	0	0	0	0	66	9
11:30	63	2	63	7	0	0	0	0	0	0	0	0	0	0	63	5
11:45	60	6	52	5	0	0	0	0	0	0	0	0	0	0	56	6
Total	1292	2302	871	2290	0	1082	2296									
Day Total	3594		3161		0		0		0		0		0		3378	
Peak HR	7:45 AM	3:00 PM	10:45 AM	2:30 PM											11:00 AM	2:00 PM
Volume	219	329	255	354											236	336

Attachment B

Parking Summary Chart

Description	Size		Spaces	
	Required	Provided	Required	Provided
STANDARD SPACES	9' x 18'	9' x 18'	27	54
STANDARD ACCESSIBLE SPACES *	8' x 18'	8' x 18'	1	3
VAN ACCESSIBLE SPACES	8' x 18'	8' x 18'	1	2
TOTAL SPACES			29	59

* ADA/STATE/LOCAL REQUIREMENTS

Parking Requirements:

RHD (TESTING BLDG)	5,000 SF	x 1 /	500 SF	= 10 SPACES
RETAIL (DISPENSARY BLDG)	3,304 SF	x 1 /	250 SF	= 14 SPACES
WAREHOUSE (CULTIVATION BLDG)	10 EMP	x 1 /	2 EMPLOYEES	= 5 SPACES
TOTAL PARKING REQUIRED				= 29 SPACES

Zoning Summary Chart

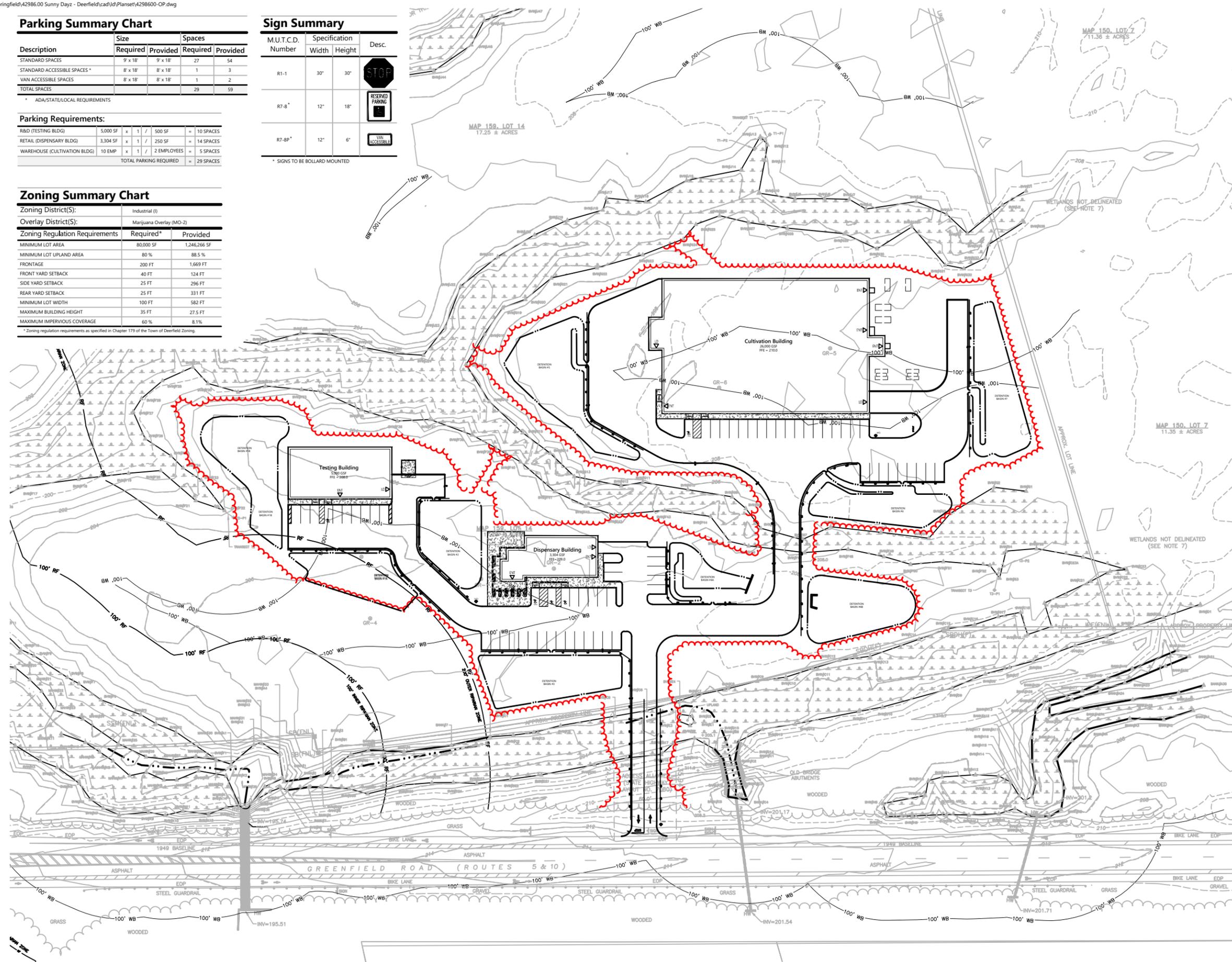
Zoning District(S):	Industrial (I)
Overlay District(S):	Marijuana Overlay (MO-2)
Zoning Regulation Requirements	Required* / Provided
MINIMUM LOT AREA	80,000 SF / 1,246,266 SF
MINIMUM LOT UPLAND AREA	80 % / 88.5 %
FRONTAGE	200 FT / 1,669 FT
FRONT YARD SETBACK	40 FT / 124 FT
SIDE YARD SETBACK	25 FT / 296 FT
REAR YARD SETBACK	25 FT / 331 FT
MINIMUM LOT WIDTH	100 FT / 582 FT
MAXIMUM BUILDING HEIGHT	35 FT / 27.5 FT
MAXIMUM IMPERVIOUS COVERAGE	60 % / 8.1%

* Zoning regulation requirements as specified in Chapter 179 of the Town of Deerfield Zoning.

Sign Summary

M.U.T.C.D. Number	Specification	Desc.
R1-1	30" x 30"	STOP
R7-8"	12" x 18"	RESERVED PARKING
R7-8P"	12" x 6"	VAN ACCESSIBLE

* SIGNS TO BE BOLLARD MOUNTED



vhb.com
 One Federal Street
 Building 103-3N
 Springfield, MA 01105
 413.747.7113



SunnyDayz Cannabis Cultivation Campus
 Greenfield Road
 Deerfield, MA

No.	Revision	Date	App'd

Designed by: _____ Checked by: _____
 Issued for: _____ Date: _____
Site Plan Review January 13, 2023

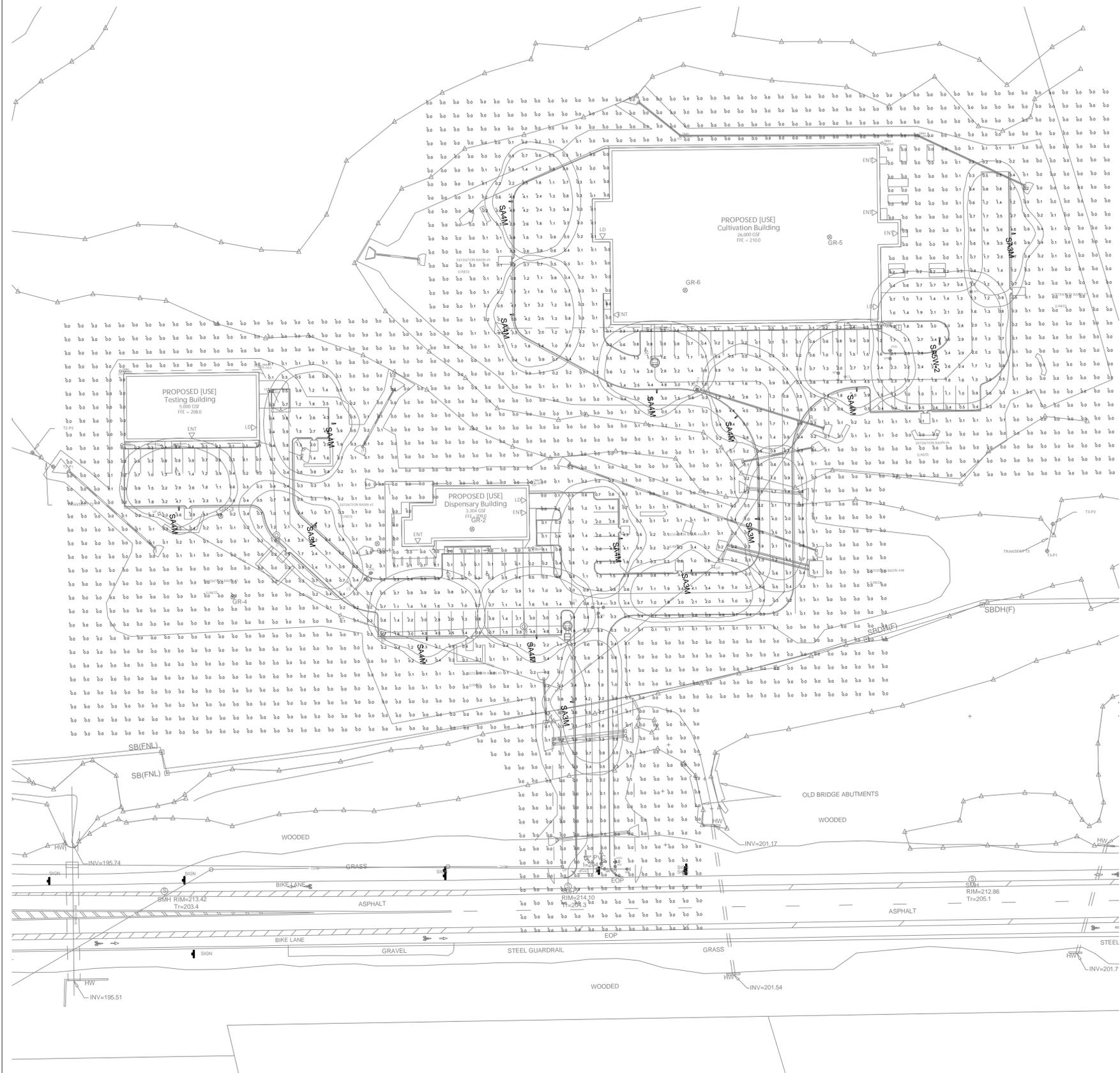
Not for Construction
 Drawing Title: **Overall Plan**
 Drawing Number: _____

C1.01

Sheet 2 of 16

Project Number: 42986.00

Attachment C



JOB NAME: SUNNYDAYZ - GREENFIELD ROAD - DEERFIELD, MA
 APEX LIGHTING SOLUTIONS
 WORKPLANE/CALC PLANE: AT FINISH GRADE
 MOUNTING HEIGHT: SEE LUMINAIRE SCHEDULE
 APPS: LEDPD
 SALES: SP
 SPECIFIER: VHB-MA

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Lum. Lumens	Lum. Watts	LLF	Description	[MANUFAC]	Filename
	5	SA3M	Single	7055	55.7	0.900	ECF-S-32L-530-WW-G2-AR-3-VOLT-FINISH, SSS-CB-4-11-14-D1-DTX-FINISH	SIGNIFY GARDCO	ecf-s-32l-530-ww-g2-3.ies
	10	SA4M	Single	7327	55.7	0.900	ECF-S-32L-530-WW-G2-AR-4-VOLT-FINISH, SSS-CB-4-11-14-D1-DTX-FINISH	SIGNIFY GARDCO	ecf-s-32l-530-ww-g2-4.ies
	1	SA5W2	Back-Back	7284	55.7	0.900	ECF-S-32L-530-WW-G2-AR-5W-VOLT-FINISH, SSS-CB-4-11-14-D2-DTX-FINISH	SIGNIFY GARDCO	ecf-s-32l-530-ww-g2-5w.ies

Calculation Summary									
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Description	
Paved Areas	Illuminance	Fc	1.27	4.9	0.0	N.A.	N.A.	10ft Grid	
Site	Illuminance	Fc	0.18	5.5	0.0	N.A.	N.A.	10ft Grid	

GENERAL DISCLAIMER:
 Calculations have been performed according to IES standards and good practice. Some differences between measured values and calculated results may occur due to tolerances in calculation methods, testing procedures, component performance, measurement techniques and field conditions such as voltage and temperature variations. Input data used to generate the attached calculations such as room dimensions, reflectances, furniture and architectural elements significantly affect the lighting calculations. If the real environment conditions do not match the input data, differences will occur between measured values and calculated values.
 * LLF Determined Using Current Published Lamp Data

NOTE TO REVIEWER:
 Total Light Loss Factor (LLF) applied at time of design is determined by applying the Lamp Lumen Depreciation Factor (LLD) from current lamp manufacturer's catalog, a Luminaire Dirt Depreciation Factor (LDD) based on IES recommended values and a Ballast Factor (BF) from current ballast specification sheets. Application of an incorrect Light Loss Factor (LLF) will result in forecasts of performance that will not accurately depict actual results.
 For proper comparison of photometric layouts, it is essential that you insist all designers use correct Light Loss Factors.



PROJECT TITLE:
 SUNNYDAYZ
 GREENFIELD ROAD
 DEERFIELD, MA

DRAWING TITLE:
 SITE LIGHTING
 PHOTOMETRIC CALCULATION

FILE NAME: 2023-03-27 SL-1A SUNNYDAYZ - GREENFIELD ROAD - DEERFIELD, MA.dwg

SCALE: 1"=40'-0"
 DATE: 3/27/23
 DRAWN BY: LED/PD
 SHEET:
SL-1A



**SUNNYDAYZ - GREENFIELD ROAD
DEERFIELD, MA
SA3M**

Gardco EcoForm Gen-2 combines economy with performance in an LED area luminaire. Capable of delivering up to 27,800 lumens or more in a compact, low profile LED luminaire, EcoForm offers a new level of customer value. EcoForm features an innovative retrofit arm kit, simplifying site conversions to LED by eliminating the need to drill additional holes in most existing poles. Integral control systems available for further energy savings. Includes Service Tag, our innovative way to provide assistance throughout the life of the product.

Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Lamps: _____ Qty: _____
 Notes: _____

Ordering guide

example: ECF-S-64L-900-NW-G2-AR-5-120-HIS-MGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution	Voltage
ECF-S						
ECF-S EcoForm site and area, small	32L 32 LEDs (2 modules)	365 365mA	WW-G2 Warm White 3000K, 70CRI Generation 2	AR ² Arm Mount (standard)	Type 2 2 Type 2 2-90 Rotated left 90° 2-270 Rotated right 270° Type 3 3 Type 3 3-90 Rotated left 90° 3-270 Rotated right 270° Type 4 4 Type 4 4-90 Rotated left 90° 4-270 Rotated right 270° Type 5 5 Type 5 5W Type 5W	120 120V 208 208V 240 240V 277 277V 347 347V 480 480V UNV 120-277V (50/60Hz) HVU 347-480V (50/60Hz)
		530 530mA				
		700 700mA 1A 1050mA 1.2A 1200mA				
48L 48 LEDs (3 modules)	900 900mA	1A 1050mA	NW-G2 Neutral White 4000K, 70CRI Generation 2	The following mounting kits must be ordered separately (See accessories) SF ³ Slip Fitter Mount (fits to 2 3/8" O.D. tenon) WS Wall mount with surface conduit rear entry permitted RAM ² Retrofit arm mount kit	AFR Auto Front Row AFR-90 Auto Front Row, Rotated left 90° AFR-270 Auto Front Row, Rotated right 270° BLC Back Light Control BLC-90 Back Light Control rotated at 90° BLC-270 Back Light Control rotated at 270° LCL ¹⁹ LEED Corner Optic Left RCL ¹⁹ LEED Corner Optic Right	
		1.2A ⁹ 1200mA	CW-G2 Cool White 5000K, 70CRI Generation 2			
64L 64 LEDs (4 modules)	900 900mA	1A ⁹ 1050mA				

Options						Finish
Dimming controls	Motion sensing lens	Photo-sensing	Electrical	Luminaire		
DD ^{4,18} 0-10V External dimming (for controls by others) DCC ^{4,5,6,18} Dual Circuit Control FAWS ^{4,5,18} Field Adjustable Wattage Selector LLC ^{4,6,7,8,18} Integral wireless module BL ^{1,4,7,18} Bi-level functionality SRDR ^{4,5,6,8,17} SR driver connected to Zhaga socket DynaDimmer: Automatic Profile Dimming CS50 ^{4,8} Safety 50% Dimming, 7 hours CM50 ^{4,8} Median 50% Dimming, 8 hours CS30 ^{4,8} Safety 30% Dimming, 7 hours CM30 ^{4,8} Median 30% Dimming, 8 hours	IMR13 ¹⁵ Integral with #3 lens IMR17 ¹⁶ Integral with #7 lens	PCB ^{8,9} Photocontrol Button TLRD5 ^{10,17} Twist Lock Receptacle 5 Pin TLRD7 ^{10,17} Twist Lock Receptacle 7 Pin TLRPC ^{9,10,11,17} Twist Lock Receptacle w/ Photocell	Fusing F1 ⁹ Single (120, 277, 347VAC) F2 ⁹ Double (208, 240, 480VAC) Pole Mount Fusing FP1 ⁹ Single (120, 277, 347VAC) FP2 ⁹ Double (208, 240, 480VAC) FP3 ⁹ Canadian Double Pull (208, 240, 480VAC) Surge Protection (10kA standard) SP2 Increased 20kA	Square Pole Adapter included in standard product TB ¹² Terminal Block RPA ¹³ Round Pole Adapter (fits to 3"- 3.9" O.D. pole) HIS ¹⁴ Internal House Side Shield		Textured BK Black WH White BZ Bronze DGY Dark Gray MGY Medium Gray Customer specified RAL Specify optional color or RAL (ex: RAL7024) CC Custom color (Must supply color chip for required factory quote)

- BL-IMR13/7 equipped with out-boarded sensor housing when voltage is HVU (347-480V)
- Mounts to a 4" round pole with adapter included for square poles.
- Limited to a maximum of 45 degrees aiming above horizontal.
- Not available with other dimming control options.
- Not available with motion sensor.
- Not available with photocontrol.
- Must specify a motion sensor lens.
- Not available in 347 or 480V
- Must specify input voltage.
- TLRD5, TLRD7 and TLRPC receptacle pins 4 & 5 are capped off when ordered with any of the Dimming controls DD or FAWS or LLC.
- Not available in 480V. Order photocell separately with TLRD5/7.
- Not available with DCC.
- Not available with SF and WS. RPAs provided with black finish standard.
- HIS not available with Type 5, 5W, BLC, BLC-90, BLC-270, LCL or RCL optics.
- Not available with DD, DCC, and FAWS dimming control options.
- Not available with DD, DCC, FAWS and LLC dimming control options.
- When ordering SRDR, controller (by others) to be used on socket must be SR compatible (See specifications for more details). Consult factory for lead time. All 7 pins in NEMA receptacle are connected to SR driver. SRDR not available with TLRD5 or TLRPC.
- 0-10V dimming driver standard.
- LCL and RCL not available with 48L-1.2A or 64L-1A.



ECF-S EcoForm small

Area luminaire

EcoForm Accessories²¹ (ordered separately, field installed)

Shielding Accessories

House Side shield

Standard optic orientation:

HIS-32-H²⁰ Internal House Side Shield for 32 LEDs (2 modules)

HIS-48-H²⁰ Internal House Side Shield for 48 LEDs (3 modules)

HIS-64-H²⁰ Internal House Side Shield for 64 LEDs (4 modules)

Optic at 90 or 270 orientation:

HIS-32-V²⁰ Internal House Side Shield for 32 LEDs (2 modules)

HIS-48-V²⁰ Internal House Side Shield for 48 LEDs (3 modules)

HIS-64-V²⁰ Internal House Side Shield for 64 LEDs (4 modules)

Luminaire Accessories

ECF-BD-G2 Bird deterrent
ECF-RAM-G2-(F) Retrofit Arm mount kit
ECF-SF-G2-(F) Slip Fitter Mount (fits to 2 3/8" O.D. tenon)
ECF-WS-G2-(F) Wall mount with surface conduit rear entry permitted

EcoForm PTF2
 (pole top fitter fits 23/8-21/2" OD x 4" depth tenon)

PTF2-ECF-S/L-1-90-(F) 1 luminaire at 90°
PTF2-ECF-S/L-2-90-(F) 2 luminaires at 90°
PTF2-ECF-S/L-2-180-(F) 2 luminaires at 180°
PTF2-ECF-S/L-3-90-(F) 3 luminaires at 90°
PTF2-ECF-S/L-4-90-(F) 4 luminaires at 90°
PTF2-ECF-S/L-3-120-(F) 3 luminaires at 120°

(F) = Specify finish

EcoForm PTF3
 (pole top fitter fits 3-31/2" OD x 6" depth tenon)

PTF3-ECF-S/L-1-90-(F) 1 luminaire at 90°
PTF3-ECF-S/L-2-90-(F) 2 luminaires at 90°
PTF3-ECF-S/L-2-180-(F) 2 luminaires at 180°
PTF3-ECF-S/L-3-90-(F) 3 luminaires at 90°
PTF3-ECF-S/L-4-90-(F) 4 luminaires at 90°
PTF3-ECF-S/L-3-120-(F) 3 luminaires at 120°

EcoForm PTF4
 (pole top fitter fits 31/2-4" OD x 6" depth tenon)

PTF4-ECF-S/L-1-90-(F) 1 luminaire at 90°
PTF4-ECF-S/L-2-90-(F) 2 luminaires at 90°
PTF4-ECF-S/L-2-180-(F) 2 luminaires at 180°
PTF4-ECF-S/L-3-90-(F) 3 luminaires at 90°
PTF4-ECF-S/L-4-90-(F) 4 luminaires at 90°
PTF4-ECF-S/L-3-120-(F) 3 luminaires at 120°

Footnotes

20. Not available with Type 5 or 5W optics

21. Consult Signify to confirm whether specific accessories are BAA-compliant.

Ready to Go configurations (when ordered with the "RS-" catalog code, the following configurations will ship in 2 weeks):

Catalog Number	12NC	Catalog Number	12NC
RS-ECF-S-32L-1A-NW-G2-AR-3-UNV-BZ	912401466002	RS-ECF-S-64L-1A-NW-G2-AR-3-UNV-BK	912401534560
RS-ECF-S-32L-1A-NW-G2-AR-3-UNV-MGY	912401466003	RS-ECF-S-64L-1A-NW-G2-AR-4-UNV-BZ	912401466016
RS-ECF-S-32L-1A-NW-G2-AR-3-UNV-BK	912401534554	RS-ECF-S-64L-1A-NW-G2-AR-4-UNV-MGY	912401466017
RS-ECF-S-32L-1A-NW-G2-AR-4-UNV-BZ	912401466004	RS-ECF-S-64L-1A-NW-G2-AR-4-UNV-BK	912401534561
RS-ECF-S-32L-1A-NW-G2-AR-4-UNV-MGY	912401466005	RS-ECF-S-64L-1A-NW-G2-AR-5-UNV-BZ	912401466018
RS-ECF-S-32L-1A-NW-G2-AR-4-UNV-BK	912401534555	RS-ECF-S-64L-1A-NW-G2-AR-5-UNV-MGY	912401466019
RS-ECF-S-32L-1A-NW-G2-AR-5-UNV-BZ	912401466006	RS-ECF-S-64L-1A-NW-G2-AR-5-UNV-BK	912401534562
RS-ECF-S-32L-1A-NW-G2-AR-5-UNV-MGY	912401466007	RS-ECF-RAM-G2-DGY	912401466487
RS-ECF-S-32L-1A-NW-G2-AR-5-UNV-BK	912401534556	RS-ECF-RAM-G2-MGY	912401466488
RS-ECF-S-48L-1A-NW-G2-AR-3-UNV-BZ	912401466008	RS-ECF-RAM-G2-WH	912401466485
RS-ECF-S-48L-1A-NW-G2-AR-3-UNV-MGY	912401466009	RS-ECF-RAM-G2-BZ	912401466486
RS-ECF-S-48L-1A-NW-G2-AR-3-UNV-BK	912401534557	RS-ECF-RAM-G2-BK	912401466484
RS-ECF-S-48L-1A-NW-G2-AR-4-UNV-BZ	912401466010	RS-HIS-32-H	912401466489
RS-ECF-S-48L-1A-NW-G2-AR-4-UNV-MGY	912401466011	RS-HIS-48-H	912401466491
RS-ECF-S-48L-1A-NW-G2-AR-4-UNV-BK	912401534558	RS-HIS-64-H	912401466493
RS-ECF-S-48L-1A-NW-G2-AR-5-UNV-BZ	912401466012		
RS-ECF-S-48L-1A-NW-G2-AR-5-UNV-MGY	912401466013		
RS-ECF-S-48L-1A-NW-G2-AR-5-UNV-BK	912401534559		
RS-ECF-S-64L-1A-NW-G2-AR-3-UNV-BZ	912401466014		
RS-ECF-S-64L-1A-NW-G2-AR-3-UNV-MGY	912401466015		

ECF-S EcoForm small

Area luminaire

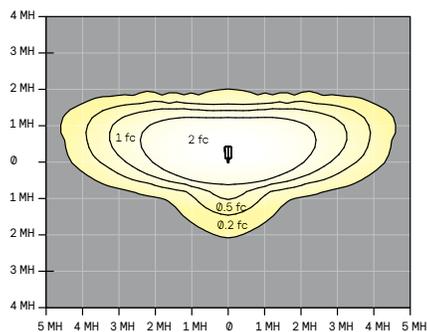
Predicted Lumen Depreciation Data

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L₇₀ is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L₇₀ hours limited to 6 times actual LED test hours

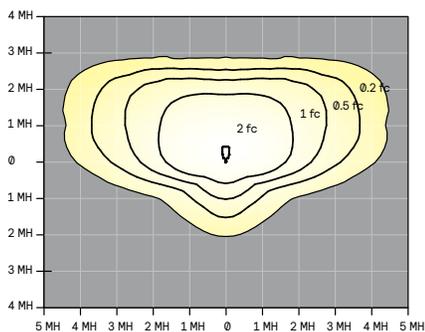
Ambient Temperature °C	Driver mA	Calculated L ₇₀ Hours	L ₇₀ per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	up to 1200 mA	>100,000 hours	>120,000 hours	>99%

Optical Distributions

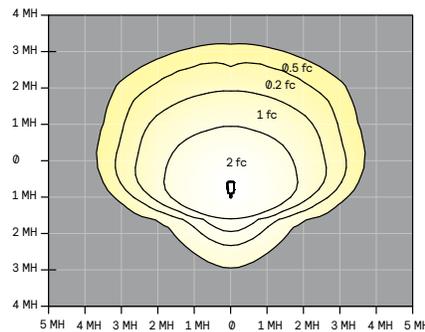
Based on configuration ECF-S-48L-1A-NW-G2 (159W) mounted at 20ft.



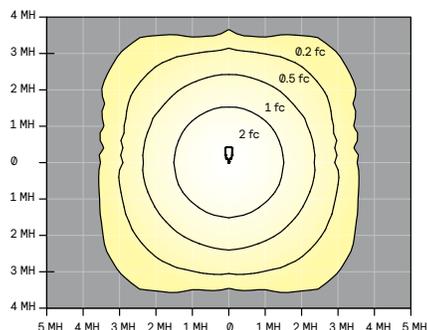
Type 2



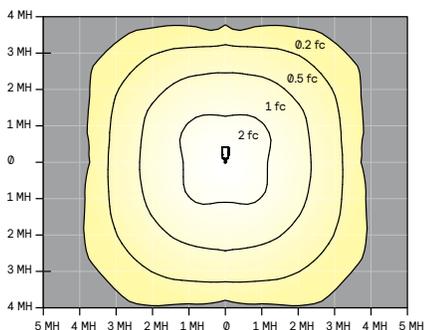
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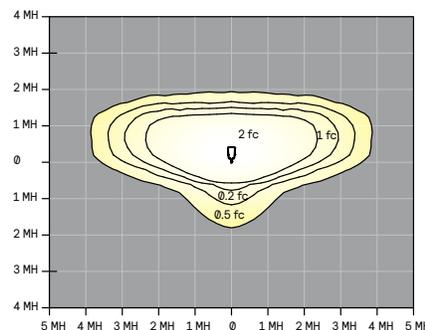
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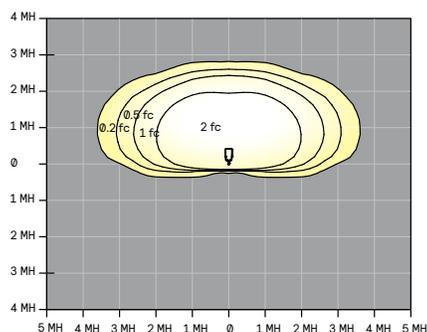
Type 5



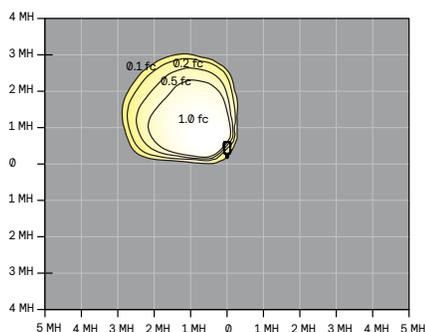
Type 5W



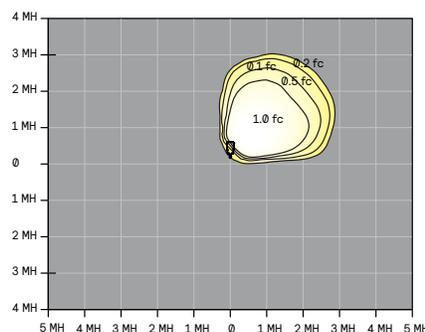
AFR



BLC



LCL



RCL

ECF-S EcoForm small

Area luminaire

3000K LED Wattage and Lumen Values

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4			Type 5			Type 5W		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-WW-G2-x	32	365	3000	40	5,508	B1-U0-G1	138	5,428	B1-U0-G2	136	5,637	B1-U0-G2	141	5,790	B3-U0-G1	145	5,604	B3-U0-G1	140
ECF-S-32L-530-WW-G2-x	32	530	3000	56	7,159	B2-U0-G2	129	7,055	B1-U0-G2	127	7,327	B1-U0-G2	132	7,526	B3-U0-G2	135	7,284	B3-U0-G2	131
ECF-S-32L-700-WW-G2-x	32	700	3000	73	9,234	B2-U0-G2	127	9,034	B2-U0-G2	124	9,452	B2-U0-G2	130	9,707	B4-U0-G2	133	9,395	B4-U0-G2	129
ECF-S-32L-1A-WW-G2-x	32	1050	3000	106	13,001	B3-U0-G2	123	12,719	B2-U0-G2	120	13,306	B2-U0-G3	126	13,665	B4-U0-G2	129	13,227	B4-U0-G2	125
ECF-S-32L-1.2A-WW-G2-x	32	1200	3000	122	14,421	B3-U0-G3	119	14,108	B2-U0-G3	116	14,760	B2-U0-G3	121	15,158	B4-U0-G2	125	14,671	B4-U0-G2	121
ECF-S-48L-900-WW-G2-x	48	900	3000	135	17,115	B3-U0-G3	127	16,744	B3-U0-G3	124	17,518	B2-U0-G3	130	17,990	B4-U0-G2	133	17,413	B5-U0-G3	129
ECF-S-48L-1A-WW-G2-x	48	1050	3000	159	19,381	B3-U0-G3	122	18,960	B3-U0-G3	119	19,836	B3-U0-G4	125	20,372	B5-U0-G3	128	19,717	B5-U0-G3	124
ECF-S-48L-1.2A-WW-G2-x	48	1200	3000	183	21,515	B3-U0-G3	118	21,048	B3-U0-G4	115	22,020	B3-U0-G4	121	22,616	B5-U0-G3	124	21,888	B5-U0-G3	120
ECF-S-64L-900-WW-G2-x	64	900	3000	178	22,652	B3-U0-G3	127	22,161	B3-U0-G4	125	23,185	B3-U0-G4	130	23,810	B5-U0-G3	134	23,045	B5-U0-G3	130
ECF-S-64L-1A-WW-G2-x	64	1050	3000	206	25,520	B3-U0-G3	124	24,966	B3-U0-G4	121	26,120	B3-U0-G4	127	26,150	B5-U0-G3	127	25,964	B5-U0-G4	126

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type AFR			BLC			LCL or RCL		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-WW-G2-x	32	365	3000	40	5,706	B2-U0-G1	143	3,691	B0-U0-G1	94	2,449	B0-U0-G1	62
ECF-S-32L-530-WW-G2-x	32	530	3000	56	7,417	B2-U0-G1	133	5,005	B0-U0-G2	91	3,183	B0-U0-G1	58
ECF-S-32L-700-WW-G2-x	32	700	3000	73	9,567	B2-U0-G2	131	6,409	B0-U0-G2	89	4,106	B0-U0-G1	57
ECF-S-32L-1A-WW-G2-x	32	1050	3000	106	13,467	B3-U0-G2	128	9,024	B1-U0-G2	87	5,793	B0-U0-G2	56
ECF-S-32L-1.2A-WW-G2-x	32	1200	3000	122	14,939	B3-U0-G2	123	10,010	B1-U0-G2	84	6,426	B0-U0-G2	54
ECF-S-48L-900-WW-G2-x	48	900	3000	135	17,731	B3-U0-G2	131	11,880	B1-U0-G2	89	7,626	B0-U0-G2	57
ECF-S-48L-1A-WW-G2-x	48	1050	3000	159	20,076	B3-U0-G2	127	13,453	B1-U0-G2	86	8,636	B0-U0-G2	55
ECF-S-48L-1.2A-WW-G2-x	48	1200	3000	183	22,288	B3-U0-G2	122	14,934	B1-U0-G3	83			
ECF-S-64L-900-WW-G2-x	64	900	3000	178	23,465	B3-U0-G2	132	15,723	B1-U0-G3	90	10,093	B0-U0-G2	58
ECF-S-64L-1A-WW-G2-x	64	1050	3000	206	26,437	B4-U0-G3	128	17,714	B1-U0-G3	87			

4000K LED Wattage and Lumen Values

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4			Type 5			Type 5W		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-NW-G2-x	32	365	4000	40	5,798	B1-U0-G1	145	5,713	B1-U0-G2	143	5,934	B1-U0-G2	148	6,094	B3-U0-G1	152	5,898	B3-U0-G2	147
ECF-S-32L-530-NW-G2-x	32	530	4000	56	7,536	B2-U0-G2	135	7,426	B1-U0-G2	133	7,713	B1-U0-G2	138	7,922	B3-U0-G2	142	7,667	B3-U0-G2	138
ECF-S-32L-700-NW-G2-x	32	700	4000	73	9,720	B2-U0-G2	133	9,509	B2-U0-G2	130	9,949	B2-U0-G2	136	10,218	B4-U0-G2	140	9,889	B4-U0-G2	136
ECF-S-32L-1A-NW-G2-x	32	1050	4000	106	13,685	B3-U0-G2	130	13,388	B2-U0-G3	127	14,006	B2-U0-G3	133	14,384	B4-U0-G2	136	13,923	B4-U0-G2	132
ECF-S-32L-1.2A-NW-G2-x	32	1200	4000	122	15,180	B3-U0-G3	125	14,851	B2-U0-G3	122	15,537	B2-U0-G3	128	15,956	B4-U0-G2	131	15,443	B4-U0-G2	127
ECF-S-48L-900-NW-G2-x	48	900	4000	135	18,016	B3-U0-G3	133	17,625	B3-U0-G3	130	18,440	B3-U0-G3	136	18,937	B4-U0-G3	140	18,329	B5-U0-G3	136
ECF-S-48L-1A-NW-G2-x	48	1050	4000	159	20,401	B3-U0-G3	129	19,958	B3-U0-G4	126	20,880	B3-U0-G4	132	21,444	B5-U0-G3	135	20,755	B5-U0-G3	131
ECF-S-48L-1.2A-NW-G2-x	48	1200	4000	183	22,647	B3-U0-G3	124	22,156	B3-U0-G4	121	23,179	B3-U0-G4	127	23,806	B5-U0-G3	130	23,040	B5-U0-G3	126
ECF-S-64L-900-NW-G2-x	64	900	4000	178	23,844	B3-U0-G3	134	23,327	B3-U0-G4	131	24,405	B3-U0-G4	137	25,063	B5-U0-G3	141	24,258	B5-U0-G4	136
ECF-S-64L-1A-NW-G2-x	64	1050	4000	206	26,863	B3-U0-G3	130	26,280	B3-U0-G4	128	27,495	B3-U0-G4	134	27,526	B5-U0-G3	134	27,330	B5-U0-G4	133

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type AFR			BLC			LCL or RCL		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-NW-G2-x	32	365	4000	40	6,006	B2-U0-G1	150	3,991	B0-U0-G1	101	2,633	B0-U0-G1	67
ECF-S-32L-530-NW-G2-x	32	530	4000	56	7,807	B2-U0-G1	140	5,412	B0-U0-G2	99	3,423	B0-U0-G1	62
ECF-S-32L-700-NW-G2-x	32	700	4000	73	10,070	B2-U0-G2	138	6,930	B0-U0-G2	96	4,415	B0-U0-G1	61
ECF-S-32L-1A-NW-G2-x	32	1050	4000	106	14,176	B3-U0-G2	134	9,756	B1-U0-G2	94	6,229	B0-U0-G2	60
ECF-S-32L-1.2A-NW-G2-x	32	1200	4000	122	15,725	B3-U0-G2	129	10,822	B1-U0-G2	90	6,910	B0-U0-G2	58
ECF-S-48L-900-NW-G2-x	48	900	4000	135	18,664	B3-U0-G2	138	12,843	B1-U0-G2	96	8,200	B0-U0-G2	62
ECF-S-48L-1A-NW-G2-x	48	1050	4000	159	21,133	B3-U0-G2	133	14,544	B1-U0-G3	93	9,286	B0-U0-G2	59
ECF-S-48L-1.2A-NW-G2-x	48	1200	4000	183	23,461	B3-U0-G2	128	16,145	B1-U0-G3	90			
ECF-S-64L-900-NW-G2-x	64	900	4000	178	24,700	B3-U0-G2	139	16,998	B1-U0-G3	97	10,853	B0-U0-G2	62
ECF-S-64L-1A-NW-G2-x	64	1050	4000	206	27,828	B4-U0-G3	135	19,150	B1-U0-G3	94			

ECF-S EcoForm small

Area luminaire

5000K LED Wattage and Lumen Values

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4			Type 5			Type 5W		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-CW-G2-x	32	365	5000	40	5,798	B1-U0-G1	145	5,713	B1-U0-G2	143	5,934	B1-U0-G2	148	6,094	B3-U0-G1	152	5,898	B3-U0-G2	147
ECF-S-32L-530-CW-G2-x	32	530	5000	56	7,536	B2-U0-G2	135	7,426	B1-U0-G2	133	7,713	B1-U0-G2	138	7,922	B3-U0-G2	142	7,667	B3-U0-G2	138
ECF-S-32L-700-CW-G2-x	32	700	5000	73	9,720	B2-U0-G2	133	9,509	B2-U0-G2	130	9,949	B2-U0-G2	136	10,218	B4-U0-G2	140	9,889	B4-U0-G2	136
ECF-S-32L-1A-CW-G2-x	32	1050	5000	106	13,685	B3-U0-G2	130	13,388	B2-U0-G3	127	14,006	B2-U0-G3	133	14,384	B4-U0-G2	136	13,923	B4-U0-G2	132
ECF-S-32L-1.2A-CW-G2-x	32	1200	5000	122	15,180	B3-U0-G3	125	14,851	B2-U0-G3	122	15,537	B2-U0-G3	128	15,956	B4-U0-G2	131	15,443	B4-U0-G2	127
ECF-S-48L-900-CW-G2-x	48	900	5000	135	18,016	B3-U0-G3	133	17,625	B3-U0-G3	130	18,440	B3-U0-G3	136	18,937	B4-U0-G3	140	18,329	B5-U0-G3	136
ECF-S-48L-1A-CW-G2-x	48	1050	5000	159	20,401	B3-U0-G3	129	19,958	B3-U0-G4	126	20,880	B3-U0-G4	132	21,444	B5-U0-G3	135	20,755	B5-U0-G3	131
ECF-S-48L-1.2A-CW-G2-x	48	1200	5000	183	22,647	B3-U0-G3	124	22,156	B3-U0-G4	121	23,179	B3-U0-G4	127	23,806	B5-U0-G3	130	23,040	B5-U0-G3	126
ECF-S-64L-900-CW-G2-x	64	900	5000	178	23,844	B3-U0-G3	134	23,327	B3-U0-G4	131	24,405	B3-U0-G4	137	25,063	B5-U0-G3	141	24,258	B5-U0-G4	136
ECF-S-64L-1A-CW-G2-x	64	1050	5000	206	26,863	B3-U0-G3	130	26,280	B3-U0-G4	128	27,495	B3-U0-G4	134	27,526	B5-U0-G3	134	27,330	B5-U0-G4	133

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type AFR			BLC			LCL or RCL		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-CW-G2-x	32	365	5000	40	6,006	B2-U0-G1	150	3,991	B0-U0-G1	101	2,633	B0-U0-G1	67
ECF-S-32L-530-CW-G2-x	32	530	5000	56	7,807	B2-U0-G1	140	5,412	B0-U0-G2	99	3,423	B0-U0-G1	62
ECF-S-32L-700-CW-G2-x	32	700	5000	73	10,070	B2-U0-G2	138	6,930	B0-U0-G2	96	4,415	B0-U0-G1	61
ECF-S-32L-1A-CW-G2-x	32	1050	5000	106	14,176	B3-U0-G2	134	9,756	B1-U0-G2	94	6,229	B0-U0-G2	60
ECF-S-32L-1.2A-CW-G2-x	32	1200	5000	122	15,725	B3-U0-G2	129	10,822	B1-U0-G2	90	6,910	B0-U0-G2	58
ECF-S-48L-900-CW-G2-x	48	900	5000	135	18,664	B3-U0-G2	138	12,843	B1-U0-G2	96	8,200	B0-U0-G2	62
ECF-S-48L-1A-CW-G2-x	48	1050	5000	159	21,133	B3-U0-G2	133	14,544	B1-U0-G3	93	9,286	B0-U0-G2	59
ECF-S-48L-1.2A-CW-G2-x	48	1200	5000	183	23,461	B3-U0-G2	128	16,145	B1-U0-G3	90			
ECF-S-64L-900-CW-G2-x	64	900	5000	178	24,700	B3-U0-G2	139	16,998	B1-U0-G3	97	10,853	B0-U0-G2	62
ECF-S-64L-1A-CW-G2-x	64	1050	5000	206	27,828	B4-U0-G3	135	19,150	B1-U0-G3	94			

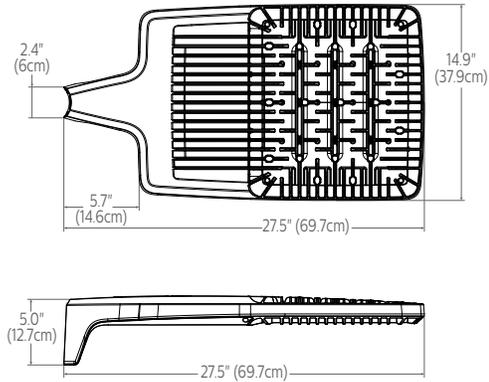
ECF-S EcoForm small

Area lumineuse

Dimensions

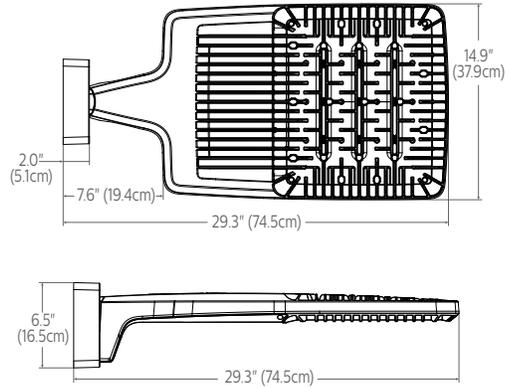
Standard Arm (AR)

Weight: 22 Lbs (9.9 Kg) EPA: 0.21ft² (.019m²)



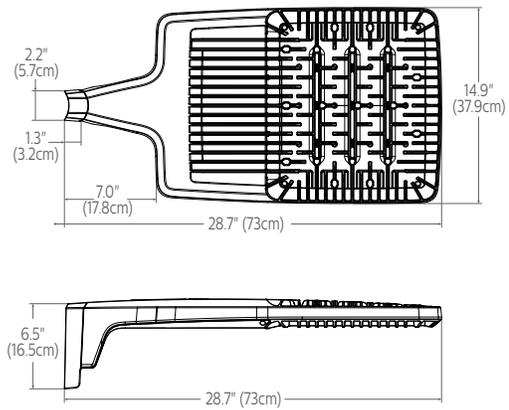
Wall (WS)

Weight: 27 Lbs. (12. 2Kg)EPA: 0.27ft² (.025m²)



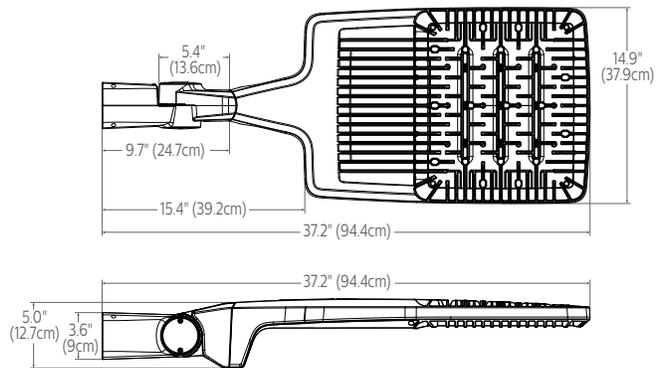
Retrofit Arm (RAM)

Weight: 24 Lbs (10.9 Kg) EPA: 0.24ft² (.022m²)

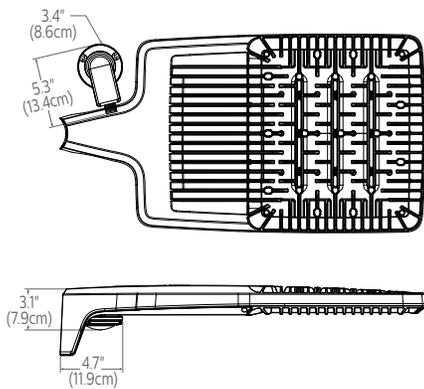


Slip fitter (SF)

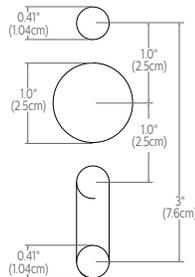
Weight: 27 Lbs (12.2 Kg) EPA: 0.33ft² (.031m²)



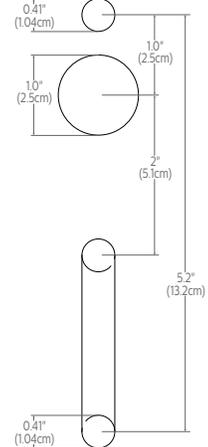
Outboard IMR-HVU sensor



Standard Arm (AR) drill pattern



Retrofit Arm (RAM) drill pattern



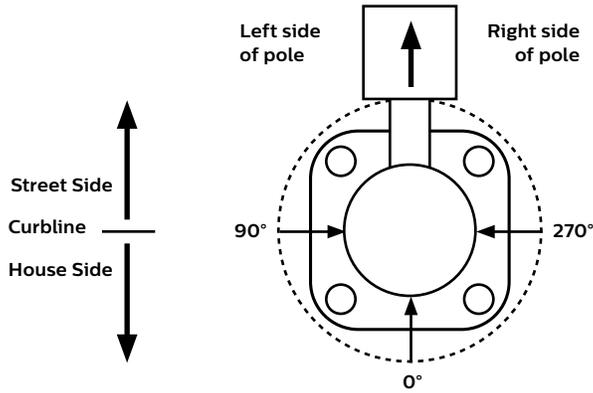
ECF-S EcoForm small

Area luminaire

Optical Orientation Information

Standard Optic Position

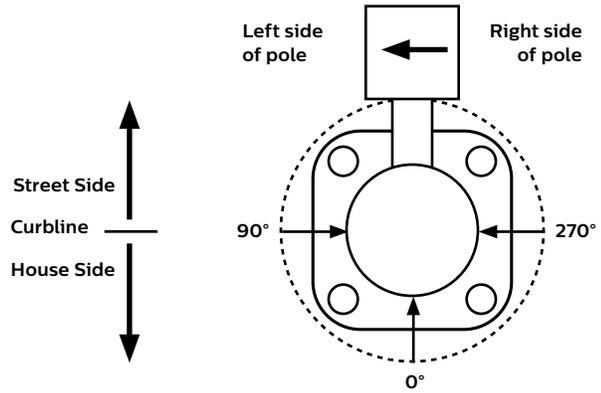
Luminaires ordered with asymmetric optical systems in the standard optic position will have the optical system oriented as shown below:



Note: The hand hole will normally be located on the pole at the 0° point.

Optic Rotated Left (90°) Optic Position

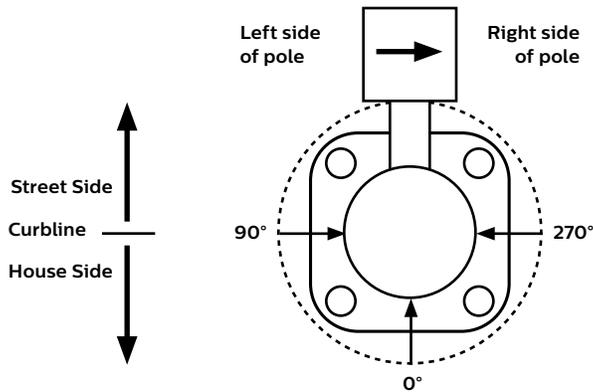
Luminaires ordered with optical systems in the Optic Rotated Left (90°) optic position will have the optical system oriented as shown below (Type 5 and 5W optics are not available with factory set rotatable optics):



Note: The hand hole will normally be located on the pole at the 0° point.

Optic Rotated Right (270°) Optic Position

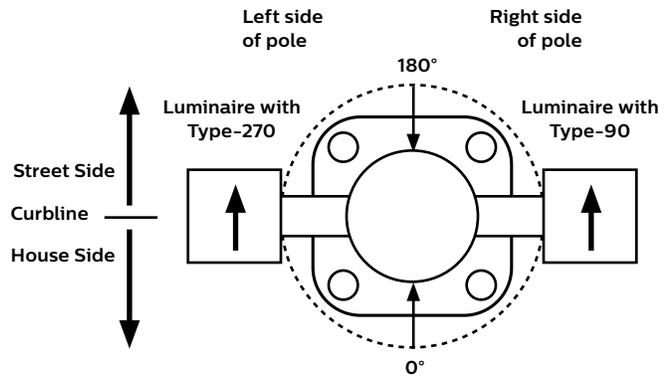
Luminaires ordered with optical systems in the Optic Rotated Right (270°) optic position will have the optical system oriented as shown below (Type 5 and 5W optics are not available with factory set rotatable optics):



Note: The hand hole will normally be located on the pole at the 0° point.

Twin Luminaire Assemblies with Type-90/Type-270 Rotated Optical Systems

Twin luminaire assemblies installed with rotated optical systems are an excellent way to direct light toward the interior of the site (Street Side) without additional equipment. It is important, however, that care be exercised to insure that luminaires are installed in the proper location.



Luminaires with Optic Rotated Right (270°) are installed on the LEFT Side of Pole

Luminaires with Optic Rotated Left (90°) are installed on the RIGHT Side of Pole

Note: The hand hole location will depend on the drilling configuration ordered for the pole.

ECF-S EcoForm small

Area luminaire

Specifications

Housing

One-piece die cast aluminum housing with integral arm and separate, self-retained hinged, one-piece die cast door frame. Luminaire housing rated to IP65, tested in accordance to Section 9 of IEC 60598-1.

Vibration resistance

Luminaire is tested and rated 3G over 100,000 cycles conforming to standards set forth by ANSI C136.31-2018. Testing includes vibration in three axes, all performed on the same luminaire.

Light engine

Light engine comprises of a module of 16-LED aluminum metal clad board fully sealed with optics offered in multiples of 2, 3, and 4 modules or 32, 48, and 64 LEDs. Module is RoHS compliant. Color temperatures: 3000K +/-125K, 4000K, 5000K +/- 200K. Minimum CRI of 70. LED light engine is rated IP66 in accordance to Section 9 of IEC 60598-1.

Energy saving benefits

System efficacy up to 152 lms/W with significant energy savings over Pulse Start Metal Halide luminaires. Optional control options provide added energy savings during unoccupied periods.

Optical systems

Type 2, 3, 4, 5, 5W, and AFR distributions available. Internal Shield option mounts to LED optics and is available with Type 2, 3, 4, and AFR distributions, including a dedicated BLC, LCL, and RCL optics to provide the best backlight control possible for those stringent requirements around property lines. Types 2, 3, 4, AFR, and BLC when specified and used as rotated, are factory set only. Performance tested per LM-79 and TM-15 (IESNA) certifying its photometric performance. Luminaire designed with 0% uplight (U0 per IESNA TM-15).

Mounting

Standard luminaire arm mounts to 4" O.D. round poles. Can also be used with 5" O.D. poles. Square pole adapter included with every luminaire. Round Pole Adapter (RPA) required for 3-3.9" poles. EcoForm features a retrofit arm kit. When specified with the retrofit arm (RAM) option, EcoForm seamlessly simplifies site conversions to LED by eliminating the need for additional pole drilling on most existing poles. RAM will be boxed separately. Also optional are slipfitter and wall mounting accessories. Note that only fixed mounts (AR, RAM, WS) are required to meet IDA compliance. SF mounting will not meet IDA.

Control options

0-10V dimming (DD): Access to 0-10V dimming leads supplied through back of luminaire (for secondary dimming controls by others). Cannot be used with other control options.

Dual Circuit Control (DCC): Luminaire equipped with the ability to have two separate circuits controlling drivers and light engines independently. Permits separate switching of separate modules controlled by use of two sets of leads, one for each circuit. Not recommended to be used with other control options, motion response, or photocells.

Sensor Ready Zhaga Socket Connector (SRDR): Product equipped with Sensor Ready drivers connected to 4-pin Zhaga Book 18 compliant receptacle designed for sensor and other control system applications. Receptacle is rated IP66 assembly in a compact design that provides a sealed electrical interface and rated UV resistance, mounted on underside of the luminaire, protective dust cap included. When a controller not provided by Signify is used with Sensor Ready Zhaga socket connector, the controller must be certified to work with the Xitanium SR LED drivers as part of the SR certified program. SRDR can be used with NEMA 7-pin twist lock receptacle, which is mounted on top of the luminaire.

Automatic Profile Dimming (CS/CM/CE/CA): Standard dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with not programmed motion response it overrides the controller's schedule when motion is detected. After 5 minutes with no motion, it will return to the automatic dimming profile schedule. Automatic dimming profile scheduled with the following settings:

- **CS50/CS30:** Security for 7 hours night duration (Ex., 11 PM - 6 AM)
- **CM50/CM30:** Median for 8 hours night duration (Ex., 10 PM - 6 AM)

All above profiles are calculated from mid point of the night. Dimming is set for 6 hours after the mid point and 1 or 2 hours before depending of the duration of dimming. Cannot be used with other dimming control options.

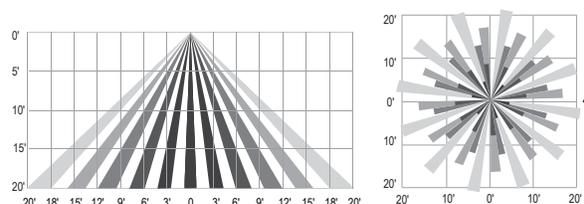
Field Adjustable Wattage Selector (FAWS): Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position at the lumen output selected. Use chart below to estimate reduction in lumen output desired. Cannot be used with other control options or motion response.

FAWS Position	Percent of Typical Lumen Output
1	25%
2	50%
3	55%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

Note: Typical value accuracy +/- 5%

Wireless system (LLC): Optional wireless controller integral to luminaire ready to be connected to a Lighthouse system (sold by others). The system allows you to wirelessly manage the entire site, independent lighting groups or individual luminaires while on-site or remotely. Based on a high-density mesh network with an easy to use web-based portal, you can conveniently access, monitor and manage your lighting network remotely. Wireless controls can be combined with site and area, pedestrian, and parking garage luminaires as well, for a completely connected outdoor solution. Equipped with motion response with #3 lens for 8-25' mounting heights. Also available with remote pod accessory where pod is mounted separate from luminaire to pole or wall.

LLC wireless controller with #3 lens



Motion response options

Bi-Level Infrared Motion Response (BL-IMRI): Motion Response module is mounted integral to luminaire factory pre-programmed to 50% dimming when not ordered with other control options. BL-IMRI is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to full power/light output. Dimming on low is factory set to 50% with 5 minutes default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50%, to 50% of the normal constant wattage reducing the light level. Other dimming settings can be provided if different dimming levels are required. This can also be done with FSIR-100 Wireless Remote Programming Tool (contact Technical Support for details).

Infrared Motion Response with Other Controls: When used in combination with other controls (Automatic Dimming Profile), motion response device will simply override controller's schedule with the added benefits of a combined dimming profile and sensor detection. In this configuration, the motion response device cannot be re-programmed with FSIR-100 Wireless Remote Programming Tool. The profile can only be re-programmed via the controller.

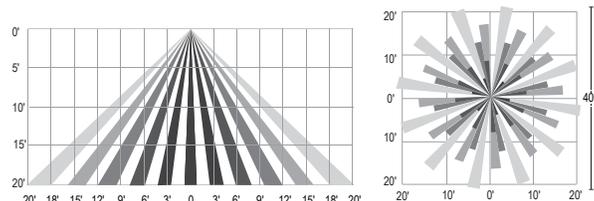
ECF-S EcoForm small

Area luminaire

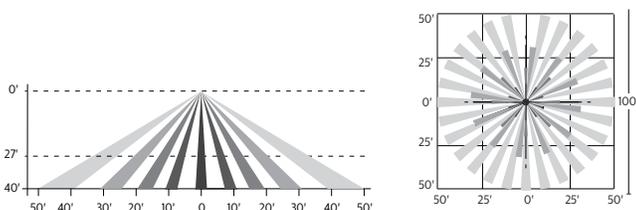
Specifications

Infrared Motion Response Lenses (IMRI3/IMRI7): Infrared Motion Response Integral module is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges. Lens #3 (IMRI3) is designed for mounting heights up to 20' with a 40' diameter coverage area. Lens #7 is designed for higher mounting heights up to 40' with larger coverage areas up to 100' diameter coverage area. See charts for approximate detection patterns:

IMRI3 Luminaire or remote mount controller with #3 lens



IMRI7 Luminaire or remote mount controller with #7 lens



Electrical

Twist-Lock Receptacle (TLRD5/TLRD7/ TLRPC): Twist Lock Receptacle with 5 pins enabling dimming or with 7 pins with additional functionality (by others) can be used with a twistlock photoelectric cell or a shorting cap. Dimming Receptacle Type B (5-pin) and Type D-24 (7-pin) in accordance to ANSI C136.41. Can be used with third-party control system. Receptacle located on top of luminaire housing. When specifying receptacle with twistlock photoelectric cell, voltage must be specified. When ordering 7-pin Twist-lock receptacle (TLRD7), all 7 pins are wired to respective pins with the Sensor Ready (SR) driver, and photocell or shorting cap is not included. When ordering a twist-lock receptacle with a photocell (TLRPC), the receptacle used is a 5-pin receptacle, so pins 6 and 7 are not available (no SR driver). 0-10V dimming leads (pins 4 and 5) are connected if not ordered with any other dimming option.

Buy American Act of 1933 (BAA):

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit www.signify.com/baa to view a current list of BAA-compliant products to confirm this product's current compliance.

Driver: Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. All drivers are 0-10V dimming to 10% power standard, except when using Sensor Ready (SR) drivers, which uses DALI protocol (options CS50/CM50/CS30/CM30, SRDR, and TR7). Drivers are RoHS and FCC Title 47 CFR Part 15 compliant.

Button Photocontrol (PCB): Button style design for internal luminaires mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light.

Surge protection (SP1/SP2): Surge protection device tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with DOE MSSLC Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High test level 10kV/10kA, 20kV / 10kA surge protection device that provides extra protection beyond the SP1 10kV/10kA level.

Listings

UL/cUL wet location listed to the UL 1598 standard, suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). Most EcoForm configurations are qualified under Premium and Standard DesignLights Consortium® categories. Consult DLC Qualified Products list to confirm your specific luminaire selection is approved. CCTs 3000K and warmer are Dark Sky Approved.

Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult factory for specs on optional or custom colors.

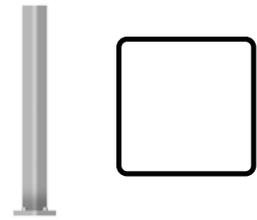
Service Tag

Each individual luminaire is uniquely identifiable, thanks to the Service tag application. With a simple scan of a QR code, placed on the inside of the mast door, you gain instant access to the luminaire configuration, making installation and maintenance operations faster and easier, no matter what stage of the luminaire's lifetime. Just download the APP and register your product right away. For more details visit: signify.com

Warranty

EcoForm luminaires feature a 5-year limited warranty. See signify.com/warranties for complete details and exclusions.





Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Notes: _____

The **Gardco SSS Straight Square Steel** pole consists of a one-piece high tensile carbon steel tube welded and secured to the carbon steel base plate providing excellent strength and integrity. The poles are finished with an electrostatically applied, thermally cured polyester powdercoat. All poles include base cover, hand hole, ground lug and top cap. Anchor bolts and templates are ordered as a separate accessory.

Ordering guide

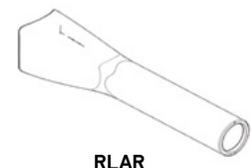
example: SSS-CB-4-11-12-D1-DT1-BK-FES

Family	Base	Pole Shaft Size (in.)	Pole Gauge/Wall Thickness	Height (ft) ⁵	Drilling/Tenon Configurations ¹	Drilling Template ²	Finish	Options ³
SSS	CB	4	11	14	D1	DT5	FINI	
SSS	CB Carbon Steel Base w/ Base Cover	4	11 11 ga. / 0.120"	10 12 14 15 16 18 20 25	D1 1 Way D1@180 1 Way @ 180 D2 2 Way @ 180 D2@90 2 Way @ 90 D3 3 Way @ 90 D4 4 Way @ 90	DT1 Drill Template 1 DT2 Drill Template 2 DT3 Drill Template 3 DT4 Drill Template 4 DT5 Drill Template 5 DT6 Drill Template 6 [DTX-xxx] ^{6,7} Custom Template See drill template chart for details.	BK Black BZ Bronze WH White DG Dark Grey MG Medium Grey GY3 ⁸ Light Grey, Smooth	FES ⁶ Festoon Outlet VDA Vibration Dampener AHH ⁶ Additional Hand Hole DR ^{6,8} Duplex Receptacle VPA Vandalproof Screws GFI ^{6,8} DR with GFI (120V only) BAC ⁹ Buy American Compliant CL1/2 ⁶ Coupling 1/2" CL3/4 ⁶ Coupling 3/4" CL1 ⁶ Coupling 1" CL1-1/4 ⁶ Coupling 1-1/4" CL1-1/2 ⁶ Coupling 1-1/2" NL1/2 ⁶ Nipple 1/2" NL3/4 ⁶ Nipple 3/4" NL1 ⁶ Nipple 1" NL1-1/4 ⁶ Nipple 1-1/4" NL1-1/2 ⁶ Nipple 1-1/2"
			7 7 ga. / 0.180"	20 25 30			SSDGY ⁸ SolarForm Dark Grey (RAL 7011) GV Galvanized (No Paint) FP/GV Finished Textured Paint over Galvanized (Specify, ex: MG/GV) OC Optional Color Paint (ex: RAL7024) SC ⁶ Special/ Custom Color (Specify, must supply color chip)	
		5	11 11 ga. / 0.120"	20 25 30	T2D4L 2-3/8" OD x 4" length T2D6L ⁸ 2-3/8" OD x 6" length T3D4L 3" OD x 4" length T4D6L 4" OD x 6" length	N No Drilling Template (for Tenon and Plain Top Options)		
			7 7 ga. / 0.180"	20 25 30 35				
L/SSS		6	7 7 ga. / 0.180"	30 35 40	No Drilling/No Tenon P Plain Top			

- See Drilling Configurations on Page 3.
- See Luminaire Drilling Templates on Page 3
- Not all options available with all configurations. Consult factory for more details
- Options listed with *gray text* will be shipped with the Legacy SSS design. Use the L/SSS family code whenever these options are specified.
- Pole heights can be cut to length. Specify as a whole number in ft. (ex. 11, 13) or to the inch as a decimal (ex. 15.33 = 15' 4") or as "15FT 4IN" for Legacy designs.
- Option must be specified, including install location, by the customer before order release. FES, DR, GFI, AHH options typically must be placed 12-18" away from standard hand hole (20" or 12" above base).
- Custom drill templates (DTX) require factory quote.
- Option not available with Legacy SSS designs.
- Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.
- Consult Signify to confirm whether specific accessories are BAA-compliant.

Accessories ¹⁰

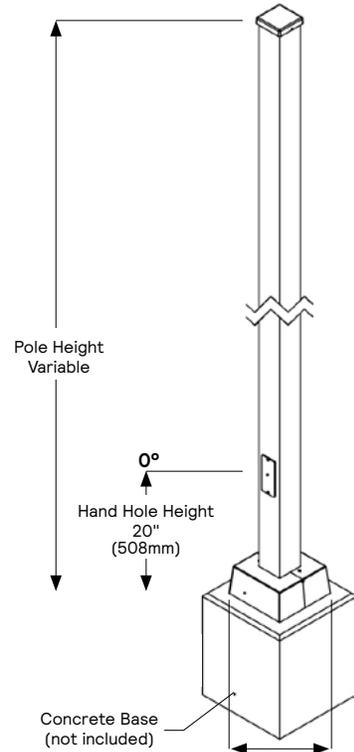
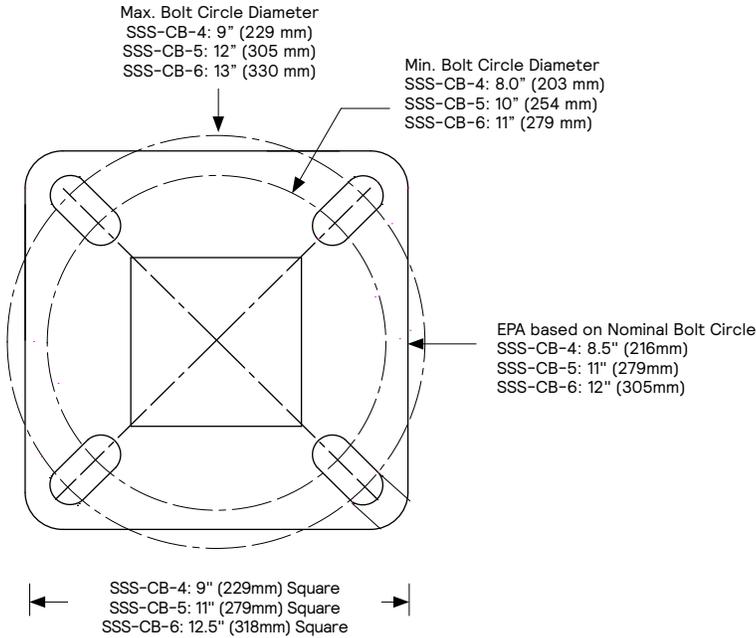
Service	Pole Size	12NC	Description (Diameter x Length x Hook)
Anchor Bolts + Templates			
For shipment with the pole (order 1 per pole)	4" Poles	912401597397	AB 3/4x24x3-G DEC w/ 8.5 BC ABT
	5" Poles	912401613107	AB 1x33x3-G DEC w/ 11 BC ABT
	6" Poles	912401597401	AB 1x33x3-G DEC w/ 12 BC ABT
For Pre-Ship service (order 1 per pole)	4" Poles	912401597405	AB 3/4x24x3-G DEC w/ 8.5 BC ABT-RS
	5" Poles	912401613106	AB 1x33x3-G DEC w/ 11 BC ABT-RS
	6" Poles	912401597408	AB 1x33x3-G DEC w/ 12 BC ABT-RS
Part No.	Description		
RLAR-1A-SQ4+ -(finish)	Cast aluminum mounting arm, 15" long with DT6 drill pattern (order 1 per luminaire). For use with Lumec Roadway and Gardco SolarForm Luminaires (for SolarForm: use RLAR bracket to mount horizontally, use T2D6L tenon to mount vertically). Specify finish to match pole.		



RLAR

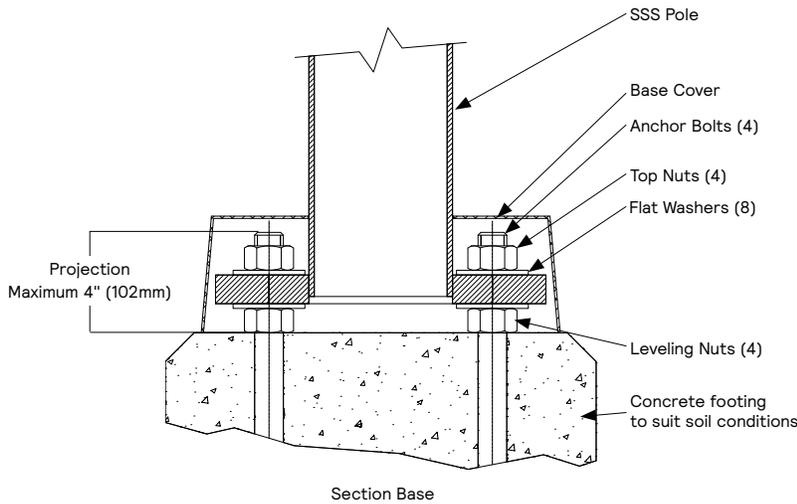
Poles Straight Square Steel

Dimensions



Base Cover Dimensions (L x W x H)
 SSS-CB-4: 9.80" x 9.80" x 4.58" (245mm x 245mm x 116mm)
 SSS-CB-5: 11.80" x 11.80" x 4.58" (300mm x 300mm x 116mm)
 SSS-CB-6: 13.30" x 13.30" x 4.58" (338mm x 338mm x 116mm)

SSS Legacy Design not shown.
Base Cover: Square
Hand Hole: 12" Above Base



* Anchor Bolt Lock Washers are not normally required and are not included in standard anchor bolt sets. They are available upon request at additional cost.

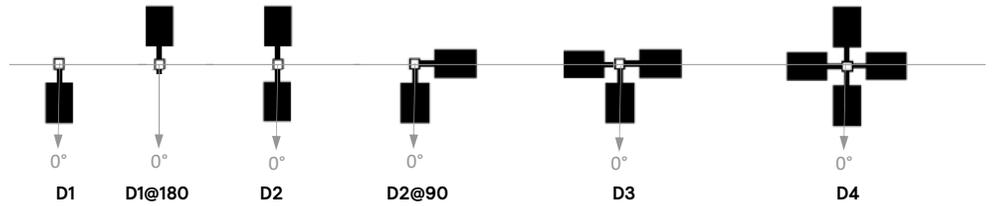
** Grouting should include a drainage slot or tube (by others) to permit water to drain from the base of the pole. Failure to provide drainage may weaken the pole base structure over time and may result in pole base failure, for which Gardco is not responsible.

NOTE: Factory supplied template must be used when setting anchor bolts. Gardco will not honor any claim for incorrect anchorage placement from failure to use factory supplied templates.

Poles Straight Square Steel

Drilling Configuration

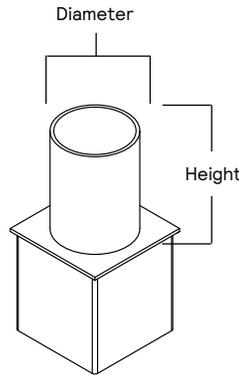
Code	Description
D1	Single luminaire
D1@180	Single luminaire @ 180
D2	Two luminaires @ 180
D2@90	Two luminaires @ 90
D3	Three luminaires @ 90
D4	Four luminaires @ 90



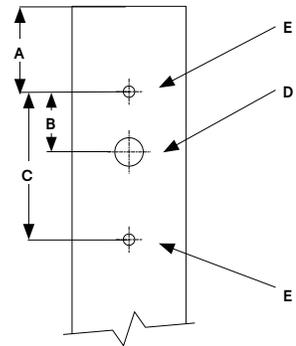
Ref. access door at 0° for all
Legacy design places access door at 180°

Tenon Dimensions

Tenon	Diameter	Height
T2D4L	2.375" (60mm)	4" (102mm)
T2D6L	2.375" (60mm)	6" (152mm)
T3D4L	3" (76mm)	4" (102mm)
T4D6L	4" (102mm)	6" (152mm)



Pole Top Drilling



Luminaire Drill Pattern

Code	Description	Luminaires	Pole Drilling				
			A To Pole Top	B	C Full Extent	D Wireway Hole	E Bolt Hole
DT1	Drill Template 1	Gardco SlenderForm Round SFRA	2.25" (57mm)	1.5" (38.1mm)	3" (76mm)	0.875" (22.2mm)	0.40" (10.2mm)
DT2	Drill Template 2	Gardco SlenderForm Square - SFA Gardco Gullwing - GL13, GL18 Gardco Form Ten - EH14L, EH19L, CAL17, CAL22, MAL17, MAL22	2.25" (57mm)	2.17" (55mm)	3.84" (98mm)	0.875" (22.2mm)	0.39" (9.9mm)
DT3	Drill Template 3	Gardco PowerForm PFAS	2.25" (57mm)	1.75" (44mm)	3.84" (98mm)	0.875" (22.2mm)	0.41" (10.4mm)
DT4	Drill Template 4	Gen1 Stonco/Keene AL150-G1, AL200-G1	2.5" (64mm)	1.7" (43mm)	3.5" (89mm)	0.875" (22.2mm)	0.41" (10.4mm)
DT5	Drill Template 5	Gardco EcoForm Gen2 - ECF-S, ECF-L Gardco PureForm Gen2 - P15, P20, P26, P34	3" (76mm)	1" (25mm)	3" (76mm)	1" (25mm)	0.41" (10.4mm)
DT6	Drill Template 6	Hole pattern drilled for the following: Gen2 Stonco/Keene AL70-G2 and AL150-G2, or to attach RLAR bracket accessory, suitable for use with: Lumec Capella CPLM, CPLS Lumec RoadStar GPLM, GPLS Lumec RoadFocus RFS, RFM, RFL Lumec RoadView RVM, RVS Lumec MiniView SVS Lumec StreetView SVM Gardco SolarForm BRP710	2.5" (64mm)	1" (25mm)	2" (50mm)	0.875" (22mm)	0.5" (12.7mm)

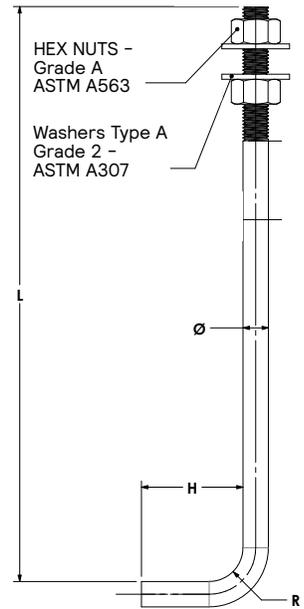
Poles Straight Square Steel

Pole Data

Product Catalog Number	Pole Specs				Anchor Bolt Data			
	Height (ft.)	Pole Diameter (in.)	Wall Thickness (in.)	Pole Weight (lbs)	Bolt Circle (in.)	Anchor Bolt Spec (in.)	Legacy Anchor Bolt Spec (in.)	Anchor Bolt Max Proj. (in.)
SSS-CB-4-11-10	10	4	0.12	63	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-12	12	4	0.12	76	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-14	14	4	0.12	88	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-15	15	4	0.12	94	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-16	16	4	0.12	101	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-18	18	4	0.12	113	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-20	20	4	0.12	126	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-25	25	4	0.12	157	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-7-20	20	4	0.18	185	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-7-25	25	4	0.18	232	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
● SSS-CB-4-7-30	30	4	0.18	278	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-5-11-20	20	5	0.12	158	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
SSS-CB-5-11-25	25	5	0.12	197	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
● SSS-CB-5-11-30	30	5	0.12	237	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
SSS-CB-5-7-20	20	5	0.18	234	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
SSS-CB-5-7-25	25	5	0.18	292	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
● SSS-CB-5-7-30	30	5	0.18	350	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
● SSS-CB-5-7-35	35	5	0.18	409	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
● SSS-CB-6-7-30	30	6	0.18	423	12 (+/- 1)	1 x 33 x 3	1 x 33 x 3	4
● SSS-CB-6-7-35	35	6	0.18	493	12 (+/- 1)	1 x 33 x 3	1 x 33 x 3	4
● SSS-CB-6-7-40	40	6	0.18	564	12 (+/- 1)	1 x 33 x 3	1 x 33 x 3	4

● SSS Legacy Design

Standard Anchor Bolt



Pole Data (cont.)

Product Catalog Number	AASHTO 2001 - EPA ft ²								CSA - EPA ft ²							
	80 MPH	90 MPH	100 MPH	110 MPH	120 MPH	130 MPH	140 MPH	150 MPH	300 Pa 79 MPH	400 Pa 91 MPH	500 Pa 102 MPH	600 Pa 111 MPH	700 Pa 120 MPH	800 Pa 129 MPH	900 Pa 136 MPH	1000 Pa 144 MPH
SSS-CB-4-11-10	30.00	26.82	21.25	17.13	13.99	11.55	9.62	8.07	30.00	27.03	21.10	17.15	14.34	12.23	10.59	9.27
SSS-CB-4-11-12	28.31	21.72	17.04	13.55	10.88	8.83	7.19	5.88	30.00	21.74	16.76	13.44	11.08	9.30	7.92	6.82
SSS-CB-4-11-14	23.54	17.83	13.77	10.77	8.48	6.69	5.26	4.15	24.79	17.66	13.40	10.53	8.51	6.98	5.79	4.85
SSS-CB-4-11-15	21.53	16.22	12.41	9.57	7.43	5.76	4.44	3.36	22.58	15.92	11.94	9.30	7.40	5.96	4.87	3.97
SSS-CB-4-11-16	19.70	14.69	11.12	8.48	6.47	4.91	3.65	2.66	20.58	14.37	10.65	8.16	6.37	5.05	4.03	3.19
SSS-CB-4-11-18	16.19	11.82	8.72	6.43	4.67	3.30	2.21	1.33	17.07	11.59	8.31	6.12	4.56	3.38	2.47	1.74
SSS-CB-4-11-20	13.29	9.46	6.72	4.67	3.13	1.92	N/A	N/A	14.07	9.20	6.29	4.34	2.95	1.90	1.10	N/A
SSS-CB-4-11-25	7.78	4.86	2.78	1.22	N/A	N/A	N/A	N/A	7.95	4.26	2.06	N/A	N/A	N/A	N/A	N/A
SSS-CB-4-7-20	22.23	16.63	12.62	9.65	7.40	5.65	4.26	3.15	23.05	15.94	11.67	8.83	6.78	5.26	4.09	3.15
SSS-CB-4-7-25	14.87	10.59	7.54	5.28	3.56	2.23	1.16	N/A	14.83	9.42	6.17	4.01	2.46	1.31	N/A	N/A
● SSS-CB-4-7-30	9.63	6.25	3.82	2.01	N/A	N/A	N/A	N/A	8.36	4.20	1.72	N/A	N/A	N/A	N/A	N/A
SSS-CB-5-11-20	22.64	16.51	12.13	8.89	6.43	4.51	2.99	1.76	24.95	17.04	12.29	9.10	6.84	5.14	3.82	2.76
SSS-CB-5-11-25	14.32	9.62	6.25	3.79	1.90	N/A	N/A	N/A	16.16	10.00	6.29	3.83	2.06	N/A	N/A	N/A
● SSS-CB-5-11-30	8.28	4.53	1.86	N/A	N/A	N/A	N/A	N/A	9.30	4.42	1.48	N/A	N/A	N/A	N/A	N/A
SSS-CB-5-7-20	30.00	27.78	21.37	16.63	13.01	10.21	7.97	6.17	30.00	28.15	21.16	16.51	13.19	10.71	8.77	7.21
SSS-CB-5-7-25	25.42	18.54	13.62	9.97	7.19	5.05	3.34	1.98	27.74	18.68	13.23	9.61	7.02	5.08	3.56	2.37
● SSS-CB-5-7-30	17.45	11.94	8.01	5.08	2.88	1.16	N/A	N/A	18.54	11.33	7.02	4.12	2.07	N/A	N/A	N/A
● SSS-CB-5-7-35	11.37	6.84	3.62	1.22	N/A	N/A	N/A	N/A	10.73	5.08	1.70	N/A	N/A	N/A	N/A	N/A
● SSS-CB-6-7-30	27.54	19.44	13.66	9.38	6.14	3.59	1.57	N/A	30.00	20.55	13.99	9.59	6.47	4.11	2.27	N/A
● SSS-CB-6-7-35	19.06	12.39	7.60	4.05	1.36	N/A	N/A	N/A	21.06	12.23	6.96	3.42	N/A	N/A	N/A	N/A
● SSS-CB-6-7-40	12.29	6.64	2.60	N/A	N/A	N/A	N/A	N/A	12.21	5.17	N/A	N/A	N/A	N/A	N/A	N/A

- Warning:** Additional wind loading, in terms of EPA, from banners, cameras, floodlights and other accessories attached to the pole, must be added to the luminaire(s) EPA before selecting the pole with the appropriate wind load capability. Specifying BAA or BAC compliant poles may result in different EPA ratings.
- Factory supplied template must be used when setting anchor bolts. Gardco will not honor any claim for incorrect anchorage placement resulting from failure to use factory supplied templates. Exact length of anchor bolts may vary.
- EPA ratings are based on the listed, optimal midpoint of the bolt circle. The bolt circle has limited variability but the EPA rating will change.

NOTE: Above EPA (Effective Projected Area) rating is in accordance with AASHTO 2001, with a 50 pound load (22.7 kg) placed at 1 foot (305mm) above its center.

Poles Straight Square Steel

Specifications

Pole shaft

The pole shaft is fabricated from a single piece of 11 ga (0.1196") or 7 ga (0.180") high tensile carbon steel. The formed steel plate is longitudinally welded providing minimum yield strength of 50 ksi. Shaft includes factory installed copper ground lug, 10-7 copper wire, and ground lug screw.

Anchor Base

The pole anchor base is fabricated from 44W structural quality carbon steel with a minimum yield strength of 44 ksi. The base plate is circumferentially welded on both top and bottom.

Anchor Bolts

Anchor bolts are fabricated from a commercial quality hot rolled carbon steel bar that meets or exceeds a minimum guaranteed yield strength of 55 ksi. Bolts have an "L" bend on one end and threaded on the opposite end. Anchor bolts are galvanized in accordance with ASTM A-153.6 C1.C. Four (4) properly sized bolts, each furnished with two (2) regular hex nuts and two (2) flat washers, are provided per pole (priced and ordered separately), unless otherwise specified. Conforms to AASHTO M 314 90 and ASTM F1554.

Customer Specified Options

The options, DTX, FES, DR, GFI, AHH, CL*, and NL* require factory quotation. Poles with custom drilling templates (DTX) are provided as a service, however Signify holds no liability for improper installation and safety when using non-Signify luminaires or attachments on Gardco poles via drilling, tenon mounting, or coupling and nipple mounting. It is the responsibility of the customer to ensure the pole is loaded and installed in a safe manner to the limitations of the pole structure. See "Warning" paragraph for more details.

Base Cover

A two-piece painted square aluminum base cover that completely conceals the entire base plate and anchorage. Base cover is provided standard. Legacy design is provided with a composite base cover.

Hand hole

The hand hole has a nominal rectangular 2"x4.5" inside opening in the pole shaft. Included is an aluminum cover plate, EPDM gasket, and captive attachment screws. The hand hole is located 20" above the base and 0° clockwise with respect to the luminaire arm when viewed from the top of the pole for one arm. For two arms the hand hole is located directly under one arm. Legacy design includes an easy to install, self-contained Swing Latch hand hole cover assembly. U.S. Patent Swing Latch cover is fabricated from durable polycarbonate/ABS blend plastic. All pole assemblies are provided with a 2.50" x 5.00" rectangular hand hole.

Pole Top Cap

Each pole assembly is provided with a removable aluminum pole top cap painted to match the specified pole and attached with two pressure screws. Legacy design is provided with a removable plastic top push cap. Finish is Black.

Finish

Poles are available with Gardco's standard textured color finishes - Black, White, Bronze, Dark Grey, Medium Grey, and Lumec GY3 for a match with roadway luminaire finishes. Optional Galvanized finish and custom colors also available. Legacy design is provided with gloss paint on standard finishes.

Couplings and Nipples

Couplings (NPSC standard internal threads) and Nipples (NPT standard external threads) are available to mount 3rd party objects to the pole. For most applications Couplings and Nipples must be at least 4' from the base of the pole. Lengths are as follows:

Couplings < 1" dia. = 1" length
Couplings >= 1" dia. = 1.5" length
Nipples < 1" dia. = 1.5" length
Nipples >= 1" dia. = 2" length

Legacy pole designs may deviate from specifications listed here. See "Customer Specified Options" paragraph for more details.

Duplex Receptacle (DR and GFI)

DR and GFI options are placed at 2' below the pole top on the same side as the hand hole unless otherwise specified. DR or GFI options cannot be placed within 1' of the the hand hole. Options can typically be placed 32" above base for utility purposes. Maximum output of the receptacles are 15A.

General Pole Information

Design

EPA specs conform to AASHTO 2001 standard. The poles as charted are designed to withstand dead loads and predicted dynamic loads developed by variable wind pressure with an additional 2.5 gust factor under the following conditions: The charted weights include luminaire(s) and/or mounting bracket(s). Poles installed in areas of known abnormal conditions may require special consideration. For example: coastal areas, airports and areas of special winds. Poles are designed for ground mounted applications. Poles mounted on structures (such as buildings and bridges) may also necessitate special consideration requiring Gardco's recommendation. Height correction factors and drag coefficients are applied to the entire structure. An appropriate safety factor is maintained based on the minimum yield strength of the material incorporated in the pole.

Warning

This design information is intended as a general guideline only. The customer is solely responsible for proper selection of pole, luminaire, accessory and foundation under the given site conditions and intended usage. The addition of any items to the pole, in addition to the luminaire, will dramatically impact the EPA load on that pole. It is strongly recommended that a qualified professional be consulted to analyze the loads given the user's specific needs to ensure proper selection of the pole, luminaire, accessories, and foundation. Gardco assumes no responsibility for such proper analysis or product selections. Failure to ensure proper site analysis, pole selection, loads and installation can result in pole failure, leading to serious injury or property damage.

Warranty

Gardco Steel poles are covered by a 3-year structural and finish warranty. Legacy designs are covered by a 1-year warranty. For more information visit signify.com/warranties





SUNNYDAYZ - GREENFIELD ROAD DEERFIELD, MA SA4M

Gardco EcoForm Gen-2 combines economy with performance in an LED area luminaire. Capable of delivering up to 27,800 lumens or more in a compact, low profile LED luminaire, EcoForm offers a new level of customer value. EcoForm features an innovative retrofit arm kit, simplifying site conversions to LED by eliminating the need to drill additional holes in most existing poles. Integral control systems available for further energy savings. Includes Service Tag, our innovative way to provide assistance throughout the life of the product.

Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Lamps: _____ Qty: _____
 Notes: _____

Ordering guide

example: ECF-S-64L-900-NW-G2-AR-5-120-HIS-MGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution	Voltage	
ECF-S	32L	530	WW-G2	AR	4	VOLT	
ECF-S EcoForm site and area, small	32L 32 LEDs (2 modules)	365 365mA 530 530mA 700 700mA 1A 1050mA 1.2A 1200mA	WW-G2 Warm White 3000K, 70CRI Generation 2 NW-G2 Neutral White 4000K, 70CRI Generation 2 CW-G2 Cool White 5000K, 70CRI Generation 2	AR² Arm Mount (standard) The following mounting kits must be ordered separately (See accessories) SF³ Slip Fitter Mount (fits to 2 3/8" O.D. tenon) WS Wall mount with surface conduit rear entry permitted RAM² Retrofit arm mount kit	Type 2 2 Type 2 2-90 Rotated left 90° 2-270 Rotated right 270° Type 3 3 Type 3 3-90 Rotated left 90° 3-270 Rotated right 270° Type 4 4 Type 4 4-90 Rotated left 90° 4-270 Rotated right 270° Type 5 5 Type 5 5W Type 5W	AFR Auto Front Row AFR-90 Auto Front Row, Rotated left 90° AFR-270 Auto Front Row, Rotated right 270° BLC Back Light Control BLC-90 Back Light Control rotated at 90° BLC-270 Back Light Control rotated at 270° LCL¹⁹ LEED Corner Optic Left RCL¹⁹ LEED Corner Optic Right	120 120V 208 208V 240 240V 277 277V 347 347V 480 480V UNV 120-277V (50/60Hz) HVU 347-480V (50/60Hz)

Options						Finish
Dimming controls	Motion sensing lens	Photo-sensing	Electrical	Luminaire	FINISH	
DD^{4,18} 0-10V External dimming (for controls by others) DCC^{4,5,6,18} Dual Circuit Control FAWS^{4,6,7,8,18} Field Adjustable Wattage Selector LLC^{4,6,7,8,18} Integral wireless module BL^{14,7,18} Bi-level functionality SRDR^{4,5,6,8,17} SR driver connected to Zhaga socket DynaDimmer: Automatic Profile Dimming CS50^{4,8} Safety 50% Dimming, 7 hours CM50^{4,8} Median 50% Dimming, 8 hours CS30^{4,8} Safety 30% Dimming, 7 hours CM30^{4,8} Median 30% Dimming, 8 hours	IMR13¹⁵ Integral with #3 lens IMR17¹⁶ Integral with #7 lens	PCB^{8,9} Photocontrol Button TLRD5^{10,17} Twist Lock Receptacle 5 Pin TLRD7^{10,17} Twist Lock Receptacle 7 Pin TLRPC^{9,10,11,17} Twist Lock Receptacle w/ Photocell	Fusing F1⁹ Single (120, 277, 347VAC) F2⁹ Double (208, 240, 480VAC) Pole Mount Fusing FP1⁹ Single (120, 277, 347VAC) FP2⁹ Double (208, 240, 480VAC) FP3⁹ Canadian Double Pull (208, 240, 480VAC) Surge Protection (10kA standard) SP2 Increased 20kA	Square Pole Adapter included in standard product TB¹² Terminal Block RPA¹³ Round Pole Adapter (fits to 3"- 3.9" O.D. pole) HIS¹⁴ Internal House Side Shield	Textured BK Black WH White BZ Bronze DGY Dark Gray MGY Medium Gray Customer specified RAL Specify optional color or RAL (ex: RAL7024) CC Custom color (Must supply color chip for required factory quote)	

- BL-IMR13/7 equipped with out-boarded sensor housing when voltage is HVU (347-480V)
- Mounts to a 4" round pole with adapter included for square poles.
- Limited to a maximum of 45 degrees aiming above horizontal.
- Not available with other dimming control options.
- Not available with motion sensor.
- Not available with photocontrol.
- Must specify a motion sensor lens.
- Not available in 347 or 480V
- Must specify input voltage.
- TLRD5, TLRD7 and TLRPC receptacle pins 4 & 5 are capped off when ordered with any of the Dimming controls DD or FAWS or LLC.
- Not available in 480V. Order photocell separately with TLRD5/7.
- Not available with DCC.
- Not available with SF and WS. RPAs provided with black finish standard.
- HIS not available with Type 5, 5W, BLC, BLC-90, BLC-270, LCL or RCL optics.
- Not available with DD, DCC, and FAWS dimming control options.
- Not available with DD, DCC, FAWS and LLC dimming control options.
- When ordering SRDR, controller (by others) to be used on socket must be SR compatible (See specifications for more details). Consult factory for lead time. All 7 pins in NEMA receptacle are connected to SR driver. SRDR not available with TLRD5 or TLRPC.
- 0-10V dimming driver standard.
- LCL and RCL not available with 48L-1.2A or 64L-1A.



ECF-S EcoForm small

Area luminaire

EcoForm Accessories²¹ (ordered separately, field installed)

Shielding Accessories

Footnotes

20. Not available with Type 5 or 5W optics
21. Consult Signify to confirm whether specific accessories are BAA-compliant.

House Side shield

Standard optic orientation:

HIS-32-H²⁰ Internal House Side Shield for 32 LEDs (2 modules)

HIS-48-H²⁰ Internal House Side Shield for 48 LEDs (3 modules)

HIS-64-H²⁰ Internal House Side Shield for 64 LEDs (4 modules)

Optic at 90 or 270 orientation:

HIS-32-V²⁰ Internal House Side Shield for 32 LEDs (2 modules)

HIS-48-V²⁰ Internal House Side Shield for 48 LEDs (3 modules)

HIS-64-V²⁰ Internal House Side Shield for 64 LEDs (4 modules)

Luminaire Accessories

ECF-BD-G2	Bird deterrent
ECF-RAM-G2-(F)	Retrofit Arm mount kit
ECF-SF-G2-(F)	Slip Fitter Mount (fits to 2 3/8" O.D. tenon)
ECF-WS-G2-(F)	Wall mount with surface conduit rear entry permitted

EcoForm PTF2
(pole top fitter fits 23/8-21/2" OD x 4" depth tenon)

PTF2-ECF-S/L-1-90-(F)	1 luminaire at 90°
PTF2-ECF-S/L-2-90-(F)	2 luminaires at 90°
PTF2-ECF-S/L-2-180-(F)	2 luminaires at 180°
PTF2-ECF-S/L-3-90-(F)	3 luminaires at 90°
PTF2-ECF-S/L-4-90-(F)	4 luminaires at 90°
PTF2-ECF-S/L-3-120-(F)	3 luminaires at 120°

(F) = Specify finish

EcoForm PTF3
(pole top fitter fits 3-31/2" OD x 6" depth tenon)

PTF3-ECF-S/L-1-90-(F)	1 luminaire at 90°
PTF3-ECF-S/L-2-90-(F)	2 luminaires at 90°
PTF3-ECF-S/L-2-180-(F)	2 luminaires at 180°
PTF3-ECF-S/L-3-90-(F)	3 luminaires at 90°
PTF3-ECF-S/L-4-90-(F)	4 luminaires at 90°
PTF3-ECF-S/L-3-120-(F)	3 luminaires at 120°

EcoForm PTF4
(pole top fitter fits 31/2-4" OD x 6" depth tenon)

PTF4-ECF-S/L-1-90-(F)	1 luminaire at 90°
PTF4-ECF-S/L-2-90-(F)	2 luminaires at 90°
PTF4-ECF-S/L-2-180-(F)	2 luminaires at 180°
PTF4-ECF-S/L-3-90-(F)	3 luminaires at 90°
PTF4-ECF-S/L-4-90-(F)	4 luminaires at 90°
PTF4-ECF-S/L-3-120-(F)	3 luminaires at 120°

Ready to Go configurations (when ordered with the "RS-" catalog code, the following configurations will ship in 2 weeks):

Catalog Number	12NC	Catalog Number	12NC
RS-ECF-S-32L-1A-NW-G2-AR-3-UNV-BZ	912401466002	RS-ECF-S-64L-1A-NW-G2-AR-3-UNV-BK	912401534560
RS-ECF-S-32L-1A-NW-G2-AR-3-UNV-MGY	912401466003	RS-ECF-S-64L-1A-NW-G2-AR-4-UNV-BZ	912401466016
RS-ECF-S-32L-1A-NW-G2-AR-3-UNV-BK	912401534554	RS-ECF-S-64L-1A-NW-G2-AR-4-UNV-MGY	912401466017
RS-ECF-S-32L-1A-NW-G2-AR-4-UNV-BZ	912401466004	RS-ECF-S-64L-1A-NW-G2-AR-4-UNV-BK	912401534561
RS-ECF-S-32L-1A-NW-G2-AR-4-UNV-MGY	912401466005	RS-ECF-S-64L-1A-NW-G2-AR-5-UNV-BZ	912401466018
RS-ECF-S-32L-1A-NW-G2-AR-4-UNV-BK	912401534555	RS-ECF-S-64L-1A-NW-G2-AR-5-UNV-MGY	912401466019
RS-ECF-S-32L-1A-NW-G2-AR-5-UNV-BZ	912401466006	RS-ECF-S-64L-1A-NW-G2-AR-5-UNV-BK	912401534562
RS-ECF-S-32L-1A-NW-G2-AR-5-UNV-MGY	912401466007	RS-ECF-RAM-G2-DGY	912401466487
RS-ECF-S-32L-1A-NW-G2-AR-5-UNV-BK	912401534556	RS-ECF-RAM-G2-MGY	912401466488
RS-ECF-S-48L-1A-NW-G2-AR-3-UNV-BZ	912401466008	RS-ECF-RAM-G2-WH	912401466485
RS-ECF-S-48L-1A-NW-G2-AR-3-UNV-MGY	912401466009	RS-ECF-RAM-G2-BZ	912401466486
RS-ECF-S-48L-1A-NW-G2-AR-3-UNV-BK	912401534557	RS-ECF-RAM-G2-BK	912401466484
RS-ECF-S-48L-1A-NW-G2-AR-4-UNV-BZ	912401466010	RS-HIS-32-H	912401466489
RS-ECF-S-48L-1A-NW-G2-AR-4-UNV-MGY	912401466011	RS-HIS-48-H	912401466491
RS-ECF-S-48L-1A-NW-G2-AR-4-UNV-BK	912401534558	RS-HIS-64-H	912401466493
RS-ECF-S-48L-1A-NW-G2-AR-5-UNV-BZ	912401466012		
RS-ECF-S-48L-1A-NW-G2-AR-5-UNV-MGY	912401466013		
RS-ECF-S-48L-1A-NW-G2-AR-5-UNV-BK	912401534559		
RS-ECF-S-64L-1A-NW-G2-AR-3-UNV-BZ	912401466014		
RS-ECF-S-64L-1A-NW-G2-AR-3-UNV-MGY	912401466015		

ECF-S EcoForm small

Area luminaire

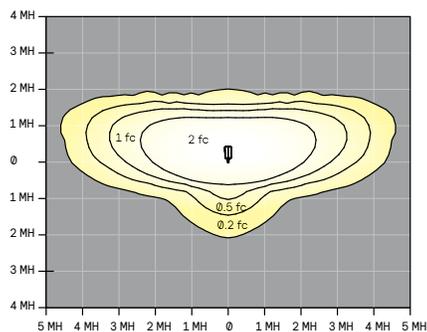
Predicted Lumen Depreciation Data

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L₇₀ is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L₇₀ hours limited to 6 times actual LED test hours

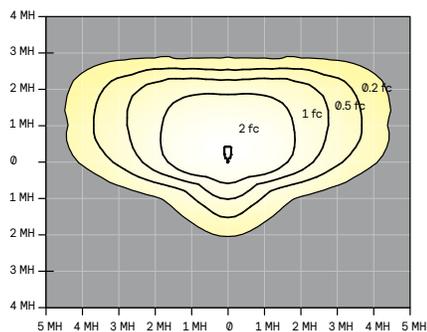
Ambient Temperature °C	Driver mA	Calculated L ₇₀ Hours	L ₇₀ per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	up to 1200 mA	>100,000 hours	>120,000 hours	>99%

Optical Distributions

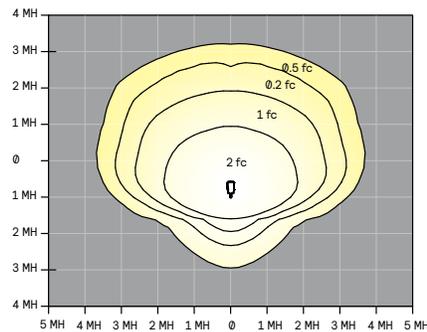
Based on configuration ECF-S-48L-1A-NW-G2 (159W) mounted at 20ft.



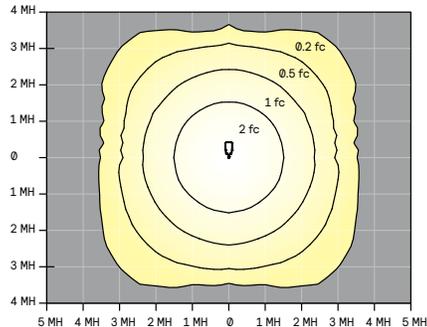
Type 2



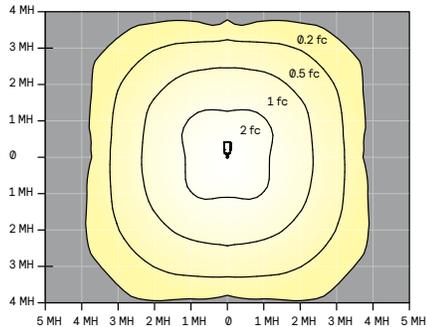
Type 3



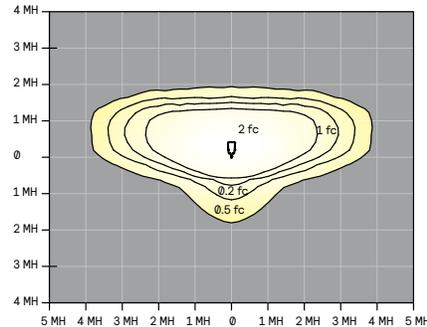
Type 4



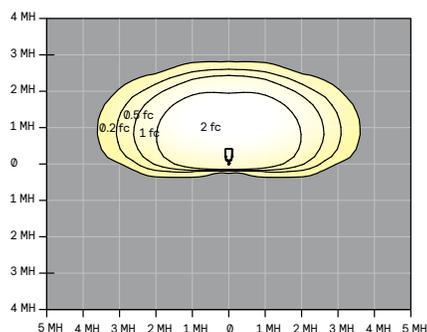
Type 5



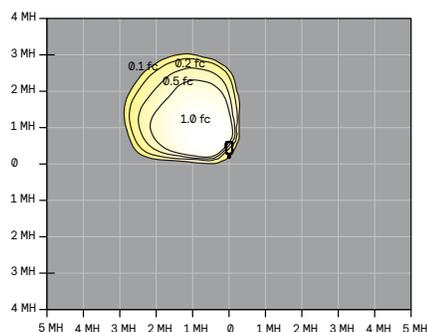
Type 5W



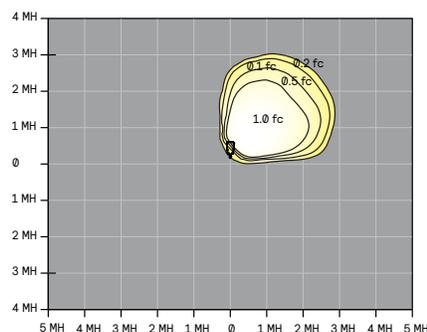
AFR



BLC



LCL



RCL

ECF-S EcoForm small

Area luminaire

3000K LED Wattage and Lumen Values

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4			Type 5			Type 5W		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-WW-G2-x	32	365	3000	40	5,508	B1-U0-G1	138	5,428	B1-U0-G2	136	5,637	B1-U0-G2	141	5,790	B3-U0-G1	145	5,604	B3-U0-G1	140
ECF-S-32L-530-WW-G2-x	32	530	3000	56	7,159	B2-U0-G2	129	7,055	B1-U0-G2	127	7,327	B1-U0-G2	132	7,526	B3-U0-G2	135	7,284	B3-U0-G2	131
ECF-S-32L-700-WW-G2-x	32	700	3000	73	9,234	B2-U0-G2	127	9,034	B2-U0-G2	124	9,452	B2-U0-G2	130	9,707	B4-U0-G2	133	9,395	B4-U0-G2	129
ECF-S-32L-1A-WW-G2-x	32	1050	3000	106	13,001	B3-U0-G2	123	12,719	B2-U0-G2	120	13,306	B2-U0-G3	126	13,665	B4-U0-G2	129	13,227	B4-U0-G2	125
ECF-S-32L-1.2A-WW-G2-x	32	1200	3000	122	14,421	B3-U0-G3	119	14,108	B2-U0-G3	116	14,760	B2-U0-G3	121	15,158	B4-U0-G2	125	14,671	B4-U0-G2	121
ECF-S-48L-900-WW-G2-x	48	900	3000	135	17,115	B3-U0-G3	127	16,744	B3-U0-G3	124	17,518	B2-U0-G3	130	17,990	B4-U0-G2	133	17,413	B5-U0-G3	129
ECF-S-48L-1A-WW-G2-x	48	1050	3000	159	19,381	B3-U0-G3	122	18,960	B3-U0-G3	119	19,836	B3-U0-G4	125	20,372	B5-U0-G3	128	19,717	B5-U0-G3	124
ECF-S-48L-1.2A-WW-G2-x	48	1200	3000	183	21,515	B3-U0-G3	118	21,048	B3-U0-G4	115	22,020	B3-U0-G4	121	22,616	B5-U0-G3	124	21,888	B5-U0-G3	120
ECF-S-64L-900-WW-G2-x	64	900	3000	178	22,652	B3-U0-G3	127	22,161	B3-U0-G4	125	23,185	B3-U0-G4	130	23,810	B5-U0-G3	134	23,045	B5-U0-G3	130
ECF-S-64L-1A-WW-G2-x	64	1050	3000	206	25,520	B3-U0-G3	124	24,966	B3-U0-G4	121	26,120	B3-U0-G4	127	26,150	B5-U0-G3	127	25,964	B5-U0-G4	126

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type AFR			BLC			LCL or RCL		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-WW-G2-x	32	365	3000	40	5,706	B2-U0-G1	143	3,691	B0-U0-G1	94	2,449	B0-U0-G1	62
ECF-S-32L-530-WW-G2-x	32	530	3000	56	7,417	B2-U0-G1	133	5,005	B0-U0-G2	91	3,183	B0-U0-G1	58
ECF-S-32L-700-WW-G2-x	32	700	3000	73	9,567	B2-U0-G2	131	6,409	B0-U0-G2	89	4,106	B0-U0-G1	57
ECF-S-32L-1A-WW-G2-x	32	1050	3000	106	13,467	B3-U0-G2	128	9,024	B1-U0-G2	87	5,793	B0-U0-G2	56
ECF-S-32L-1.2A-WW-G2-x	32	1200	3000	122	14,939	B3-U0-G2	123	10,010	B1-U0-G2	84	6,426	B0-U0-G2	54
ECF-S-48L-900-WW-G2-x	48	900	3000	135	17,731	B3-U0-G2	131	11,880	B1-U0-G2	89	7,626	B0-U0-G2	57
ECF-S-48L-1A-WW-G2-x	48	1050	3000	159	20,076	B3-U0-G2	127	13,453	B1-U0-G2	86	8,636	B0-U0-G2	55
ECF-S-48L-1.2A-WW-G2-x	48	1200	3000	183	22,288	B3-U0-G2	122	14,934	B1-U0-G3	83			
ECF-S-64L-900-WW-G2-x	64	900	3000	178	23,465	B3-U0-G2	132	15,723	B1-U0-G3	90	10,093	B0-U0-G2	58
ECF-S-64L-1A-WW-G2-x	64	1050	3000	206	26,437	B4-U0-G3	128	17,714	B1-U0-G3	87			

4000K LED Wattage and Lumen Values

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4			Type 5			Type 5W		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-NW-G2-x	32	365	4000	40	5,798	B1-U0-G1	145	5,713	B1-U0-G2	143	5,934	B1-U0-G2	148	6,094	B3-U0-G1	152	5,898	B3-U0-G2	147
ECF-S-32L-530-NW-G2-x	32	530	4000	56	7,536	B2-U0-G2	135	7,426	B1-U0-G2	133	7,713	B1-U0-G2	138	7,922	B3-U0-G2	142	7,667	B3-U0-G2	138
ECF-S-32L-700-NW-G2-x	32	700	4000	73	9,720	B2-U0-G2	133	9,509	B2-U0-G2	130	9,949	B2-U0-G2	136	10,218	B4-U0-G2	140	9,889	B4-U0-G2	136
ECF-S-32L-1A-NW-G2-x	32	1050	4000	106	13,685	B3-U0-G2	130	13,388	B2-U0-G3	127	14,006	B2-U0-G3	133	14,384	B4-U0-G2	136	13,923	B4-U0-G2	132
ECF-S-32L-1.2A-NW-G2-x	32	1200	4000	122	15,180	B3-U0-G3	125	14,851	B2-U0-G3	122	15,537	B2-U0-G3	128	15,956	B4-U0-G2	131	15,443	B4-U0-G2	127
ECF-S-48L-900-NW-G2-x	48	900	4000	135	18,016	B3-U0-G3	133	17,625	B3-U0-G3	130	18,440	B3-U0-G3	136	18,937	B4-U0-G3	140	18,329	B5-U0-G3	136
ECF-S-48L-1A-NW-G2-x	48	1050	4000	159	20,401	B3-U0-G3	129	19,958	B3-U0-G4	126	20,880	B3-U0-G4	132	21,444	B5-U0-G3	135	20,755	B5-U0-G3	131
ECF-S-48L-1.2A-NW-G2-x	48	1200	4000	183	22,647	B3-U0-G3	124	22,156	B3-U0-G4	121	23,179	B3-U0-G4	127	23,806	B5-U0-G3	130	23,040	B5-U0-G3	126
ECF-S-64L-900-NW-G2-x	64	900	4000	178	23,844	B3-U0-G3	134	23,327	B3-U0-G4	131	24,405	B3-U0-G4	137	25,063	B5-U0-G3	141	24,258	B5-U0-G4	136
ECF-S-64L-1A-NW-G2-x	64	1050	4000	206	26,863	B3-U0-G3	130	26,280	B3-U0-G4	128	27,495	B3-U0-G4	134	27,526	B5-U0-G3	134	27,330	B5-U0-G4	133

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type AFR			BLC			LCL or RCL		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-NW-G2-x	32	365	4000	40	6,006	B2-U0-G1	150	3,991	B0-U0-G1	101	2,633	B0-U0-G1	67
ECF-S-32L-530-NW-G2-x	32	530	4000	56	7,807	B2-U0-G1	140	5,412	B0-U0-G2	99	3,423	B0-U0-G1	62
ECF-S-32L-700-NW-G2-x	32	700	4000	73	10,070	B2-U0-G2	138	6,930	B0-U0-G2	96	4,415	B0-U0-G1	61
ECF-S-32L-1A-NW-G2-x	32	1050	4000	106	14,176	B3-U0-G2	134	9,756	B1-U0-G2	94	6,229	B0-U0-G2	60
ECF-S-32L-1.2A-NW-G2-x	32	1200	4000	122	15,725	B3-U0-G2	129	10,822	B1-U0-G2	90	6,910	B0-U0-G2	58
ECF-S-48L-900-NW-G2-x	48	900	4000	135	18,664	B3-U0-G2	138	12,843	B1-U0-G2	96	8,200	B0-U0-G2	62
ECF-S-48L-1A-NW-G2-x	48	1050	4000	159	21,133	B3-U0-G2	133	14,544	B1-U0-G3	93	9,286	B0-U0-G2	59
ECF-S-48L-1.2A-NW-G2-x	48	1200	4000	183	23,461	B3-U0-G2	128	16,145	B1-U0-G3	90			
ECF-S-64L-900-NW-G2-x	64	900	4000	178	24,700	B3-U0-G2	139	16,998	B1-U0-G3	97	10,853	B0-U0-G2	62
ECF-S-64L-1A-NW-G2-x	64	1050	4000	206	27,828	B4-U0-G3	135	19,150	B1-U0-G3	94			

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Area luminaire

5000K LED Wattage and Lumen Values

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4			Type 5			Type 5W		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-CW-G2-x	32	365	5000	40	5,798	B1-U0-G1	145	5,713	B1-U0-G2	143	5,934	B1-U0-G2	148	6,094	B3-U0-G1	152	5,898	B3-U0-G2	147
ECF-S-32L-530-CW-G2-x	32	530	5000	56	7,536	B2-U0-G2	135	7,426	B1-U0-G2	133	7,713	B1-U0-G2	138	7,922	B3-U0-G2	142	7,667	B3-U0-G2	138
ECF-S-32L-700-CW-G2-x	32	700	5000	73	9,720	B2-U0-G2	133	9,509	B2-U0-G2	130	9,949	B2-U0-G2	136	10,218	B4-U0-G2	140	9,889	B4-U0-G2	136
ECF-S-32L-1A-CW-G2-x	32	1050	5000	106	13,685	B3-U0-G2	130	13,388	B2-U0-G3	127	14,006	B2-U0-G3	133	14,384	B4-U0-G2	136	13,923	B4-U0-G2	132
ECF-S-32L-1.2A-CW-G2-x	32	1200	5000	122	15,180	B3-U0-G3	125	14,851	B2-U0-G3	122	15,537	B2-U0-G3	128	15,956	B4-U0-G2	131	15,443	B4-U0-G2	127
ECF-S-48L-900-CW-G2-x	48	900	5000	135	18,016	B3-U0-G3	133	17,625	B3-U0-G3	130	18,440	B3-U0-G3	136	18,937	B4-U0-G3	140	18,329	B5-U0-G3	136
ECF-S-48L-1A-CW-G2-x	48	1050	5000	159	20,401	B3-U0-G3	129	19,958	B3-U0-G4	126	20,880	B3-U0-G4	132	21,444	B5-U0-G3	135	20,755	B5-U0-G3	131
ECF-S-48L-1.2A-CW-G2-x	48	1200	5000	183	22,647	B3-U0-G3	124	22,156	B3-U0-G4	121	23,179	B3-U0-G4	127	23,806	B5-U0-G3	130	23,040	B5-U0-G3	126
ECF-S-64L-900-CW-G2-x	64	900	5000	178	23,844	B3-U0-G3	134	23,327	B3-U0-G4	131	24,405	B3-U0-G4	137	25,063	B5-U0-G3	141	24,258	B5-U0-G4	136
ECF-S-64L-1A-CW-G2-x	64	1050	5000	206	26,863	B3-U0-G3	130	26,280	B3-U0-G4	128	27,495	B3-U0-G4	134	27,526	B5-U0-G3	134	27,330	B5-U0-G4	133

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type AFR			BLC			LCL or RCL		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-CW-G2-x	32	365	5000	40	6,006	B2-U0-G1	150	3,991	B0-U0-G1	101	2,633	B0-U0-G1	67
ECF-S-32L-530-CW-G2-x	32	530	5000	56	7,807	B2-U0-G1	140	5,412	B0-U0-G2	99	3,423	B0-U0-G1	62
ECF-S-32L-700-CW-G2-x	32	700	5000	73	10,070	B2-U0-G2	138	6,930	B0-U0-G2	96	4,415	B0-U0-G1	61
ECF-S-32L-1A-CW-G2-x	32	1050	5000	106	14,176	B3-U0-G2	134	9,756	B1-U0-G2	94	6,229	B0-U0-G2	60
ECF-S-32L-1.2A-CW-G2-x	32	1200	5000	122	15,725	B3-U0-G2	129	10,822	B1-U0-G2	90	6,910	B0-U0-G2	58
ECF-S-48L-900-CW-G2-x	48	900	5000	135	18,664	B3-U0-G2	138	12,843	B1-U0-G2	96	8,200	B0-U0-G2	62
ECF-S-48L-1A-CW-G2-x	48	1050	5000	159	21,133	B3-U0-G2	133	14,544	B1-U0-G3	93	9,286	B0-U0-G2	59
ECF-S-48L-1.2A-CW-G2-x	48	1200	5000	183	23,461	B3-U0-G2	128	16,145	B1-U0-G3	90			
ECF-S-64L-900-CW-G2-x	64	900	5000	178	24,700	B3-U0-G2	139	16,998	B1-U0-G3	97	10,853	B0-U0-G2	62
ECF-S-64L-1A-CW-G2-x	64	1050	5000	206	27,828	B4-U0-G3	135	19,150	B1-U0-G3	94			

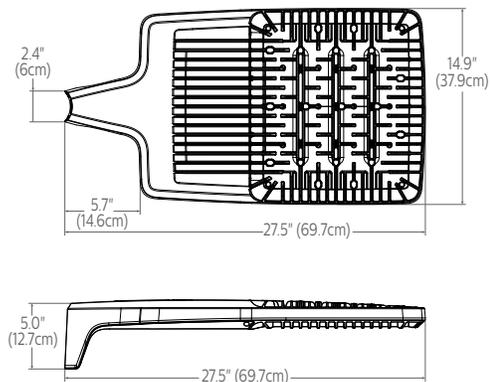
ECF-S EcoForm small

Area lumineuse

Dimensions

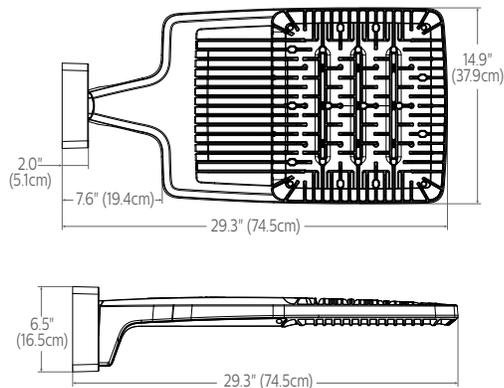
Standard Arm (AR)

Weight: 22 Lbs (9.9 Kg) EPA: 0.21ft² (.019m²)



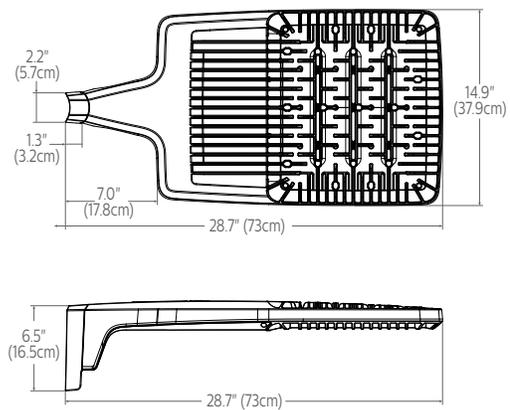
Wall (WS)

Weight: 27 Lbs. (12. 2Kg)EPA: 0.27ft² (.025m²)



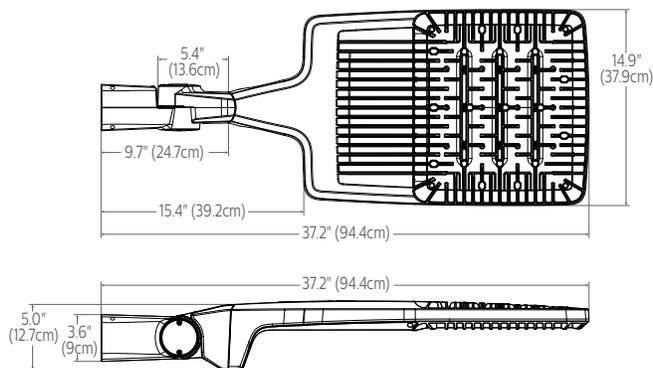
Retrofit Arm (RAM)

Weight: 24 Lbs (10.9 Kg) EPA: 0.24ft² (.022m²)

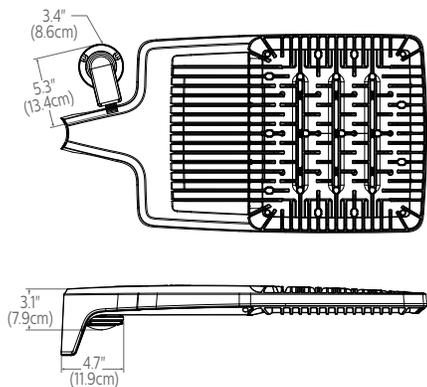


Slip fitter (SF)

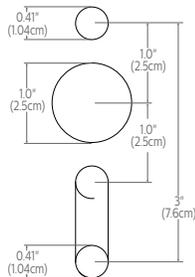
Weight: 27 Lbs (12.2 Kg) EPA: 0.33ft² (.031m²)



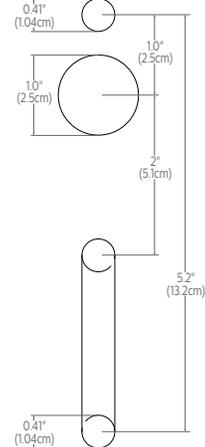
Outboard IMR-HVU sensor



Standard Arm (AR) drill pattern



Retrofit Arm (RAM) drill pattern



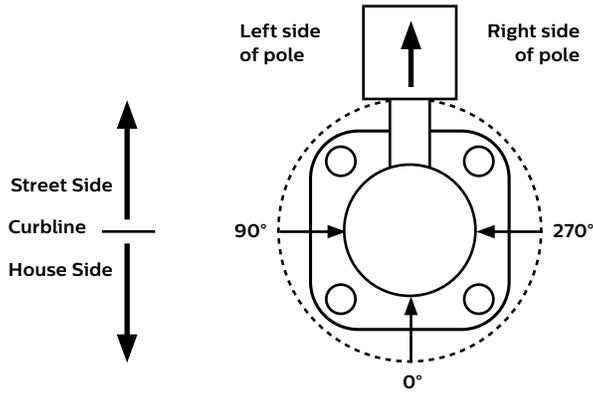
ECF-S EcoForm small

Area luminaire

Optical Orientation Information

Standard Optic Position

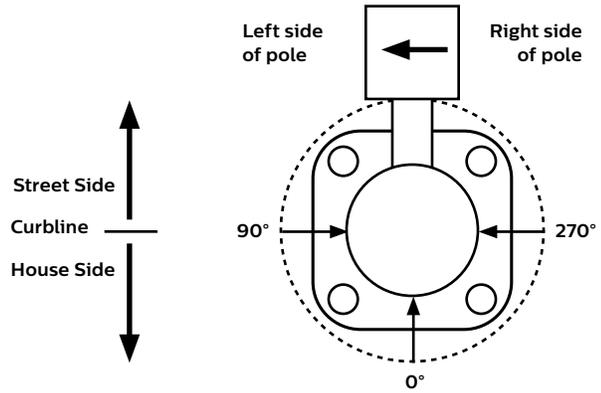
Luminaires ordered with asymmetric optical systems in the standard optic position will have the optical system oriented as shown below:



Note: The hand hole will normally be located on the pole at the 0° point.

Optic Rotated Left (90°) Optic Position

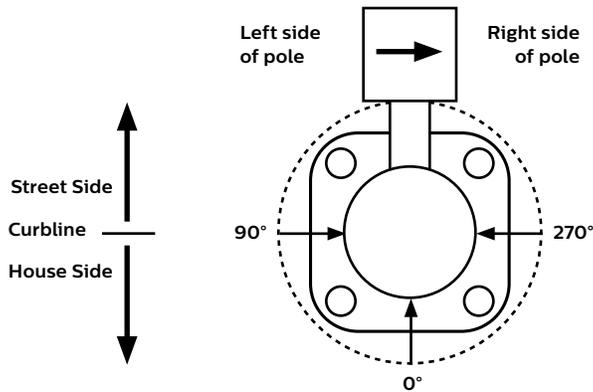
Luminaires ordered with optical systems in the Optic Rotated Left (90°) optic position will have the optical system oriented as shown below (Type 5 and 5W optics are not available with factory set rotatable optics):



Note: The hand hole will normally be located on the pole at the 0° point.

Optic Rotated Right (270°) Optic Position

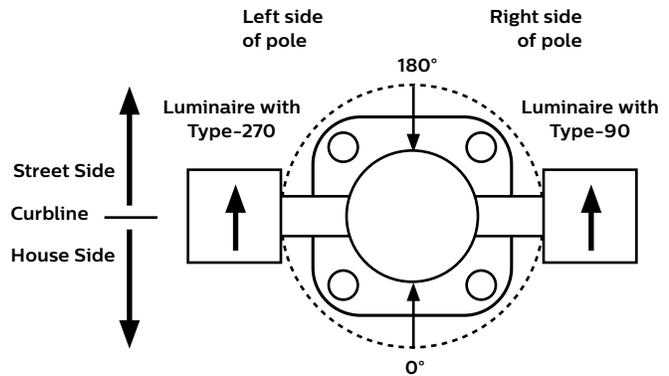
Luminaires ordered with optical systems in the Optic Rotated Right (270°) optic position will have the optical system oriented as shown below (Type 5 and 5W optics are not available with factory set rotatable optics):



Note: The hand hole will normally be located on the pole at the 0° point.

Twin Luminaire Assemblies with Type-90/Type-270 Rotated Optical Systems

Twin luminaire assemblies installed with rotated optical systems are an excellent way to direct light toward the interior of the site (Street Side) without additional equipment. It is important, however, that care be exercised to insure that luminaires are installed in the proper location.



Luminaires with Optic Rotated Right (270°) are installed on the LEFT Side of Pole

Luminaires with Optic Rotated Left (90°) are installed on the RIGHT Side of Pole

Note: The hand hole location will depend on the drilling configuration ordered for the pole.

ECF-S EcoForm small

Area luminaire

Specifications

Housing

One-piece die cast aluminum housing with integral arm and separate, self-retained hinged, one-piece die cast door frame. Luminaire housing rated to IP65, tested in accordance to Section 9 of IEC 60598-1.

Vibration resistance

Luminaire is tested and rated 3G over 100,000 cycles conforming to standards set forth by ANSI C136.31-2018. Testing includes vibration in three axes, all performed on the same luminaire.

Light engine

Light engine comprises of a module of 16-LED aluminum metal clad board fully sealed with optics offered in multiples of 2, 3, and 4 modules or 32, 48, and 64 LEDs. Module is RoHS compliant. Color temperatures: 3000K +/-125K, 4000K, 5000K +/- 200K. Minimum CRI of 70. LED light engine is rated IP66 in accordance to Section 9 of IEC 60598-1.

Energy saving benefits

System efficacy up to 152 lms/W with significant energy savings over Pulse Start Metal Halide luminaires. Optional control options provide added energy savings during unoccupied periods.

Optical systems

Type 2, 3, 4, 5, 5W, and AFR distributions available. Internal Shield option mounts to LED optics and is available with Type 2, 3, 4, and AFR distributions, including a dedicated BLC, LCL, and RCL optics to provide the best backlight control possible for those stringent requirements around property lines. Types 2, 3, 4, AFR, and BLC when specified and used as rotated, are factory set only. Performance tested per LM-79 and TM-15 (IESNA) certifying its photometric performance. Luminaire designed with 0% uplight (U0 per IESNA TM-15).

Mounting

Standard luminaire arm mounts to 4" O.D. round poles. Can also be used with 5" O.D. poles. Square pole adapter included with every luminaire. Round Pole Adapter (RPA) required for 3-3.9" poles. EcoForm features a retrofit arm kit. When specified with the retrofit arm (RAM) option, EcoForm seamlessly simplifies site conversions to LED by eliminating the need for additional pole drilling on most existing poles. RAM will be boxed separately. Also optional are slipfitter and wall mounting accessories. Note that only fixed mounts (AR, RAM, WS) are required to meet IDA compliance. SF mounting will not meet IDA.

Control options

0-10V dimming (DD): Access to 0-10V dimming leads supplied through back of luminaire (for secondary dimming controls by others). Cannot be used with other control options.

Dual Circuit Control (DCC): Luminaire equipped with the ability to have two separate circuits controlling drivers and light engines independently. Permits separate switching of separate modules controlled by use of two sets of leads, one for each circuit. Not recommended to be used with other control options, motion response, or photocells.

Sensor Ready Zhaga Socket Connector (SRDR): Product equipped with Sensor Ready drivers connected to 4-pin Zhaga Book 18 compliant receptacle designed for sensor and other control system applications. Receptacle is rated IP66 assembly in a compact design that provides a sealed electrical interface and rated UV resistance, mounted on underside of the luminaire, protective dust cap included. When a controller not provided by Signify is used with Sensor Ready Zhaga socket connector, the controller must be certified to work with the Xitanium SR LED drivers as part of the SR certified program. SRDR can be used with NEMA 7-pin twist lock receptacle, which is mounted on top of the luminaire.

Automatic Profile Dimming (CS/CM/CE/CA): Standard dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with not programmed motion response it overrides the controller's schedule when motion is detected. After 5 minutes with no motion, it will return to the automatic dimming profile schedule. Automatic dimming profile scheduled with the following settings:

- **CS50/CS30:** Security for 7 hours night duration (Ex., 11 PM - 6 AM)
- **CM50/CM30:** Median for 8 hours night duration (Ex., 10 PM - 6 AM)

All above profiles are calculated from mid point of the night. Dimming is set for 6 hours after the mid point and 1 or 2 hours before depending of the duration of dimming. Cannot be used with other dimming control options.

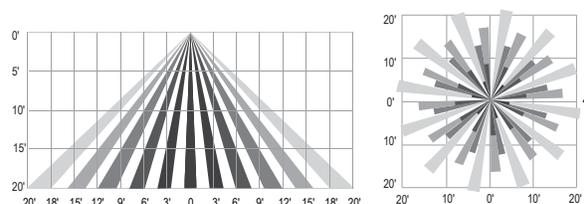
Field Adjustable Wattage Selector (FAWS): Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position at the lumen output selected. Use chart below to estimate reduction in lumen output desired. Cannot be used with other control options or motion response.

FAWS Position	Percent of Typical Lumen Output
1	25%
2	50%
3	55%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

Note: Typical value accuracy +/- 5%

Wireless system (LLC): Optional wireless controller integral to luminaire ready to be connected to a Lighthouse system (sold by others). The system allows you to wirelessly manage the entire site, independent lighting groups or individual luminaires while on-site or remotely. Based on a high-density mesh network with an easy to use web-based portal, you can conveniently access, monitor and manage your lighting network remotely. Wireless controls can be combined with site and area, pedestrian, and parking garage luminaires as well, for a completely connected outdoor solution. Equipped with motion response with #3 lens for 8-25' mounting heights. Also available with remote pod accessory where pod is mounted separate from luminaire to pole or wall.

LLC wireless controller with #3 lens



Motion response options

Bi-Level Infrared Motion Response (BL-IMRI): Motion Response module is mounted integral to luminaire factory pre-programmed to 50% dimming when not ordered with other control options. BL-IMRI is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to full power/light output. Dimming on low is factory set to 50% with 5 minutes default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50%, to 50% of the normal constant wattage reducing the light level. Other dimming settings can be provided if different dimming levels are required. This can also be done with FSIR-100 Wireless Remote Programming Tool (contact Technical Support for details).

Infrared Motion Response with Other Controls: When used in combination with other controls (Automatic Dimming Profile), motion response device will simply override controller's schedule with the added benefits of a combined dimming profile and sensor detection. In this configuration, the motion response device cannot be re-programmed with FSIR-100 Wireless Remote Programming Tool. The profile can only be re-programmed via the controller.

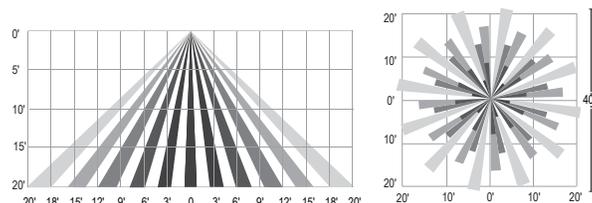
ECF-S EcoForm small

Area luminaire

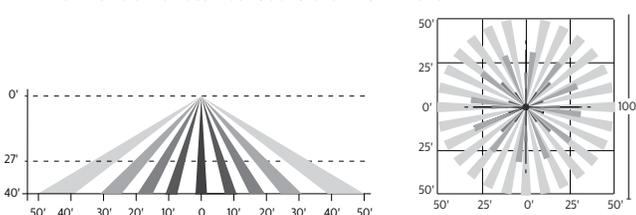
Specifications

Infrared Motion Response Lenses (IMRI3/IMRI7): Infrared Motion Response Integral module is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges. Lens #3 (IMRI3) is designed for mounting heights up to 20' with a 40' diameter coverage area. Lens #7 is designed for higher mounting heights up to 40' with larger coverage areas up to 100' diameter coverage area. See charts for approximate detection patterns:

IMRI3 Luminaire or remote mount controller with #3 lens



IMRI7 Luminaire or remote mount controller with #7 lens



Electrical

Twist-Lock Receptacle (TLRD5/TLRD7/ TLRPC): Twist Lock Receptacle with 5 pins enabling dimming or with 7 pins with additional functionality (by others) can be used with a twistlock photoelectric cell or a shorting cap. Dimming Receptacle Type B (5-pin) and Type D-24 (7-pin) in accordance to ANSI C136.41. Can be used with third-party control system. Receptacle located on top of luminaire housing. When specifying receptacle with twistlock photoelectric cell, voltage must be specified. When ordering 7-pin Twist-lock receptacle (TLRD7), all 7 pins are wired to respective pins with the Sensor Ready (SR) driver, and photocell or shorting cap is not included. When ordering a twist-lock receptacle with a photocell (TLRPC), the receptacle used is a 5-pin receptacle, so pins 6 and 7 are not available (no SR driver). 0-10V dimming leads (pins 4 and 5) are connected if not ordered with any other dimming option.

Buy American Act of 1933 (BAA):

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit www.signify.com/baa to view a current list of BAA-compliant products to confirm this product's current compliance.

Driver: Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. All drivers are 0-10V dimming to 10% power standard, except when using Sensor Ready (SR) drivers, which uses DALI protocol (options CS50/CM50/CS30/CM30, SRDR, and TR7). Drivers are RoHS and FCC Title 47 CFR Part 15 compliant.

Button Photocontrol (PCB): Button style design for internal luminaires mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light.

Surge protection (SP1/SP2): Surge protection device tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with DOE MSSLC Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High test level 10kV/10kA, 20kV / 10kA surge protection device that provides extra protection beyond the SP1 10kV/10kA level.

Listings

UL/cUL wet location listed to the UL 1598 standard, suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). Most EcoForm configurations are qualified under Premium and Standard DesignLights Consortium® categories. Consult DLC Qualified Products list to confirm your specific luminaire selection is approved. CCTs 3000K and warmer are Dark Sky Approved.

Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult factory for specs on optional or custom colors.

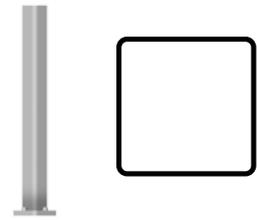
Service Tag

Each individual luminaire is uniquely identifiable, thanks to the Service tag application. With a simple scan of a QR code, placed on the inside of the mast door, you gain instant access to the luminaire configuration, making installation and maintenance operations faster and easier, no matter what stage of the luminaire's lifetime. Just download the APP and register your product right away. For more details visit: signify.com

Warranty

EcoForm luminaires feature a 5-year limited warranty. See signify.com/warranties for complete details and exclusions.





The **Gardco SSS Straight Square Steel** pole consists of a one-piece high tensile carbon steel tube welded and secured to the carbon steel base plate providing excellent strength and integrity. The poles are finished with an electrostatically applied, thermally cured polyester powdercoat. All poles include base cover, hand hole, ground lug and top cap. Anchor bolts and templates are ordered as a separate accessory.

Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Notes: _____

Ordering guide

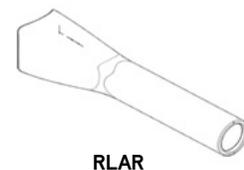
example: SSS-CB-4-11-12-D1-DT1-BK-FES

Family	Base	Pole Shaft Size (in.)	Pole Gauge/Wall Thickness	Height (ft) ⁵	Drilling/Tenon Configurations ¹	Drilling Template ²	Finish	Options ³						
SSS	CB	4	11	14	D1	DT5	FINI							
SSS	CB Carbon Steel Base w/ Base Cover	4	11 11 ga. / 0.120"	10	D1 1 Way	DT1 Drill Template 1	BK Black	FES ⁶ Festoon Outlet						
				12				BZ Bronze	VDA Vibration Dampener					
				14				WH White	AHH ⁶ Additional Hand Hole					
				15				DG Dark Grey	DR ^{6,8} Duplex Receptacle					
				16				MG Medium Grey	VPA Vandalproof Screws					
				18				GY3 ⁸ Light Grey, Smooth	GFI ^{6,8} DR with GFI (12OV only)					
		20	7 7 ga. / 0.180"	20	D2 2 Way @ 180	DT2 Drill Template 2	SSDGY ⁸ SolarForm Dark Grey (RAL 7011)	BAC ⁹ Buy American Compliant						
		25		DT3 Drill Template 3				CL1/2 ⁶ Coupling 1/2"						
		30		DT4 Drill Template 4				CL3/4 ⁶ Coupling 3/4"						
		5		11 11 ga. / 0.120"				20	D3 3 Way @ 90	DT5 Drill Template 5	FP/GV Finished Textured Paint over Galvanized (Specify, ex: MG/GV)	CL1 ⁶ Coupling 1"		
												25	DT6 Drill Template 6	CL1-1/4 ⁶ Coupling 1-1/4"
												30	[DTX-xxx] ^{6,7} Custom Template	CL1-1/2 ⁶ Coupling 1-1/2"
35	See drill template chart for details.		NL1/2 ⁶ Nipple 1/2"											
6	7 7 ga. / 0.180"	30	D4 4 Way @ 90	N No Drilling Template (for Tenon and Plain Top Options)	OC Optional Color Paint (ex: RAL7024)	NL3/4 ⁶ Nipple 3/4"								
						35	SC ⁶ Special/ Custom Color (Specify, must supply color chip)	NL1 ⁶ Nipple 1"						
						40	No Drilling/No Tenon	NL1-1/4 ⁶ Nipple 1-1/4"						
						P Plain Top	NL1-1/2 ⁶ Nipple 1-1/2"							

- See Drilling Configurations on Page 3.
- See Luminaire Drilling Templates on Page 3
- Not all options available with all configurations. Consult factory for more details
- Options listed with *gray text* will be shipped with the Legacy SSS design. Use the L/SSS family code whenever these options are specified.
- Pole heights can be cut to length. Specify as a whole number in ft. (ex. 11, 13) or to the inch as a decimal (ex. 15.33 = 15' 4") or as "15FT 4IN" for Legacy designs.
- Option must be specified, including install location, by the customer before order release. FES, DR, GFI, AHH options typically must be placed 12-18" away from standard hand hole (20" or 12" above base).
- Custom drill templates (DTX) require factory quote.
- Option not available with Legacy SSS designs.
- Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.
- Consult Signify to confirm whether specific accessories are BAA-compliant.

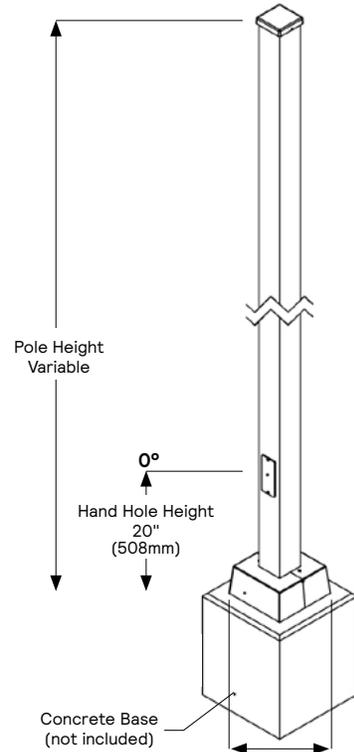
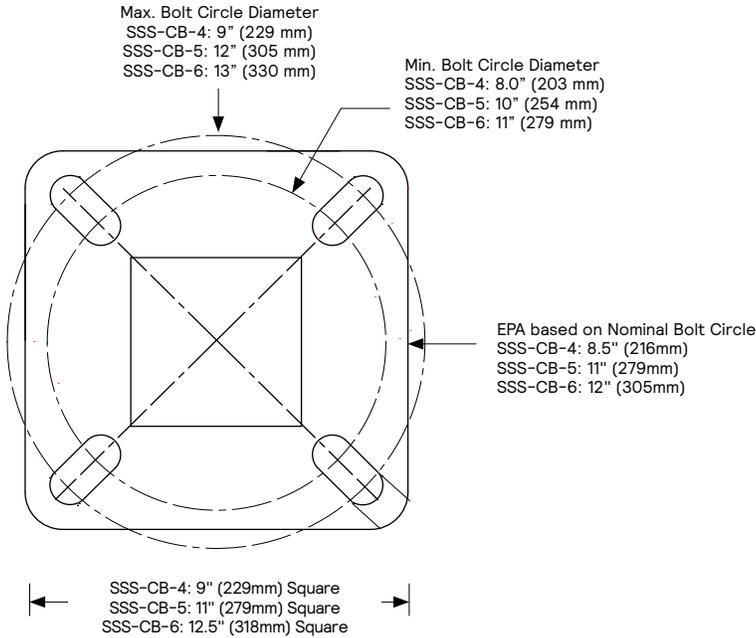
Accessories ¹⁰

Service	Pole Size	12NC	Description (Diameter x Length x Hook)
Anchor Bolts + Templates			
For shipment with the pole (order 1 per pole)	4" Poles	912401597397	AB 3/4x24x3-G DEC w/ 8.5 BC ABT
	5" Poles	912401613107	AB 1x33x3-G DEC w/ 11 BC ABT
	6" Poles	912401597401	AB 1x33x3-G DEC w/ 12 BC ABT
For Pre-Ship service (order 1 per pole)	4" Poles	912401597405	AB 3/4x24x3-G DEC w/ 8.5 BC ABT-RS
	5" Poles	912401613106	AB 1x33x3-G DEC w/ 11 BC ABT-RS
	6" Poles	912401597408	AB 1x33x3-G DEC w/ 12 BC ABT-RS
Part No.	Description		
RLAR-1A-SQ4+ -(finish)	Cast aluminum mounting arm, 15" long with DT6 drill pattern (order 1 per luminaire). For use with Lumec Roadway and Gardco SolarForm Luminaires (for SolarForm: use RLAR bracket to mount horizontally, use T2D6L tenon to mount vertically). Specify finish to match pole.		



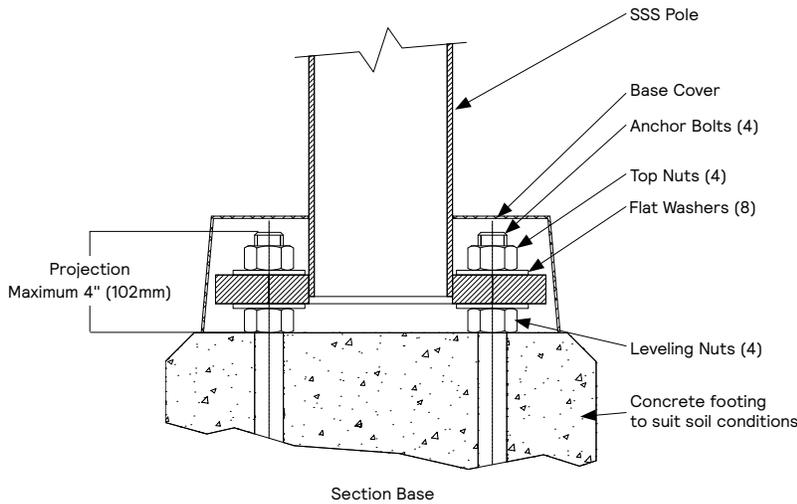
Poles Straight Square Steel

Dimensions



Base Cover Dimensions (L x W x H)
 SSS-CB-4: 9.80" x 9.80" x 4.58" (245mm x 245mm x 116mm)
 SSS-CB-5: 11.80" x 11.80" x 4.58" (300mm x 300mm x 116mm)
 SSS-CB-6: 13.30" x 13.30" x 4.58" (338mm x 338mm x 116mm)

SSS Legacy Design not shown.
Base Cover: Square
Hand Hole: 12" Above Base



* Anchor Bolt Lock Washers are not normally required and are not included in standard anchor bolt sets. They are available upon request at additional cost.

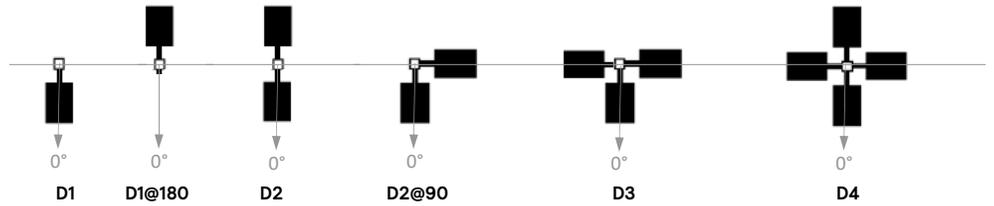
** Grouting should include a drainage slot or tube (by others) to permit water to drain from the base of the pole. Failure to provide drainage may weaken the pole base structure over time and may result in pole base failure, for which Gardco is not responsible.

NOTE: Factory supplied template must be used when setting anchor bolts. Gardco will not honor any claim for incorrect anchorage placement from failure to use factory supplied templates.

Poles Straight Square Steel

Drilling Configuration

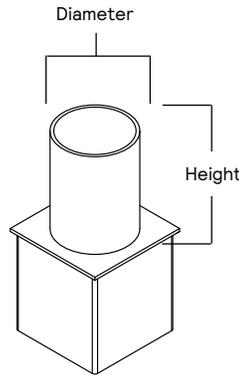
Code	Description
D1	Single luminaire
D1@180	Single luminaire @ 180
D2	Two luminaires @ 180
D2@90	Two luminaires @ 90
D3	Three luminaires @ 90
D4	Four luminaires @ 90



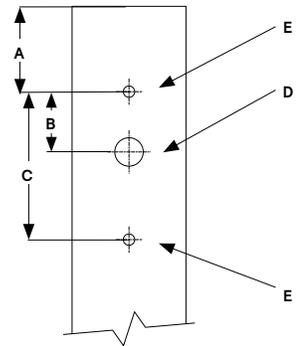
Ref. access door at 0° for all
Legacy design places access door at 180°

Tenon Dimensions

Tenon	Diameter	Height
T2D4L	2.375" (60mm)	4" (102mm)
T2D6L	2.375" (60mm)	6" (152mm)
T3D4L	3" (76mm)	4" (102mm)
T4D6L	4" (102mm)	6" (152mm)



Pole Top Drilling



Luminaire Drill Pattern

Code	Description	Luminaires	Pole Drilling				
			A To Pole Top	B	C Full Extent	D Wireway Hole	E Bolt Hole
DT1	Drill Template 1	Gardco SlenderForm Round SFRA	2.25" (57mm)	1.5" (38.1mm)	3" (76mm)	0.875" (22.2mm)	0.40" (10.2mm)
DT2	Drill Template 2	Gardco SlenderForm Square - SFA Gardco Gullwing - GL13, GL18 Gardco Form Ten - EH14L, EH19L, CAL17, CAL22, MAL17, MAL22	2.25" (57mm)	2.17" (55mm)	3.84" (98mm)	0.875" (22.2mm)	0.39" (9.9mm)
DT3	Drill Template 3	Gardco PowerForm PFAS	2.25" (57mm)	1.75" (44mm)	3.84" (98mm)	0.875" (22.2mm)	0.41" (10.4mm)
DT4	Drill Template 4	Gen1 Stonco/Keene AL150-G1, AL200-G1	2.5" (64mm)	1.7" (43mm)	3.5" (89mm)	0.875" (22.2mm)	0.41" (10.4mm)
DT5	Drill Template 5	Gardco EcoForm Gen2 - ECF-S, ECF-L Gardco PureForm Gen2 - P15, P20, P26, P34	3" (76mm)	1" (25mm)	3" (76mm)	1" (25mm)	0.41" (10.4mm)
DT6	Drill Template 6	Hole pattern drilled for the following: Gen2 Stonco/Keene AL70-G2 and AL150-G2, or to attach RLAR bracket accessory, suitable for use with: Lumec Capella CPLM, CPLS Lumec RoadStar GPLM, GPLS Lumec RoadFocus RFS, RFM, RFL Lumec RoadView RVM, RVS Lumec MiniView SVS Lumec StreetView SVM Gardco SolarForm BRP710	2.5" (64mm)	1" (25mm)	2" (50mm)	0.875" (22mm)	0.5" (12.7mm)

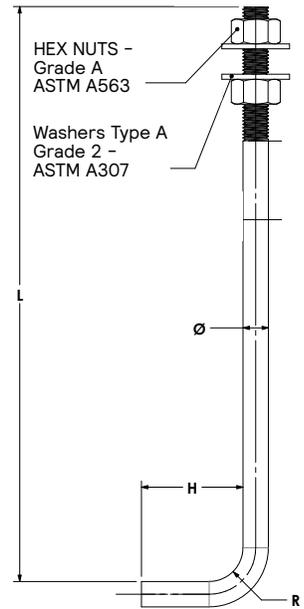
Poles Straight Square Steel

Pole Data

Product Catalog Number	Pole Specs				Anchor Bolt Data			
	Height (ft.)	Pole Diameter (in.)	Wall Thickness (in.)	Pole Weight (lbs)	Bolt Circle (in.)	Anchor Bolt Spec (in.)	Legacy Anchor Bolt Spec (in.)	Anchor Bolt Max Proj. (in.)
SSS-CB-4-11-10	10	4	0.12	63	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-12	12	4	0.12	76	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-14	14	4	0.12	88	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-15	15	4	0.12	94	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-16	16	4	0.12	101	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-18	18	4	0.12	113	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-20	20	4	0.12	126	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-25	25	4	0.12	157	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-7-20	20	4	0.18	185	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-7-25	25	4	0.18	232	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
● SSS-CB-4-7-30	30	4	0.18	278	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-5-11-20	20	5	0.12	158	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
SSS-CB-5-11-25	25	5	0.12	197	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
● SSS-CB-5-11-30	30	5	0.12	237	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
SSS-CB-5-7-20	20	5	0.18	234	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
SSS-CB-5-7-25	25	5	0.18	292	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
● SSS-CB-5-7-30	30	5	0.18	350	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
● SSS-CB-5-7-35	35	5	0.18	409	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
● SSS-CB-6-7-30	30	6	0.18	423	12 (+/- 1)	1 x 33 x 3	1 x 33 x 3	4
● SSS-CB-6-7-35	35	6	0.18	493	12 (+/- 1)	1 x 33 x 3	1 x 33 x 3	4
● SSS-CB-6-7-40	40	6	0.18	564	12 (+/- 1)	1 x 33 x 3	1 x 33 x 3	4

● SSS Legacy Design

Standard Anchor Bolt



Pole Data (cont.)

Product Catalog Number	AASHTO 2001 - EPA ft ²								CSA - EPA ft ²							
	80 MPH	90 MPH	100 MPH	110 MPH	120 MPH	130 MPH	140 MPH	150 MPH	300 Pa 79 MPH	400 Pa 91 MPH	500 Pa 102 MPH	600 Pa 111 MPH	700 Pa 120 MPH	800 Pa 129 MPH	900 Pa 136 MPH	1000 Pa 144 MPH
SSS-CB-4-11-10	30.00	26.82	21.25	17.13	13.99	11.55	9.62	8.07	30.00	27.03	21.10	17.15	14.34	12.23	10.59	9.27
SSS-CB-4-11-12	28.31	21.72	17.04	13.55	10.88	8.83	7.19	5.88	30.00	21.74	16.76	13.44	11.08	9.30	7.92	6.82
SSS-CB-4-11-14	23.54	17.83	13.77	10.77	8.48	6.69	5.26	4.15	24.79	17.66	13.40	10.53	8.51	6.98	5.79	4.85
SSS-CB-4-11-15	21.53	16.22	12.41	9.57	7.43	5.76	4.44	3.36	22.58	15.92	11.94	9.30	7.40	5.96	4.87	3.97
SSS-CB-4-11-16	19.70	14.69	11.12	8.48	6.47	4.91	3.65	2.66	20.58	14.37	10.65	8.16	6.37	5.05	4.03	3.19
SSS-CB-4-11-18	16.19	11.82	8.72	6.43	4.67	3.30	2.21	1.33	17.07	11.59	8.31	6.12	4.56	3.38	2.47	1.74
SSS-CB-4-11-20	13.29	9.46	6.72	4.67	3.13	1.92	N/A	N/A	14.07	9.20	6.29	4.34	2.95	1.90	1.10	N/A
SSS-CB-4-11-25	7.78	4.86	2.78	1.22	N/A	N/A	N/A	N/A	7.95	4.26	2.06	N/A	N/A	N/A	N/A	N/A
SSS-CB-4-7-20	22.23	16.63	12.62	9.65	7.40	5.65	4.26	3.15	23.05	15.94	11.67	8.83	6.78	5.26	4.09	3.15
SSS-CB-4-7-25	14.87	10.59	7.54	5.28	3.56	2.23	1.16	N/A	14.83	9.42	6.17	4.01	2.46	1.31	N/A	N/A
● SSS-CB-4-7-30	9.63	6.25	3.82	2.01	N/A	N/A	N/A	N/A	8.36	4.20	1.72	N/A	N/A	N/A	N/A	N/A
SSS-CB-5-11-20	22.64	16.51	12.13	8.89	6.43	4.51	2.99	1.76	24.95	17.04	12.29	9.10	6.84	5.14	3.82	2.76
SSS-CB-5-11-25	14.32	9.62	6.25	3.79	1.90	N/A	N/A	N/A	16.16	10.00	6.29	3.83	2.06	N/A	N/A	N/A
● SSS-CB-5-11-30	8.28	4.53	1.86	N/A	N/A	N/A	N/A	N/A	9.30	4.42	1.48	N/A	N/A	N/A	N/A	N/A
SSS-CB-5-7-20	30.00	27.78	21.37	16.63	13.01	10.21	7.97	6.17	30.00	28.15	21.16	16.51	13.19	10.71	8.77	7.21
SSS-CB-5-7-25	25.42	18.54	13.62	9.97	7.19	5.05	3.34	1.98	27.74	18.68	13.23	9.61	7.02	5.08	3.56	2.37
● SSS-CB-5-7-30	17.45	11.94	8.01	5.08	2.88	1.16	N/A	N/A	18.54	11.33	7.02	4.12	2.07	N/A	N/A	N/A
● SSS-CB-5-7-35	11.37	6.84	3.62	1.22	N/A	N/A	N/A	N/A	10.73	5.08	1.70	N/A	N/A	N/A	N/A	N/A
● SSS-CB-6-7-30	27.54	19.44	13.66	9.38	6.14	3.59	1.57	N/A	30.00	20.55	13.99	9.59	6.47	4.11	2.27	N/A
● SSS-CB-6-7-35	19.06	12.39	7.60	4.05	1.36	N/A	N/A	N/A	21.06	12.23	6.96	3.42	N/A	N/A	N/A	N/A
● SSS-CB-6-7-40	12.29	6.64	2.60	N/A	N/A	N/A	N/A	N/A	12.21	5.17	N/A	N/A	N/A	N/A	N/A	N/A

- Warning:** Additional wind loading, in terms of EPA, from banners, cameras, floodlights and other accessories attached to the pole, must be added to the luminaire(s) EPA before selecting the pole with the appropriate wind load capability. Specifying BAA or BAC compliant poles may result in different EPA ratings.
- Factory supplied template must be used when setting anchor bolts. Gardco will not honor any claim for incorrect anchorage placement resulting from failure to use factory supplied templates. Exact length of anchor bolts may vary.
- EPA ratings are based on the listed, optimal midpoint of the bolt circle. The bolt circle has limited variability but the EPA rating will change.

NOTE: Above EPA (Effective Projected Area) rating is in accordance with AASHTO 2001, with a 50 pound load (22.7 kg) placed at 1 foot (305mm) above its center.

Poles Straight Square Steel

Specifications

Pole shaft

The pole shaft is fabricated from a single piece of 11 ga (0.1196") or 7 ga (0.180") high tensile carbon steel. The formed steel plate is longitudinally welded providing minimum yield strength of 50 ksi. Shaft includes factory installed copper ground lug, 10-7 copper wire, and ground lug screw.

Anchor Base

The pole anchor base is fabricated from 44W structural quality carbon steel with a minimum yield strength of 44 ksi. The base plate is circumferentially welded on both top and bottom.

Anchor Bolts

Anchor bolts are fabricated from a commercial quality hot rolled carbon steel bar that meets or exceeds a minimum guaranteed yield strength of 55 ksi. Bolts have an "L" bend on one end and threaded on the opposite end. Anchor bolts are galvanized in accordance with ASTM A-153.6 C1.C. Four (4) properly sized bolts, each furnished with two (2) regular hex nuts and two (2) flat washers, are provided per pole (priced and ordered separately), unless otherwise specified. Conforms to AASHTO M 314 90 and ASTM F1554.

Customer Specified Options

The options, DTX, FES, DR, GFI, AHH, CL*, and NL* require factory quotation. Poles with custom drilling templates (DTX) are provided as a service, however Signify holds no liability for improper installation and safety when using non-Signify luminaires or attachments on Gardco poles via drilling, tenon mounting, or coupling and nipple mounting. It is the responsibility of the customer to ensure the pole is loaded and installed in a safe manner to the limitations of the pole structure. See "Warning" paragraph for more details.

Base Cover

A two-piece painted square aluminum base cover that completely conceals the entire base plate and anchorage. Base cover is provided standard. Legacy design is provided with a composite base cover.

Hand hole

The hand hole has a nominal rectangular 2"x4.5" inside opening in the pole shaft. Included is an aluminum cover plate, EPDM gasket, and captive attachment screws. The hand hole is located 20" above the base and 0° clockwise with respect to the luminaire arm when viewed from the top of the pole for one arm. For two arms the hand hole is located directly under one arm. Legacy design includes an easy to install, self-contained Swing Latch hand hole cover assembly. U.S. Patent Swing Latch cover is fabricated from durable polycarbonate/ABS blend plastic. All pole assemblies are provided with a 2.50" x 5.00" rectangular hand hole.

Pole Top Cap

Each pole assembly is provided with a removable aluminum pole top cap painted to match the specified pole and attached with two pressure screws. Legacy design is provided with a removable plastic top push cap. Finish is Black.

Finish

Poles are available with Gardco's standard textured color finishes - Black, White, Bronze, Dark Grey, Medium Grey, and Lumec GY3 for a match with roadway luminaire finishes. Optional Galvanized finish and custom colors also available. Legacy design is provided with gloss paint on standard finishes.

Couplings and Nipples

Couplings (NPSC standard internal threads) and Nipples (NPT standard external threads) are available to mount 3rd party objects to the pole. For most applications Couplings and Nipples must be at least 4' from the base of the pole. Lengths are as follows:

Couplings < 1" dia. = 1" length
Couplings >= 1" dia. = 1.5" length
Nipples < 1" dia. = 1.5" length
Nipples >= 1" dia. = 2" length

Legacy pole designs may deviate from specifications listed here. See "Customer Specified Options" paragraph for more details.

Duplex Receptacle (DR and GFI)

DR and GFI options are placed at 2' below the pole top on the same side as the hand hole unless otherwise specified. DR or GFI options cannot be placed within 1' of the the hand hole. Options can typically be placed 32" above base for utility purposes. Maximum output of the receptacles are 15A.

General Pole Information

Design

EPA specs conform to AASHTO 2001 standard. The poles as charted are designed to withstand dead loads and predicted dynamic loads developed by variable wind pressure with an additional 2.5 gust factor under the following conditions: The charted weights include luminaire(s) and/or mounting bracket(s). Poles installed in areas of known abnormal conditions may require special consideration. For example: coastal areas, airports and areas of special winds. Poles are designed for ground mounted applications. Poles mounted on structures (such as buildings and bridges) may also necessitate special consideration requiring Gardco's recommendation. Height correction factors and drag coefficients are applied to the entire structure. An appropriate safety factor is maintained based on the minimum yield strength of the material incorporated in the pole.

Warning

This design information is intended as a general guideline only. The customer is solely responsible for proper selection of pole, luminaire, accessory and foundation under the given site conditions and intended usage. The addition of any items to the pole, in addition to the luminaire, will dramatically impact the EPA load on that pole. It is strongly recommended that a qualified professional be consulted to analyze the loads given the user's specific needs to ensure proper selection of the pole, luminaire, accessories, and foundation. Gardco assumes no responsibility for such proper analysis or product selections. Failure to ensure proper site analysis, pole selection, loads and installation can result in pole failure, leading to serious injury or property damage.

Warranty

Gardco Steel poles are covered by a 3-year structural and finish warranty. Legacy designs are covered by a 1-year warranty. For more information visit signify.com/warranties





SUNNYDAYZ - GREENFIELD ROAD DEERFIELD, MA SA5W-2

Gardco EcoForm Gen-2 combines economy with performance in an LED area luminaire. Capable of delivering up to 27,800 lumens or more in a compact, low profile LED luminaire, EcoForm offers a new level of customer value. EcoForm features an innovative retrofit arm kit, simplifying site conversions to LED by eliminating the need to drill additional holes in most existing poles. Integral control systems available for further energy savings. Includes Service Tag, our innovative way to provide assistance throughout the life of the product.

Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Lamps: _____ Qty: _____
 Notes: _____

example: ECF-S-64L-900-NW-G2-AR-5-120-HIS-MGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Mounting	Distribution	Voltage	
ECF-S	32L	530	WW-G2	AR	5W	VOLT	
ECF-S EcoForm site and area, small	32L 32 LEDs (2 modules)	365 365mA 530 530mA 700 700mA 1A 1050mA 1.2A 1200mA	WW-G2 Warm White 3000K, 70CRI Generation 2 NW-G2 Neutral White 4000K, 70CRI Generation 2 CW-G2 Cool White 5000K, 70CRI Generation 2	AR² Arm Mount (standard) The following mounting kits must be ordered separately (See accessories) SF³ Slip Fitter Mount (fits to 2 3/8" O.D. tenon) WS Wall mount with surface conduit rear entry permitted RAM² Retrofit arm mount kit	Type 2 2 Type 2 2-90 Rotated left 90° 2-270 Rotated right 270° Type 3 3 Type 3 3-90 Rotated left 90° 3-270 Rotated right 270° Type 4 4 Type 4 4-90 Rotated left 90° 4-270 Rotated right 270° Type 5 5 Type 5 5W Type 5W	AFR Auto Front Row AFR-90 Auto Front Row, Rotated left 90° AFR-270 Auto Front Row, Rotated right 270° BLC Back Light Control BLC-90 Back Light Control rotated at 90° BLC-270 Back Light Control rotated at 270° LCL¹⁹ LEED Corner Optic Left RCL¹⁹ LEED Corner Optic Right	120 120V 208 208V 240 240V 277 277V 347 347V 480 480V UNV 120-277V (50/60Hz) HVV 347-480V (50/60Hz)

Options						Finish
Dimming controls	Motion sensing lens	Photo-sensing	Electrical	Luminaire	FINISH	
DD^{4,18} 0-10V External dimming (for controls by others) DCC^{4,5,6,18} Dual Circuit Control FAWS^{4,6,7,8,18} Field Adjustable Wattage Selector LLC^{4,6,7,8,18} Integral wireless module BL^{1,4,7,18} Bi-level functionality SRDR^{4,5,6,8,17} SR driver connected to Zhaga socket DynaDimmer: Automatic Profile Dimming CS50^{4,8} Safety 50% Dimming, 7 hours CM50^{4,8} Median 50% Dimming, 8 hours CS30^{4,8} Safety 30% Dimming, 7 hours CM30^{4,8} Median 30% Dimming, 8 hours	IMR13¹⁵ Integral with #3 lens IMR17¹⁶ Integral with #7 lens	PCB^{8,9} Photocontrol Button TLRD5^{10,17} Twist Lock Receptacle 5 Pin TLRD7^{10,17} Twist Lock Receptacle 7 Pin TLRPC^{9,10,11,17} Twist Lock Receptacle w/ Photocell	Fusing F1⁹ Single (120, 277, 347VAC) F2⁹ Double (208, 240, 480VAC) Pole Mount Fusing FP1⁹ Single (120, 277, 347VAC) FP2⁹ Double (208, 240, 480VAC) FP3⁹ Canadian Double Pull (208, 240, 480VAC) Surge Protection (10kA standard) SP2 Increased 20kA	Square Pole Adapter included in standard product TB¹² Terminal Block RPA¹³ Round Pole Adapter (fits to 3"- 3.9" O.D. pole) HIS¹⁴ Internal House Side Shield	Textured BK Black WH White BZ Bronze DGY Dark Gray MGY Medium Gray Customer specified RAL Specify optional color or RAL (ex: RAL7024) CC Custom color (Must supply color chip for required factory quote)	

- BL-IMR13/7 equipped with out-boarded sensor housing when voltage is HVU (347-480V)
- Mounts to a 4" round pole with adapter included for square poles.
- Limited to a maximum of 45 degrees aiming above horizontal.
- Not available with other dimming control options.
- Not available with motion sensor.
- Not available with photocontrol.
- Must specify a motion sensor lens.
- Not available in 347 or 480V
- Must specify input voltage.
- TLRD5, TLRD7 and TLRPC receptacle pins 4 & 5 are capped off when ordered with any of the Dimming controls DD or FAWS or LLC.
- Not available in 480V. Order photocell separately with TLRD5/7.
- Not available with DCC.
- Not available with SF and WS. RPAs provided with black finish standard.
- HIS not available with Type 5, 5W, BLC, BLC-90, BLC-270, LCL or RCL optics.
- Not available with DD, DCC, and FAWS dimming control options.
- Not available with DD, DCC, FAWS and LLC dimming control options.
- When ordering SRDR, controller (by others) to be used on socket must be SR compatible (See specifications for more details). Consult factory for lead time. All 7 pins in NEMA receptacle are connected to SR driver. SRDR not available with TLRD5 or TLRPC.
- 0-10V dimming driver standard.
- LCL and RCL not available with 48L-1.2A or 64L-1A.



ECF-S EcoForm small

Area luminaire

EcoForm Accessories²¹ (ordered separately, field installed)

Shielding Accessories

Footnotes

20. Not available with Type 5 or 5W optics
21. Consult Signify to confirm whether specific accessories are BAA-compliant.

House Side shield

Standard optic orientation:

HIS-32-H²⁰ Internal House Side Shield for 32 LEDs (2 modules)

HIS-48-H²⁰ Internal House Side Shield for 48 LEDs (3 modules)

HIS-64-H²⁰ Internal House Side Shield for 64 LEDs (4 modules)

Optic at 90 or 270 orientation:

HIS-32-V²⁰ Internal House Side Shield for 32 LEDs (2 modules)

HIS-48-V²⁰ Internal House Side Shield for 48 LEDs (3 modules)

HIS-64-V²⁰ Internal House Side Shield for 64 LEDs (4 modules)

Luminaire Accessories

- ECF-BD-G2** Bird deterrent
ECF-RAM-G2-(F) Retrofit Arm mount kit
ECF-SF-G2-(F) Slip Fitter Mount (fits to 2 3/8" O.D. tenon)
ECF-WS-G2-(F) Wall mount with surface conduit rear entry permitted

EcoForm PTF2
(pole top fitter fits 23/8-21/2" OD x 4" depth tenon)

PTF2-ECF-S/L-1-90-(F) 1 luminaire at 90°

PTF2-ECF-S/L-2-90-(F) 2 luminaires at 90°

PTF2-ECF-S/L-2-180-(F) 2 luminaires at 180°

PTF2-ECF-S/L-3-90-(F) 3 luminaires at 90°

PTF2-ECF-S/L-4-90-(F) 4 luminaires at 90°

PTF2-ECF-S/L-3-120-(F) 3 luminaires at 120°

(F) = Specify finish

EcoForm PTF3
(pole top fitter fits 3-31/2" OD x 6" depth tenon)

PTF3-ECF-S/L-1-90-(F) 1 luminaire at 90°

PTF3-ECF-S/L-2-90-(F) 2 luminaires at 90°

PTF3-ECF-S/L-2-180-(F) 2 luminaires at 180°

PTF3-ECF-S/L-3-90-(F) 3 luminaires at 90°

PTF3-ECF-S/L-4-90-(F) 4 luminaires at 90°

PTF3-ECF-S/L-3-120-(F) 3 luminaires at 120°

EcoForm PTF4
(pole top fitter fits 31/2-4" OD x 6" depth tenon)

PTF4-ECF-S/L-1-90-(F) 1 luminaire at 90°

PTF4-ECF-S/L-2-90-(F) 2 luminaires at 90°

PTF4-ECF-S/L-2-180-(F) 2 luminaires at 180°

PTF4-ECF-S/L-3-90-(F) 3 luminaires at 90°

PTF4-ECF-S/L-4-90-(F) 4 luminaires at 90°

PTF4-ECF-S/L-3-120-(F) 3 luminaires at 120°

Ready to Go configurations (when ordered with the "RS-" catalog code, the following configurations will ship in 2 weeks):

Catalog Number	12NC	Catalog Number	12NC
RS-ECF-S-32L-1A-NW-G2-AR-3-UNV-BZ	912401466002	RS-ECF-S-64L-1A-NW-G2-AR-3-UNV-BK	912401534560
RS-ECF-S-32L-1A-NW-G2-AR-3-UNV-MGY	912401466003	RS-ECF-S-64L-1A-NW-G2-AR-4-UNV-BZ	912401466016
RS-ECF-S-32L-1A-NW-G2-AR-3-UNV-BK	912401534554	RS-ECF-S-64L-1A-NW-G2-AR-4-UNV-MGY	912401466017
RS-ECF-S-32L-1A-NW-G2-AR-4-UNV-BZ	912401466004	RS-ECF-S-64L-1A-NW-G2-AR-4-UNV-BK	912401534561
RS-ECF-S-32L-1A-NW-G2-AR-4-UNV-MGY	912401466005	RS-ECF-S-64L-1A-NW-G2-AR-5-UNV-BZ	912401466018
RS-ECF-S-32L-1A-NW-G2-AR-4-UNV-BK	912401534555	RS-ECF-S-64L-1A-NW-G2-AR-5-UNV-MGY	912401466019
RS-ECF-S-32L-1A-NW-G2-AR-5-UNV-BZ	912401466006	RS-ECF-S-64L-1A-NW-G2-AR-5-UNV-BK	912401534562
RS-ECF-S-32L-1A-NW-G2-AR-5-UNV-MGY	912401466007	RS-ECF-RAM-G2-DGY	912401466487
RS-ECF-S-32L-1A-NW-G2-AR-5-UNV-BK	912401534556	RS-ECF-RAM-G2-MGY	912401466488
RS-ECF-S-48L-1A-NW-G2-AR-3-UNV-BZ	912401466008	RS-ECF-RAM-G2-WH	912401466485
RS-ECF-S-48L-1A-NW-G2-AR-3-UNV-MGY	912401466009	RS-ECF-RAM-G2-BZ	912401466486
RS-ECF-S-48L-1A-NW-G2-AR-3-UNV-BK	912401534557	RS-ECF-RAM-G2-BK	912401466484
RS-ECF-S-48L-1A-NW-G2-AR-4-UNV-BZ	912401466010	RS-HIS-32-H	912401466489
RS-ECF-S-48L-1A-NW-G2-AR-4-UNV-MGY	912401466011	RS-HIS-48-H	912401466491
RS-ECF-S-48L-1A-NW-G2-AR-4-UNV-BK	912401534558	RS-HIS-64-H	912401466493
RS-ECF-S-48L-1A-NW-G2-AR-5-UNV-BZ	912401466012		
RS-ECF-S-48L-1A-NW-G2-AR-5-UNV-MGY	912401466013		
RS-ECF-S-48L-1A-NW-G2-AR-5-UNV-BK	912401534559		
RS-ECF-S-64L-1A-NW-G2-AR-3-UNV-BZ	912401466014		
RS-ECF-S-64L-1A-NW-G2-AR-3-UNV-MGY	912401466015		

ECF-S EcoForm small

Area luminaire

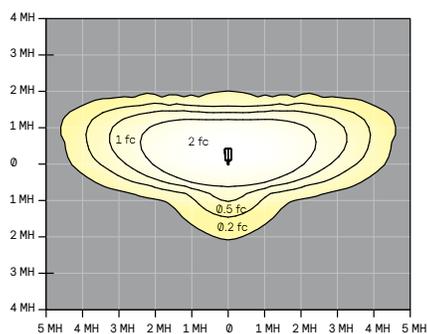
Predicted Lumen Depreciation Data

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L₇₀ is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L₇₀ hours limited to 6 times actual LED test hours

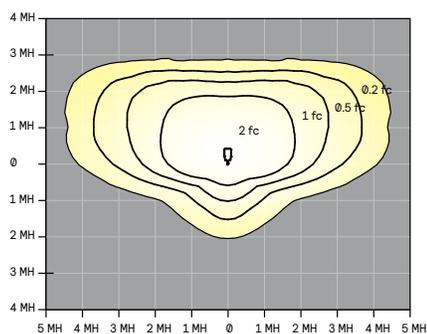
Ambient Temperature °C	Driver mA	Calculated L ₇₀ Hours	L ₇₀ per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	up to 1200 mA	>100,000 hours	>120,000 hours	>99%

Optical Distributions

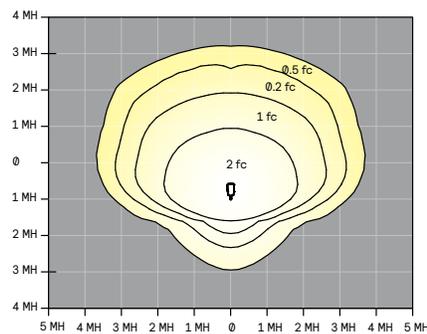
Based on configuration ECF-S-48L-1A-NW-G2 (159W) mounted at 20ft.



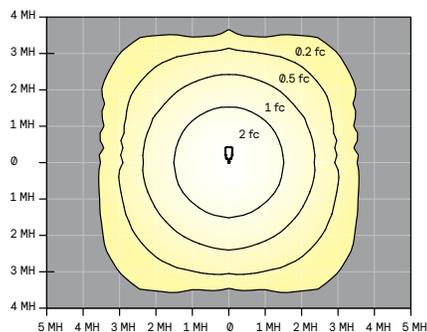
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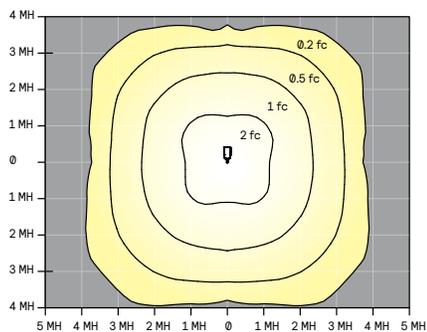
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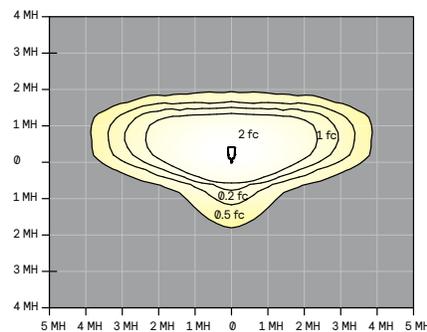
Type 4



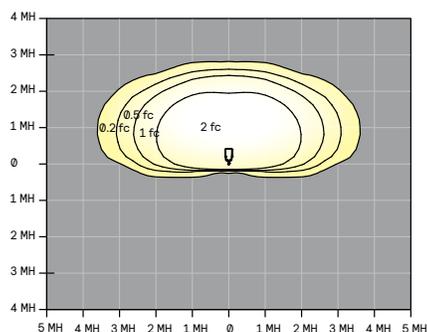
Type 5



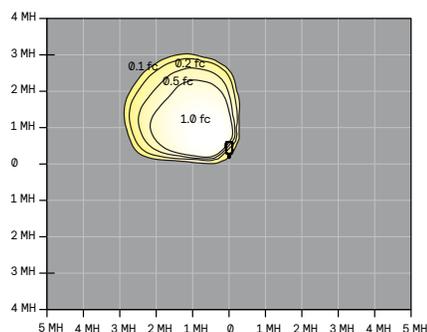
Type 5W



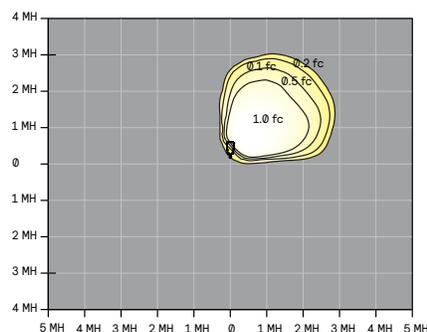
AFR



BLC



LCL



RCL

ECF-S EcoForm small

Area luminaire

3000K LED Wattage and Lumen Values

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4			Type 5			Type 5W		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-WW-G2-x	32	365	3000	40	5,508	B1-U0-G1	138	5,428	B1-U0-G2	136	5,637	B1-U0-G2	141	5,790	B3-U0-G1	145	5,604	B3-U0-G1	140
ECF-S-32L-530-WW-G2-x	32	530	3000	56	7,159	B2-U0-G2	129	7,055	B1-U0-G2	127	7,327	B1-U0-G2	132	7,526	B3-U0-G2	135	7,284	B3-U0-G2	131
ECF-S-32L-700-WW-G2-x	32	700	3000	73	9,234	B2-U0-G2	127	9,034	B2-U0-G2	124	9,452	B2-U0-G2	130	9,707	B4-U0-G2	133	9,395	B4-U0-G2	129
ECF-S-32L-1A-WW-G2-x	32	1050	3000	106	13,001	B3-U0-G2	123	12,719	B2-U0-G2	120	13,306	B2-U0-G3	126	13,665	B4-U0-G2	129	13,227	B4-U0-G2	125
ECF-S-32L-1.2A-WW-G2-x	32	1200	3000	122	14,421	B3-U0-G3	119	14,108	B2-U0-G3	116	14,760	B2-U0-G3	121	15,158	B4-U0-G2	125	14,671	B4-U0-G2	121
ECF-S-48L-900-WW-G2-x	48	900	3000	135	17,115	B3-U0-G3	127	16,744	B3-U0-G3	124	17,518	B2-U0-G3	130	17,990	B4-U0-G2	133	17,413	B5-U0-G3	129
ECF-S-48L-1A-WW-G2-x	48	1050	3000	159	19,381	B3-U0-G3	122	18,960	B3-U0-G3	119	19,836	B3-U0-G4	125	20,372	B5-U0-G3	128	19,717	B5-U0-G3	124
ECF-S-48L-1.2A-WW-G2-x	48	1200	3000	183	21,515	B3-U0-G3	118	21,048	B3-U0-G4	115	22,020	B3-U0-G4	121	22,616	B5-U0-G3	124	21,888	B5-U0-G3	120
ECF-S-64L-900-WW-G2-x	64	900	3000	178	22,652	B3-U0-G3	127	22,161	B3-U0-G4	125	23,185	B3-U0-G4	130	23,810	B5-U0-G3	134	23,045	B5-U0-G3	130
ECF-S-64L-1A-WW-G2-x	64	1050	3000	206	25,520	B3-U0-G3	124	24,966	B3-U0-G4	121	26,120	B3-U0-G4	127	26,150	B5-U0-G3	127	25,964	B5-U0-G4	126

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type AFR			BLC			LCL or RCL		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-WW-G2-x	32	365	3000	40	5,706	B2-U0-G1	143	3,691	B0-U0-G1	94	2,449	B0-U0-G1	62
ECF-S-32L-530-WW-G2-x	32	530	3000	56	7,417	B2-U0-G1	133	5,005	B0-U0-G2	91	3,183	B0-U0-G1	58
ECF-S-32L-700-WW-G2-x	32	700	3000	73	9,567	B2-U0-G2	131	6,409	B0-U0-G2	89	4,106	B0-U0-G1	57
ECF-S-32L-1A-WW-G2-x	32	1050	3000	106	13,467	B3-U0-G2	128	9,024	B1-U0-G2	87	5,793	B0-U0-G2	56
ECF-S-32L-1.2A-WW-G2-x	32	1200	3000	122	14,939	B3-U0-G2	123	10,010	B1-U0-G2	84	6,426	B0-U0-G2	54
ECF-S-48L-900-WW-G2-x	48	900	3000	135	17,731	B3-U0-G2	131	11,880	B1-U0-G2	89	7,626	B0-U0-G2	57
ECF-S-48L-1A-WW-G2-x	48	1050	3000	159	20,076	B3-U0-G2	127	13,453	B1-U0-G2	86	8,636	B0-U0-G2	55
ECF-S-48L-1.2A-WW-G2-x	48	1200	3000	183	22,288	B3-U0-G2	122	14,934	B1-U0-G3	83			
ECF-S-64L-900-WW-G2-x	64	900	3000	178	23,465	B3-U0-G2	132	15,723	B1-U0-G3	90	10,093	B0-U0-G2	58
ECF-S-64L-1A-WW-G2-x	64	1050	3000	206	26,437	B4-U0-G3	128	17,714	B1-U0-G3	87			

4000K LED Wattage and Lumen Values

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4			Type 5			Type 5W		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-NW-G2-x	32	365	4000	40	5,798	B1-U0-G1	145	5,713	B1-U0-G2	143	5,934	B1-U0-G2	148	6,094	B3-U0-G1	152	5,898	B3-U0-G2	147
ECF-S-32L-530-NW-G2-x	32	530	4000	56	7,536	B2-U0-G2	135	7,426	B1-U0-G2	133	7,713	B1-U0-G2	138	7,922	B3-U0-G2	142	7,667	B3-U0-G2	138
ECF-S-32L-700-NW-G2-x	32	700	4000	73	9,720	B2-U0-G2	133	9,509	B2-U0-G2	130	9,949	B2-U0-G2	136	10,218	B4-U0-G2	140	9,889	B4-U0-G2	136
ECF-S-32L-1A-NW-G2-x	32	1050	4000	106	13,685	B3-U0-G2	130	13,388	B2-U0-G3	127	14,006	B2-U0-G3	133	14,384	B4-U0-G2	136	13,923	B4-U0-G2	132
ECF-S-32L-1.2A-NW-G2-x	32	1200	4000	122	15,180	B3-U0-G3	125	14,851	B2-U0-G3	122	15,537	B2-U0-G3	128	15,956	B4-U0-G2	131	15,443	B4-U0-G2	127
ECF-S-48L-900-NW-G2-x	48	900	4000	135	18,016	B3-U0-G3	133	17,625	B3-U0-G3	130	18,440	B3-U0-G3	136	18,937	B4-U0-G3	140	18,329	B5-U0-G3	136
ECF-S-48L-1A-NW-G2-x	48	1050	4000	159	20,401	B3-U0-G3	129	19,958	B3-U0-G4	126	20,880	B3-U0-G4	132	21,444	B5-U0-G3	135	20,755	B5-U0-G3	131
ECF-S-48L-1.2A-NW-G2-x	48	1200	4000	183	22,647	B3-U0-G3	124	22,156	B3-U0-G4	121	23,179	B3-U0-G4	127	23,806	B5-U0-G3	130	23,040	B5-U0-G3	126
ECF-S-64L-900-NW-G2-x	64	900	4000	178	23,844	B3-U0-G3	134	23,327	B3-U0-G4	131	24,405	B3-U0-G4	137	25,063	B5-U0-G3	141	24,258	B5-U0-G4	136
ECF-S-64L-1A-NW-G2-x	64	1050	4000	206	26,863	B3-U0-G3	130	26,280	B3-U0-G4	128	27,495	B3-U0-G4	134	27,526	B5-U0-G3	134	27,330	B5-U0-G4	133

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type AFR			BLC			LCL or RCL		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-NW-G2-x	32	365	4000	40	6,006	B2-U0-G1	150	3,991	B0-U0-G1	101	2,633	B0-U0-G1	67
ECF-S-32L-530-NW-G2-x	32	530	4000	56	7,807	B2-U0-G1	140	5,412	B0-U0-G2	99	3,423	B0-U0-G1	62
ECF-S-32L-700-NW-G2-x	32	700	4000	73	10,070	B2-U0-G2	138	6,930	B0-U0-G2	96	4,415	B0-U0-G1	61
ECF-S-32L-1A-NW-G2-x	32	1050	4000	106	14,176	B3-U0-G2	134	9,756	B1-U0-G2	94	6,229	B0-U0-G2	60
ECF-S-32L-1.2A-NW-G2-x	32	1200	4000	122	15,725	B3-U0-G2	129	10,822	B1-U0-G2	90	6,910	B0-U0-G2	58
ECF-S-48L-900-NW-G2-x	48	900	4000	135	18,664	B3-U0-G2	138	12,843	B1-U0-G2	96	8,200	B0-U0-G2	62
ECF-S-48L-1A-NW-G2-x	48	1050	4000	159	21,133	B3-U0-G2	133	14,544	B1-U0-G3	93	9,286	B0-U0-G2	59
ECF-S-48L-1.2A-NW-G2-x	48	1200	4000	183	23,461	B3-U0-G2	128	16,145	B1-U0-G3	90			
ECF-S-64L-900-NW-G2-x	64	900	4000	178	24,700	B3-U0-G2	139	16,998	B1-U0-G3	97	10,853	B0-U0-G2	62
ECF-S-64L-1A-NW-G2-x	64	1050	4000	206	27,828	B4-U0-G3	135	19,150	B1-U0-G3	94			

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Area luminaire

5000K LED Wattage and Lumen Values

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type 2			Type 3			Type 4			Type 5			Type 5W		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-CW-G2-x	32	365	5000	40	5,798	B1-U0-G1	145	5,713	B1-U0-G2	143	5,934	B1-U0-G2	148	6,094	B3-U0-G1	152	5,898	B3-U0-G2	147
ECF-S-32L-530-CW-G2-x	32	530	5000	56	7,536	B2-U0-G2	135	7,426	B1-U0-G2	133	7,713	B1-U0-G2	138	7,922	B3-U0-G2	142	7,667	B3-U0-G2	138
ECF-S-32L-700-CW-G2-x	32	700	5000	73	9,720	B2-U0-G2	133	9,509	B2-U0-G2	130	9,949	B2-U0-G2	136	10,218	B4-U0-G2	140	9,889	B4-U0-G2	136
ECF-S-32L-1A-CW-G2-x	32	1050	5000	106	13,685	B3-U0-G2	130	13,388	B2-U0-G3	127	14,006	B2-U0-G3	133	14,384	B4-U0-G2	136	13,923	B4-U0-G2	132
ECF-S-32L-1.2A-CW-G2-x	32	1200	5000	122	15,180	B3-U0-G3	125	14,851	B2-U0-G3	122	15,537	B2-U0-G3	128	15,956	B4-U0-G2	131	15,443	B4-U0-G2	127
ECF-S-48L-900-CW-G2-x	48	900	5000	135	18,016	B3-U0-G3	133	17,625	B3-U0-G3	130	18,440	B3-U0-G3	136	18,937	B4-U0-G3	140	18,329	B5-U0-G3	136
ECF-S-48L-1A-CW-G2-x	48	1050	5000	159	20,401	B3-U0-G3	129	19,958	B3-U0-G4	126	20,880	B3-U0-G4	132	21,444	B5-U0-G3	135	20,755	B5-U0-G3	131
ECF-S-48L-1.2A-CW-G2-x	48	1200	5000	183	22,647	B3-U0-G3	124	22,156	B3-U0-G4	121	23,179	B3-U0-G4	127	23,806	B5-U0-G3	130	23,040	B5-U0-G3	126
ECF-S-64L-900-CW-G2-x	64	900	5000	178	23,844	B3-U0-G3	134	23,327	B3-U0-G4	131	24,405	B3-U0-G4	137	25,063	B5-U0-G3	141	24,258	B5-U0-G4	136
ECF-S-64L-1A-CW-G2-x	64	1050	5000	206	26,863	B3-U0-G3	130	26,280	B3-U0-G4	128	27,495	B3-U0-G4	134	27,526	B5-U0-G3	134	27,330	B5-U0-G4	133

Ordering Code	Total LEDs	LED Current (mA)	Color Temp.	Average System Watts	Type AFR			BLC			LCL or RCL		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-CW-G2-x	32	365	5000	40	6,006	B2-U0-G1	150	3,991	B0-U0-G1	101	2,633	B0-U0-G1	67
ECF-S-32L-530-CW-G2-x	32	530	5000	56	7,807	B2-U0-G1	140	5,412	B0-U0-G2	99	3,423	B0-U0-G1	62
ECF-S-32L-700-CW-G2-x	32	700	5000	73	10,070	B2-U0-G2	138	6,930	B0-U0-G2	96	4,415	B0-U0-G1	61
ECF-S-32L-1A-CW-G2-x	32	1050	5000	106	14,176	B3-U0-G2	134	9,756	B1-U0-G2	94	6,229	B0-U0-G2	60
ECF-S-32L-1.2A-CW-G2-x	32	1200	5000	122	15,725	B3-U0-G2	129	10,822	B1-U0-G2	90	6,910	B0-U0-G2	58
ECF-S-48L-900-CW-G2-x	48	900	5000	135	18,664	B3-U0-G2	138	12,843	B1-U0-G2	96	8,200	B0-U0-G2	62
ECF-S-48L-1A-CW-G2-x	48	1050	5000	159	21,133	B3-U0-G2	133	14,544	B1-U0-G3	93	9,286	B0-U0-G2	59
ECF-S-48L-1.2A-CW-G2-x	48	1200	5000	183	23,461	B3-U0-G2	128	16,145	B1-U0-G3	90			
ECF-S-64L-900-CW-G2-x	64	900	5000	178	24,700	B3-U0-G2	139	16,998	B1-U0-G3	97	10,853	B0-U0-G2	62
ECF-S-64L-1A-CW-G2-x	64	1050	5000	206	27,828	B4-U0-G3	135	19,150	B1-U0-G3	94			

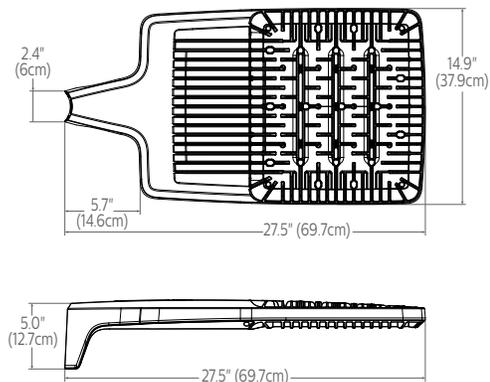
ECF-S EcoForm small

Area lumineuse

Dimensions

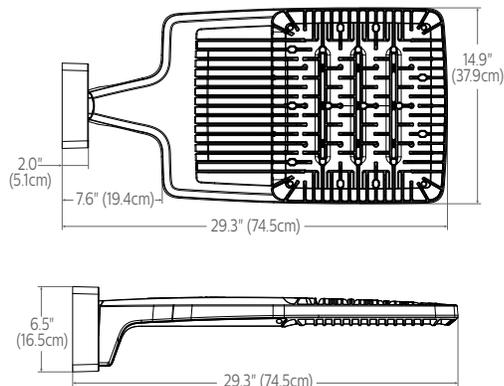
Standard Arm (AR)

Weight: 22 Lbs (9.9 Kg) EPA: 0.21ft² (.019m²)



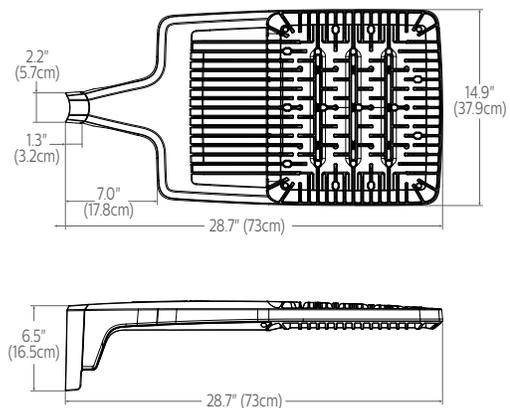
Wall (WS)

Weight: 27 Lbs. (12. 2Kg)EPA: 0.27ft² (.025m²)



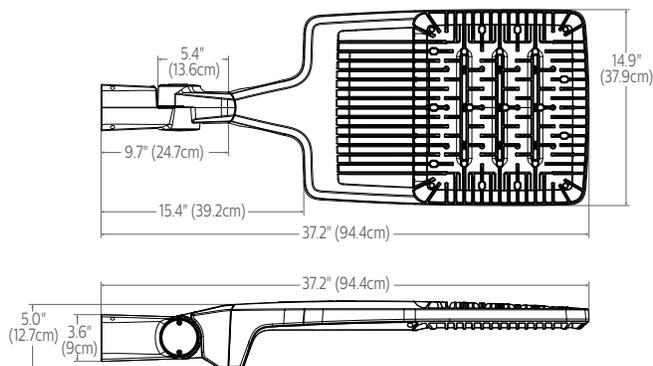
Retrofit Arm (RAM)

Weight: 24 Lbs (10.9 Kg) EPA: 0.24ft² (.022m²)

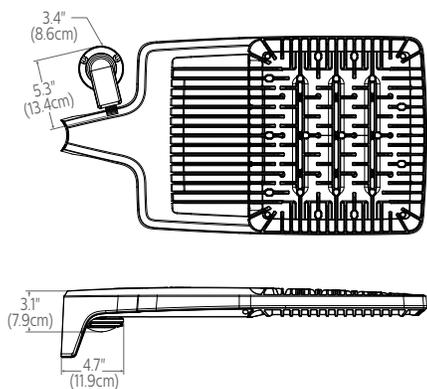


Slip fitter (SF)

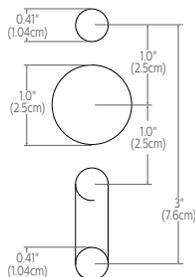
Weight: 27 Lbs (12.2 Kg) EPA: 0.33ft² (.031m²)



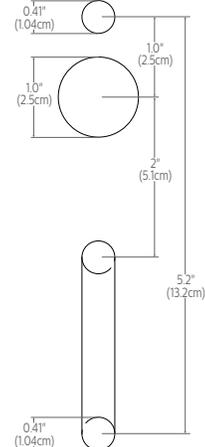
Outboard IMR-HVU sensor



Standard Arm (AR) drill pattern



Retrofit Arm (RAM) drill pattern



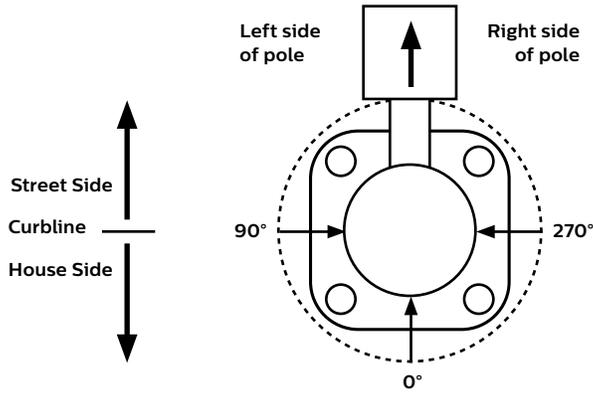
ECF-S EcoForm small

Area luminaire

Optical Orientation Information

Standard Optic Position

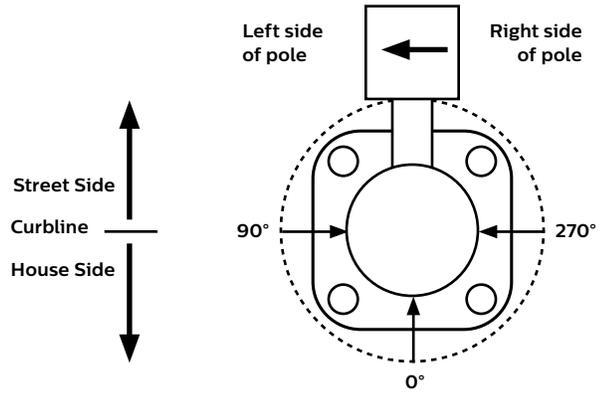
Luminaires ordered with asymmetric optical systems in the standard optic position will have the optical system oriented as shown below:



Note: The hand hole will normally be located on the pole at the 0° point.

Optic Rotated Left (90°) Optic Position

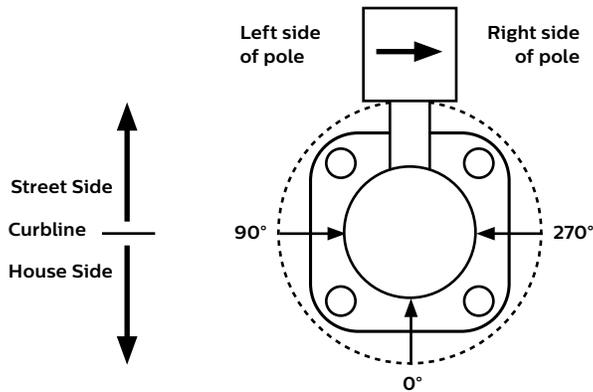
Luminaires ordered with optical systems in the Optic Rotated Left (90°) optic position will have the optical system oriented as shown below (Type 5 and 5W optics are not available with factory set rotatable optics):



Note: The hand hole will normally be located on the pole at the 0° point.

Optic Rotated Right (270°) Optic Position

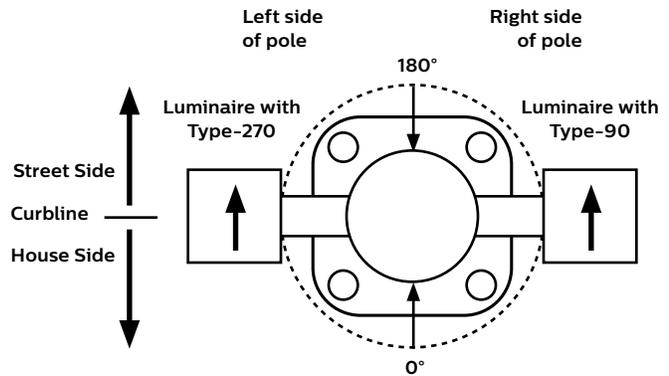
Luminaires ordered with optical systems in the Optic Rotated Right (270°) optic position will have the optical system oriented as shown below (Type 5 and 5W optics are not available with factory set rotatable optics):



Note: The hand hole will normally be located on the pole at the 0° point.

Twin Luminaire Assemblies with Type-90/Type-270 Rotated Optical Systems

Twin luminaire assemblies installed with rotated optical systems are an excellent way to direct light toward the interior of the site (Street Side) without additional equipment. It is important, however, that care be exercised to insure that luminaires are installed in the proper location.



Luminaires with Optic Rotated Right (270°) are installed on the LEFT Side of Pole

Luminaires with Optic Rotated Left (90°) are installed on the RIGHT Side of Pole

Note: The hand hole location will depend on the drilling configuration ordered for the pole.

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Area luminaire

Specifications

Housing

One-piece die cast aluminum housing with integral arm and separate, self-retained hinged, one-piece die cast door frame. Luminaire housing rated to IP65, tested in accordance to Section 9 of IEC 60598-1.

Vibration resistance

Luminaire is tested and rated 3G over 100,000 cycles conforming to standards set forth by ANSI C136.31-2018. Testing includes vibration in three axes, all performed on the same luminaire.

Light engine

Light engine comprises of a module of 16-LED aluminum metal clad board fully sealed with optics offered in multiples of 2, 3, and 4 modules or 32, 48, and 64 LEDs. Module is RoHS compliant. Color temperatures: 3000K +/-125K, 4000K, 5000K +/- 200K. Minimum CRI of 70. LED light engine is rated IP66 in accordance to Section 9 of IEC 60598-1.

Energy saving benefits

System efficacy up to 152 lms/W with significant energy savings over Pulse Start Metal Halide luminaires. Optional control options provide added energy savings during unoccupied periods.

Optical systems

Type 2, 3, 4, 5, 5W, and AFR distributions available. Internal Shield option mounts to LED optics and is available with Type 2, 3, 4, and AFR distributions, including a dedicated BLC, LCL, and RCL optics to provide the best backlight control possible for those stringent requirements around property lines. Types 2, 3, 4, AFR, and BLC when specified and used as rotated, are factory set only. Performance tested per LM-79 and TM-15 (IESNA) certifying its photometric performance. Luminaire designed with 0% uplight (U0 per IESNA TM-15).

Mounting

Standard luminaire arm mounts to 4" O.D. round poles. Can also be used with 5" O.D. poles. Square pole adapter included with every luminaire. Round Pole Adapter (RPA) required for 3-3.9" poles. EcoForm features a retrofit arm kit. When specified with the retrofit arm (RAM) option, EcoForm seamlessly simplifies site conversions to LED by eliminating the need for additional pole drilling on most existing poles. RAM will be boxed separately. Also optional are slipfitter and wall mounting accessories. Note that only fixed mounts (AR, RAM, WS) are required to meet IDA compliance. SF mounting will not meet IDA.

Control options

0-10V dimming (DD): Access to 0-10V dimming leads supplied through back of luminaire (for secondary dimming controls by others). Cannot be used with other control options.

Dual Circuit Control (DCC): Luminaire equipped with the ability to have two separate circuits controlling drivers and light engines independently. Permits separate switching of separate modules controlled by use of two sets of leads, one for each circuit. Not recommended to be used with other control options, motion response, or photocells.

Sensor Ready Zhaga Socket Connector (SRDR): Product equipped with Sensor Ready drivers connected to 4-pin Zhaga Book 18 compliant receptacle designed for sensor and other control system applications. Receptacle is rated IP66 assembly in a compact design that provides a sealed electrical interface and rated UV resistance, mounted on underside of the luminaire, protective dust cap included. When a controller not provided by Signify is used with Sensor Ready Zhaga socket connector, the controller must be certified to work with the Xitanium SR LED drivers as part of the SR certified program. SRDR can be used with NEMA 7-pin twist lock receptacle, which is mounted on top of the luminaire.

Automatic Profile Dimming (CS/CM/CE/CA): Standard dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with not programmed motion response it overrides the controller's schedule when motion is detected. After 5 minutes with no motion, it will return to the automatic dimming profile schedule. Automatic dimming profile scheduled with the following settings:

- **CS50/CS30:** Security for 7 hours night duration (Ex., 11 PM - 6 AM)
- **CM50/CM30:** Median for 8 hours night duration (Ex., 10 PM - 6 AM)

All above profiles are calculated from mid point of the night. Dimming is set for 6 hours after the mid point and 1 or 2 hours before depending of the duration of dimming. Cannot be used with other dimming control options.

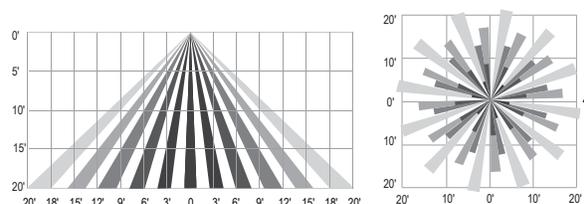
Field Adjustable Wattage Selector (FAWS): Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position at the lumen output selected. Use chart below to estimate reduction in lumen output desired. Cannot be used with other control options or motion response.

FAWS Position	Percent of Typical Lumen Output
1	25%
2	50%
3	55%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

Note: Typical value accuracy +/- 5%

Wireless system (LLC): Optional wireless controller integral to luminaire ready to be connected to a Lighthouse system (sold by others). The system allows you to wirelessly manage the entire site, independent lighting groups or individual luminaires while on-site or remotely. Based on a high-density mesh network with an easy to use web-based portal, you can conveniently access, monitor and manage your lighting network remotely. Wireless controls can be combined with site and area, pedestrian, and parking garage luminaires as well, for a completely connected outdoor solution. Equipped with motion response with #3 lens for 8-25' mounting heights. Also available with remote pod accessory where pod is mounted separate from luminaire to pole or wall.

LLC wireless controller with #3 lens



Motion response options

Bi-Level Infrared Motion Response (BL-IMRI): Motion Response module is mounted integral to luminaire factory pre-programmed to 50% dimming when not ordered with other control options. BL-IMRI is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to full power/light output. Dimming on low is factory set to 50% with 5 minutes default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50%, to 50% of the normal constant wattage reducing the light level. Other dimming settings can be provided if different dimming levels are required. This can also be done with FSIR-100 Wireless Remote Programming Tool (contact Technical Support for details).

Infrared Motion Response with Other Controls: When used in combination with other controls (Automatic Dimming Profile), motion response device will simply override controller's schedule with the added benefits of a combined dimming profile and sensor detection. In this configuration, the motion response device cannot be re-programmed with FSIR-100 Wireless Remote Programming Tool. The profile can only be re-programmed via the controller.

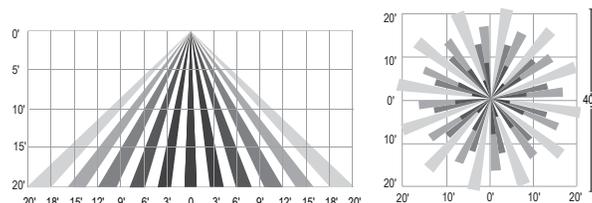
ECF-S EcoForm small

Area luminaire

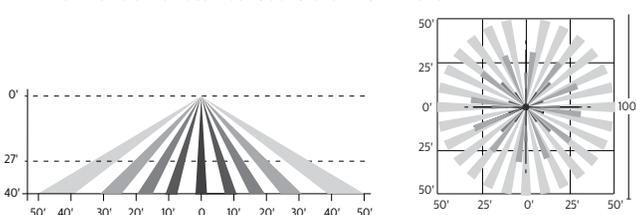
Specifications

Infrared Motion Response Lenses (IMRI3/IMRI7): Infrared Motion Response Integral module is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges. Lens #3 (IMRI3) is designed for mounting heights up to 20' with a 40' diameter coverage area. Lens #7 is designed for higher mounting heights up to 40' with larger coverage areas up to 100' diameter coverage area. See charts for approximate detection patterns:

IMRI3 Luminaire or remote mount controller with #3 lens



IMRI7 Luminaire or remote mount controller with #7 lens



Electrical

Twist-Lock Receptacle (TLRD5/TLRD7/ TLRPC): Twist Lock Receptacle with 5 pins enabling dimming or with 7 pins with additional functionality (by others) can be used with a twistlock photoelectric cell or a shorting cap. Dimming Receptacle Type B (5-pin) and Type D-24 (7-pin) in accordance to ANSI C136.41. Can be used with third-party control system. Receptacle located on top of luminaire housing. When specifying receptacle with twistlock photoelectric cell, voltage must be specified. When ordering 7-pin Twist-lock receptacle (TLRD7), all 7 pins are wired to respective pins with the Sensor Ready (SR) driver, and photocell or shorting cap is not included. When ordering a twist-lock receptacle with a photocell (TLRPC), the receptacle used is a 5-pin receptacle, so pins 6 and 7 are not available (no SR driver). 0-10V dimming leads (pins 4 and 5) are connected if not ordered with any other dimming option.

Buy American Act of 1933 (BAA):

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit www.signify.com/baa to view a current list of BAA-compliant products to confirm this product's current compliance.

Driver: Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. All drivers are 0-10V dimming to 10% power standard, except when using Sensor Ready (SR) drivers, which uses DALI protocol (options CS50/CM50/CS30/CM30, SRDR, and TR7). Drivers are RoHS and FCC Title 47 CFR Part 15 compliant.

Button Photocontrol (PCB): Button style design for internal luminaires mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light.

Surge protection (SP1/SP2): Surge protection device tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with DOE MSSLC Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High test level 10kV/10kA, 20kV / 10kA surge protection device that provides extra protection beyond the SP1 10kV/10kA level.

Listings

UL/cUL wet location listed to the UL 1598 standard, suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). Most EcoForm configurations are qualified under Premium and Standard DesignLights Consortium® categories. Consult DLC Qualified Products list to confirm your specific luminaire selection is approved. CCTs 3000K and warmer are Dark Sky Approved.

Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult factory for specs on optional or custom colors.

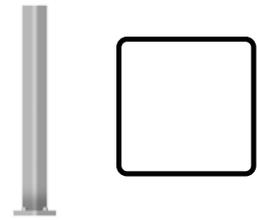
Service Tag

Each individual luminaire is uniquely identifiable, thanks to the Service tag application. With a simple scan of a QR code, placed on the inside of the mast door, you gain instant access to the luminaire configuration, making installation and maintenance operations faster and easier, no matter what stage of the luminaire's lifetime. Just download the APP and register your product right away. For more details visit: signify.com

Warranty

EcoForm luminaires feature a 5-year limited warranty. See signify.com/warranties for complete details and exclusions.





Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Notes: _____

The **Gardco SSS Straight Square Steel** pole consists of a one-piece high tensile carbon steel tube welded and secured to the carbon steel base plate providing excellent strength and integrity. The poles are finished with an electrostatically applied, thermally cured polyester powdercoat. All poles include base cover, hand hole, ground lug and top cap. Anchor bolts and templates are ordered as a separate accessory.

Ordering guide

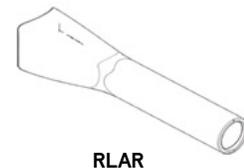
example: SSS-CB-4-11-12-D1-DT1-BK-FES

Family	Base	Pole Shaft Size (in.)	Pole Gauge/Wall Thickness	Height (ft) ⁵	Drilling/Tenon Configurations ¹	Drilling Template ²	Finish	Options ³
SSS	CB	4	11	14	D2	DT5	FINI	
SSS	CB Carbon Steel Base w/ Base Cover	4	11 11 ga. / 0.120"	10 12 14 15 16 18 20 25	D1 1 Way D1@180 1 Way @ 180 D2 2 Way @ 180 D2@90 2 Way @ 90 D3 3 Way @ 90 D4 4 Way @ 90	DT1 Drill Template 1 DT2 Drill Template 2 DT3 Drill Template 3 DT4 Drill Template 4 DT5 Drill Template 5 DT6 Drill Template 6 [DTX-xxx] ^{6,7} Custom Template See drill template chart for details.	BK Black BZ Bronze WH White DG Dark Grey MG Medium Grey GY3 ⁸ Light Grey, Smooth	FES ⁶ Festoon Outlet VDA Vibration Dampener AHH ⁶ Additional Hand Hole DR ^{6,8} Duplex Receptacle VPA Vandalproof Screws GFI ^{6,8} DR with GFI (120V only) BAC ⁹ Buy American Compliant CL1/2 ⁶ Coupling 1/2" CL3/4 ⁶ Coupling 3/4" CL1 ⁶ Coupling 1" CL1-1/4 ⁶ Coupling 1-1/4" CL1-1/2 ⁶ Coupling 1-1/2" NL1/2 ⁶ Nipple 1/2" NL3/4 ⁶ Nipple 3/4" NL1 ⁶ Nipple 1" NL1-1/4 ⁶ Nipple 1-1/4" NL1-1/2 ⁶ Nipple 1-1/2"
			7 7 ga. / 0.180"	20 25 30			SSDGY ⁸ SolarForm Dark Grey (RAL 7011) GV Galvanized (No Paint) FP/GV Finished Textured Paint over Galvanized (Specify, ex: MG/GV) OC Optional Color Paint (ex: RAL7024) SC ⁶ Special/ Custom Color (Specify, must supply color chip)	
		5	11 11 ga. / 0.120"	20 25 30	T2D4L 2-3/8" OD x 4" length T2D6L ⁸ 2-3/8" OD x 6" length T3D4L 3" OD x 4" length T4D6L 4" OD x 6" length	N No Drilling Template (for Tenon and Plain Top Options)		
			7 7 ga. / 0.180"	20 25 30 35				
L/SSS		6	7 7 ga. / 0.180"	30 35 40	No Drilling/No Tenon P Plain Top			

- See Drilling Configurations on Page 3.
- See Luminaire Drilling Templates on Page 3
- Not all options available with all configurations. Consult factory for more details
- Options listed with *gray text* will be shipped with the Legacy SSS design. Use the L/SSS family code whenever these options are specified.
- Pole heights can be cut to length. Specify as a whole number in ft. (ex. 11, 13) or to the inch as a decimal (ex. 15.33 = 15' 4") or as "15FT 4IN" for Legacy designs.
- Option must be specified, including install location, by the customer before order release. FES, DR, GFI, AHH options typically must be placed 12-18" away from standard hand hole (20" or 12" above base).
- Custom drill templates (DTX) require factory quote.
- Option not available with Legacy SSS designs.
- Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.
- Consult Signify to confirm whether specific accessories are BAA-compliant.

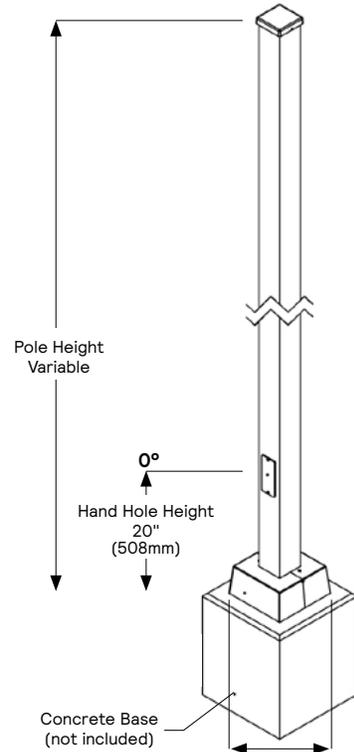
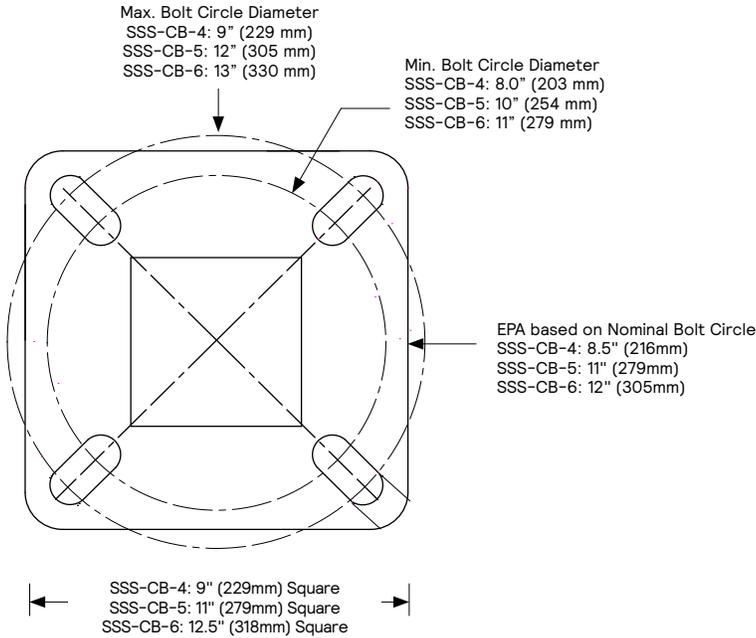
Accessories ¹⁰

Service	Pole Size	12NC	Description (Diameter x Length x Hook)
Anchor Bolts + Templates			
For shipment with the pole (order 1 per pole)	4" Poles	912401597397	AB 3/4x24x3-G DEC w/ 8.5 BC ABT
	5" Poles	912401613107	AB 1x33x3-G DEC w/ 11 BC ABT
	6" Poles	912401597401	AB 1x33x3-G DEC w/ 12 BC ABT
For Pre-Ship service (order 1 per pole)	4" Poles	912401597405	AB 3/4x24x3-G DEC w/ 8.5 BC ABT-RS
	5" Poles	912401613106	AB 1x33x3-G DEC w/ 11 BC ABT-RS
	6" Poles	912401597408	AB 1x33x3-G DEC w/ 12 BC ABT-RS
Part No.	Description		
RLAR-1A-SQ4+ -(finish)	Cast aluminum mounting arm, 15" long with DT6 drill pattern (order 1 per luminaire). For use with Lumec Roadway and Gardco SolarForm luminaires (for SolarForm: use RLAR bracket to mount horizontally, use T2D6L tenon to mount vertically). Specify finish to match pole.		



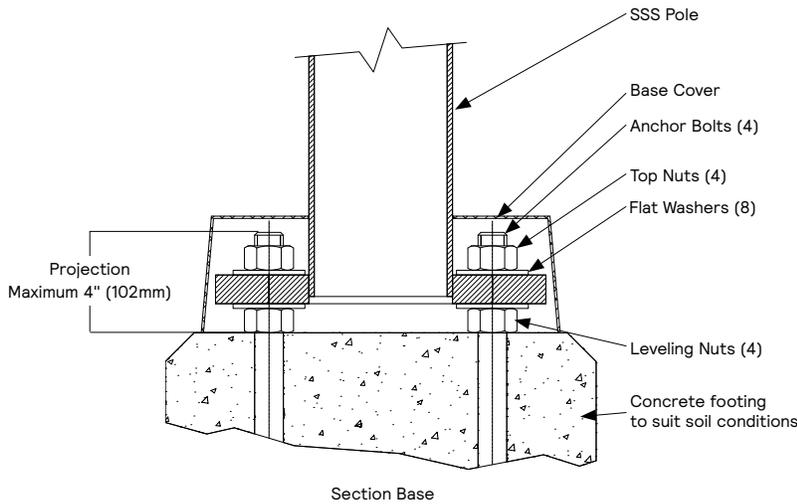
Poles Straight Square Steel

Dimensions



Base Cover Dimensions (L x W x H)
 SSS-CB-4: 9.80" x 9.80" x 4.58" (245mm x 245mm x 116mm)
 SSS-CB-5: 11.80" x 11.80" x 4.58" (300mm x 300mm x 116mm)
 SSS-CB-6: 13.30" x 13.30" x 4.58" (338mm x 338mm x 116mm)

SSS Legacy Design not shown.
Base Cover: Square
Hand Hole: 12" Above Base



* Anchor Bolt Lock Washers are not normally required and are not included in standard anchor bolt sets. They are available upon request at additional cost.

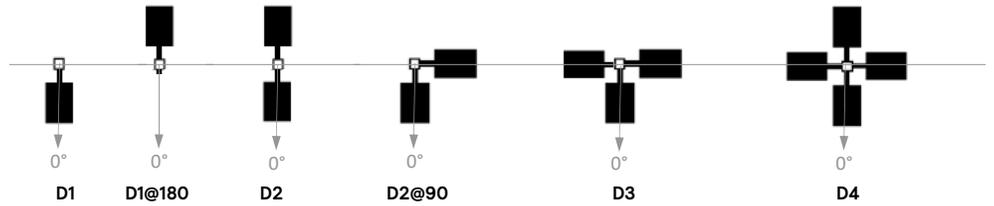
** Grouting should include a drainage slot or tube (by others) to permit water to drain from the base of the pole. Failure to provide drainage may weaken the pole base structure over time and may result in pole base failure, for which Gardco is not responsible.

NOTE: Factory supplied template must be used when setting anchor bolts. Gardco will not honor any claim for incorrect anchorage placement from failure to use factory supplied templates.

Poles Straight Square Steel

Drilling Configuration

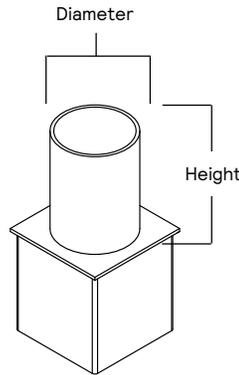
Code	Description
D1	Single luminaire
D1@180	Single luminaire @ 180
D2	Two luminaires @ 180
D2@90	Two luminaires @ 90
D3	Three luminaires @ 90
D4	Four luminaires @ 90



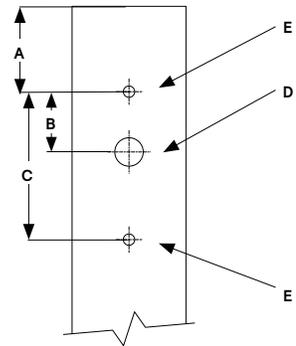
Ref. access door at 0° for all
Legacy design places access door at 180°

Tenon Dimensions

Tenon	Diameter	Height
T2D4L	2.375" (60mm)	4" (102mm)
T2D6L	2.375" (60mm)	6" (152mm)
T3D4L	3" (76mm)	4" (102mm)
T4D6L	4" (102mm)	6" (152mm)



Pole Top Drilling



Luminaire Drill Pattern

Code	Description	Luminaires	Pole Drilling				
			A To Pole Top	B	C Full Extent	D Wireway Hole	E Bolt Hole
DT1	Drill Template 1	Gardco SlenderForm Round SFRA	2.25" (57mm)	1.5" (38.1mm)	3" (76mm)	0.875" (22.2mm)	0.40" (10.2mm)
DT2	Drill Template 2	Gardco SlenderForm Square - SFA Gardco Gullwing - GL13, GL18 Gardco Form Ten - EH14L, EH19L, CAL17, CAL22, MAL17, MAL22	2.25" (57mm)	2.17" (55mm)	3.84" (98mm)	0.875" (22.2mm)	0.39" (9.9mm)
DT3	Drill Template 3	Gardco PowerForm PFAS	2.25" (57mm)	1.75" (44mm)	3.84" (98mm)	0.875" (22.2mm)	0.41" (10.4mm)
DT4	Drill Template 4	Gen1 Stonco/Keene AL150-G1, AL200-G1	2.5" (64mm)	1.7" (43mm)	3.5" (89mm)	0.875" (22.2mm)	0.41" (10.4mm)
DT5	Drill Template 5	Gardco EcoForm Gen2 - ECF-S, ECF-L Gardco PureForm Gen2 - P15, P20, P26, P34	3" (76mm)	1" (25mm)	3" (76mm)	1" (25mm)	0.41" (10.4mm)
DT6	Drill Template 6	Hole pattern drilled for the following: Gen2 Stonco/Keene AL70-G2 and AL150-G2, or to attach RLAR bracket accessory, suitable for use with: Lumec Capella CPLM, CPLS Lumec RoadStar GPLM, GPLS Lumec RoadFocus RFS, RFM, RFL Lumec RoadView RVM, RVS Lumec MiniView SVS Lumec StreetView SVM Gardco SolarForm BRP710	2.5" (64mm)	1" (25mm)	2" (50mm)	0.875" (22mm)	0.5" (12.7mm)

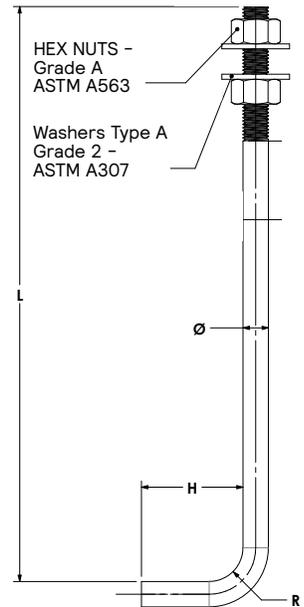
Poles Straight Square Steel

Pole Data

Product Catalog Number	Pole Specs				Anchor Bolt Data			
	Height (ft.)	Pole Diameter (in.)	Wall Thickness (in.)	Pole Weight (lbs)	Bolt Circle (in.)	Anchor Bolt Spec (in.)	Legacy Anchor Bolt Spec (in.)	Anchor Bolt Max Proj. (in.)
SSS-CB-4-11-10	10	4	0.12	63	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-12	12	4	0.12	76	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-14	14	4	0.12	88	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-15	15	4	0.12	94	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-16	16	4	0.12	101	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-18	18	4	0.12	113	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-20	20	4	0.12	126	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-25	25	4	0.12	157	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-7-20	20	4	0.18	185	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-7-25	25	4	0.18	232	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
● SSS-CB-4-7-30	30	4	0.18	278	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-5-11-20	20	5	0.12	158	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
SSS-CB-5-11-25	25	5	0.12	197	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
● SSS-CB-5-11-30	30	5	0.12	237	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
SSS-CB-5-7-20	20	5	0.18	234	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
SSS-CB-5-7-25	25	5	0.18	292	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
● SSS-CB-5-7-30	30	5	0.18	350	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
● SSS-CB-5-7-35	35	5	0.18	409	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
● SSS-CB-6-7-30	30	6	0.18	423	12 (+/- 1)	1 x 33 x 3	1 x 33 x 3	4
● SSS-CB-6-7-35	35	6	0.18	493	12 (+/- 1)	1 x 33 x 3	1 x 33 x 3	4
● SSS-CB-6-7-40	40	6	0.18	564	12 (+/- 1)	1 x 33 x 3	1 x 33 x 3	4

● SSS Legacy Design

Standard Anchor Bolt



Pole Data (cont.)

Product Catalog Number	AASHTO 2001 - EPA ft ²								CSA - EPA ft ²							
	80 MPH	90 MPH	100 MPH	110 MPH	120 MPH	130 MPH	140 MPH	150 MPH	300 Pa 79 MPH	400 Pa 91 MPH	500 Pa 102 MPH	600 Pa 111 MPH	700 Pa 120 MPH	800 Pa 129 MPH	900 Pa 136 MPH	1000 Pa 144 MPH
SSS-CB-4-11-10	30.00	26.82	21.25	17.13	13.99	11.55	9.62	8.07	30.00	27.03	21.10	17.15	14.34	12.23	10.59	9.27
SSS-CB-4-11-12	28.31	21.72	17.04	13.55	10.88	8.83	7.19	5.88	30.00	21.74	16.76	13.44	11.08	9.30	7.92	6.82
SSS-CB-4-11-14	23.54	17.83	13.77	10.77	8.48	6.69	5.26	4.15	24.79	17.66	13.40	10.53	8.51	6.98	5.79	4.85
SSS-CB-4-11-15	21.53	16.22	12.41	9.57	7.43	5.76	4.44	3.36	22.58	15.92	11.94	9.30	7.40	5.96	4.87	3.97
SSS-CB-4-11-16	19.70	14.69	11.12	8.48	6.47	4.91	3.65	2.66	20.58	14.37	10.65	8.16	6.37	5.05	4.03	3.19
SSS-CB-4-11-18	16.19	11.82	8.72	6.43	4.67	3.30	2.21	1.33	17.07	11.59	8.31	6.12	4.56	3.38	2.47	1.74
SSS-CB-4-11-20	13.29	9.46	6.72	4.67	3.13	1.92	N/A	N/A	14.07	9.20	6.29	4.34	2.95	1.90	1.10	N/A
SSS-CB-4-11-25	7.78	4.86	2.78	1.22	N/A	N/A	N/A	N/A	7.95	4.26	2.06	N/A	N/A	N/A	N/A	N/A
SSS-CB-4-7-20	22.23	16.63	12.62	9.65	7.40	5.65	4.26	3.15	23.05	15.94	11.67	8.83	6.78	5.26	4.09	3.15
SSS-CB-4-7-25	14.87	10.59	7.54	5.28	3.56	2.23	1.16	N/A	14.83	9.42	6.17	4.01	2.46	1.31	N/A	N/A
● SSS-CB-4-7-30	9.63	6.25	3.82	2.01	N/A	N/A	N/A	N/A	8.36	4.20	1.72	N/A	N/A	N/A	N/A	N/A
SSS-CB-5-11-20	22.64	16.51	12.13	8.89	6.43	4.51	2.99	1.76	24.95	17.04	12.29	9.10	6.84	5.14	3.82	2.76
SSS-CB-5-11-25	14.32	9.62	6.25	3.79	1.90	N/A	N/A	N/A	16.16	10.00	6.29	3.83	2.06	N/A	N/A	N/A
● SSS-CB-5-11-30	8.28	4.53	1.86	N/A	N/A	N/A	N/A	N/A	9.30	4.42	1.48	N/A	N/A	N/A	N/A	N/A
SSS-CB-5-7-20	30.00	27.78	21.37	16.63	13.01	10.21	7.97	6.17	30.00	28.15	21.16	16.51	13.19	10.71	8.77	7.21
SSS-CB-5-7-25	25.42	18.54	13.62	9.97	7.19	5.05	3.34	1.98	27.74	18.68	13.23	9.61	7.02	5.08	3.56	2.37
● SSS-CB-5-7-30	17.45	11.94	8.01	5.08	2.88	1.16	N/A	N/A	18.54	11.33	7.02	4.12	2.07	N/A	N/A	N/A
● SSS-CB-5-7-35	11.37	6.84	3.62	1.22	N/A	N/A	N/A	N/A	10.73	5.08	1.70	N/A	N/A	N/A	N/A	N/A
● SSS-CB-6-7-30	27.54	19.44	13.66	9.38	6.14	3.59	1.57	N/A	30.00	20.55	13.99	9.59	6.47	4.11	2.27	N/A
● SSS-CB-6-7-35	19.06	12.39	7.60	4.05	1.36	N/A	N/A	N/A	21.06	12.23	6.96	3.42	N/A	N/A	N/A	N/A
● SSS-CB-6-7-40	12.29	6.64	2.60	N/A	N/A	N/A	N/A	N/A	12.21	5.17	N/A	N/A	N/A	N/A	N/A	N/A

- Warning:** Additional wind loading, in terms of EPA, from banners, cameras, floodlights and other accessories attached to the pole, must be added to the luminaire(s) EPA before selecting the pole with the appropriate wind load capability. Specifying BAA or BAC compliant poles may result in different EPA ratings.
- Factory supplied template must be used when setting anchor bolts. Gardco will not honor any claim for incorrect anchorage placement resulting from failure to use factory supplied templates. Exact length of anchor bolts may vary.
- EPA ratings are based on the listed, optimal midpoint of the bolt circle. The bolt circle has limited variability but the EPA rating will change.

NOTE: Above EPA (Effective Projected Area) rating is in accordance with AASHTO 2001, with a 50 pound load (22.7 kg) placed at 1 foot (305mm) above its center.

Poles Straight Square Steel

Specifications

Pole shaft

The pole shaft is fabricated from a single piece of 11 ga (0.1196") or 7 ga (0.180") high tensile carbon steel. The formed steel plate is longitudinally welded providing minimum yield strength of 50 ksi. Shaft includes factory installed copper ground lug, 10-7 copper wire, and ground lug screw.

Anchor Base

The pole anchor base is fabricated from 44W structural quality carbon steel with a minimum yield strength of 44 ksi. The base plate is circumferentially welded on both top and bottom.

Anchor Bolts

Anchor bolts are fabricated from a commercial quality hot rolled carbon steel bar that meets or exceeds a minimum guaranteed yield strength of 55 ksi. Bolts have an "L" bend on one end and threaded on the opposite end. Anchor bolts are galvanized in accordance with ASTM A-153.6 C1.C. Four (4) properly sized bolts, each furnished with two (2) regular hex nuts and two (2) flat washers, are provided per pole (priced and ordered separately), unless otherwise specified. Conforms to AASHTO M 314 90 and ASTM F1554.

Customer Specified Options

The options, DTX, FES, DR, GFI, AHH, CL*, and NL* require factory quotation. Poles with custom drilling templates (DTX) are provided as a service, however Signify holds no liability for improper installation and safety when using non-Signify luminaires or attachments on Gardco poles via drilling, tenon mounting, or coupling and nipple mounting. It is the responsibility of the customer to ensure the pole is loaded and installed in a safe manner to the limitations of the pole structure. See "Warning" paragraph for more details.

Base Cover

A two-piece painted square aluminum base cover that completely conceals the entire base plate and anchorage. Base cover is provided standard. Legacy design is provided with a composite base cover.

Hand hole

The hand hole has a nominal rectangular 2"x4.5" inside opening in the pole shaft. Included is an aluminum cover plate, EPDM gasket, and captive attachment screws. The hand hole is located 20" above the base and 0° clockwise with respect to the luminaire arm when viewed from the top of the pole for one arm. For two arms the hand hole is located directly under one arm. Legacy design includes an easy to install, self-contained Swing Latch hand hole cover assembly. U.S. Patent Swing Latch cover is fabricated from durable polycarbonate/ABS blend plastic. All pole assemblies are provided with a 2.50" x 5.00" rectangular hand hole.

Pole Top Cap

Each pole assembly is provided with a removable aluminum pole top cap painted to match the specified pole and attached with two pressure screws. Legacy design is provided with a removable plastic top push cap. Finish is Black.

Finish

Poles are available with Gardco's standard textured color finishes - Black, White, Bronze, Dark Grey, Medium Grey, and Lumec GY3 for a match with roadway luminaire finishes. Optional Galvanized finish and custom colors also available. Legacy design is provided with gloss paint on standard finishes.

Couplings and Nipples

Couplings (NPSC standard internal threads) and Nipples (NPT standard external threads) are available to mount 3rd party objects to the pole. For most applications Couplings and Nipples must be at least 4' from the base of the pole. Lengths are as follows:

Couplings < 1" dia. = 1" length
Couplings >= 1" dia. = 1.5" length
Nipples < 1" dia. = 1.5" length
Nipples >= 1" dia. = 2" length

Legacy pole designs may deviate from specifications listed here. See "Customer Specified Options" paragraph for more details.

Duplex Receptacle (DR and GFI)

DR and GFI options are placed at 2' below the pole top on the same side as the hand hole unless otherwise specified. DR or GFI options cannot be placed within 1' of the the hand hole. Options can typically be placed 32" above base for utility purposes. Maximum output of the receptacles are 15A.

General Pole Information

Design

EPA specs conform to AASHTO 2001 standard. The poles as charted are designed to withstand dead loads and predicted dynamic loads developed by variable wind pressure with an additional 2.5 gust factor under the following conditions: The charted weights include luminaire(s) and/or mounting bracket(s). Poles installed in areas of known abnormal conditions may require special consideration. For example: coastal areas, airports and areas of special winds. Poles are designed for ground mounted applications. Poles mounted on structures (such as buildings and bridges) may also necessitate special consideration requiring Gardco's recommendation. Height correction factors and drag coefficients are applied to the entire structure. An appropriate safety factor is maintained based on the minimum yield strength of the material incorporated in the pole.

Warning

This design information is intended as a general guideline only. The customer is solely responsible for proper selection of pole, luminaire, accessory and foundation under the given site conditions and intended usage. The addition of any items to the pole, in addition to the luminaire, will dramatically impact the EPA load on that pole. It is strongly recommended that a qualified professional be consulted to analyze the loads given the user's specific needs to ensure proper selection of the pole, luminaire, accessories, and foundation. Gardco assumes no responsibility for such proper analysis or product selections. Failure to ensure proper site analysis, pole selection, loads and installation can result in pole failure, leading to serious injury or property damage.

Warranty

Gardco Steel poles are covered by a 3-year structural and finish warranty. Legacy designs are covered by a 1-year warranty. For more information visit signify.com/warranties



Attachment D

REQUEST FOR INFORMATION

0 Greenfield Rd, Deerfield MA

- i. Cultivation Technology & Efficiency
- ii. Sustainability
- iii. Building Renderings (see attached)
- iv. Odor Mitigation



Contact:

Ken Bouquillon
ken.b@sunnydayzcannabis.com
(860) 656-4624

i. Cultivation Technology & Efficiency

SunnyDayz, Inc. is utilizing a state-of-the-art, chilled water-based cultivation system that is 50% more efficient (kW/hr usage) compared to a traditional Split-dx & HPS cultivation system.

This facility incorporates numerous energy efficient technologies and a fully automated IoT facility controls platform – tracking every single mechanical, electrical, and plumbing component in the entire facility.

Points of Savings:

The Integrated Adaptiiv Cultivation System has the most points of savings compared to any other equipment configuration available in the market.

- Liquid Cooled LED's w/ fully adjustable Spectrum & Intensity
- The heat recapture from liquid light loop
- The heat repurposes from liquid light loop
- Reduction in cooling load compared to traditional systems
- The heat recapture from Chiller Plant
- A build-in heat exchanger on our HVAC units
- Variable Frequency Drive fans
- High efficiency chiller plants
- Building Automation System

The generating and recapturing of waste heat means that the SunnyDayz facility does not need to run gas fed boiler systems for heating – meaning this facility will burn no fossil fuels on-site unless there is a power outage.

Adaptiiv Grow Technologies (<https://www.adaptiivgrow.com/>):

Liquid Cooled LED Fixtures:

- o DLC certified for high efficiency and long-term efficacy for horticulture-specific solid state LED lighting.
- o The Liquid Cooling removes up to 90% of the waste heat from the grow environment, substantially reducing the overall cooling load required for indoor cultivation.
- o The reduction in Cooling Load results in a significant reduction in required HVAC infrastructure/equipment, and thus an overall reduction in facility Energy Consumption (kW/hr)
- o Advanced lighting controls that allow for full spectrum and intensity control. Reducing the overall lighting consumption by up to 30% across a full grow cycle – when compared to traditional LED lighting fixtures.
- o Real-time adaptive adjustments deliver the precise amount of usable light and intensity (PPFD).
- o Automatic adjustment of light level depending on the stage of growth of the plant. This output dimming is interlocked with light metering sensors to achieve optimized output for each growth stage and regulates energy usage to prevent oversaturation of usable photosynthetic light.

- Ability to integrate a sunrise/sunset cycle slowly increasing/decreasing light to mimic the natural environment and save energy
- This level of control lowers average lighting (kWhr) consumption throughout grow cycle, manage appropriate DLI (Daily Light Integral)

HVAC & Mechanicals:

- Utilization of Adaptiv Grow Technologies patented Dehumidifying Air Handling Units (DAHU) that is the most energy efficient purpose-built technology for efficient air conditioning, heating, dehumidification, and energy reclamation system for indoor cannabis cultivation.
- Patented dehumidification and energy recovery module saves operators up to 60% on mechanical equipment energy consumption (kWhr) compared to traditional dehumidification and cooling equipment used for indoor cultivation.
- The waste heat is removed from the grow lights and re-purposed in other parts of the cultivation facility, primarily used for reheating in dehumidification process in the air handling units.
- Heat energy is also re-purposed for supplemental heating in other grow rooms or in ancillary areas needing heat.
- These self-contained air handling units are equipped with ECM motors on the blower motors to modulate the supply air. The modulating system allows for precise climate control in the grow rooms that are continuously modulating their loads within the room with heat and moisture.
- System is built for longevity with no compressors contained inside the units. All compressors are centralized in the chiller plant that modulates to maintains and cycle the precise water temperature and flow rate for cooling and dehumidification to all the DAHUs in the facility in a closed loop.

Central Chiller Plant:

- The heat produced by the Chiller Plant is also recaptured for additional energy savings
- Exterior chiller plant is equipped with pressure compensating pumps with variable frequency drives (VFD), and electronically commutated motors (ECM) on the fans to modulate heat rejection and free cooling capability in winter months
- An additional bypass valve on condenser water loop (or light loop) is designed to let water bypass the heat rejection in winter months to minimize energy usage and repurpose the heat elsewhere.

ii. Sustainability

SunnyDayz Inc (SDI) will top the cannabis power score in Massachusetts. SDI will build new, energy efficient, engineered metal buildings with a cold weather insulation package. The R-value will be much higher than required by the state building code which will save on our heat needed during winter months. These new buildings will not only be designed for overall energy efficiency but also tight security. We will be implementing the Adaptiiv Grow Technologies advanced grow system which includes liquid-cooled LED lights that are DLC Horticulture and UL listed, the most energy efficient Dehumidifying Air Handling units on the market, air-cooled micro-channel chillers with heat recovery, and an IoT Building Automation System (SAAM) that provides more data than any other system in the industry. No other grow system can scavenge waste heat like we do at SDI. With the combination of waste heat captured from the liquid-cooled lights and the captured waste heat from the chillers, SDI will be the first cannabis facility in MA that uses zero on-site fossil fuel. In short, we will produce the heat needed to maintain temperature and humidity in the grow rooms, provide warm potable water for employees, and temper the ancillary space, all from waste heat that is captured and controlled thru advanced technology. SDI will use the purpose designed; purpose built AGT Dehumidifying AHU's which are the most efficient in the industry. These units have an air-to-air heat exchanger that pre-heats and pre-cools the air as it comes and goes from the unit during the dehumidification process to save over 50% of the energy used by other dehumidifiers. This unit is also designed to operate from small teenager plants with minimal latent loads to full mature plants with a massive latent load and still have finite control over the environment. The units are custom built to the desired parameters provided by the cultivator for maximum efficiency. SDI uses custom built air-cooled chillers with heat recovery. These highly efficient units use advanced technology micro-channel to operate at ambient temps below -20F while still capturing the waste heat off the compressors. No major companies like Trane, Diakin, or Carrier make chillers that can operate at these low ambient temps experienced during Massachusetts winters while still capturing waste heat. SDI uses a custom high porosity soil medium which uses much less water than crop steering. We have virtually no run-off, so we use less water and nutrients. Most of the nutrients we use are carbon based (organic) so we can re-use the soil round after round. We use custom-made stainless-steel machines that separate the roots from the soil. This practice of re-using the soil is the only sustainable grow medium solution in the industry. While other companies continue to throw rockwool and coco into the landfill, we recycle all our soil. The AGT system we are implementing at SDI will set the standard for energy efficiency in the cannabis industry.

iii. Building Renderings (see attachment)

iv. Odor Mitigation

SunnyDayz, Inc. is a closed-loop air system. Any air that is leaving the building is processed through a CAN-Filter Air System. This hefty granular carbon bed effectively makes the Can Original a massive sponge, soaking up VOCs and capable of holding massive amounts of contaminant. The Original Can-Filter® is designed for the control of VOCs (paint fumes, hydrocarbons, etc.), odors, and other gaseous contaminants. The Can Original carbon filters will be maintained per the manufacturers specs and recommendations to maintain our desired air quality.



adaptiiv
GROW TECHNOLOGIES

The Better Way to **Grow.**

PURPOSE-DESIGNED, PURPOSE-BUILT



Our Products



Patented

LIQUID COOLED LEDS

1000W (SINGLE-TIER) & 640W (MULTI-TIER)

Liquid cooled light loop removes up to 90% of the waste heat from the grow environment. Full-Spectrum & Intensity Control. Significant reduction in total cooling load (sensible load).

1500 PPFD @24"

Patent# 9857068
DLC Listed



Patented

DEHUMIDIFYING AIR-HANDLERS

TONNAGE OPTIONS: 6 Unit/Model Sizes

Single unit combining Dehumidification, Cooling, and Supplemental Heating. Ability to recover and reclaim light waste heat from light loop.

Patent# 10925219



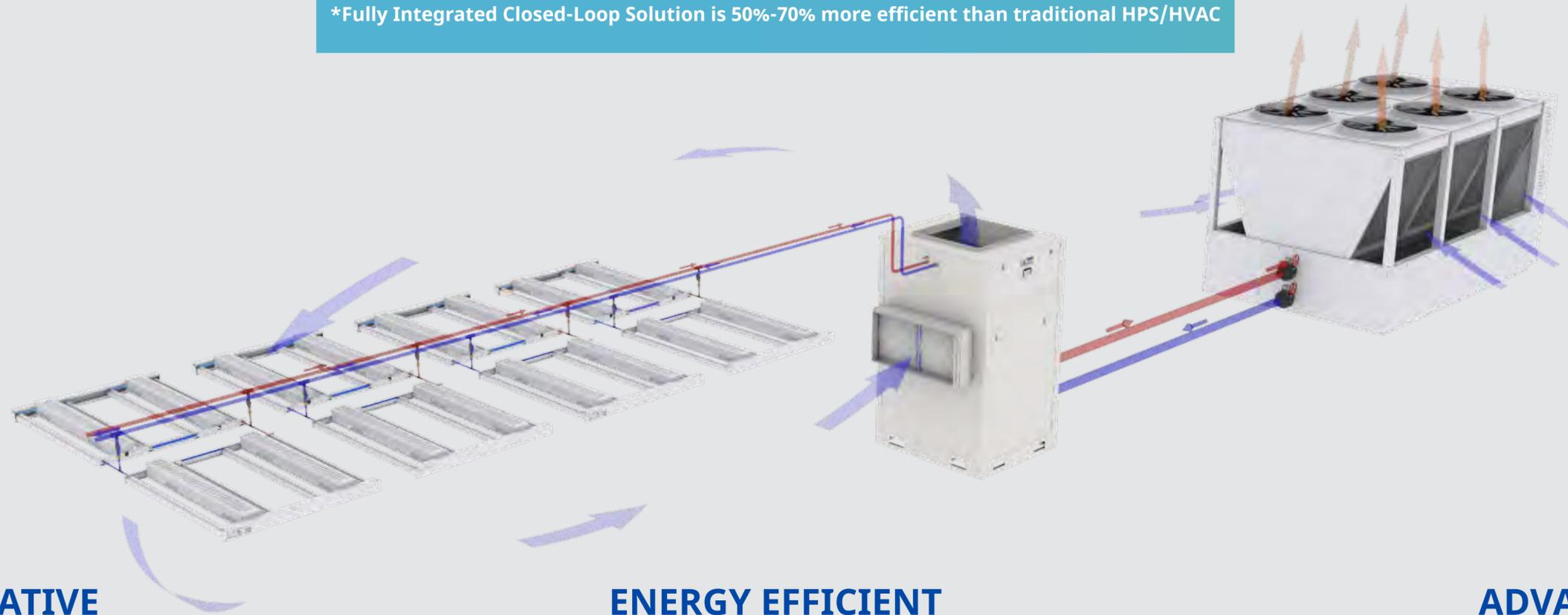
SYSTEM AUTOMATION & CONTROL

SAAM

Real-time Adaptiiv machine learning control platform (IoT) that uses a complex network of grow room sensors, integrated with our patented AGT IoT enabled cultivation equipment, to automatically target and maintain environmental set-points throughout entire grow cycle (VPD, RH, Temp, CO2, and fertigation).

Fully Integrated Solution

*Fully Integrated Closed-Loop Solution is 50%-70% more efficient than traditional HPS/HVAC



INNOVATIVE LIQUID COOLED LED

Liquid cooled light loop removes up to 90% of the waste heat from the grow environment. Full-Spectrum & Intensity Control. Significant reduction in total cooling load (sensible load).
1500 PPFD @24"

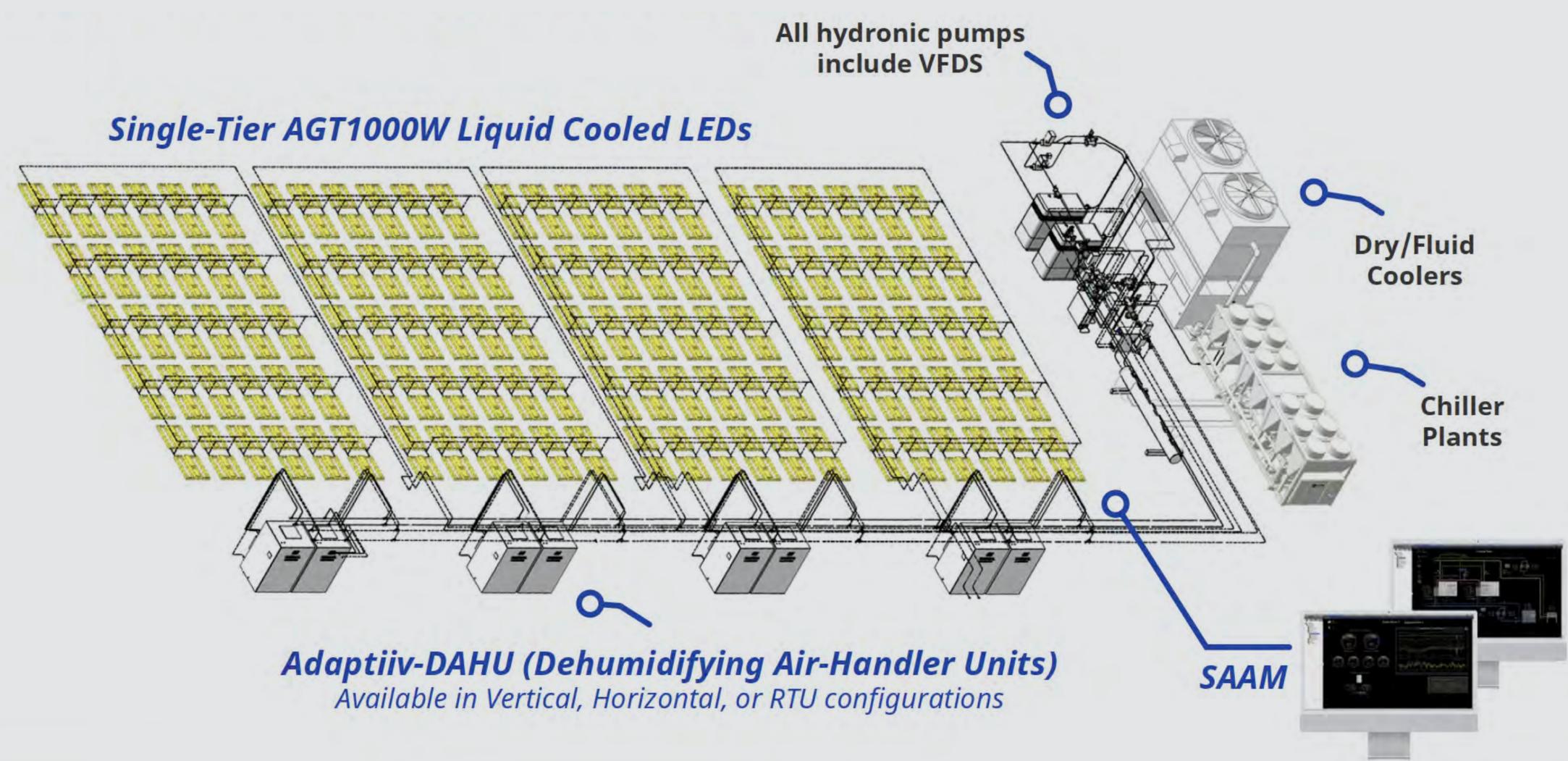
ENERGY EFFICIENT COOLING & DEHUMIDIFICATION

Our built-in energy recovery module (air-to-air heat exchanger) utilizes the warm ambient temperature of the grow environment and a deep cooling process to optimize over system efficiency. This process alone reduces up to 40% of the total cooling load and 65% on the reheat process.

ADVANCED FACILITY CONTROL SYSTEM

System Automation & Management IoT control platform (SAAM). A single IoT control platform for all mechanical, electrical & plumbing equipment. SAAM allows you to control and monitor the entire grow operation. Designed with a proprietary sequence of operations and cannabis specific algorithms to simplify cultivation at scale. Enables operator to regulate & maintain specific environmental parameters & set-points.

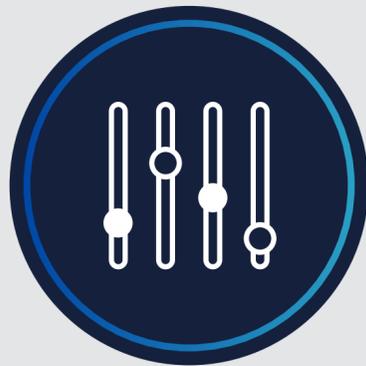
Adaptiiv's Integrated System



PURPOSE DESIGNED, PURPOSE BUILT.

AGT 1000W & 640W

Efficiency (1000W): 2.53+ $\mu\text{mol}/\text{j}$ / Efficiency(640W): 2.32 $\mu\text{mol}/\text{j}$ | PF: 2,416 $\mu\text{mol}/\text{s}$ (1000W) PF: 1,574 $\mu\text{mol}/\text{s}$ (640W) | Light Spectrum 400nm - 780nm (designed to optimize "The Emerson Effect") | Coverage Area: 5x5 (1000W) / 4x4 (640W) | Control: Manual, SAAM



FULL SPECTRUM & INTENSITY CONTROL

Real-time adaptive adjustments to deliver the precise amount of usable light and intensity (PPFD).

Customized and consistent recipes per genetic variety and growth stage to optimize the plant expression and yield.

Lowers average lighting (kWhr) consumption throughout grow cycle, manage appropriate DLI (Daily Light Integral)



REMOVE LIGHT WASTE HEAT FROM GROW ENVIRONMENT

Removes up to 90% of the waste heat from the grow environment.

Significant reduction in total cooling load (sensible load).

Leaves primarily photon energy in the grow room used by plants.



RE-PURPOSE CAPTURED LIGHT WASTE HEAT

The light waste heat is captured and re-purposed in other parts of the cultivation system:

Used for reheat in dehumidification process in our HVACD units

Re-purposed from supplemental heating in other grow rooms (lights off)

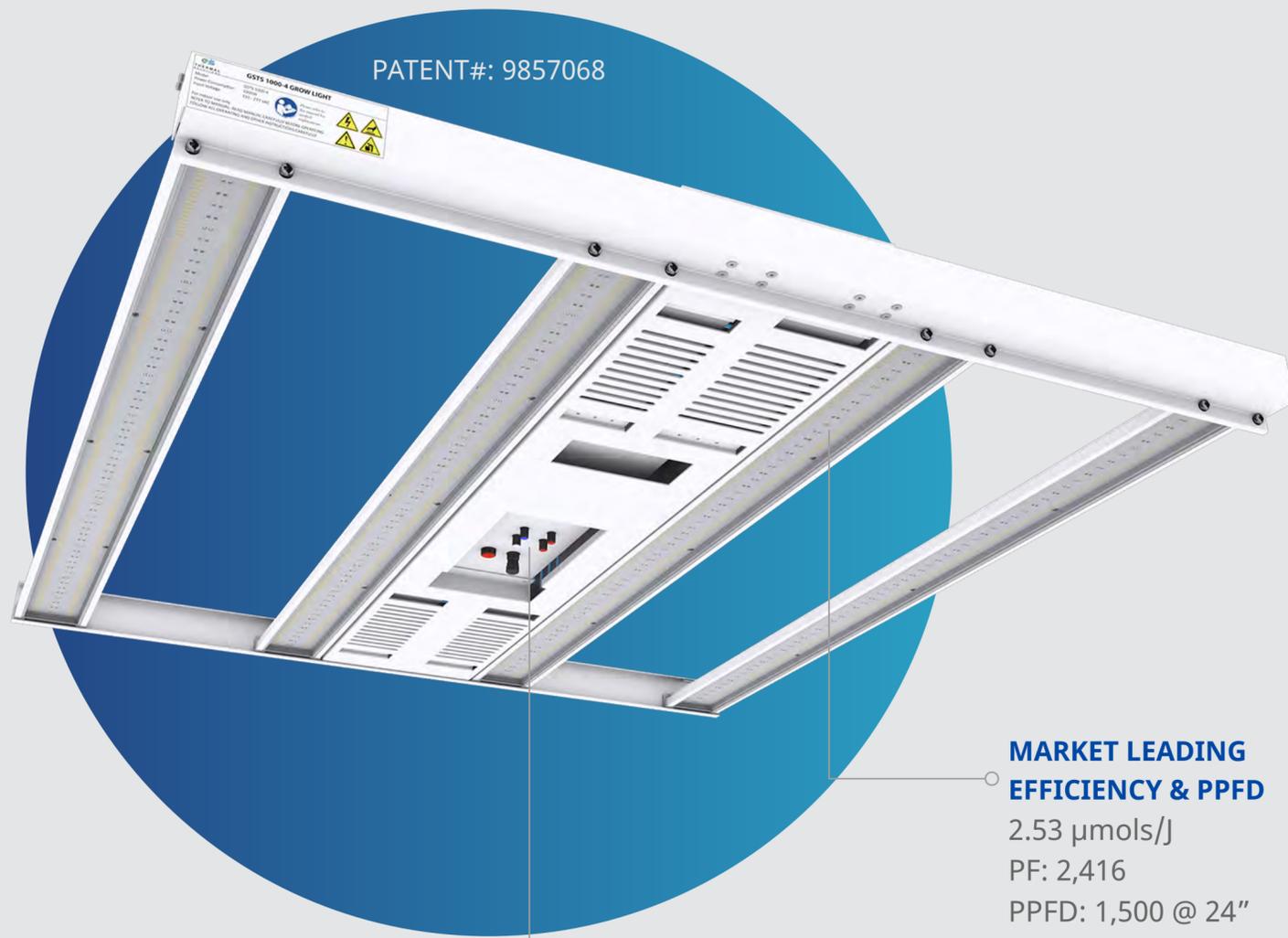


SINGLE-TIER & MULTI-TIER

1000W is ideal for single-tier flower rooms and applications that seek to optimize their genetics with a fully modulating LED fixture with depth penetration into the canopy.

640W is the ideal production fixture for multi-tier applications. Removing the waste heat from the lights prevents heat stratification and micro-climates.

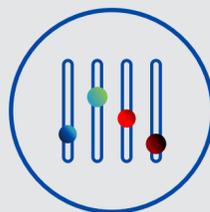
Liquid Cooled LEDs



PATENT #: 9857068

MARKET LEADING EFFICIENCY & PPFD
 2.53 $\mu\text{mols}/\text{J}$
 PF: 2,416
 PPFD: 1,500 @ 24"

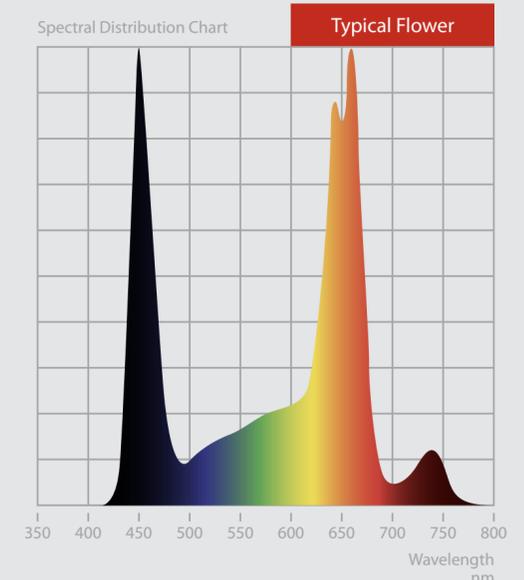
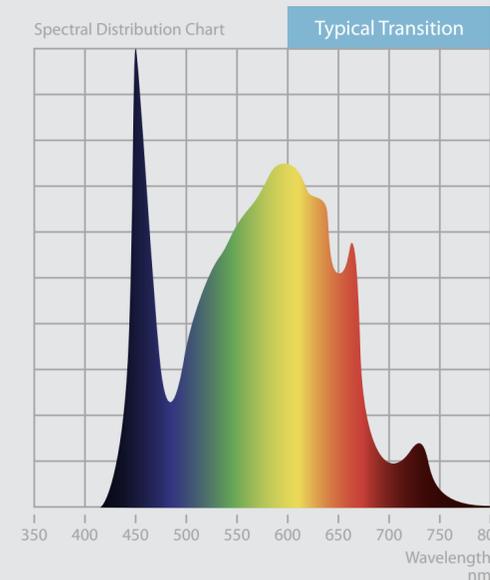
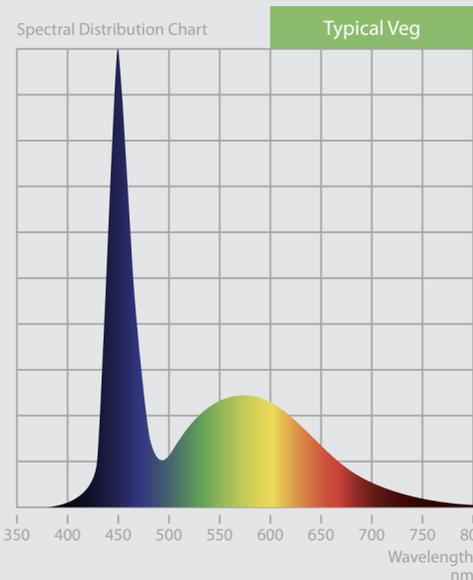
4 - SPECTRUM CHANNELS
 (400nm - 780nm)



CUSTOM SPECTRUM & INTENSITY TUNING (PPFD) FOR GROWTH CYCLE & GENETICS

The light spectrum range is optimized for cannabis cultivation, 400nm - 780nm. Captures the "Emerson Effect" - simultaneously giving plants both red and farred spectrum to increase yield and quality.

EXAMPLE SPECTRUM SET



1000W

Liquid Heat Rejection
 (max): ~380BTU, 1297 Btu/hr
 Flow Rate: 0.3 GPM

640W

Liquid Heat Rejection
 (max): ~260BTU, 887 Btu/hr
 Flow Rate: 0.2 GPM

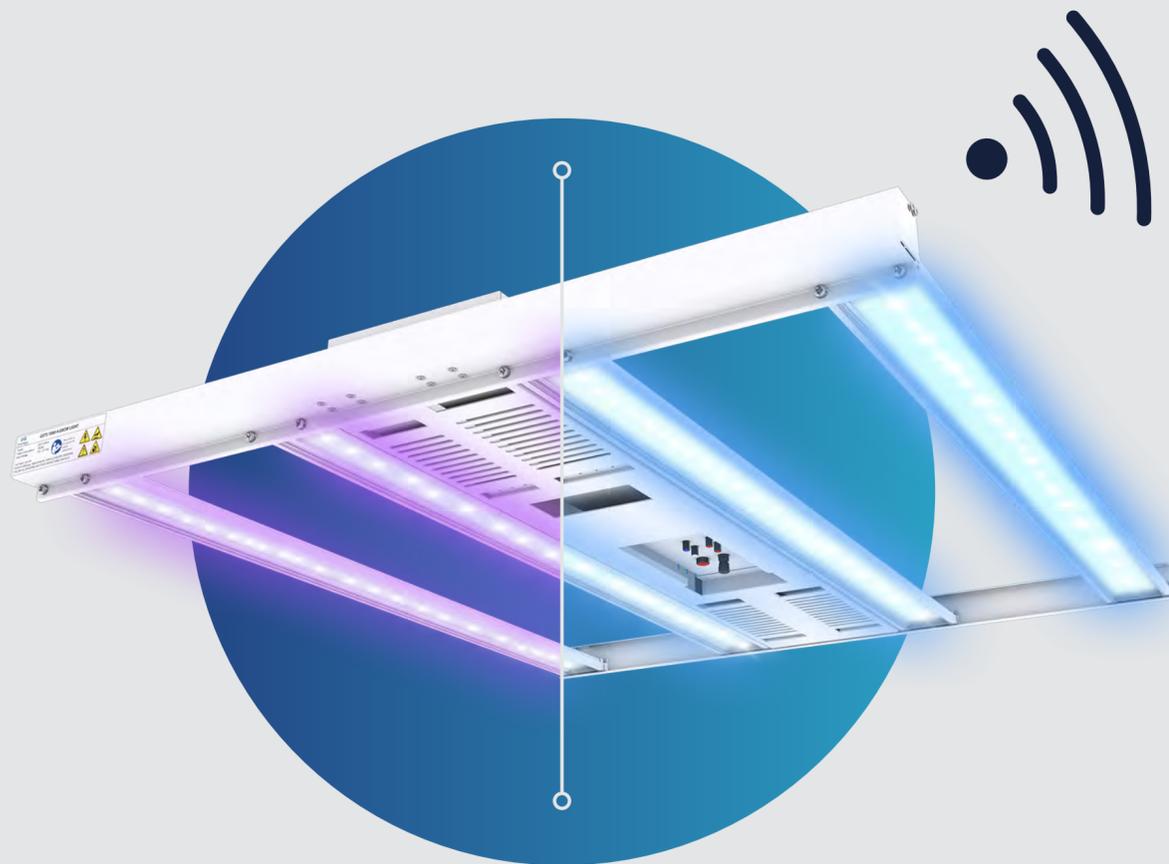
CERTIFICATIONS

UL8800, UL1598, UL8750
 DLC Certified

Liquid Cooled LEDs

FULL FACILITY & LIGHT CONTROL (SAAM)

Remotely control every light fixture in your facility: spectrum & intensity; light scheduling. Save, store, and easily reuse light recipes.



Automatically switch between custom spectrum and intensity recipes

Forced to check a box for Manual Light Control to prevent accidental deviations from recipe

Save, Store, and Schedule custom recipes here

Make manual adjustments to each individual spectrum channel

Dehumidifying Air-Handlers

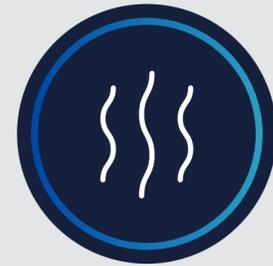
DEHUMIDIFYING AIR-HANDLERS (DAHU) - HVACD



COOLING



DEHUMIDIFICATION



HEATING



IOT/SAAM ENABLED

EFFICIENCY

Patented dehumidification and energy recovery technology saves operators up to 70% compared to traditional dehumidification and cooling equipment.

PURPOSE DESIGNED, PURPOSE BUILT

Combined dehumidification, cooling, and supplemental heating into a single unit. Designed for all load scenarios (from clone to finished flower).

SYSTEM & COMPONENT INTEGRATION

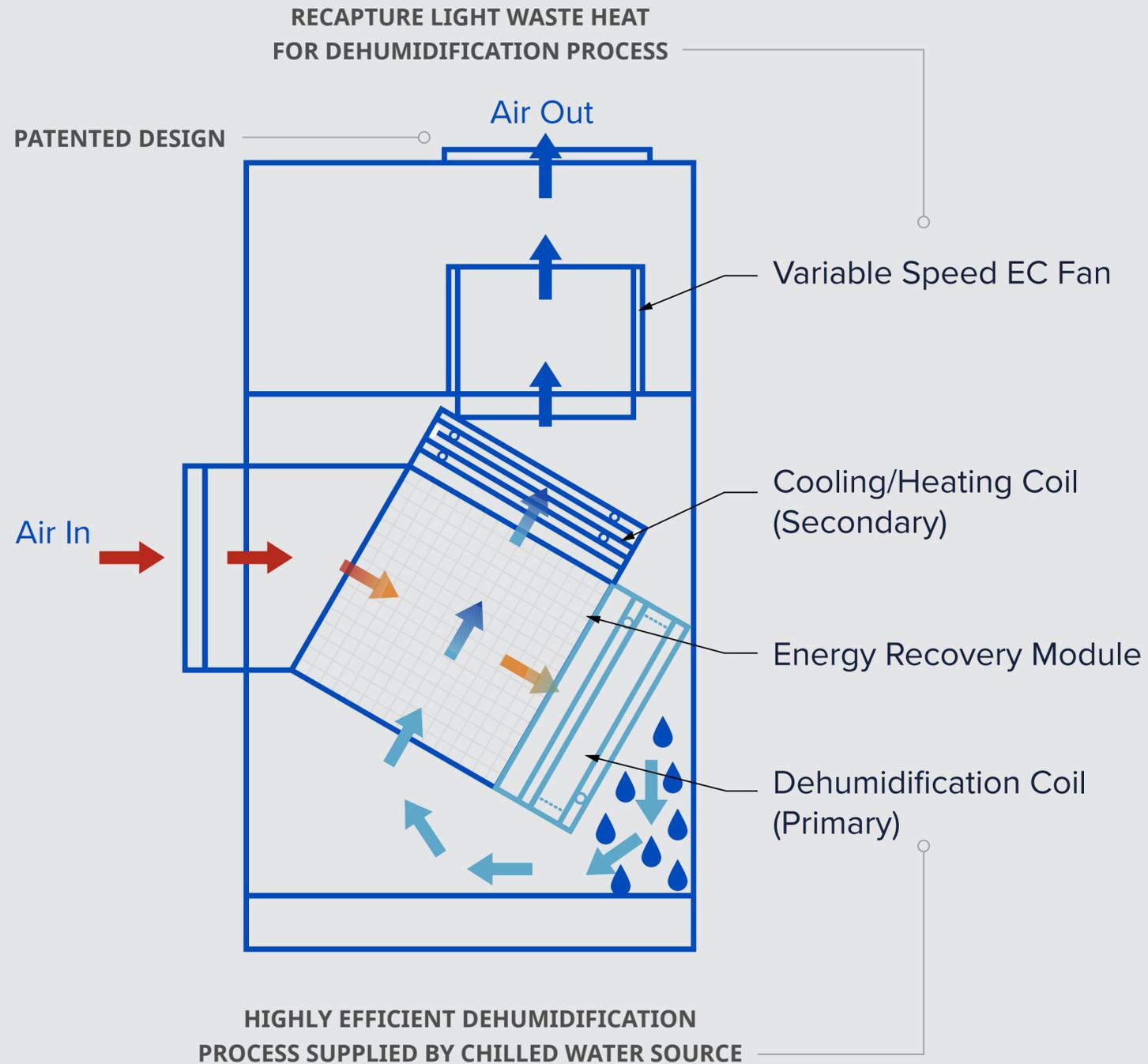
Designed to be integrated with AGT1000W & AGT640W lights to repurpose light waste heat. Seamless integration and environmental control thru AGT's SAAM IoT control platform.

INCREASE CANOPY FOOTPRINT

The multitude of sizing and configuration options allows cultivators and owners to maximize overall canopy footprint while limiting the amount of HVACD infrastructure.

Dehumidifying Air-Handlers

DEHUMIDIFYING AIR-HANDLERS (DAHU) - HVACD



TITAN SERIES

Unit Model	AGT3800	AGT4000	AGT6400	AGT 7200	AGT9200	AGT14K
Estimated Number of AGT1000w Lights	47	49	85	94	115	185
Estimated Number of AGT640w Lights	69	72	125	135	168	270
Latent Capacity - Water Removed (24/hrs)	102 lbs/hr	108 lbs/hr	152 lbs/hr	148 lbs/hr	255 lbs/hr	300 lbs/hr
Nominal Tonnage	13 Tons	13.5 Tons	23 Tons	25 Tons	31 Tons	50 Tons
Airflow (CFM) w/ VFD Control	3800	4000 (x2 2000)	6400 (x2 3200)	7200 (x2 3600)	9200 (x2 4600)	14000 (x4 3500)
Electrical Data (Volts/Phase/HZ)	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60
Control Voltage	120	120	120	120	120	120
External Voltage	24	24	24	24	24	24
Minimum Circuit Amperage (MCA)	13	17	16	24	24	46
Maximum Overcurrent Protection (MOCP)	17.5	20	20	30	30	50
Cabinet Options	VERTICAL, HORIZONTAL, RTU					
Dimensions (L" x W" x H")	60" x 50" x 130"	72" x 50" x 132"	120" x 66" x 90"	90" x 66" x 144"	120" x 50" x 138"	120" x 72" x 182"
Unit Weight (LBS)	4,000	3,550	4,300	4,900	5,200	7,500
Fan Manufacturer	Rosenberg					
Program Logic Controller	ALC SE6166sp					
Communication Protocol	BACnet					
Heat Exchanger	Energy Recovery Module					
Air Filter Type	2" Pleated; MERV 8					
Configuration	Single unit					
Warranty	1 Year Standard					

Dehumidifying Air-Handlers

DEHUMIDIFYING AIR-HANDLERS (DAHU) - HVACD

INTEGRATED HVACD + SAAM IOT CONTROL PLATFORM DRIVES CONSISTENT, STABLE, REPEATABLE ENVIRONMENTAL CONDITIONS

Increases plant yield & quality.

Reduced risk of crop loss.

Data driven system & environment removes trial & error, and provides consistent repeatability of successful harvests.

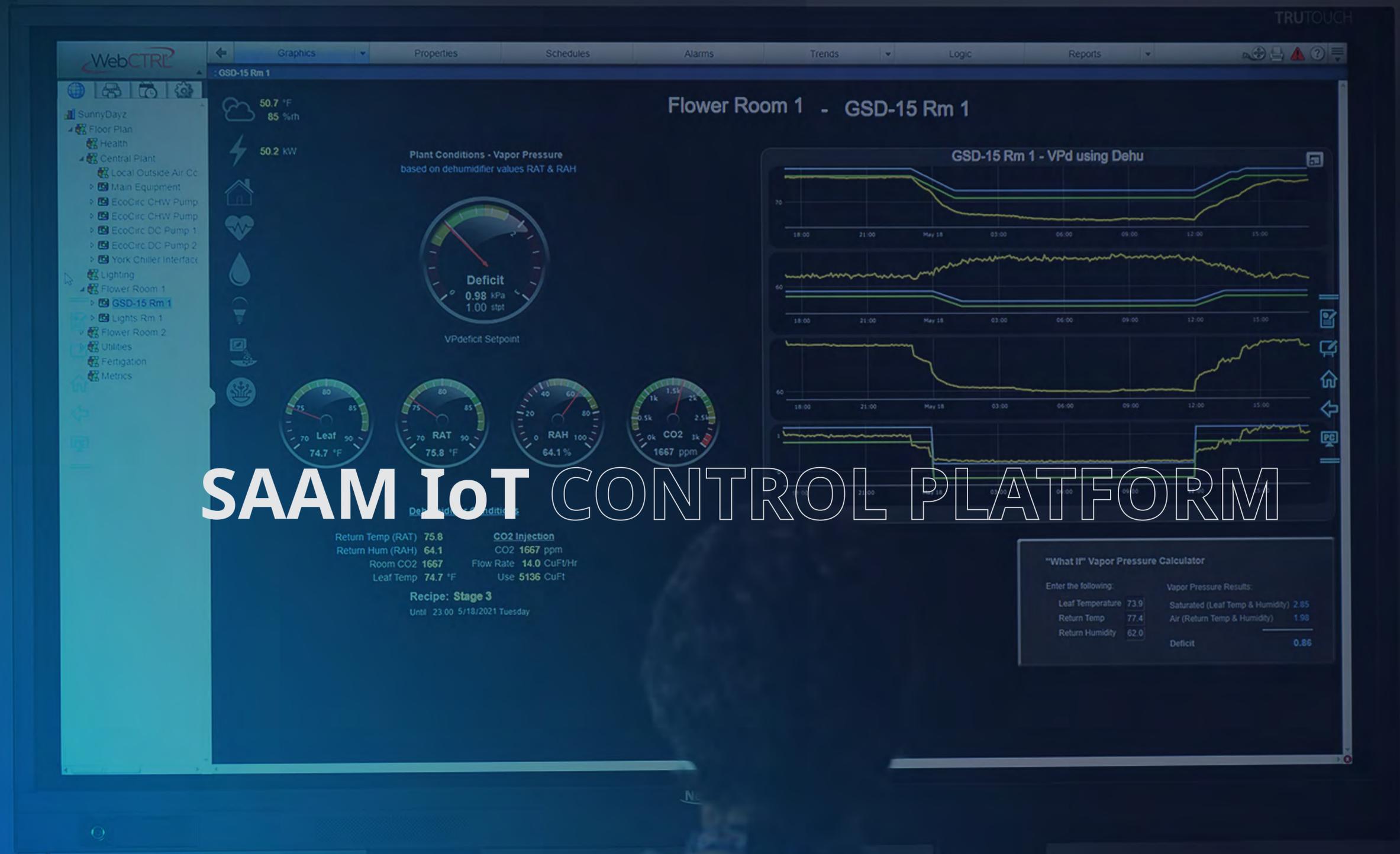
PURPOSE DESIGNED; PURPOSE BUILT FOR CANNABIS CULTIVATION

Designed for wide range of environmental operating parameters (all load scenarios).

Consistent trending throughout grow cycle for targeted set points (VPD, RH, Temp).

SAAM uses our strategic in-unit sensor placement for precision control over environmental set points.





SAAM IoT CONTROL PLATFORM

SAAM IoT Control Platform

BUILT WITH STANDARDIZED INDUSTRIAL HARDWARE PROTOCOLS, DODRMF & TLS PROTOCOL

Save, store and re-use an entire environmental recipe data set (VPD, RH, Light Spectrum & Intensity, CO2, fertigation).

Remote monitoring and access.

Real-time equipment diagnostics.

Real-time alerts for rooms outside of set-points.

Data trending and monitoring (utility usage, environmental data etc.)

WE CAN INTEGRATE OUR CONTROL PLATFORM WITH ANY BACKNET COMPATIBLE COMPONENT

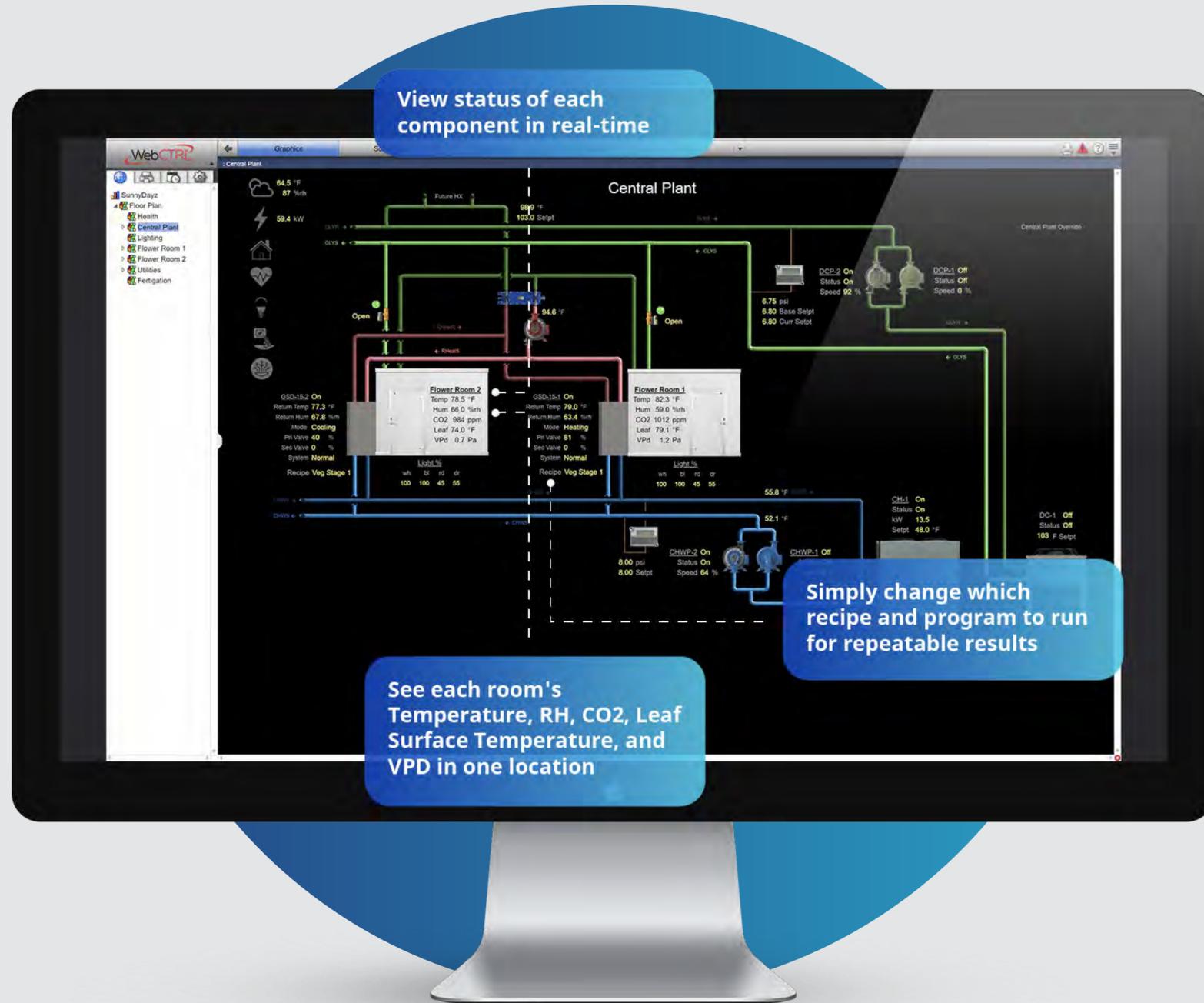
A TRUE IoT CONTROLS PLATFORM

Real-time Adaptiiv machine learning control platform (IoT) that uses a complex network of grow room sensors, integrated with our patented AGT IoT enabled cultivation equipment, to automatically target and maintain environmental set-points throughout entire grow cycle (VPD, RH, Temp, CO2, and fertigation).



SAAM CONTROLS EVERY MECHANICAL, ELECTRICAL AND PLUMBING COMPONENT IN THE GROW FACILITY

SAAM IoT Control Platform



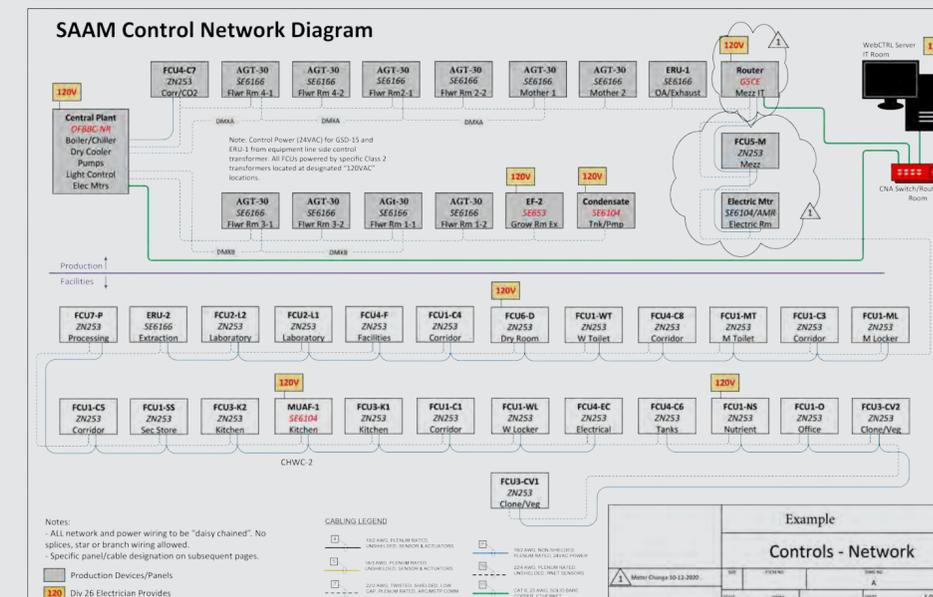
OPERATE AN ENTIRE CULTIVATION FACILITY FROM A SINGLE CONTROL PLATFORM

Its designed to automatically target VPD. As your grow environment changes throughout the grow cycle - SAAM "speaks" to the equipment systems with specific operating instructions in order to hold VPD set-point

Full Building Management System (BMS) and Environmental Controls Platform

It's designed to reduce labor, decrease human error, increase repeatability of successful harvests, and provide owners and operators an unprecedented amount of visibility and control over their entire facility

PROPRIETARY SEQUENCE OF OPERATIONS, PID LOOPS & CANNABIS ALGORITHMS

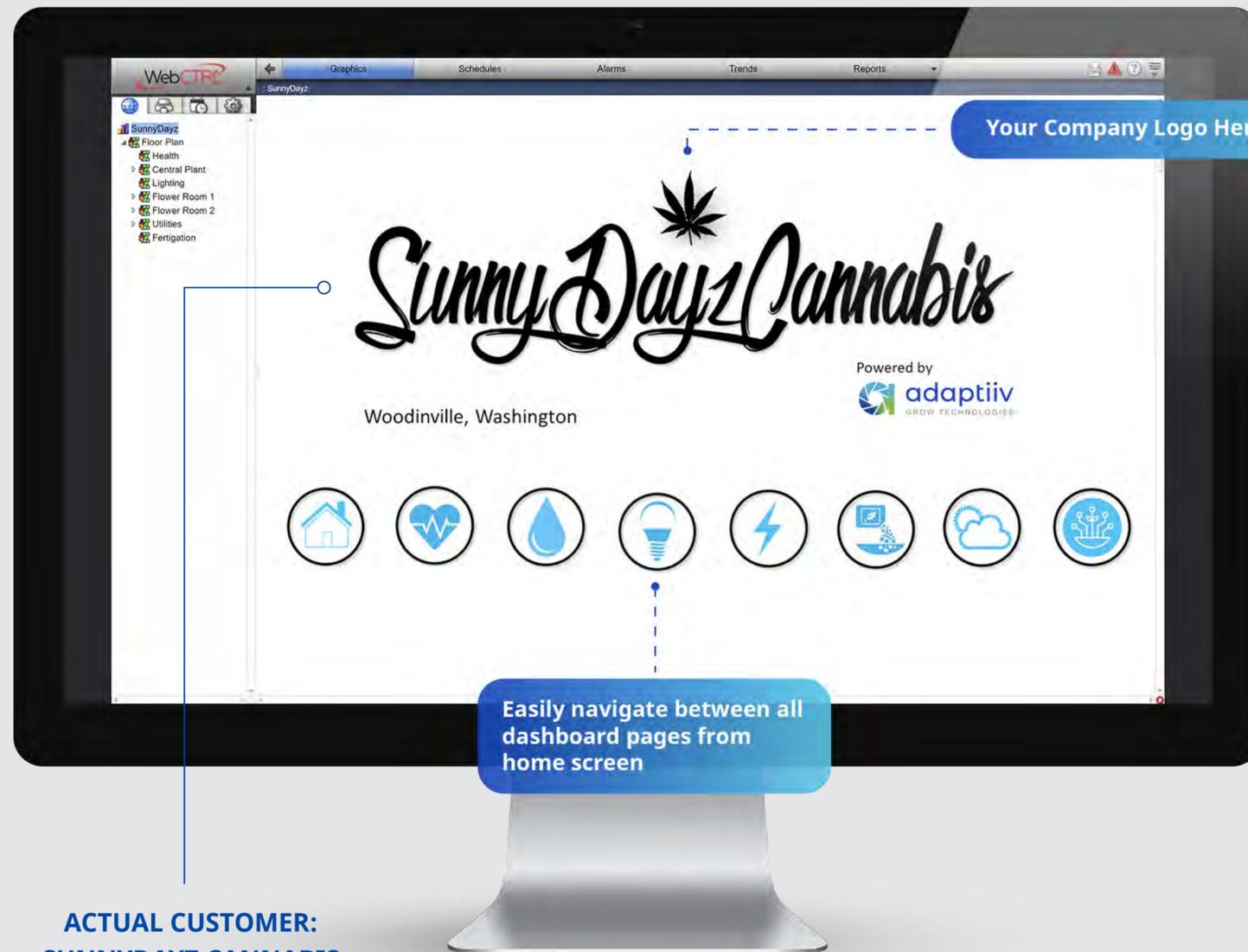


SAAM IoT Control Platform - User Interface

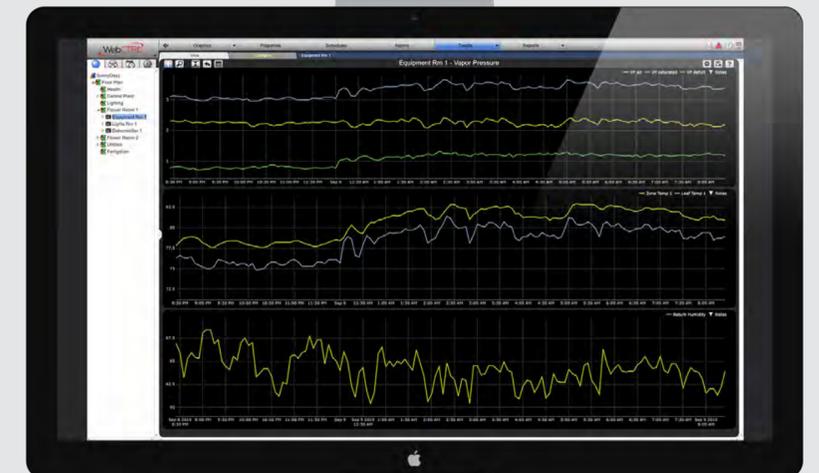
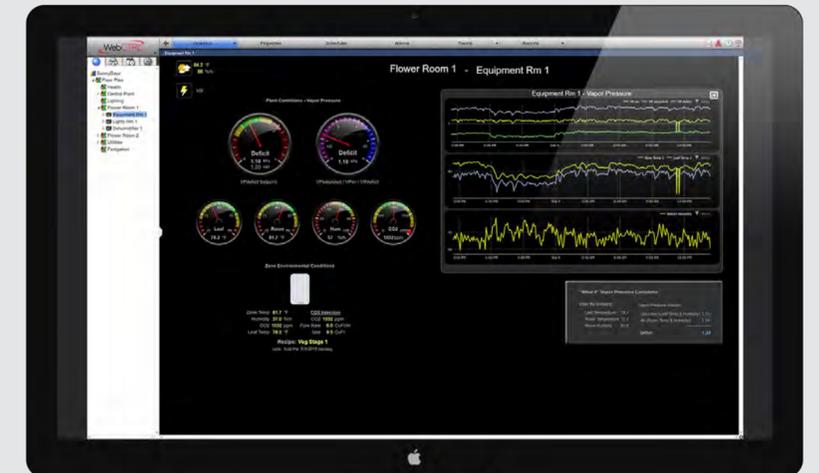
ADVANCED GRAPHICS & OPERATOR EASE OF USE

Standard Dashboards

- Facility Home Page
- System Health Page
- Central Plant
- Light Control
- Utility Usage
- Security
- Manufacturing & Administration



ACTUAL CUSTOMER:
SUNNYDAYZ CANNABIS
(WOODINVILLE, WA)



SAAM IoT Control Platform



ADDITIONAL FEATURES

- Pre-programmed fail-safe modes
- 24/7 remote and local servicing from Clima-Tech
- Fault Detection diagnostics
- Proprietary algorithms for advanced control of grow facilities
- Advanced graphics and operator ease of use
- Adaptive machine learning that regulates the CO2 set point to maximize plant photosynthesis
- Training videos
- Integration of all assets including other sub-systems within the facility such as fire, security, compliance, etc.
- Glass cockpit” approach (the entire facility is run on a single pane of glass)
- Proactive controls compared to most that are reactive (i.e. “canned routine” software)
- Remote monitoring and access
- Data trending and monitoring
- Real-time alerts for rooms outside of set-points (automated text, email, phone call)
- Real-time equipment/ component diagnostics for failures or malfunction (all assets)
- Security protocols and “level” based access for employees
- Risk Management Framework certified
- Unlimited ability to store data points on a daily basis (everything from environmental to mechanical, electrical and plumbing).
- On-site data storage with optional Cloud storage

System Efficiency

Adaptiiv Patented Technology

THE ONLY COMMERCIALY VIABLE INTEGRATED COMMERCIAL CANNABIS SYSTEM

Technology & Energy Reduction

LIQUID COOLED LEDS (PATENT #9857068)

- Removes up to 90% of waste heat
- Removing light waste heat reduces the total cooling load (sensible load) - reduces HVAC Requirements
- Full Spectrum & Intensity control - reduces total avg. light energy consumption (kW/h)

HVACD (PATENT #10925219)

- Single unit that combines dehumidifications, cooling, and heating
- Recaptures light waste heat for the dehumidification process
- Built-in energy recovery module saves up to 70% on cooling & dehumidification process compared to traditional HVAC

TOTAL SYSTEM INTEGRATION

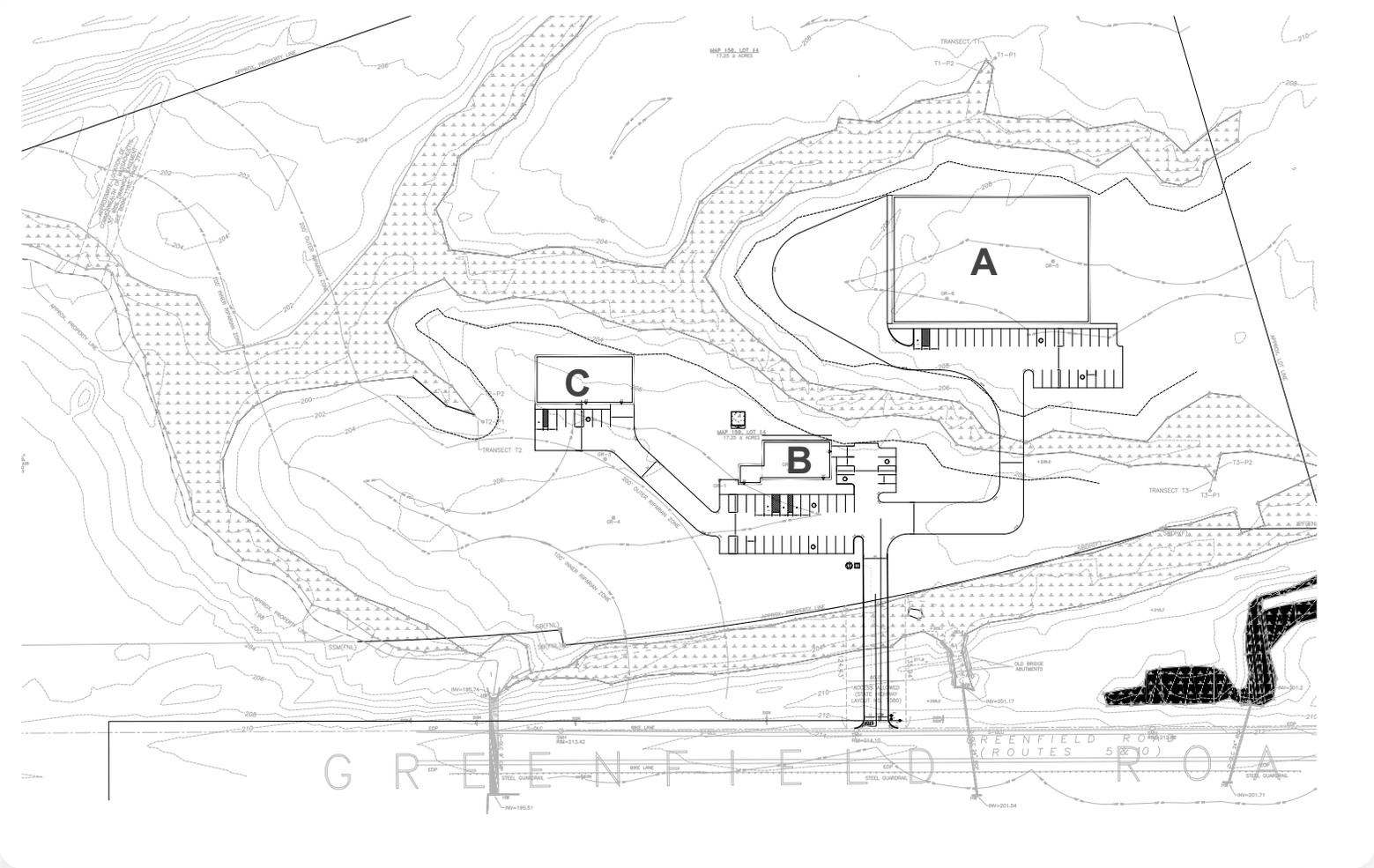
- The system is driven by a high efficiency chilled water plant.
- Ability to use “free cooling” in winter months
- Recapture heat from chiller plant
- Entire system (all mechanical, plumbing, electrical components) controlled by SAAM IoR control platform

THE MOST ENVIRONMENTALLY SUSTAINABLE & ENERGY EFFICIENT CULTIVATION SYSTEM FOR INDOOR CANNABIS

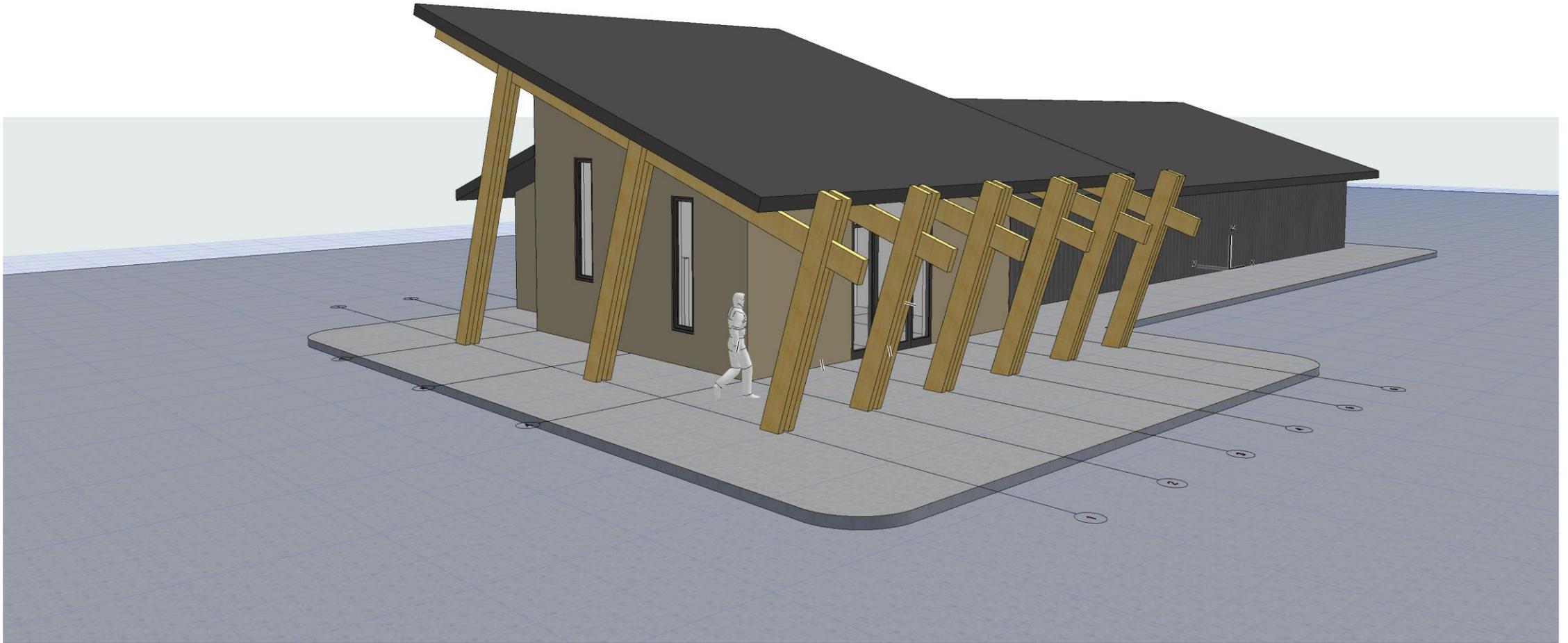


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Campus - Building Layout



SunnyDayz Dispensary Building



SunnyDayz Dispensary Building

