

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: P532748

Luminaire Tested: **GALN-SA8A-827-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-827-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24452 lumens
Efficiency: N/A
Efficacy: 100.2 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

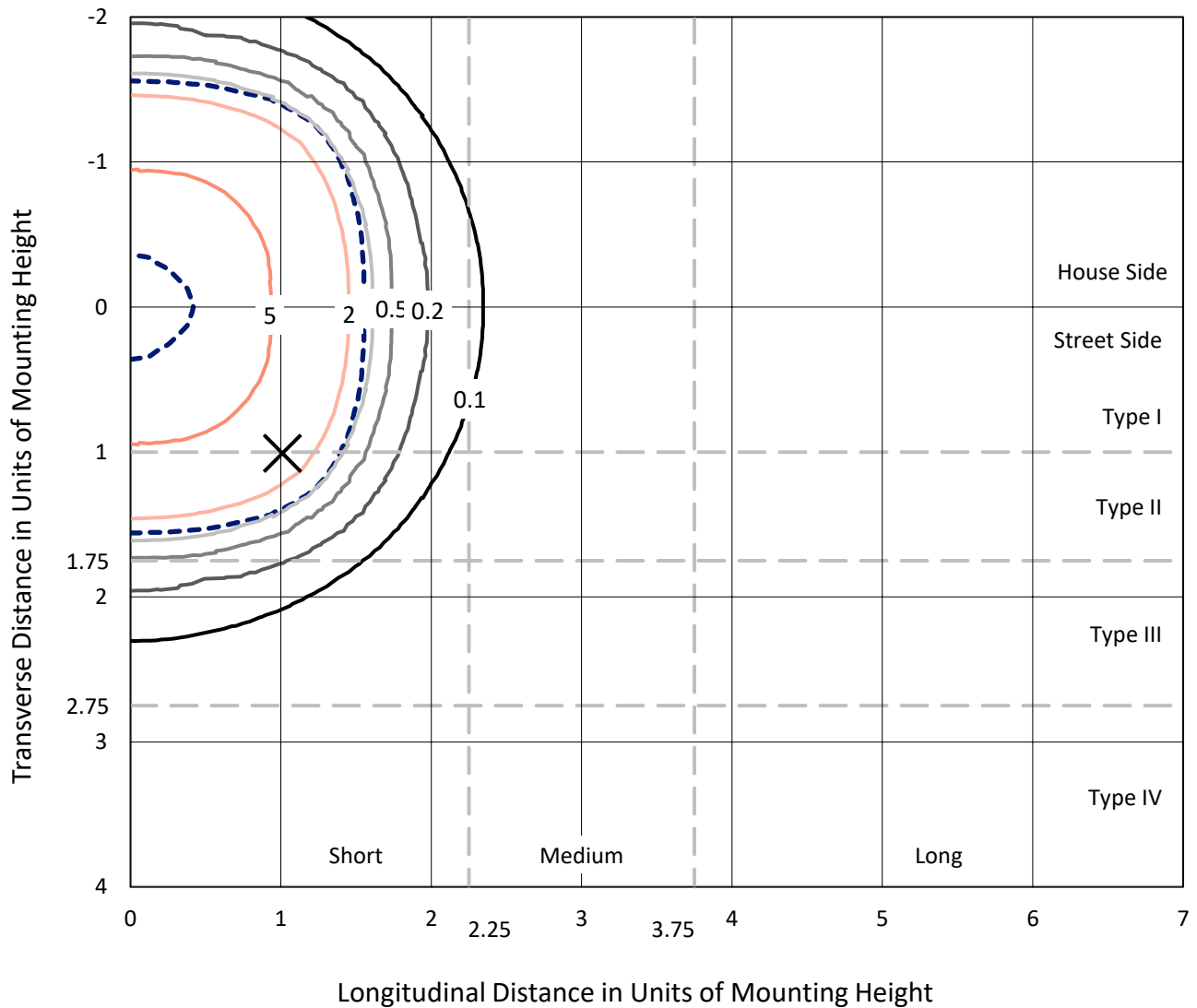
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

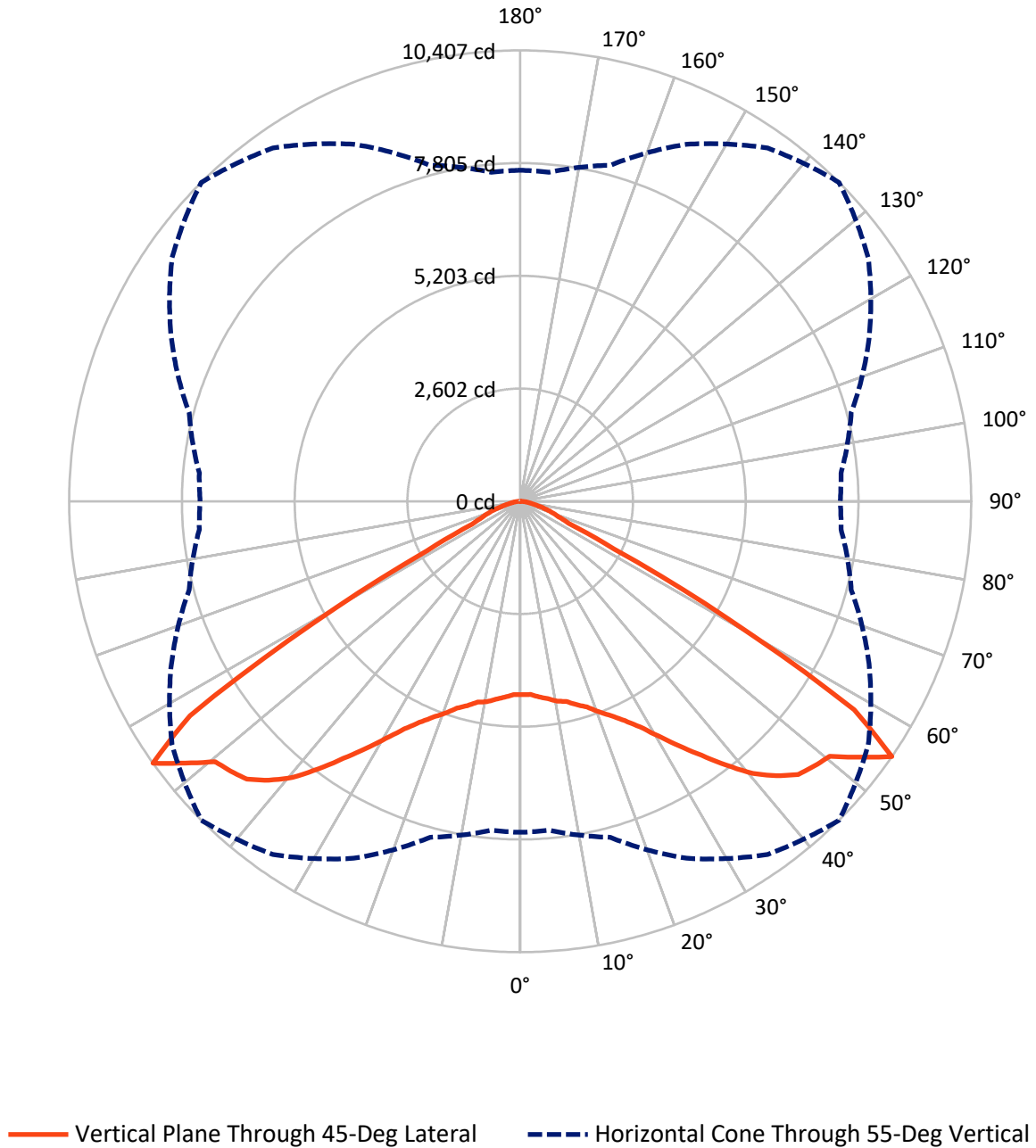
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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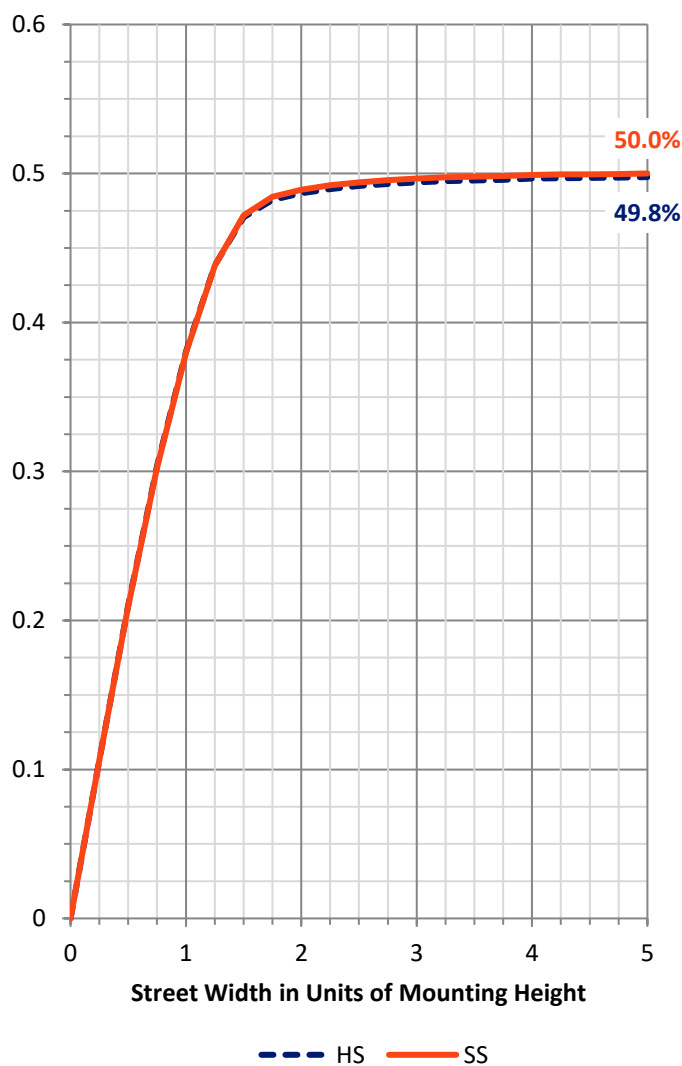
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12226.0	0.0	12226.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12226.0	0.0	12226.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24452.0	0.0	24452.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.1	1.8
10°-20°	1381.9	5.7
20°-30°	2576.9	10.5
30°-40°	4314.5	17.6
40°-50°	6713.7	27.5
50°-60°	6970.9	28.5
60°-70°	1478.3	6.0
70°-80°	486.9	2.0
80°-90°	92.7	0.4
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°	24452.0	100.0
0°-180°	24452.0	100.0

Coefficient of Utilization



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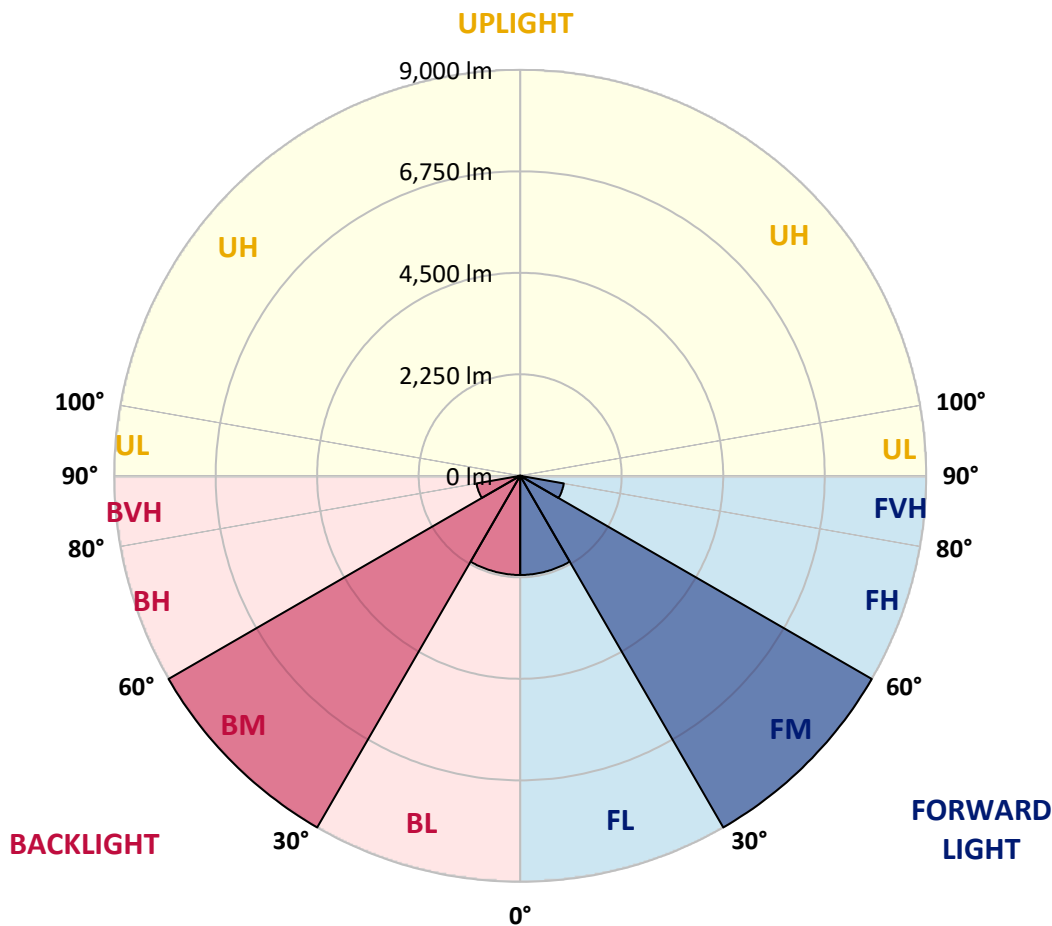
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2197.5	9.0			
FM (30°-60°)	8999.6	36.8			
FH (60°-80°)	982.6	4.0			G1/1800
FVH (80°-90°)	46.4	0.2			G1/100
BL (0°-30°)	2197.5	9.0	B3/2500		
BM (30°-60°)	8999.6	36.8	B5		
BH (60°-80°)	982.6	4.0	B2/1000		G1/1800
BVH (80°-90°)	46.4	0.2			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°	4464.6	4464.6	4464.6	4464.6	4464.6	4464.6	4464.6	4464.6	4464.6	4464.6	4464.6
2.5°	4517.8	4497.1	4461.6	4488.2	4508.9	4464.6	4482.3	4491.2	4485.3	4461.6	4470.5
5°	4582.8	4570.9	4541.4	4562.1	4535.5	4535.5	4517.8	4494.1	4529.6	4523.7	4538.4
7.5°	4582.8	4568.0	4627.1	4588.7	4600.5	4600.5	4570.9	4547.3	4565.0	4538.4	4523.7
10°	4674.4	4695.0	4668.4	4677.3	4671.4	4692.1	4647.8	4633.0	4618.2	4609.4	4591.6
12.5°	4783.7	4768.9	4777.8	4771.9	4792.5	4739.4	4712.8	4680.3	4706.9	4668.4	4695.0
15°	4872.3	4863.5	4872.3	4896.0	4875.3	4872.3	4825.0	4792.5	4751.2	4760.0	4718.7
17.5°	4993.5	4984.6	4987.6	5008.2	5005.3	4990.5	4955.1	4893.0	4878.2	4854.6	4828.0
20°	5173.7	5158.9	5153.0	5161.9	5176.7	5188.5	5117.6	5093.9	5043.7	5005.3	4961.0
22.5°	5327.3	5321.4	5345.1	5306.7	5339.2	5374.6	5306.7	5294.8	5170.7	5150.1	5102.8
25°	5540.1	5531.2	5516.4	5572.6	5611.0	5608.0	5543.0	5478.0	5383.5	5359.8	5359.8
27.5°	5764.6	5714.4	5791.2	5806.0	5874.0	5894.7	5838.5	5744.0	5655.3	5605.1	5616.9
30°	6045.3	5998.1	6015.8	6122.2	6210.8	6287.6	6145.8	6006.9	5882.8	5794.2	5779.4
32.5°	6326.0	6278.8	6331.9	6435.4	6612.6	6727.9	6589.0	6346.7	6201.9	6071.9	6098.5
35°	6553.6	6589.0	6674.7	6831.3	7014.5	7200.6	6979.0	6792.9	6586.1	6441.3	6462.0
37.5°	6919.9	7029.3	7097.2	7277.5	7537.5	7729.5	7499.1	7256.8	7035.2	6846.1	6781.1
40°	7398.6	7472.5	7549.3	7762.0	8069.3	8261.4	8042.7	7726.6	7507.9	7312.9	7304.0
42.5°	7924.5	7995.5	8075.2	8335.2	8518.4	8663.2	8462.3	8293.9	8051.6	7897.9	7889.1
45°	8536.2	8485.9	8574.6	8745.9	8899.6	8994.1	8864.1	8781.4	8607.1	8465.3	8450.5
47.5°	8943.9	8899.6	9059.1	9212.8	9236.4	9133.0	9159.6	9236.4	9053.2	8819.8	8893.7
50°	9180.3	9180.3	9286.7	9428.5	9384.2	9251.2	9461.0	9466.9	9283.7	9076.9	9076.9
52.5°	8769.6	8861.2	9162.6	9626.5	9774.2	9812.6	9765.3	9564.4	9085.7	8663.2	8642.5
55°	7640.9	7620.2	8028.0	9091.7	9951.5	10406.5	9803.7	8878.9	7906.8	7431.1	7383.8
57.5°	4969.8	4993.5	5602.1	6686.5	8237.7	9085.7	8069.3	6769.2	5602.1	4946.2	5008.2
60°	2236.7	2316.5	2685.8	3495.4	4828.0	5519.4	4839.8	3672.7	2818.8	2446.5	2479.0
62.5°	1285.3	1300.1	1314.8	1560.1	2056.5	2431.7	2136.3	1648.7	1453.7	1388.7	1388.7
65°	1084.4	1075.5	1078.5	1099.2	1152.3	1229.2	1196.7	1152.3	1158.2	1152.3	1143.5
67.5°	921.9	933.7	924.8	939.6	942.6	954.4	975.1	992.8	995.7	1001.6	995.7
70°	756.4	759.4	765.3	777.1	780.0	788.9	818.5	833.2	842.1	842.1	853.9
72.5°	579.1	576.2	582.1	593.9	608.7	611.6	638.2	658.9	670.7	655.9	658.9
75°	381.2	384.1	393.0	401.8	422.5	443.2	452.1	472.8	475.7	481.6	466.8
77.5°	227.5	233.4	242.3	260.0	277.7	295.5	316.2	330.9	336.8	330.9	313.2
80°	147.7	147.7	159.6	174.3	195.0	209.8	221.6	233.4	242.3	233.4	227.5
82.5°	91.6	91.6	106.4	124.1	138.9	147.7	165.5	180.2	189.1	183.2	174.3
85°	47.3	50.2	62.0	76.8	88.6	94.6	91.6	82.7	73.9	70.9	65.0
87.5°	14.8	14.8	17.7	17.7	14.8	14.8	17.7	14.8	17.7	17.7	17.7
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)