

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: P532750

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532750
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-SA8A-827-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA 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: 23031 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

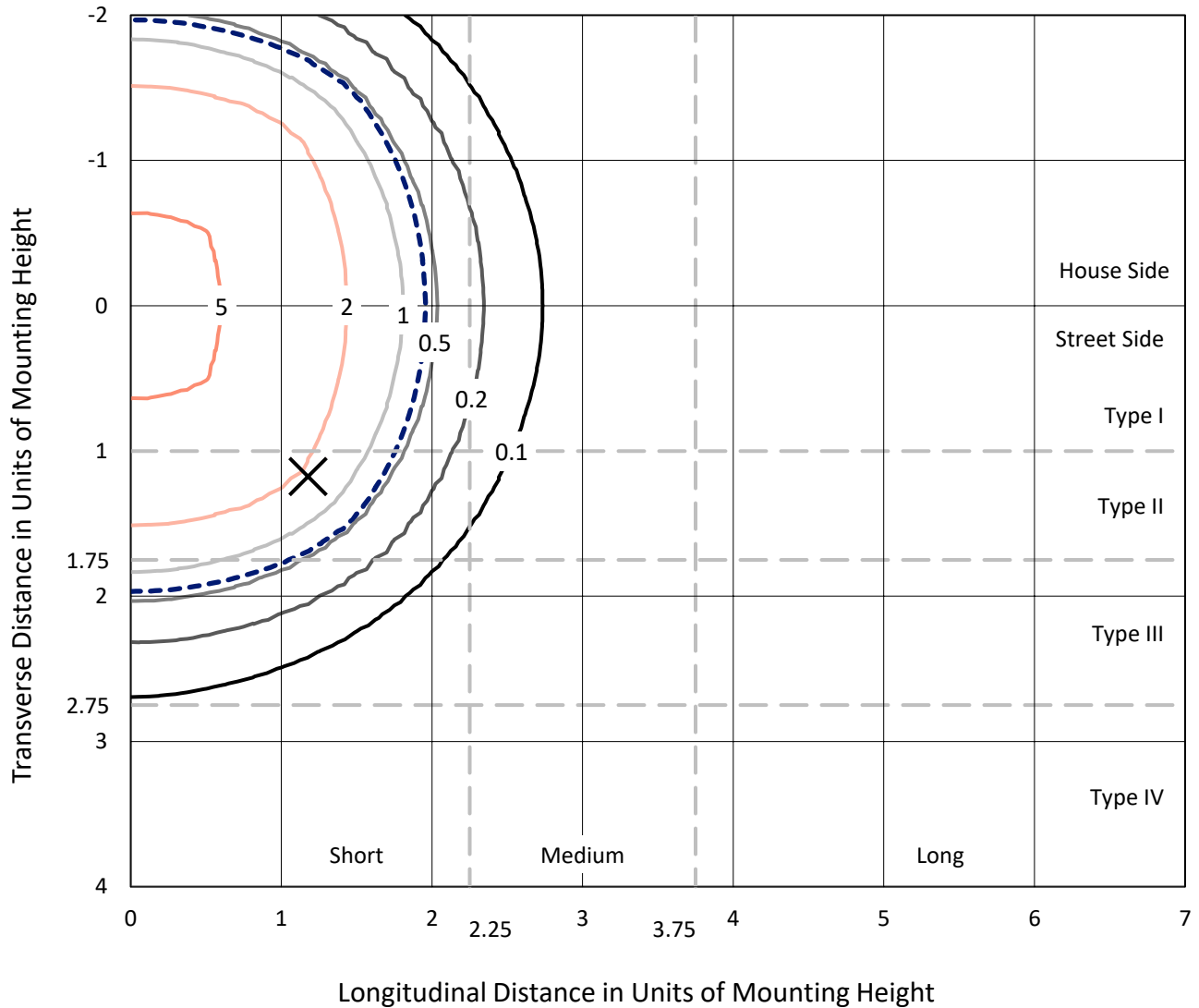
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

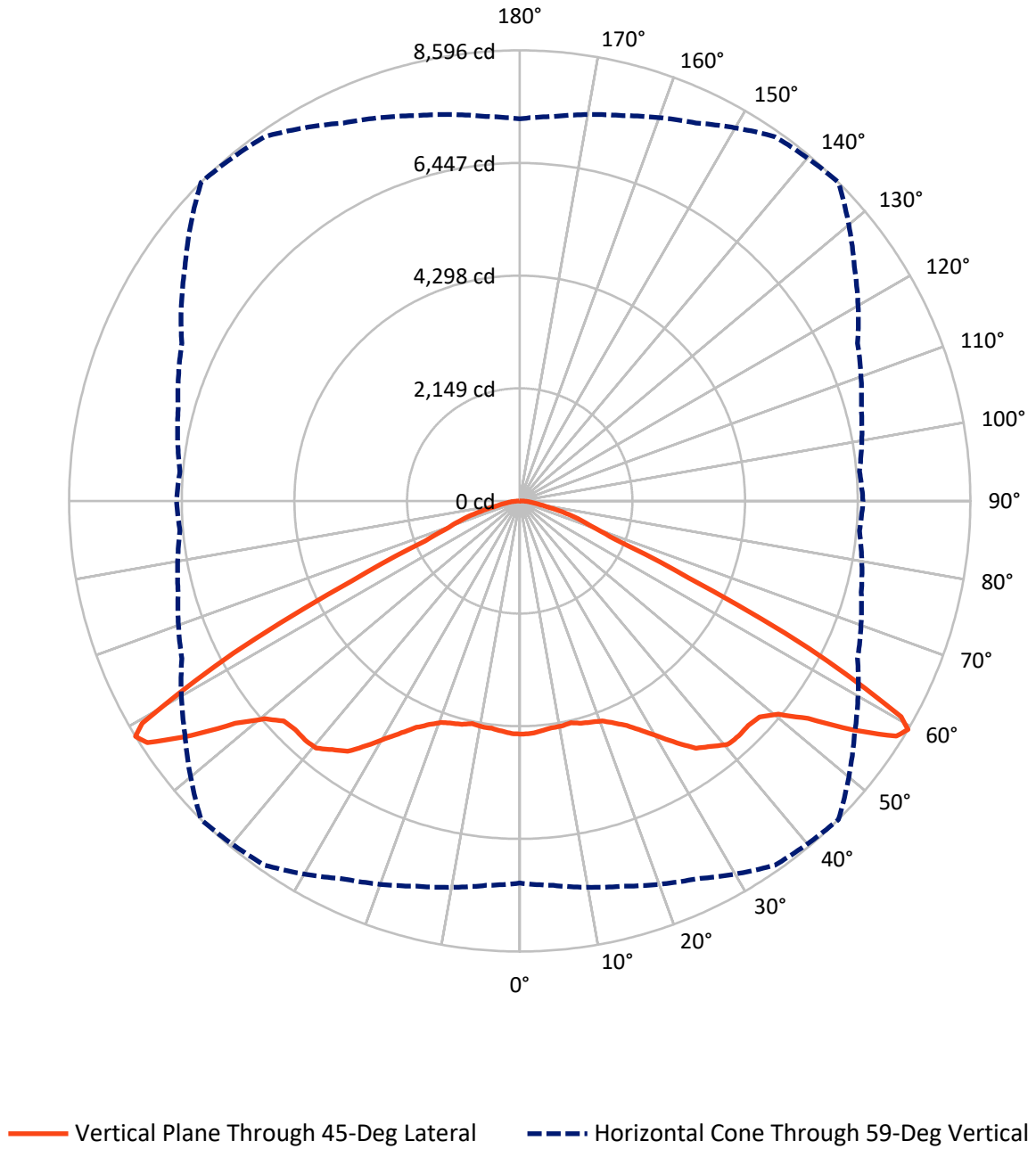
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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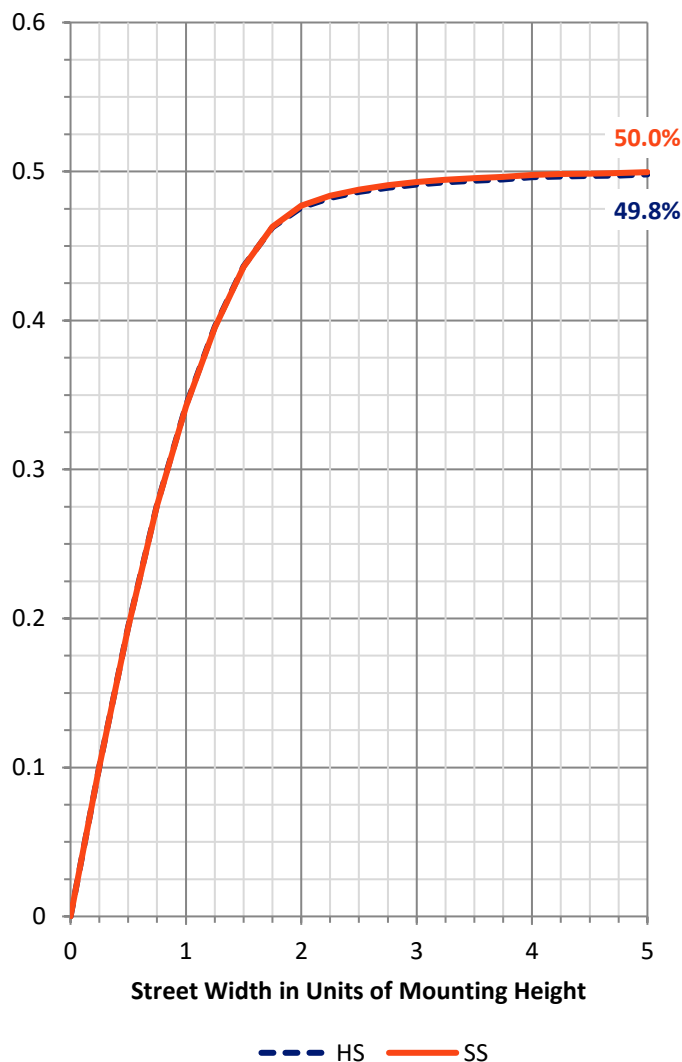
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11515.5	0.0	11515.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11515.5	0.0	11515.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23031.0	0.0	23031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.4	1.8
10°-20°	1247.1	5.4
20°-30°	2177.5	9.5
30°-40°	3477.8	15.1
40°-50°	4737.5	20.6
50°-60°	6406.4	27.8
60°-70°	3513.3	15.3
70°-80°	898.8	3.9
80°-90°	153.3	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°	23031.0	100.0
0°-180°	23031.0	100.0

Coefficient of Utilization



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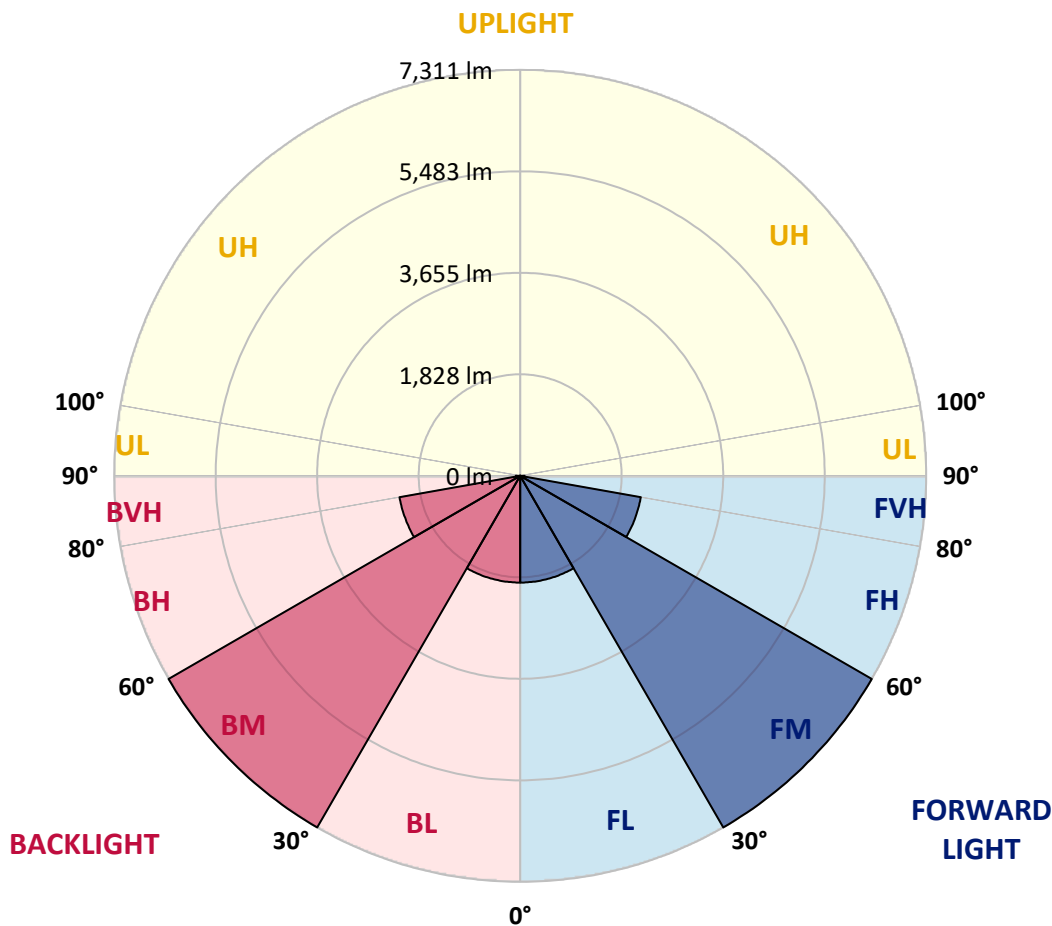
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1922.0	8.3			
FM (30°-60°)	7310.8	31.7			
FH (60°-80°)	2206.0	9.6			G2/5000
FVH (80°-90°)	76.6	0.3			G1/100
BL (0°-30°)	1922.0	8.3	B3/2500		
BM (30°-60°)	7310.8	31.7	B4/8500		
BH (60°-80°)	2206.0	9.6	B3/2500		G2/5000
BVH (80°-90°)	76.6	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°	4448.5	4448.5	4448.5	4448.5	4448.5	4448.5	4448.5	4448.5	4448.5	4448.5	4448.5
2.5°	4421.9	4454.4	4430.8	4451.4	4448.5	4439.6	4424.9	4416.0	4404.2	4421.9	4392.4
5°	4404.2	4430.8	4457.3	4421.9	4421.9	4404.2	4395.4	4377.6	4377.6	4374.7	4371.7
7.5°	4433.7	4407.2	4395.4	4401.3	4407.2	4368.8	4395.4	4359.9	4330.4	4351.1	4374.7
10°	4407.2	4419.0	4374.7	4395.4	4362.9	4368.8	4351.1	4374.7	4342.2	4342.2	4342.2
12.5°	4433.7	4401.3	4416.0	4401.3	4392.4	4342.2	4365.8	4339.3	4336.3	4365.8	4339.3
15°	4486.9	4433.7	4421.9	4392.4	4401.3	4401.3	4377.6	4380.6	4348.1	4365.8	4371.7
17.5°	4469.2	4439.6	4430.8	4395.4	4424.9	4433.7	4389.5	4359.9	4380.6	4377.6	4374.7
20°	4483.9	4495.7	4486.9	4492.8	4504.6	4481.0	4439.6	4398.3	4371.7	4410.1	4407.2
22.5°	4578.4	4566.6	4560.7	4554.8	4575.4	4599.0	4542.9	4478.0	4478.0	4504.6	4516.4
25°	4655.1	4652.2	4649.2	4675.8	4746.6	4746.6	4675.8	4593.1	4572.5	4590.2	4575.4
27.5°	4767.3	4799.8	4788.0	4835.2	4938.5	4962.1	4867.7	4770.2	4714.2	4693.5	4720.1
30°	5024.1	4985.7	4994.6	5044.8	5136.3	5213.0	5068.4	4965.1	4888.3	4885.4	4897.2
32.5°	5195.3	5224.8	5251.4	5298.6	5443.3	5502.3	5328.1	5159.9	5112.7	5086.1	5095.0
35°	5537.7	5511.2	5505.3	5552.5	5697.1	5794.5	5576.1	5428.5	5366.5	5425.6	5425.6
37.5°	5862.4	5788.6	5732.6	5794.5	5927.4	5939.2	5753.2	5673.5	5641.0	5708.9	5706.0
40°	6015.9	6010.0	5880.2	5915.6	6092.7	6110.4	5936.2	5841.8	5835.9	5924.4	6013.0
42.5°	6175.3	6119.3	5989.4	6013.0	6122.2	6128.1	5962.8	5936.2	6001.2	6086.8	6092.7
45°	6201.9	6154.7	6072.0	6013.0	6092.7	6110.4	6013.0	6030.7	6036.6	6139.9	6139.9
47.5°	6255.0	6249.1	6201.9	6157.6	6172.4	6157.6	6095.6	6122.2	6210.8	6260.9	6237.3
50°	6402.6	6340.6	6387.9	6349.5	6352.5	6393.8	6337.7	6364.3	6346.5	6302.3	6272.8
52.5°	6727.3	6697.8	6739.1	6765.7	6795.2	6889.7	6824.8	6683.1	6550.2	6432.2	6429.2
55°	7202.6	7223.3	7303.0	7438.7	7553.9	7704.4	7391.5	7052.0	6839.5	6653.5	6665.4
57.5°	7651.3	7636.5	7745.7	8055.7	8392.2	8469.0	7855.0	7370.9	7025.5	6907.4	6857.2
59°	7291.2	7362.0	7610.0	7955.3	8483.7	8595.9	7793.0	7111.1	6745.1	6506.0	6547.3
60°	6724.4	6751.0	6972.3	7453.5	8167.9	8359.7	7376.8	6709.6	6222.6	6083.8	6145.8
62.5°	4752.5	4731.9	4891.3	5283.9	5924.4	6184.2	5484.6	5015.2	4708.3	4554.8	4590.2
65°	2526.8	2621.3	2686.2	2931.2	3270.7	3545.2	3255.9	3052.2	2881.0	2754.1	2751.2
67.5°	1706.2	1694.4	1709.1	1765.2	1880.3	1957.1	1951.2	1847.9	1833.1	1809.5	1836.1
70°	1437.6	1431.7	1405.1	1405.1	1428.7	1446.4	1467.1	1478.9	1502.5	1532.0	1529.1
72.5°	1166.0	1151.2	1133.5	1124.7	1154.2	1163.0	1189.6	1201.4	1222.1	1219.1	1245.7
75°	770.4	770.4	791.1	814.7	823.6	841.3	844.2	879.7	879.7	885.6	861.9
77.5°	431.0	419.2	433.9	457.5	478.2	510.7	543.1	569.7	584.5	578.6	578.6
80°	250.9	250.9	265.7	292.2	318.8	348.3	371.9	392.6	407.4	401.5	389.6
82.5°	156.4	156.4	171.2	197.8	218.4	236.2	268.6	295.2	312.9	307.0	292.2
85°	79.7	79.7	97.4	115.1	141.7	153.5	150.5	138.7	135.8	121.0	121.0
87.5°	20.7	20.7	29.5	32.5	26.6	29.5	29.5	29.5	29.5	29.5	32.5
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)