

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: P647322

Luminaire Tested: **GALN-SA3D-835-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-835-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15844 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

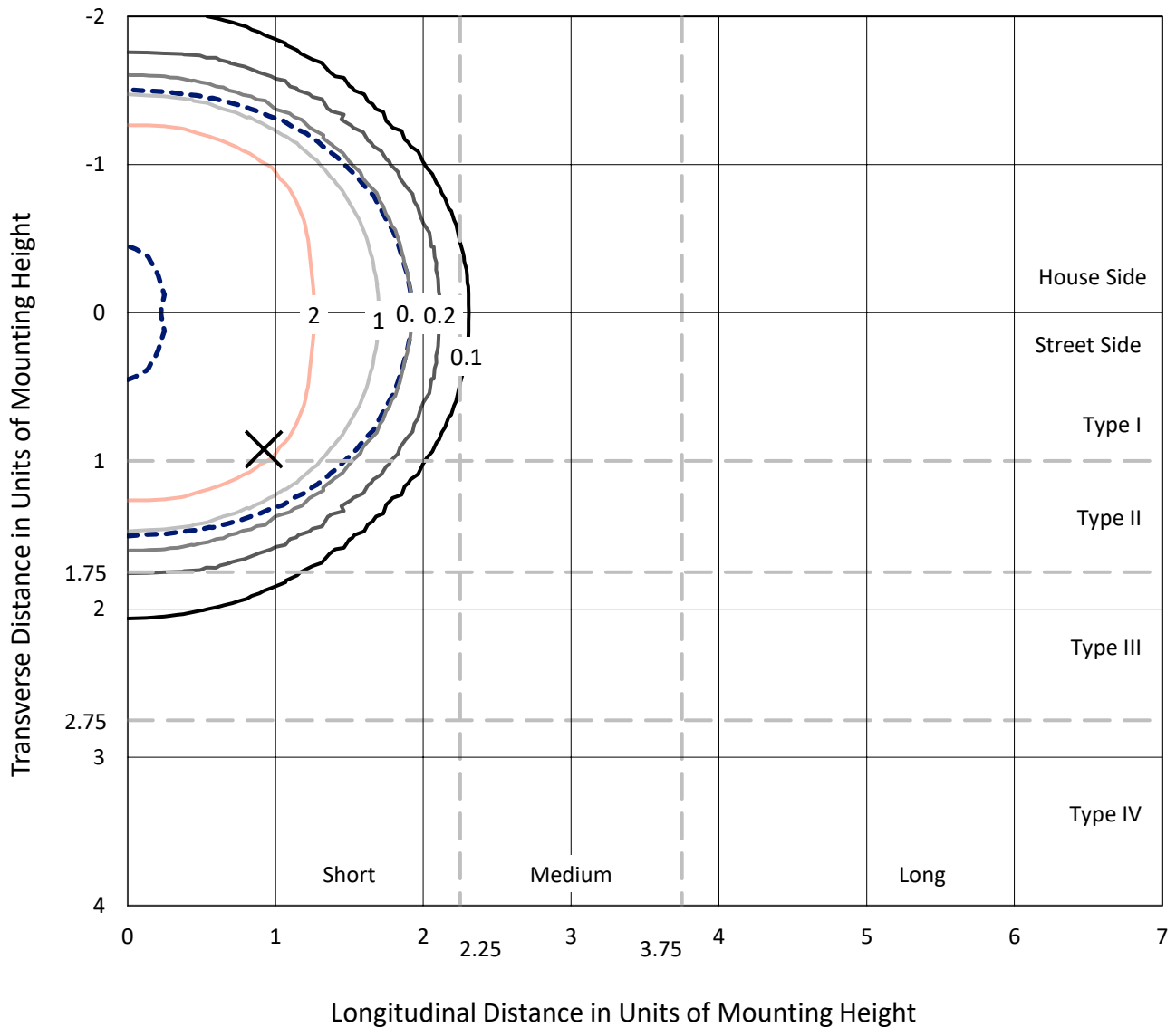
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

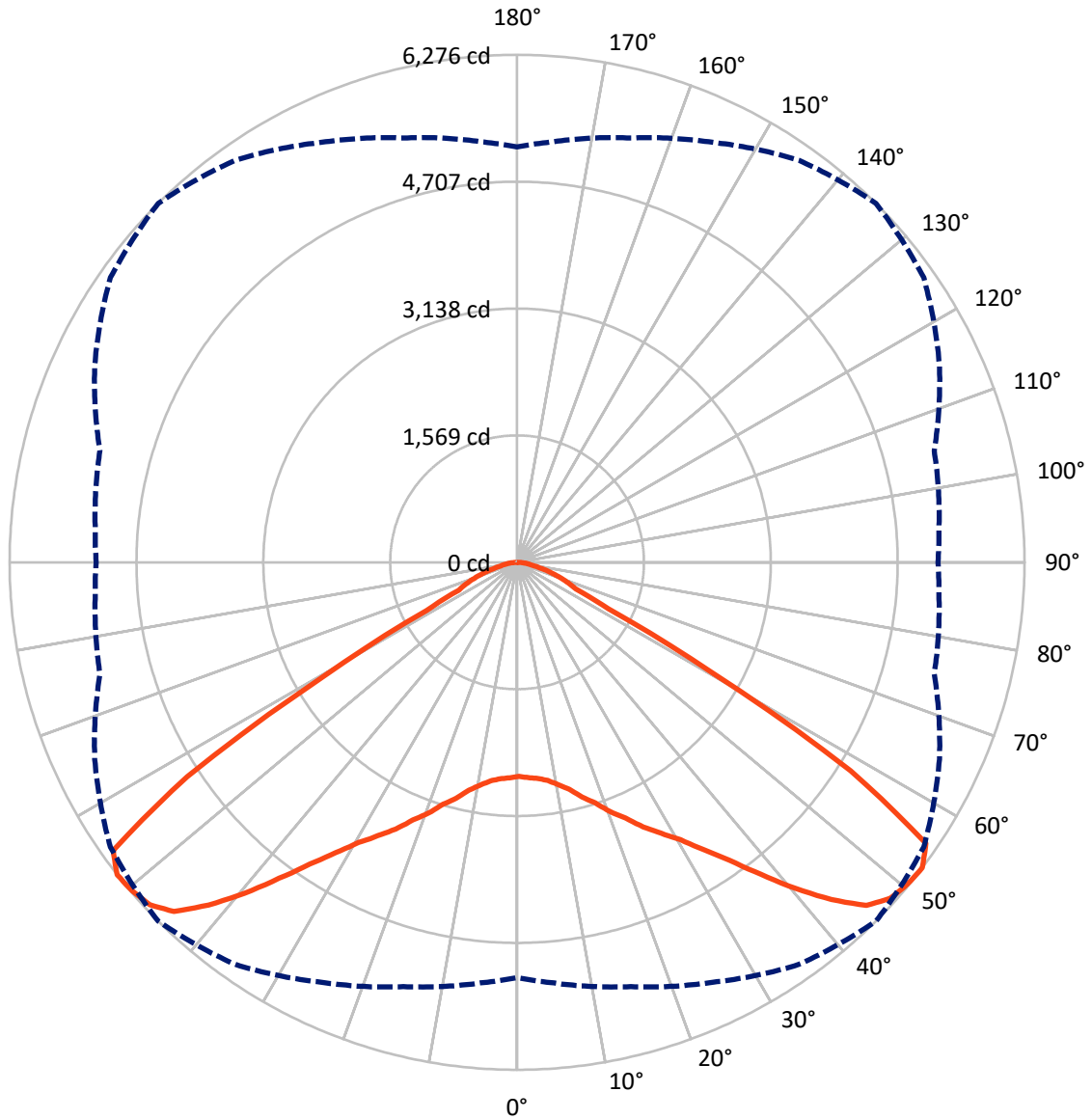
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

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CATALOG NUMBER: GALN-SA3D-835-U-RW-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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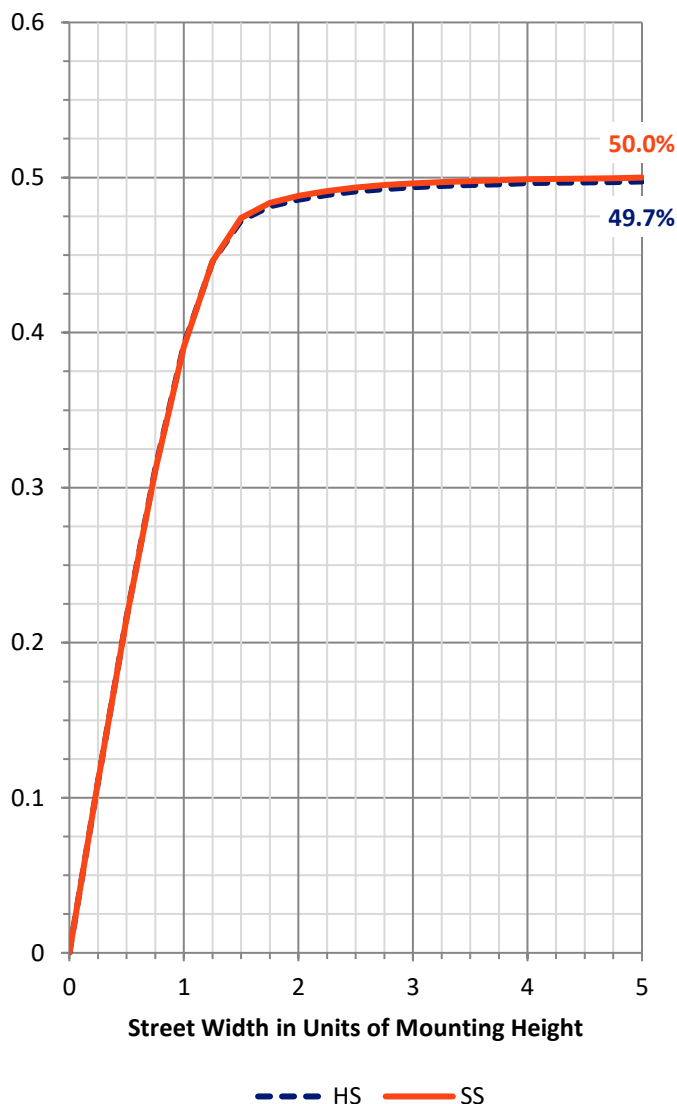
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7922.0	0.0	7922.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7922.0	0.0	7922.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15844.0	0.0	15844.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.2	1.6
10°-20°	855.0	5.4
20°-30°	1627.9	10.3
30°-40°	2795.2	17.6
40°-50°	4296.2	27.1
50°-60°	4362.8	27.5
60°-70°	1215.8	7.7
70°-80°	358.7	2.3
80°-90°	72.2	0.5
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°	15844.0	100.0
0°-180°	15844.0	100.0

Coefficient of Utilization

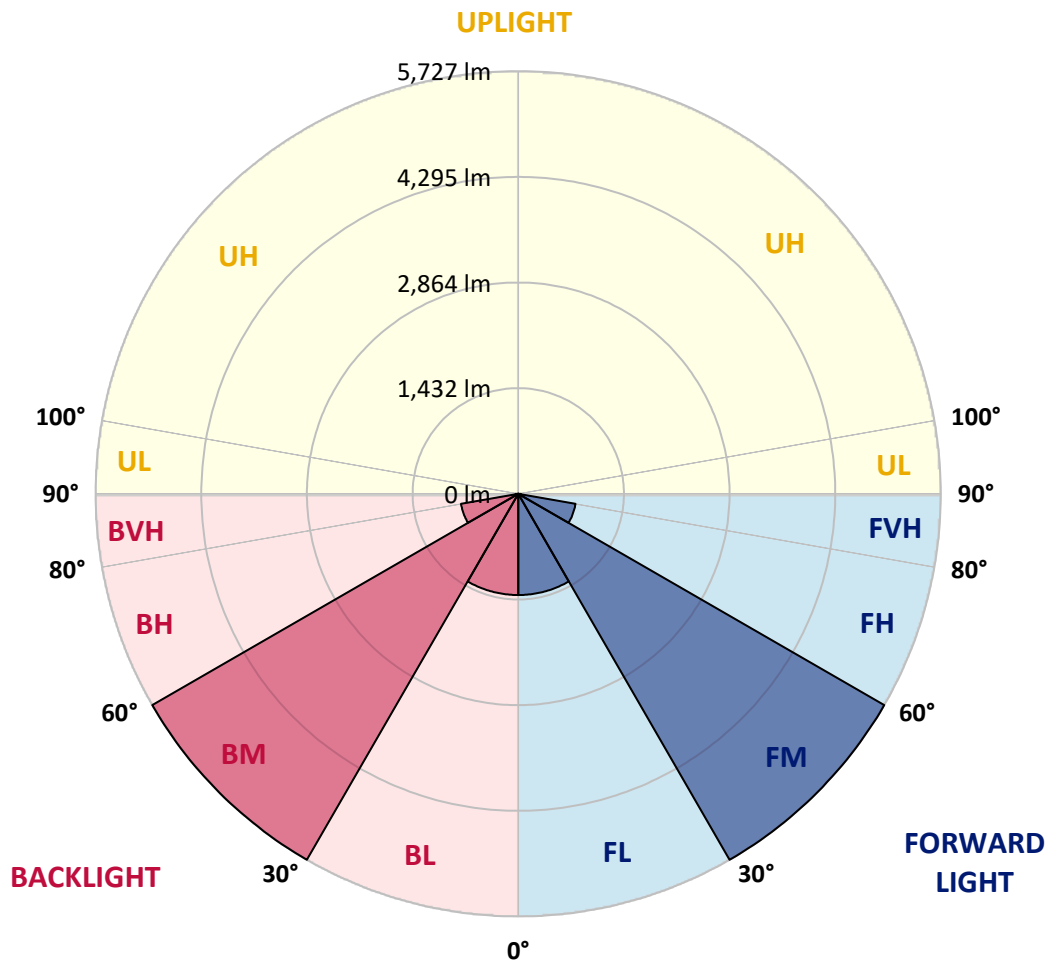


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1371.6	8.7			
FM (30°-60°)	5727.1	36.1			
FH (60°-80°)	787.2	5.0			G1/1800
FVH (80°-90°)	36.1	0.2			G1/100
BL (0°-30°)	1371.6	8.7	B3/2500		
BM (30°-60°)	5727.1	36.1	B4/8500		
BH (60°-80°)	787.2	5.0	B2/1000		G1/1800
BVH (80°-90°)	36.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2648.5	2648.5	2648.5	2648.5	2648.5	2648.5	2648.5	2648.5	2648.5	2648.5	2648.5
2.5°	2654.4	2626.9	2636.8	2642.6	2668.2	2666.2	2660.3	2668.2	2676.1	2678.0	2674.1
5°	2652.5	2632.8	2640.7	2646.5	2672.1	2685.9	2681.9	2715.4	2739.0	2733.1	2762.6
7.5°	2636.8	2648.5	2638.7	2668.2	2689.8	2723.3	2758.7	2790.1	2819.6	2853.0	2858.9
10°	2672.1	2672.1	2689.8	2713.4	2770.4	2796.0	2847.1	2892.3	2949.4	2988.7	2973.0
12.5°	2709.5	2715.4	2715.4	2776.4	2823.5	2880.6	2927.7	2988.7	3069.3	3116.5	3140.1
15°	2746.8	2750.8	2770.4	2853.0	2923.8	3014.2	3057.5	3112.6	3157.8	3246.2	3248.3
17.5°	2780.3	2801.9	2860.9	2953.3	3041.8	3128.3	3197.1	3254.1	3293.5	3328.8	3321.0
20°	2906.1	2921.8	2982.8	3075.2	3206.9	3291.5	3315.1	3324.9	3350.5	3421.2	3399.6
22.5°	3028.0	3033.9	3091.0	3232.5	3324.9	3437.0	3462.6	3456.6	3466.5	3484.2	3515.7
25°	3153.8	3163.7	3242.3	3362.3	3492.0	3625.8	3647.4	3602.2	3588.4	3608.1	3610.0
27.5°	3315.1	3317.0	3417.3	3521.5	3669.0	3794.9	3828.2	3792.9	3728.0	3743.8	3769.3
30°	3519.6	3505.8	3606.1	3755.5	3910.9	3981.6	4038.6	4020.9	3950.2	3936.5	3914.8
32.5°	3755.5	3759.5	3849.9	4013.1	4115.4	4233.4	4294.3	4264.8	4219.6	4195.9	4209.7
35°	4087.8	4105.5	4166.5	4302.1	4467.3	4526.3	4622.7	4559.7	4441.7	4471.2	4496.8
37.5°	4361.2	4412.3	4526.3	4687.5	4785.9	4894.0	4929.4	4844.8	4758.3	4722.9	4807.5
40°	4780.0	4764.2	4890.1	5051.3	5196.8	5304.9	5259.7	5175.2	4960.9	4962.8	4986.4
42.5°	5139.8	5147.6	5244.0	5436.7	5635.3	5702.1	5558.6	5352.1	5114.2	5088.6	5139.8
45°	5442.6	5474.0	5529.1	5786.7	5981.3	6054.1	5788.6	5544.8	5226.3	5120.1	5204.7
47.5°	5550.7	5601.8	5721.8	5957.7	6150.4	6209.4	5997.1	5647.1	5330.5	5157.5	5202.7
50°	5566.4	5548.7	5745.3	5961.7	6130.7	6258.6	6071.8	5721.8	5304.9	5214.5	5200.7
52.5°	5135.9	5222.4	5432.8	5729.7	6071.8	6276.3	6138.6	5763.0	5340.3	5238.1	5204.7
55°	4156.6	4054.4	4437.8	4937.2	5566.4	6134.7	6115.0	5784.7	5362.0	5277.4	5232.2
57.5°	2320.2	2349.6	2566.0	3108.7	3920.7	4864.5	5436.7	5556.6	5352.1	5302.9	5326.6
60°	1073.6	1083.4	1175.8	1429.4	1932.8	2758.7	3511.8	4276.6	4628.5	4699.3	4699.3
62.5°	800.2	796.3	820.0	865.1	971.3	1268.2	1692.9	2300.5	2784.2	3122.4	3210.8
65°	723.6	721.6	733.4	749.2	757.0	798.3	892.7	1079.4	1236.7	1327.2	1311.5
67.5°	633.1	631.2	635.1	645.0	658.7	680.3	703.9	743.2	798.3	794.4	784.6
70°	511.2	511.2	517.1	525.0	540.7	566.3	593.8	621.3	668.5	678.4	676.4
72.5°	377.5	371.6	383.4	399.2	414.9	446.3	475.8	501.4	534.8	544.7	540.7
75°	239.9	243.8	251.7	269.4	296.9	318.5	350.0	371.6	393.2	401.1	403.1
77.5°	133.7	137.7	151.4	173.0	200.5	224.2	251.7	269.4	283.1	285.1	287.0
80°	80.6	82.6	96.3	116.0	139.6	165.1	186.8	204.5	216.3	210.4	208.4
82.5°	49.2	51.1	63.0	80.6	100.3	120.0	143.5	159.3	171.1	163.2	155.3
85°	25.5	27.6	37.3	49.2	64.9	74.7	74.7	66.9	64.9	60.9	59.0
87.5°	7.8	7.8	9.9	11.8	9.9	11.8	13.8	15.7	15.7	17.7	15.7
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)