

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: P529708

Luminaire Tested: **GALN-SA4D-827-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-827-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19086 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

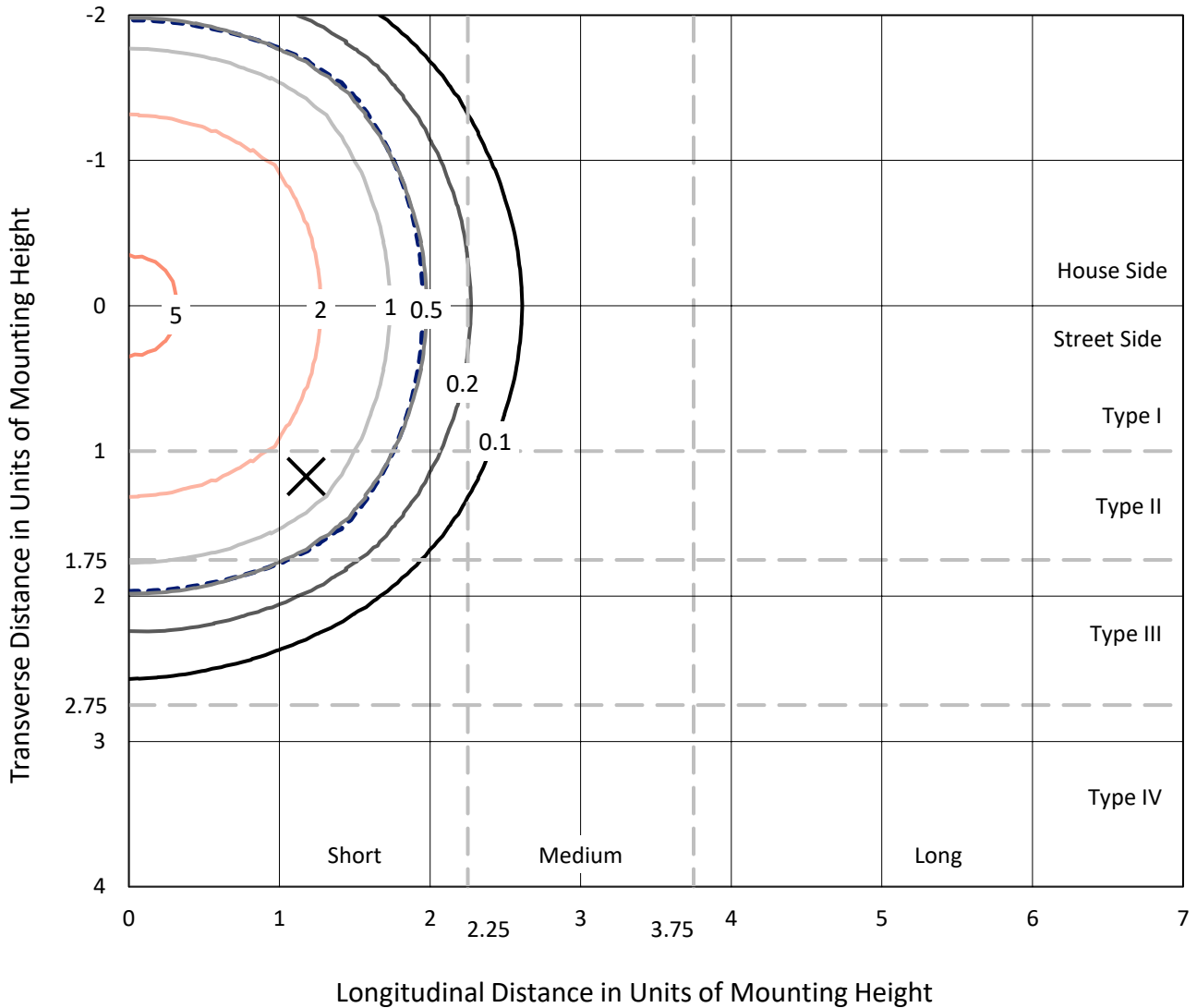
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

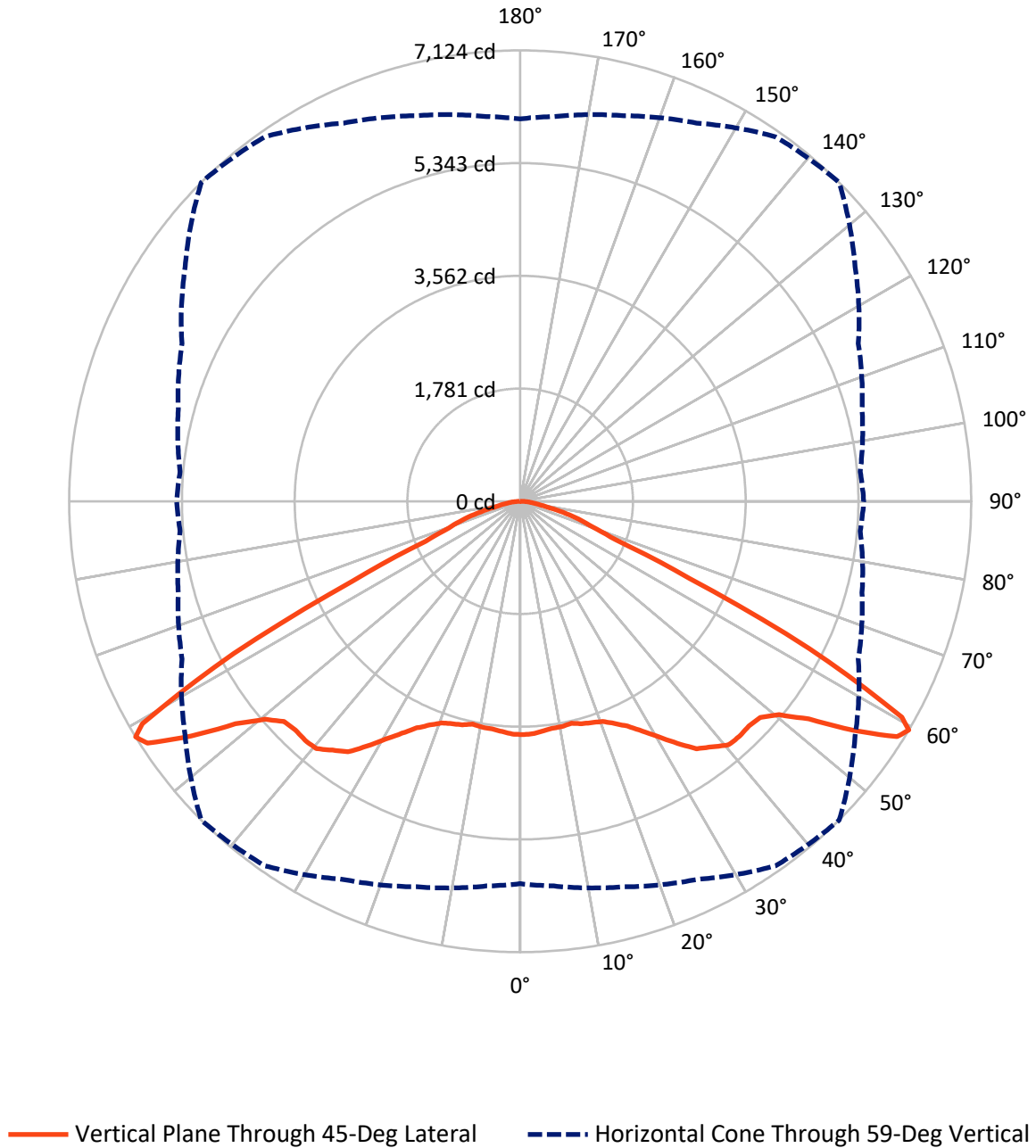
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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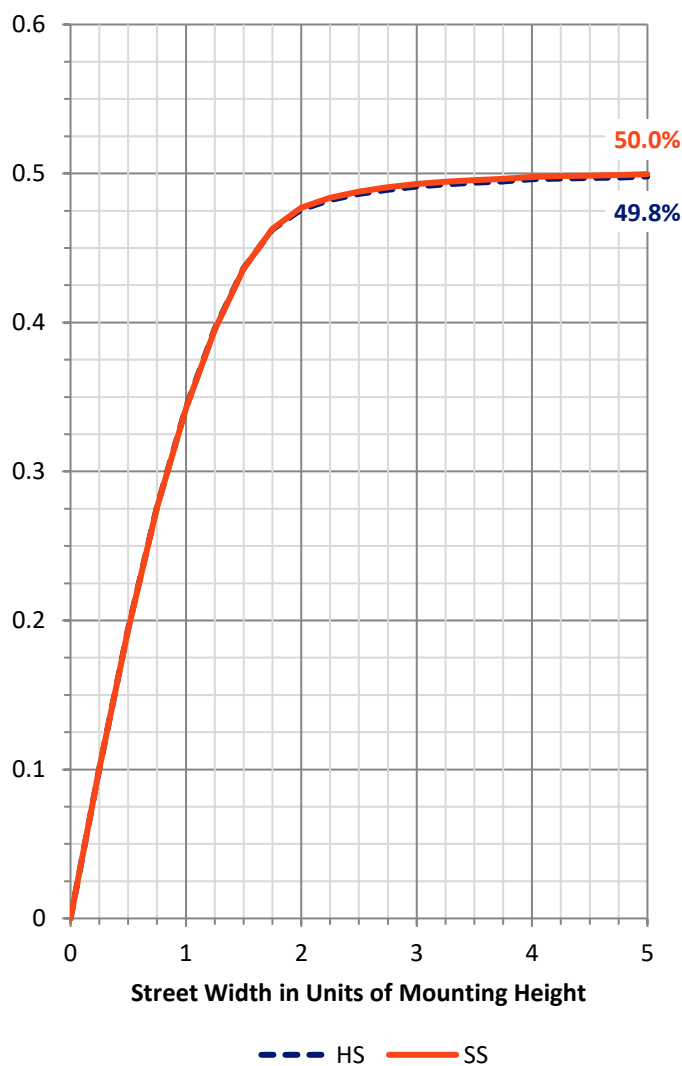
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9543.0	0.0	9543.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9543.0	0.0	9543.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19086.0	0.0	19086.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.5	1.8
10°-20°	1033.5	5.4
20°-30°	1804.5	9.5
30°-40°	2882.1	15.1
40°-50°	3926.0	20.6
50°-60°	5309.0	27.8
60°-70°	2911.5	15.3
70°-80°	744.8	3.9
80°-90°	127.0	0.7
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°	19086.0	100.0
0°-180°	19086.0	100.0

Coefficient of Utilization



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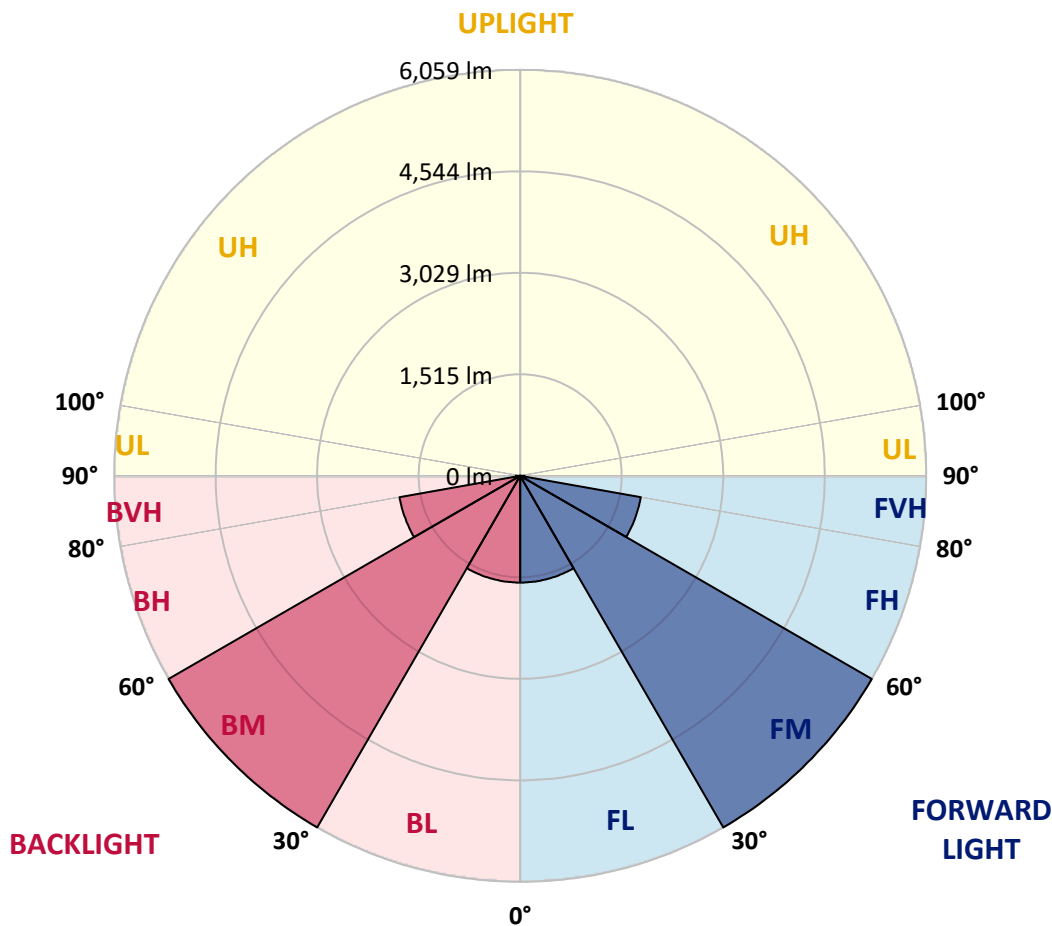
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1592.8	8.3			
FM (30°-60°)	6058.6	31.7			
FH (60°-80°)	1828.2	9.6			G2/5000
FVH (80°-90°)	63.5	0.3			G1/100
BL (0°-30°)	1592.8	8.3	B3/2500		
BM (30°-60°)	6058.6	31.7	B4/8500		
BH (60°-80°)	1828.2	9.6	B3/2500		G2/5000
BVH (80°-90°)	63.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3686.5	3686.5	3686.5	3686.5	3686.5	3686.5	3686.5	3686.5	3686.5	3686.5	3686.5
2.5°	3664.5	3691.4	3671.8	3688.9	3686.5	3679.2	3666.9	3659.6	3649.8	3664.5	3640.0
5°	3649.8	3671.8	3693.8	3664.5	3664.5	3649.8	3642.5	3627.8	3627.8	3625.3	3622.9
7.5°	3674.3	3652.3	3642.5	3647.4	3652.3	3620.5	3642.5	3613.1	3588.7	3605.8	3625.3
10°	3652.3	3662.0	3625.3	3642.5	3615.6	3620.5	3605.8	3625.3	3598.4	3598.4	3598.4
12.5°	3674.3	3647.4	3659.6	3647.4	3640.0	3598.4	3618.0	3596.0	3593.5	3618.0	3596.0
15°	3718.3	3674.3	3664.5	3640.0	3647.4	3647.4	3627.8	3630.2	3603.3	3618.0	3622.9
17.5°	3703.6	3679.2	3671.8	3642.5	3666.9	3674.3	3637.6	3613.1	3630.2	3627.8	3625.3
20°	3715.9	3725.6	3718.3	3723.2	3733.0	3713.4	3679.2	3644.9	3622.9	3654.7	3652.3
22.5°	3794.1	3784.4	3779.5	3774.6	3791.7	3811.3	3764.8	3711.0	3711.0	3733.0	3742.8
25°	3857.7	3855.3	3852.8	3874.9	3933.6	3933.6	3874.9	3806.4	3789.2	3803.9	3791.7
27.5°	3950.7	3977.6	3967.8	4007.0	4092.6	4112.2	4033.9	3953.1	3906.7	3889.5	3911.6
30°	4163.5	4131.7	4139.1	4180.6	4256.5	4320.1	4200.2	4114.6	4051.0	4048.5	4058.3
32.5°	4305.4	4329.9	4351.9	4391.0	4510.9	4559.8	4415.5	4276.0	4236.9	4214.9	4222.2
35°	4589.2	4567.2	4562.3	4601.4	4721.3	4802.0	4621.0	4498.7	4447.3	4496.2	4496.2
37.5°	4858.3	4797.1	4750.6	4802.0	4912.1	4921.9	4767.7	4701.7	4674.8	4731.1	4728.6
40°	4985.5	4980.6	4872.9	4902.3	5049.1	5063.7	4919.4	4841.1	4836.2	4909.6	4983.0
42.5°	5117.6	5071.1	4963.4	4983.0	5073.5	5078.4	4941.4	4919.4	4973.2	5044.2	5049.1
45°	5139.6	5100.4	5031.9	4983.0	5049.1	5063.7	4983.0	4997.7	5002.6	5088.2	5088.2
47.5°	5183.6	5178.7	5139.6	5102.9	5115.1	5102.9	5051.5	5073.5	5146.9	5188.5	5168.9
50°	5305.9	5254.6	5293.7	5261.9	5264.3	5298.6	5252.1	5274.1	5259.4	5222.7	5198.3
52.5°	5575.0	5550.5	5584.8	5606.8	5631.3	5709.6	5655.7	5538.3	5428.2	5330.4	5327.9
55°	5968.9	5986.0	6052.0	6164.6	6260.0	6384.7	6125.4	5844.1	5668.0	5513.9	5523.6
57.5°	6340.7	6328.5	6419.0	6675.8	6954.7	7018.3	6509.5	6108.3	5822.1	5724.2	5682.6
59°	6042.2	6101.0	6306.4	6592.7	7030.5	7123.5	6458.1	5893.0	5589.7	5391.5	5425.8
60°	5572.6	5594.6	5778.0	6176.8	6768.8	6927.8	6113.2	5560.3	5156.7	5041.7	5093.1
62.5°	3938.5	3921.3	4053.4	4378.8	4909.6	5124.9	4545.1	4156.2	3901.8	3774.6	3803.9
65°	2094.0	2172.3	2226.1	2429.1	2710.4	2937.9	2698.2	2529.4	2387.5	2282.4	2279.9
67.5°	1413.9	1404.1	1416.4	1462.9	1558.3	1621.9	1617.0	1531.4	1519.1	1499.6	1521.6
70°	1191.3	1186.4	1164.4	1164.4	1184.0	1198.7	1215.8	1225.6	1245.1	1269.6	1267.2
72.5°	966.3	954.0	939.4	932.0	956.5	963.8	985.8	995.6	1012.7	1010.3	1032.3
75°	638.5	638.5	655.6	675.2	682.5	697.2	699.6	729.0	729.0	733.9	714.3
77.5°	357.2	347.4	359.6	379.2	396.3	423.2	450.1	472.1	484.4	479.5	479.5
80°	207.9	207.9	220.2	242.2	264.2	288.7	308.2	325.4	337.6	332.7	322.9
82.5°	129.7	129.7	141.9	163.9	181.0	195.7	222.6	244.6	259.3	254.4	242.2
85°	66.0	66.0	80.7	95.4	117.4	127.2	124.8	115.0	112.5	100.3	100.3
87.5°	17.1	17.1	24.5	26.9	22.0	24.5	24.5	24.5	24.5	24.5	26.9
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)