

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: P647452

Luminaire Tested: **GALN-SA5D-835-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647452
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-SA5D-835-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 30280.2 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

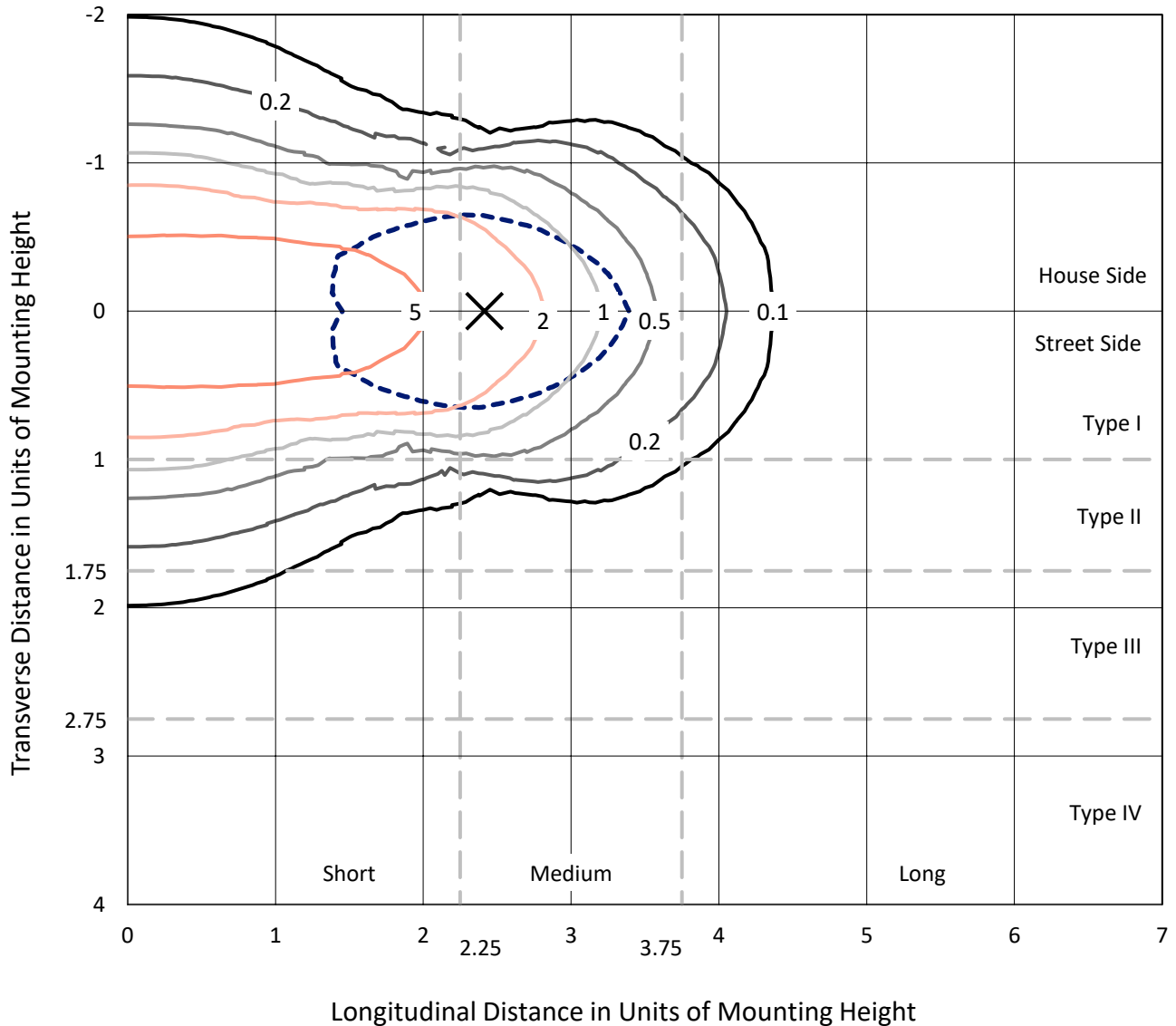
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

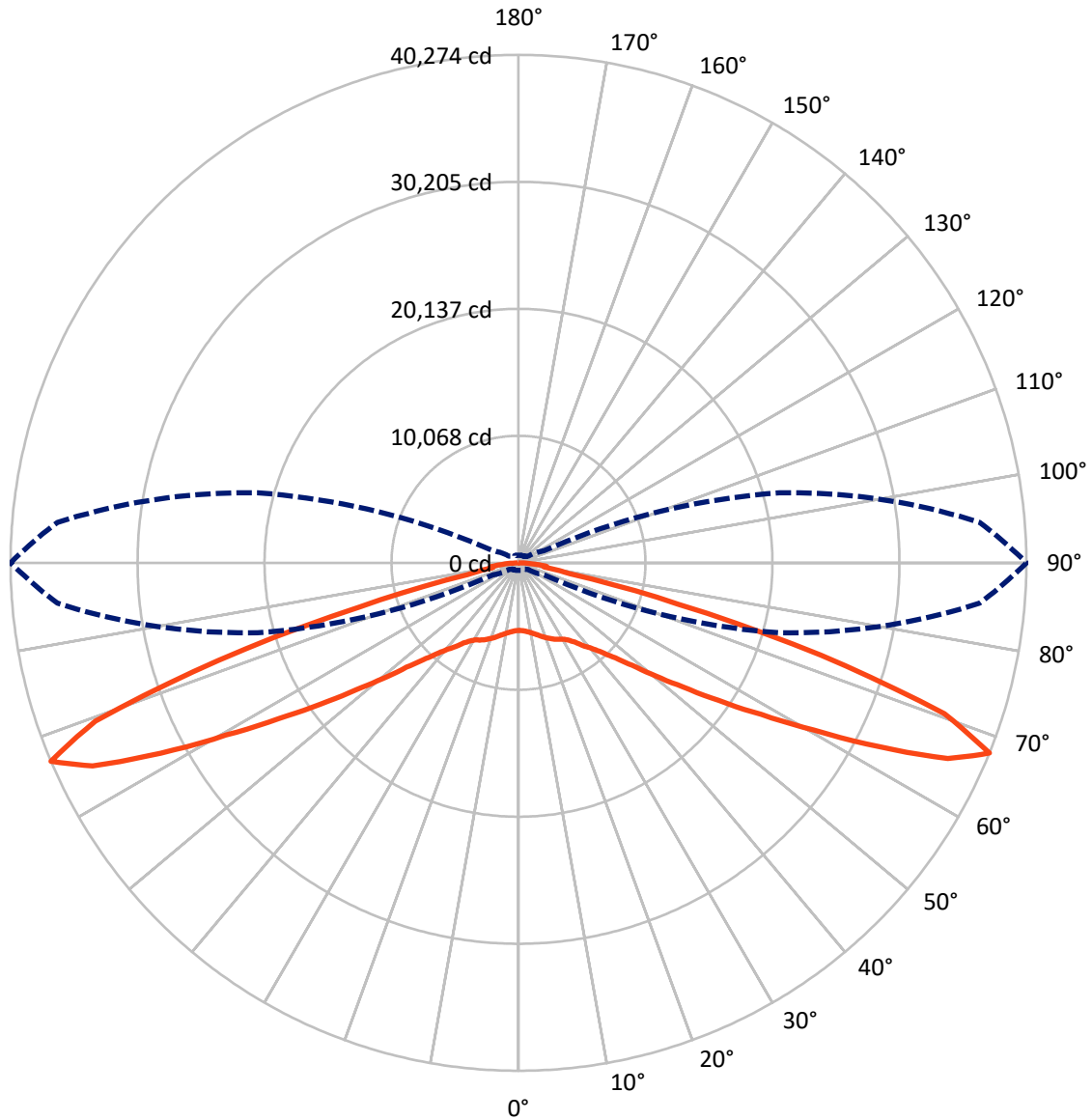
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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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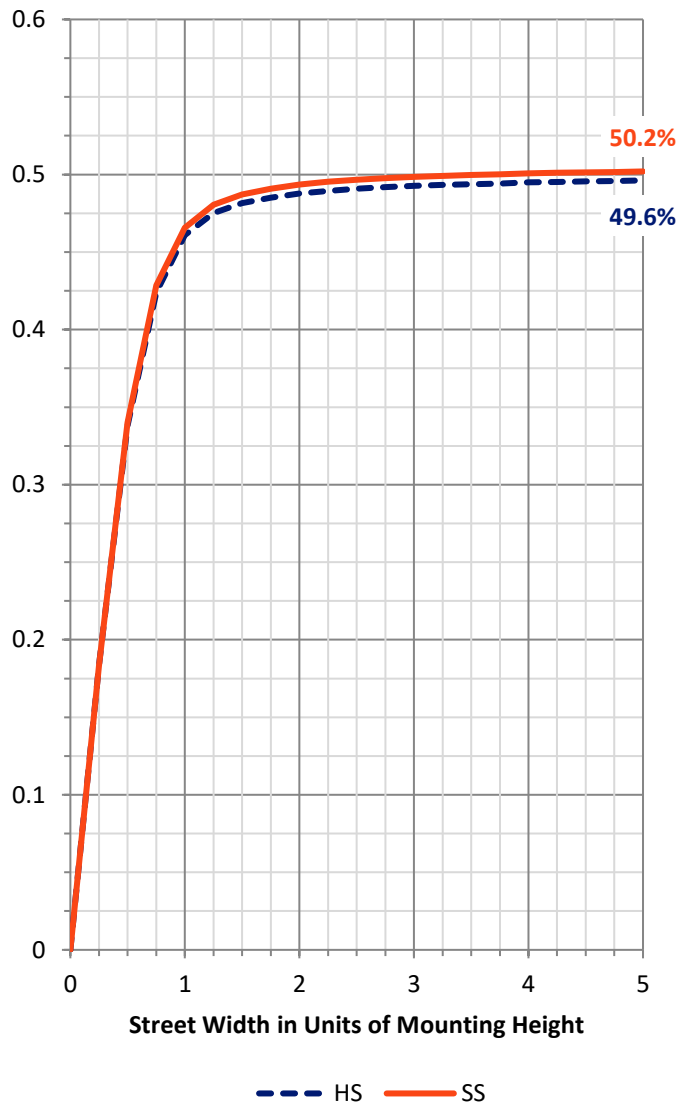
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15140.1	0.0	15140.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15140.1	0.0	15140.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	30280.2	0.0	30280.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.4	1.8
10°-20°	1709.9	5.6
20°-30°	2862.0	9.5
30°-40°	3877.3	12.8
40°-50°	4911.2	16.2
50°-60°	6135.3	20.3
60°-70°	7211.8	23.8
70°-80°	2758.8	9.1
80°-90°	279.5	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°	30280.2	100.0
0°-180°	30280.2	100.0

Coefficient of Utilization



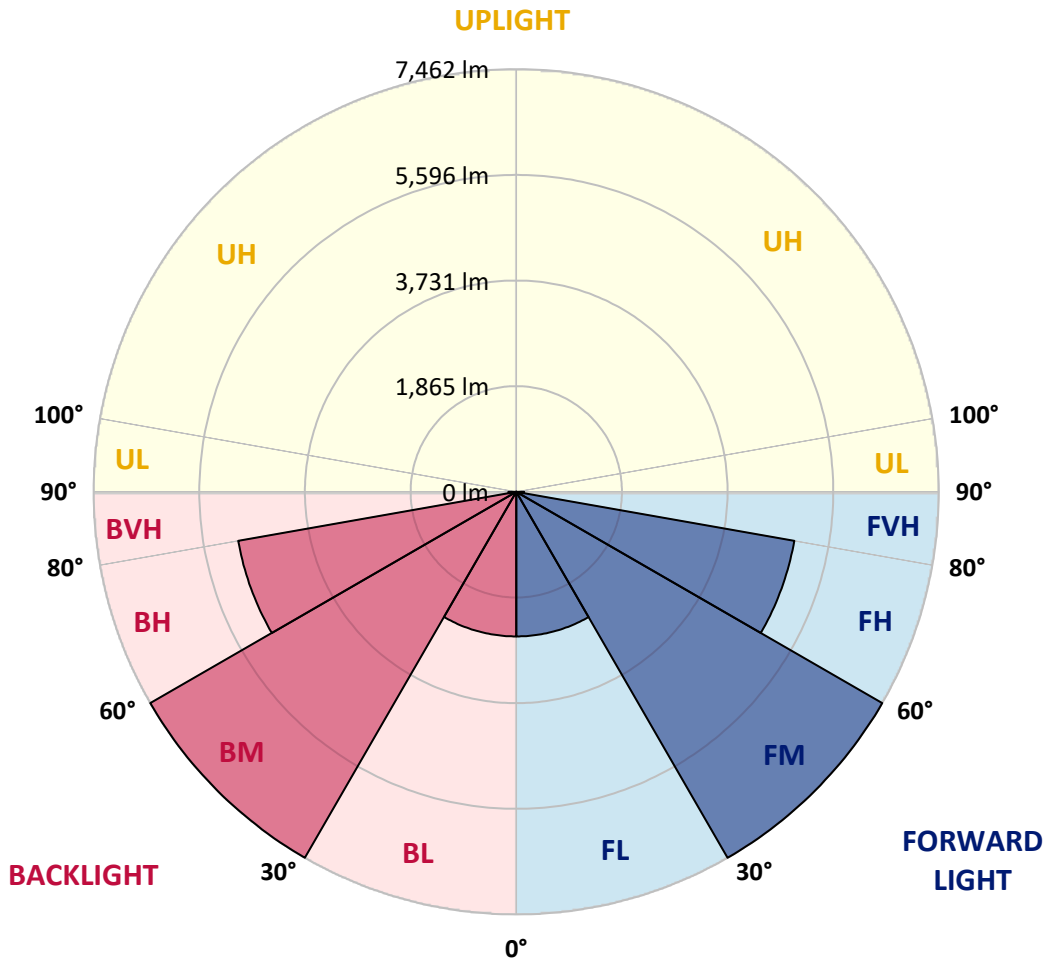
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2553.2	8.4			
FM (30°-60°)	7461.9	24.6			
FH (60°-80°)	4985.3	16.5			G2/5000
FVH (80°-90°)	139.8	0.5			G2/225
BL (0°-30°)	2553.2	8.4	B4/5000		
BM (30°-60°)	7461.9	24.6	B4/8500		
BH (60°-80°)	4985.3	16.5	B4/5000		G4/5000
BVH (80°-90°)	139.8	0.5			G2/225
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°	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5	5360.5
2.5°	5429.2	5426.0	5427.6	5426.0	5431.0	5427.6	5407.5	5390.7	5377.3	5379.0	5374.0
5°	5545.0	5546.6	5548.3	5540.0	5551.7	5545.0	5513.1	5486.3	5459.5	5449.4	5446.1
7.5°	5640.6	5649.0	5654.0	5662.3	5682.5	5682.5	5665.7	5627.1	5568.5	5534.9	5533.2
10°	5736.1	5742.8	5757.9	5784.7	5818.3	5850.1	5843.5	5791.5	5716.0	5659.0	5645.6
12.5°	5769.7	5778.1	5828.3	5905.5	5980.9	6043.0	6043.0	6001.1	5903.8	5816.6	5791.5
15°	5652.3	5667.4	5757.9	5922.2	6120.1	6255.9	6286.1	6227.4	6123.5	5989.3	5959.1
17.5°	5419.2	5456.1	5588.6	5831.7	6160.3	6442.1	6529.2	6500.7	6366.6	6195.6	6160.3
20°	5169.4	5209.6	5350.5	5672.4	6126.8	6551.0	6804.2	6810.9	6644.9	6396.8	6344.8
22.5°	4894.4	4924.6	5105.7	5483.0	6026.2	6576.2	7040.7	7156.3	6931.7	6597.9	6524.2
25°	4585.9	4619.4	4808.9	5216.3	5836.7	6547.7	7256.9	7511.8	7231.8	6812.6	6718.7
27.5°	4290.8	4304.2	4507.1	4921.2	5586.9	6473.9	7416.2	7838.8	7563.8	6990.3	6871.3
30°	4007.4	4039.3	4218.6	4627.8	5300.2	6329.7	7553.7	8211.0	7920.9	7176.4	7023.8
32.5°	3707.3	3745.9	3940.4	4354.5	5013.5	6113.4	7637.5	8618.4	8418.9	7478.3	7315.6
35°	3418.9	3444.0	3640.2	4042.6	4733.5	5861.9	7652.7	9077.9	9061.1	7936.0	7719.7
37.5°	3123.8	3160.7	3358.5	3744.1	4436.6	5595.2	7577.2	9565.8	9835.7	8571.5	8338.4
40°	2840.4	2872.3	3066.8	3455.8	4099.6	5270.0	7397.8	10011.8	10739.5	9225.4	8895.1
42.5°	2531.9	2540.3	2753.2	3148.9	3769.3	4892.7	7139.6	10409.2	11747.3	10102.3	9691.6
45°	2181.4	2203.2	2401.1	2790.1	3390.4	4470.1	6789.1	10737.8	13024.9	11318.0	10758.0
47.5°	1831.0	1849.4	2030.6	2414.5	2976.2	3985.6	6249.2	11026.2	14336.1	12862.3	12127.9
50°	1489.0	1499.0	1646.6	1986.9	2510.1	3475.9	5580.2	11118.4	15818.3	15048.7	14111.5
52.5°	1177.1	1192.2	1304.5	1571.1	2012.1	2873.9	4857.5	10890.4	17548.8	17641.0	16319.7
55°	954.1	959.1	1043.0	1239.1	1572.8	2243.5	3985.6	10255.0	19409.9	20962.6	19277.5
57.5°	821.6	825.0	871.9	980.9	1210.6	1691.8	3091.9	9052.7	21081.6	24854.3	22688.0
60°	746.1	747.8	774.6	838.4	959.1	1297.8	2215.0	7355.8	22731.6	29185.3	26926.7
62.5°	699.2	699.2	717.6	752.9	811.6	996.0	1604.6	5306.9	23861.7	33580.1	32151.5
65°	654.0	654.0	667.4	692.5	724.4	814.9	1185.5	3460.8	23833.2	36781.0	37406.3
67.5°	602.0	602.0	612.0	637.1	655.6	700.9	915.5	2266.9	21408.6	36710.5	40273.6
70°	539.9	539.9	553.3	575.1	590.2	618.7	722.7	1551.0	15727.8	31345.0	35816.8
72.5°	477.9	479.5	488.0	509.7	521.5	538.2	600.2	1086.5	9648.0	21343.2	25043.8
75°	409.1	412.5	420.9	442.6	452.7	459.5	506.4	774.6	4881.0	11507.4	13102.0
77.5°	330.3	337.0	342.1	365.5	372.2	382.3	417.5	560.0	2142.8	4134.9	4171.7
80°	241.5	249.9	264.9	286.7	291.7	298.5	318.6	397.4	970.8	1888.0	2050.7
82.5°	177.7	189.5	171.0	199.5	199.5	191.1	224.7	266.6	446.0	1869.6	2236.8
85°	97.2	98.9	88.9	102.3	109.0	107.3	119.0	130.8	216.3	1247.5	1286.1
87.5°	23.5	25.1	26.9	31.9	38.6	38.6	41.9	36.9	70.4	404.1	231.4
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)