

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: P533449

Luminaire Tested: **GALN-SA8D-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-827-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31546 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

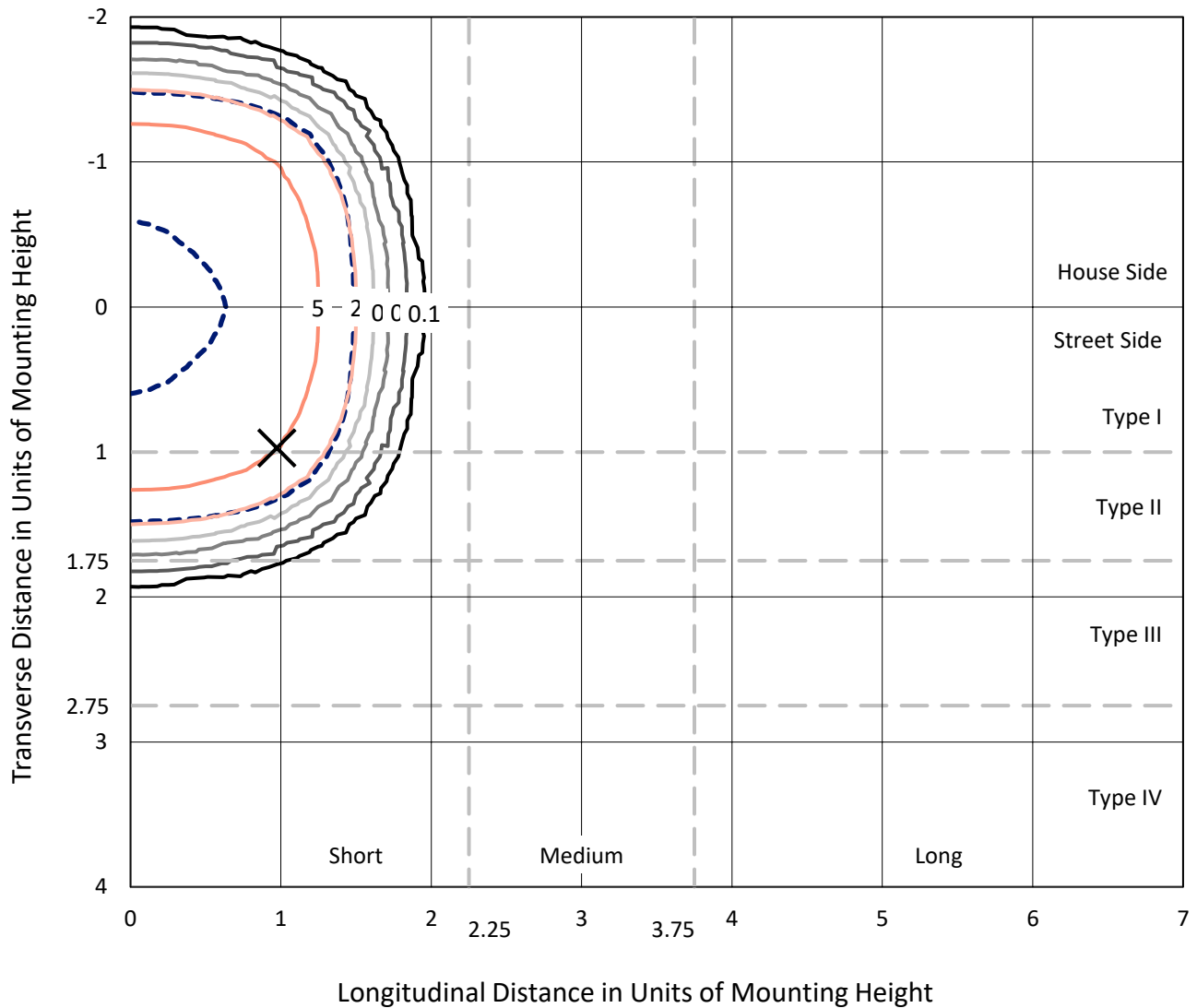
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

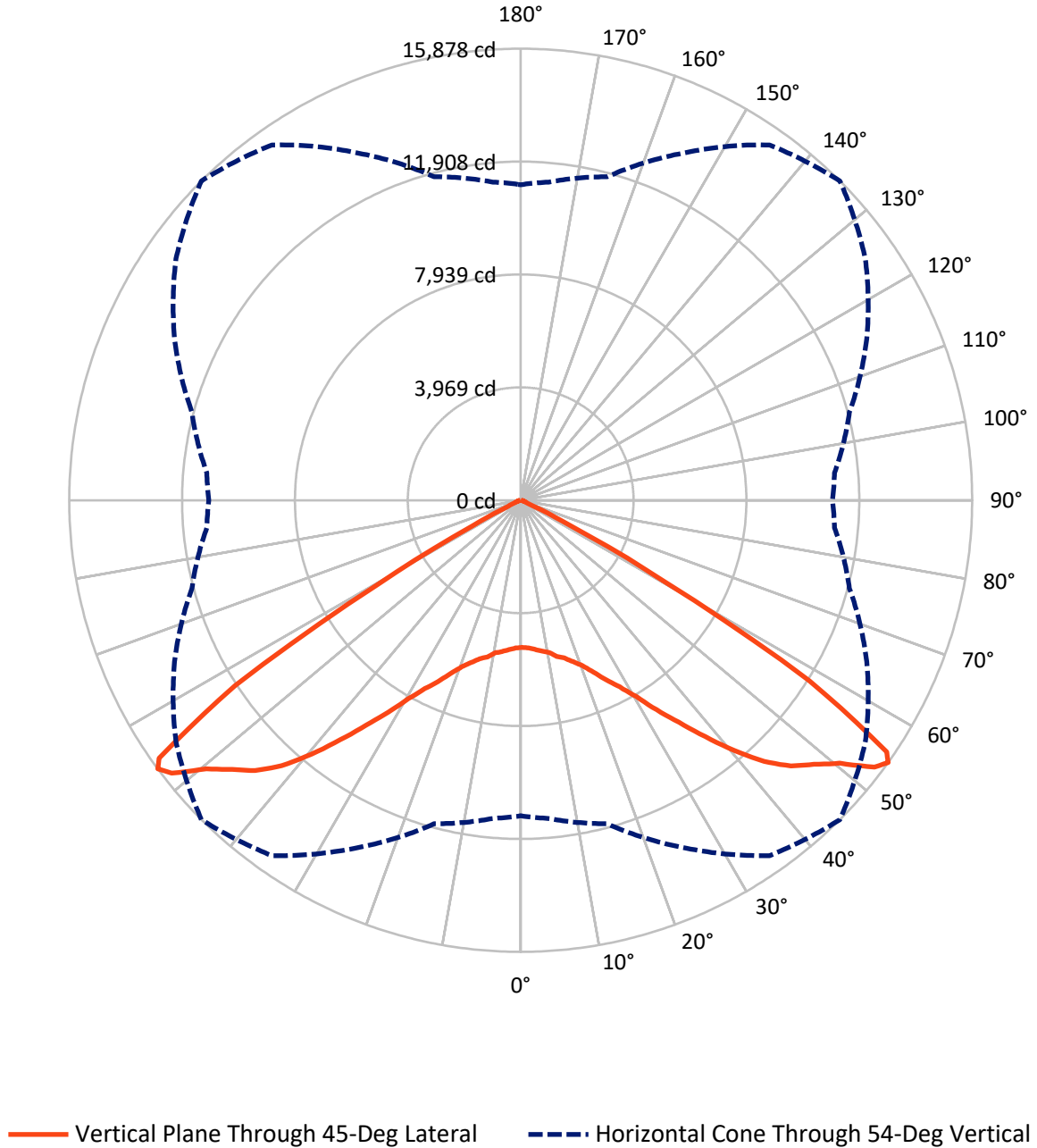
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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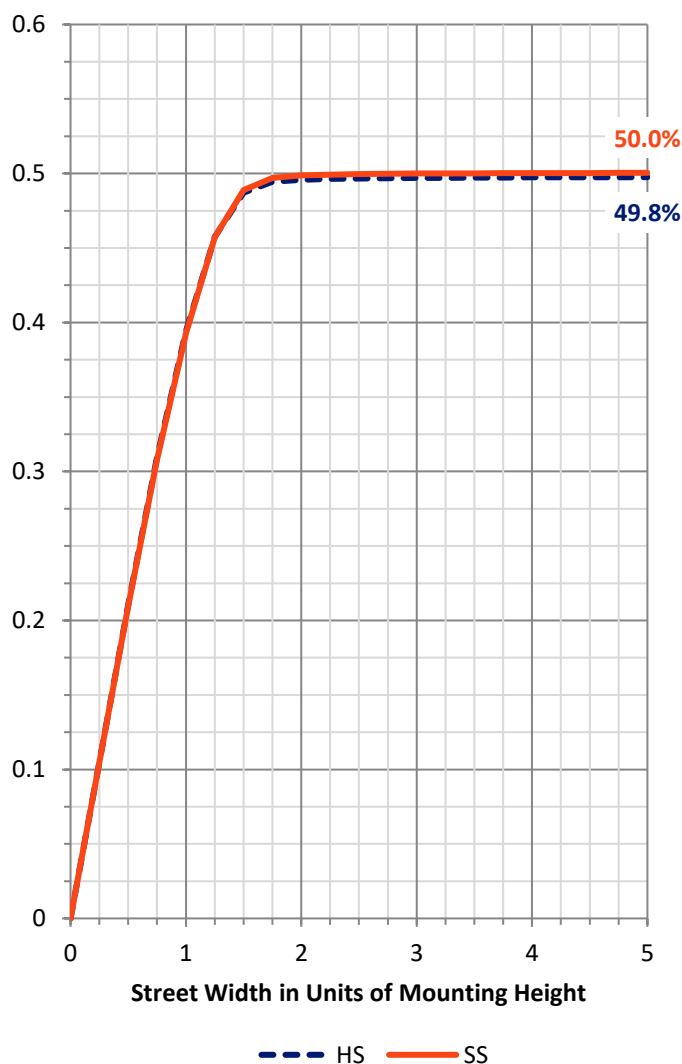
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15773.0	0.0	15773.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15773.0	0.0	15773.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31546.0	0.0	31546.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.3	1.6
10°-20°	1639.5	5.2
20°-30°	3213.3	10.2
30°-40°	5778.2	18.3
40°-50°	9891.2	31.4
50°-60°	9570.7	30.3
60°-70°	819.3	2.6
70°-80°	97.1	0.3
80°-90°	30.5	0.1
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°	31546.0	100.0
0°-180°	31546.0	100.0

Coefficient of Utilization



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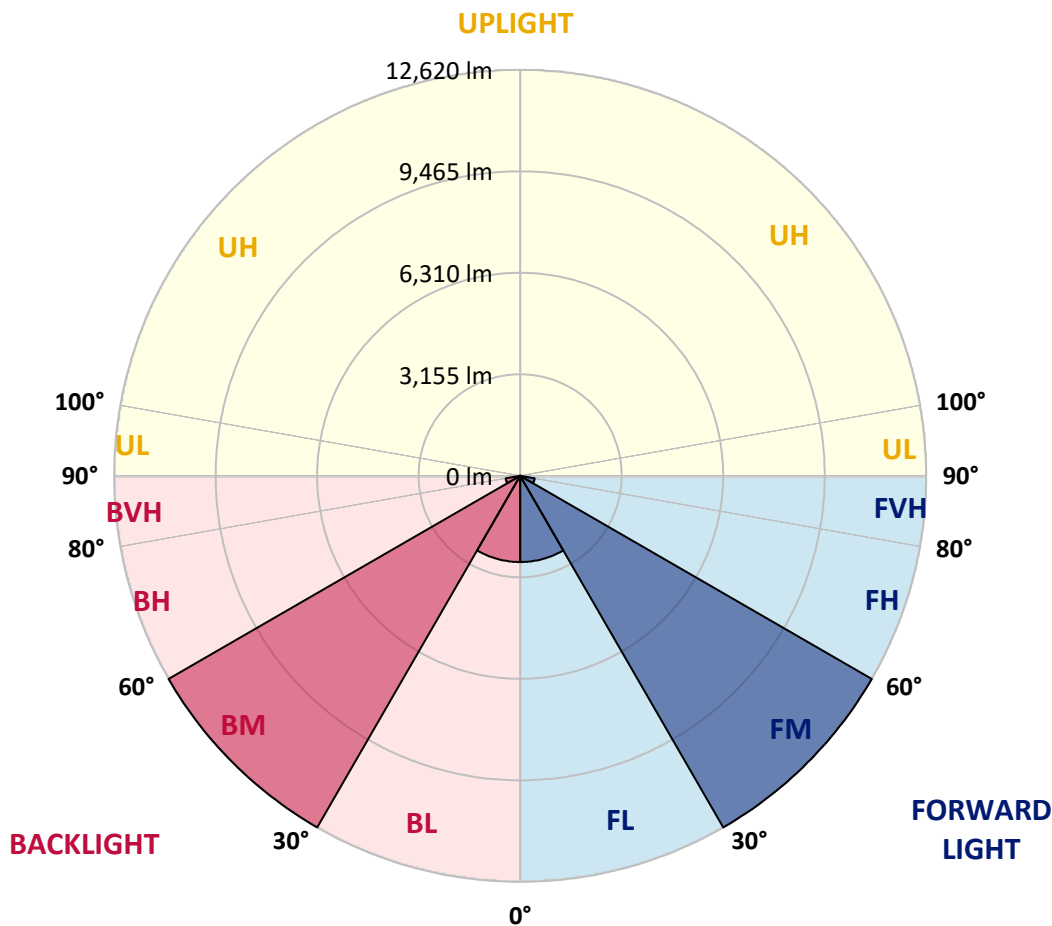
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2679.5	8.5			
FM (30°-60°)	12620.0	40.0			
FH (60°-80°)	458.2	1.5			G0/660
FVH (80°-90°)	15.2	0.0			G1/100
BL (0°-30°)	2679.5	8.5	B4/5000		
BM (30°-60°)	12620.0	40.0	B5		
BH (60°-80°)	458.2	1.5	B1/500		G0/660
BVH (80°-90°)	15.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5172.6	5172.6	5172.6	5172.6	5172.6	5172.6	5172.6	5172.6	5172.6	5172.6	5172.6
2.5°	5197.5	5227.5	5207.5	5222.5	5222.5	5197.5	5212.5	5152.6	5192.6	5162.6	5167.6
5°	5277.5	5272.5	5272.5	5277.5	5257.5	5267.5	5247.5	5227.5	5212.5	5192.6	5252.5
7.5°	5377.5	5377.5	5342.5	5352.5	5342.5	5357.5	5317.5	5277.5	5262.5	5247.5	5237.5
10°	5472.4	5462.4	5447.4	5492.4	5457.4	5437.4	5417.4	5392.5	5337.5	5317.5	5297.5
12.5°	5612.4	5607.4	5587.4	5632.3	5612.4	5632.3	5557.4	5492.4	5482.4	5417.4	5452.4
15°	5777.3	5822.3	5787.3	5787.3	5777.3	5752.3	5722.3	5692.3	5602.4	5577.4	5582.4
17.5°	5992.2	5977.2	5982.2	5982.2	6032.2	5967.2	5907.2	5832.3	5787.3	5772.3	5722.3
20°	6197.1	6217.1	6212.1	6247.1	6277.0	6207.1	6142.1	6132.1	6007.2	6027.2	5957.2
22.5°	6556.9	6541.9	6566.9	6591.9	6571.9	6561.9	6501.9	6427.0	6317.0	6267.0	6257.0
25°	6936.7	6911.7	6866.8	6926.7	6956.7	7001.7	6886.8	6846.8	6676.9	6601.9	6606.9
27.5°	7261.6	7296.6	7346.5	7371.5	7446.5	7431.5	7351.5	7221.6	7091.7	7006.7	6951.7
30°	7706.4	7726.4	7811.3	7846.3	7976.2	8011.2	7886.3	7736.4	7506.5	7396.5	7331.5
32.5°	8116.2	8256.1	8251.1	8426.0	8635.9	8780.9	8556.0	8326.1	8096.2	7966.2	7851.3
35°	8780.9	8755.9	8900.8	9085.7	9425.6	9590.5	9345.6	9080.7	8730.9	8521.0	8431.0
37.5°	9400.6	9410.6	9605.5	9900.3	10290.1	10545.0	10330.1	9895.3	9535.5	9265.6	9140.7
40°	10300.1	10320.1	10520.0	10854.9	11294.7	11569.5	11319.7	10879.9	10400.1	10190.2	10190.2
42.5°	11354.6	11439.6	11569.5	11859.4	12254.2	12559.1	12334.2	11989.3	11504.6	11234.7	11274.7
45°	12439.1	12479.1	12564.1	12993.9	13178.8	13328.7	13118.8	12958.9	12634.0	12304.2	12249.2
47.5°	13453.7	13468.6	13718.5	13853.5	13998.4	13873.5	14008.4	13798.5	13433.7	13113.8	13048.8
50°	13903.4	13878.5	14233.3	14643.1	14753.0	14533.1	14418.2	14278.3	13723.5	13338.7	13168.8
52.5°	12594.1	12739.0	13398.7	14538.1	15397.7	15582.7	14913.0	14268.3	13233.8	12484.1	12369.2
54°	11094.8	11229.7	11774.4	13463.7	15252.8	15877.5	14798.0	13428.7	11969.4	11079.8	10964.8
55°	9610.5	9460.5	10450.1	12174.3	14573.1	15617.6	14343.2	12344.2	10675.0	9860.4	9700.4
57.5°	5202.5	5227.5	6062.1	7691.4	10240.2	11974.4	10575.0	8351.1	6307.0	5392.5	5312.5
60°	1649.2	1689.2	2054.0	3108.5	4892.7	5842.2	5007.6	3353.4	2318.9	1859.1	1784.2
62.5°	514.8	534.7	584.7	869.6	1339.4	1914.1	1499.3	899.6	669.7	614.7	624.7
65°	314.9	314.9	319.8	339.8	399.8	464.8	449.8	394.8	379.8	369.8	364.8
67.5°	204.9	199.9	209.9	224.9	234.9	239.9	254.9	269.9	264.9	254.9	254.9
70°	124.9	119.9	129.9	149.9	154.9	164.9	179.9	199.9	194.9	184.9	189.9
72.5°	70.0	70.0	75.0	90.0	105.0	114.9	129.9	144.9	149.9	144.9	144.9
75°	25.0	30.0	40.0	55.0	65.0	80.0	95.0	109.9	124.9	114.9	109.9
77.5°	10.0	10.0	20.0	35.0	50.0	65.0	90.0	105.0	114.9	105.0	95.0
80°	5.0	5.0	15.0	30.0	45.0	60.0	75.0	90.0	95.0	85.0	75.0
82.5°	5.0	5.0	15.0	30.0	45.0	55.0	80.0	90.0	100.0	90.0	75.0
85°	0.0	5.0	15.0	30.0	40.0	45.0	45.0	30.0	25.0	15.0	15.0
87.5°	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)