

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P647342

Luminaire Tested: **GALN-SA3D-835-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-835-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18050.5 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

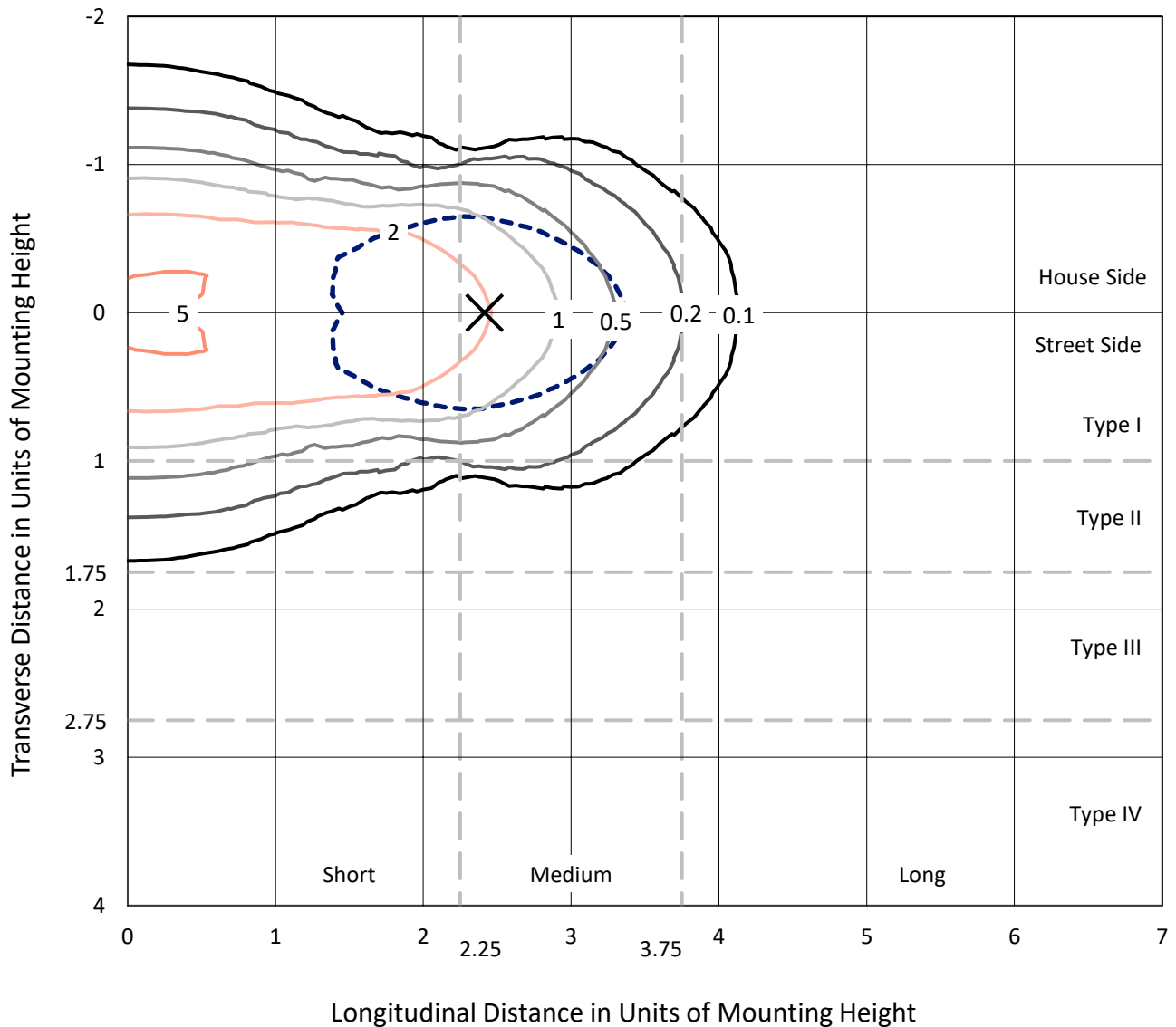
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

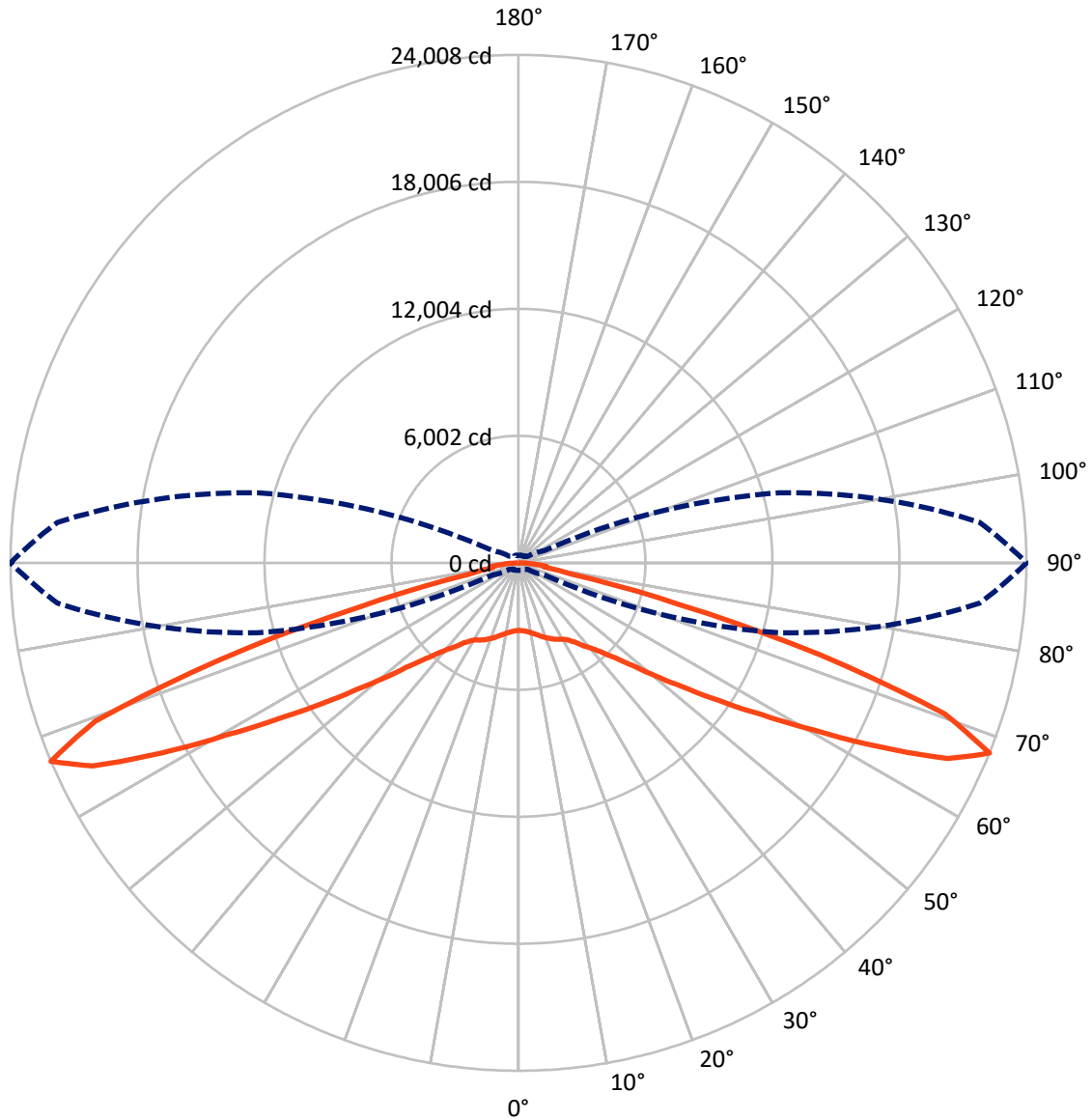
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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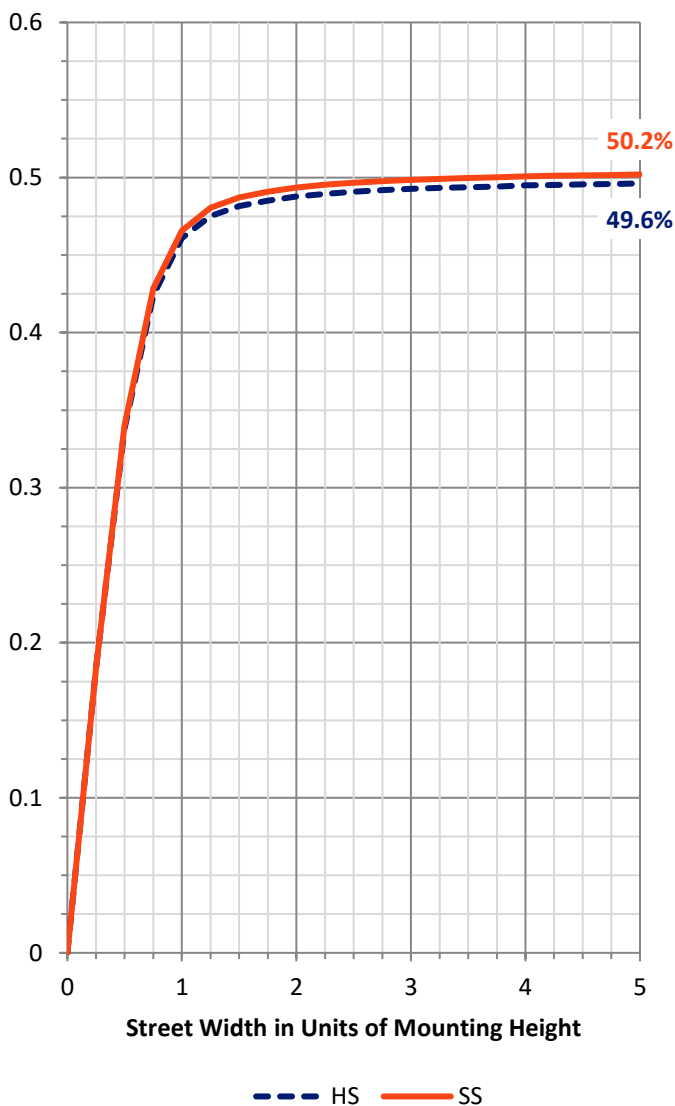
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9025.2	0.0	9025.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9025.2	0.0	9025.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	18050.5	0.0	18050.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.6	1.8
10°-20°	1019.3	5.6
20°-30°	1706.1	9.5
30°-40°	2311.3	12.8
40°-50°	2927.6	16.2
50°-60°	3657.3	20.3
60°-70°	4299.0	23.8
70°-80°	1644.6	9.1
80°-90°	166.6	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	18050.5	100.0
0°-180°	18050.5	100.0

Coefficient of Utilization

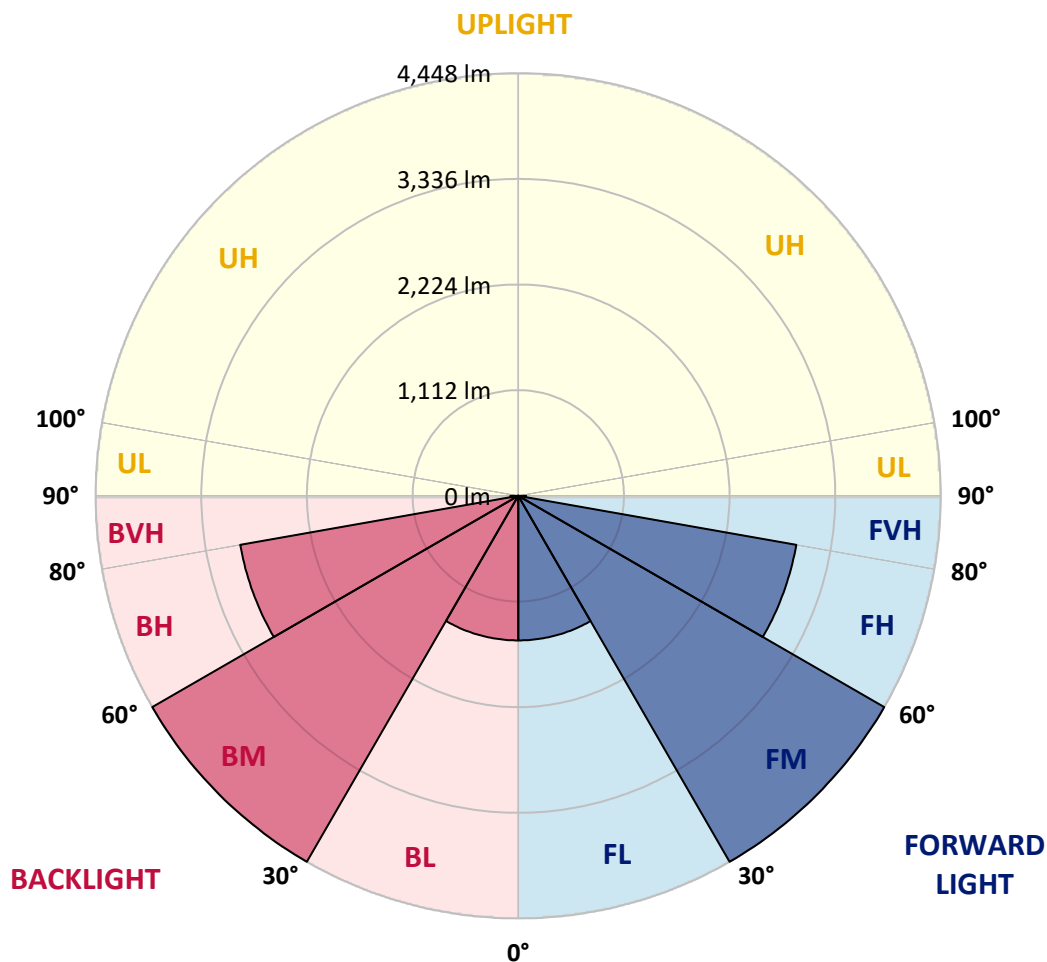


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1522.0	8.4			
FM (30°-60°)	4448.1	24.6			
FH (60°-80°)	2971.8	16.5			G2/5000
FVH (80°-90°)	83.3	0.5			G1/100
BL (0°-30°)	1522.0	8.4	B3/2500		
BM (30°-60°)	4448.1	24.6	B3/5000		
BH (60°-80°)	2971.8	16.5	B4/5000		G4/5000
BVH (80°-90°)	83.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5	3195.5
2.5°	3236.5	3234.5	3235.5	3234.5	3237.5	3235.5	3223.5	3213.5	3205.5	3206.5	3203.5
5°	3305.4	3306.5	3307.5	3302.5	3309.4	3305.4	3286.5	3270.4	3254.5	3248.5	3246.5
7.5°	3362.4	3367.4	3370.4	3375.4	3387.4	3387.4	3377.4	3354.5	3319.5	3299.5	3298.5
10°	3419.4	3423.4	3432.4	3448.4	3468.4	3487.3	3483.3	3452.4	3407.4	3373.4	3365.4
12.5°	3439.4	3444.4	3474.4	3520.4	3565.3	3602.3	3602.3	3577.3	3519.4	3467.4	3452.4
15°	3369.4	3378.4	3432.4	3530.3	3648.3	3729.3	3747.2	3712.3	3650.3	3570.3	3552.3
17.5°	3230.5	3252.5	3331.4	3476.4	3672.3	3840.2	3892.1	3875.1	3795.2	3693.3	3672.3
20°	3081.6	3105.5	3189.5	3381.4	3652.3	3905.1	4056.1	4060.1	3961.1	3813.2	3782.2
22.5°	2917.6	2935.6	3043.6	3268.5	3592.3	3920.2	4197.0	4266.0	4132.0	3933.2	3889.2
25°	2733.7	2753.7	2866.6	3109.5	3479.3	3903.2	4326.0	4477.9	4311.0	4061.1	4005.1
27.5°	2557.8	2565.8	2686.7	2933.6	3330.4	3859.2	4420.9	4672.8	4508.9	4167.0	4096.1
30°	2388.9	2407.9	2514.8	2758.7	3159.5	3773.2	4502.9	4894.7	4721.8	4278.0	4187.0
32.5°	2209.9	2233.0	2348.9	2595.8	2988.6	3644.3	4552.8	5137.6	5018.6	4457.9	4360.9
35°	2038.1	2053.0	2170.0	2409.8	2821.7	3494.4	4561.8	5411.5	5401.4	4730.8	4601.8
37.5°	1862.1	1884.1	2002.1	2231.9	2644.7	3335.4	4516.9	5702.4	5863.3	5109.6	4970.6
40°	1693.2	1712.2	1828.1	2060.0	2443.8	3141.6	4409.9	5968.2	6402.0	5499.4	5302.5
42.5°	1509.3	1514.3	1641.2	1877.1	2247.0	2916.6	4256.0	6205.1	7002.7	6022.2	5777.3
45°	1300.4	1313.4	1431.3	1663.2	2021.1	2664.8	4047.1	6401.0	7764.4	6746.8	6413.0
47.5°	1091.5	1102.5	1210.4	1439.3	1774.2	2375.9	3725.3	6572.9	8546.0	7667.4	7229.6
50°	887.6	893.6	981.6	1184.4	1496.3	2072.1	3326.4	6627.9	9429.6	8970.8	8412.1
52.5°	701.6	710.7	777.6	936.5	1199.4	1713.2	2895.6	6491.9	10461.1	10516.1	9728.5
55°	568.8	571.7	621.7	738.7	937.6	1337.4	2375.9	6113.1	11570.5	12496.1	11491.6
57.5°	489.8	491.8	519.8	584.7	721.7	1008.5	1843.1	5396.4	12567.1	14816.1	13524.7
60°	444.8	445.8	461.8	499.8	571.7	773.6	1320.4	4385.0	13550.7	17397.9	16051.5
62.5°	416.8	416.8	427.8	448.8	483.7	593.7	956.5	3163.5	14224.3	20017.6	19166.0
65°	389.9	389.9	397.8	412.8	431.8	485.8	706.7	2063.0	14207.3	21925.7	22298.5
67.5°	358.8	358.8	364.8	379.8	390.8	417.8	545.8	1351.4	12762.0	21883.8	24007.7
70°	321.8	321.8	329.9	342.9	351.8	368.8	430.8	924.6	9375.6	18685.2	21351.0
72.5°	284.9	285.9	290.9	303.9	310.9	320.9	357.8	647.7	5751.3	12723.0	14929.0
75°	243.9	245.9	250.9	263.9	269.9	273.9	301.8	461.8	2909.6	6859.8	7810.3
77.5°	196.9	200.9	203.9	217.9	221.9	227.9	248.9	333.9	1277.4	2464.8	2486.8
80°	143.9	148.9	157.9	170.9	173.9	177.9	189.9	236.9	578.7	1125.5	1222.4
82.5°	105.9	112.9	101.9	118.9	118.9	113.9	134.0	158.9	265.9	1114.4	1333.4
85°	57.9	59.0	53.0	61.0	65.0	64.0	70.9	78.0	129.0	743.6	766.6
87.5°	14.0	15.0	16.0	19.0	23.0	23.0	25.0	22.0	42.0	240.9	138.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)