

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: P531421

Luminaire Tested: **GALN-SA6D-727-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531421
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-SA6D-727-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 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: 26355 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

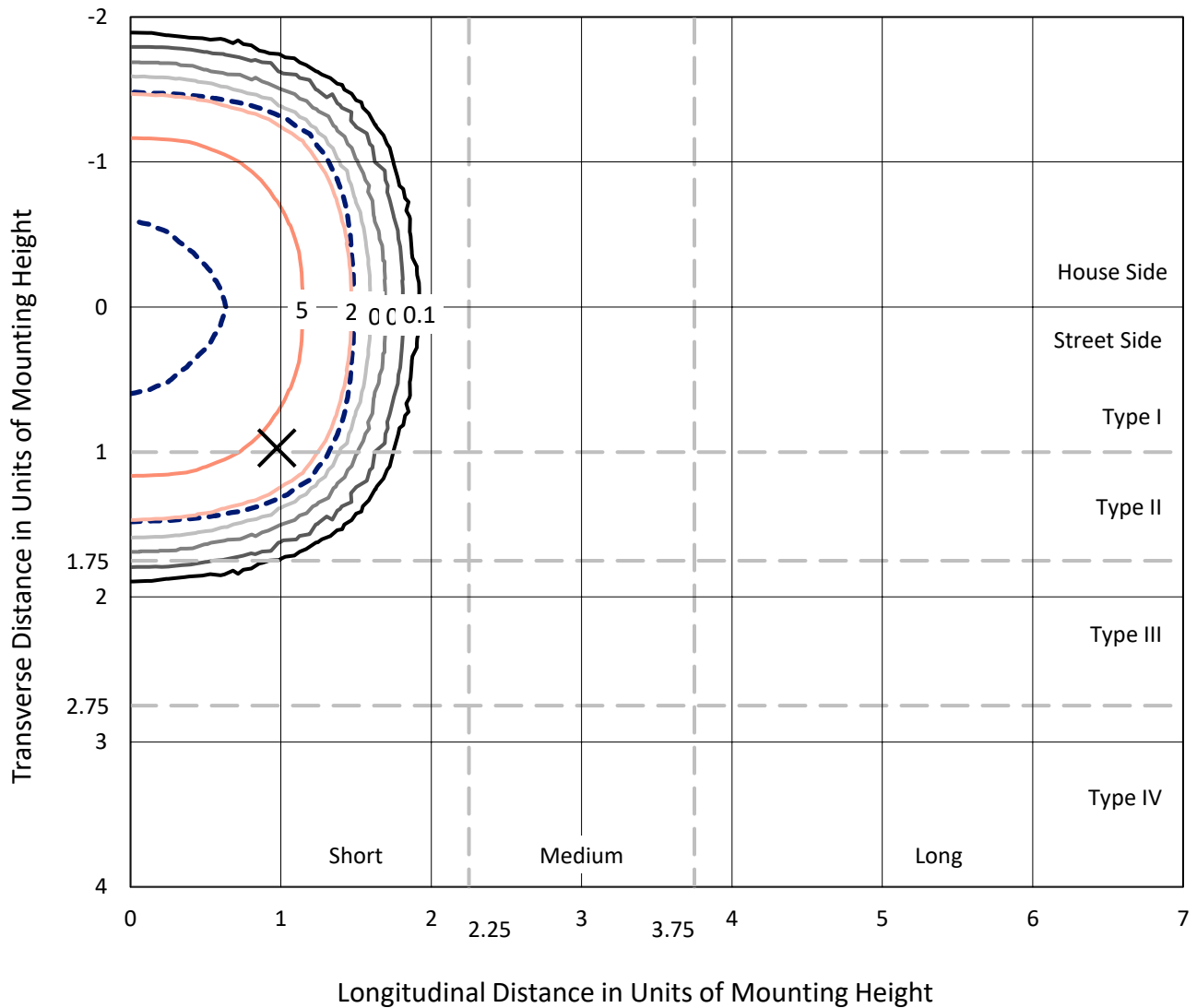
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

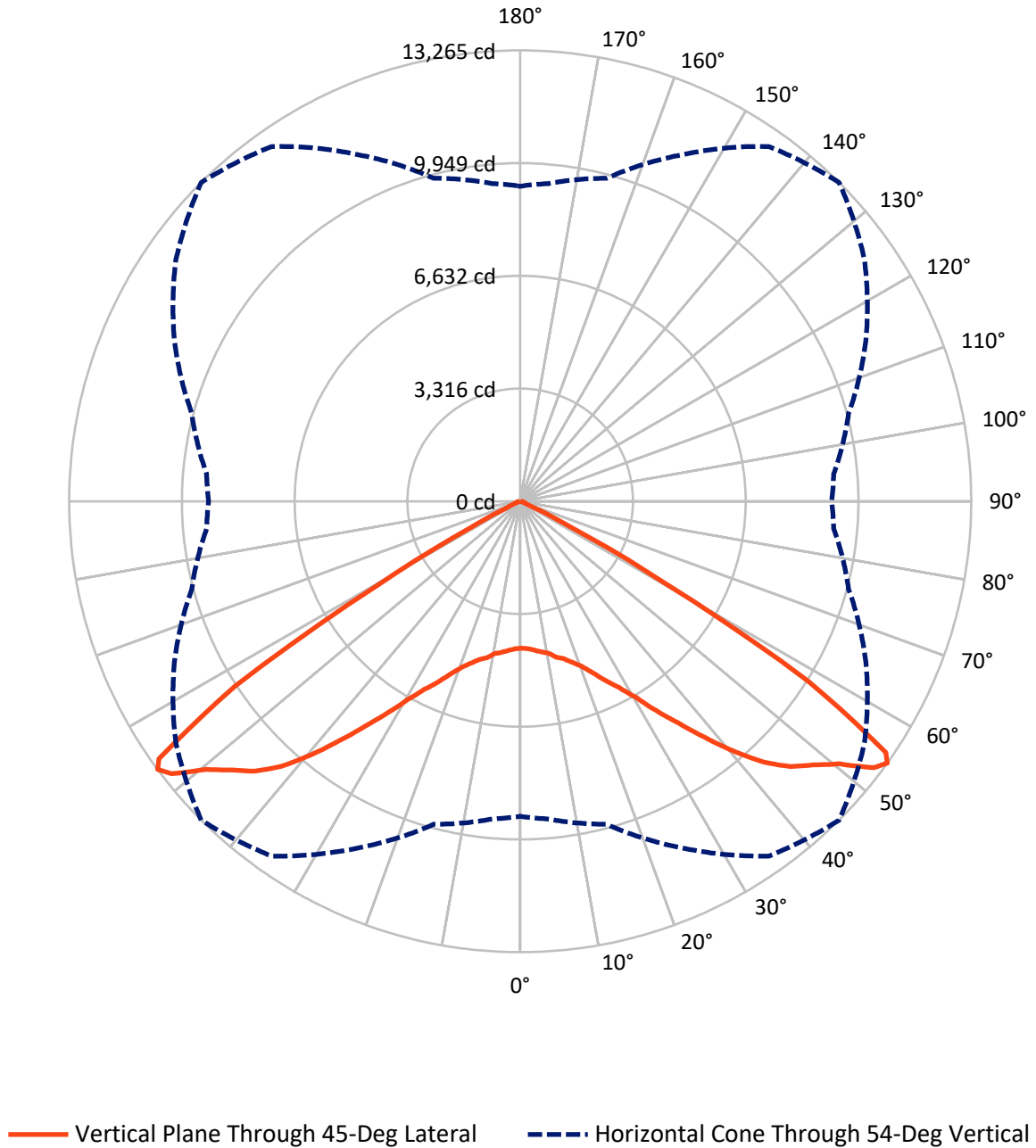
✕ Max cd
 - - - 1/2 Max cd



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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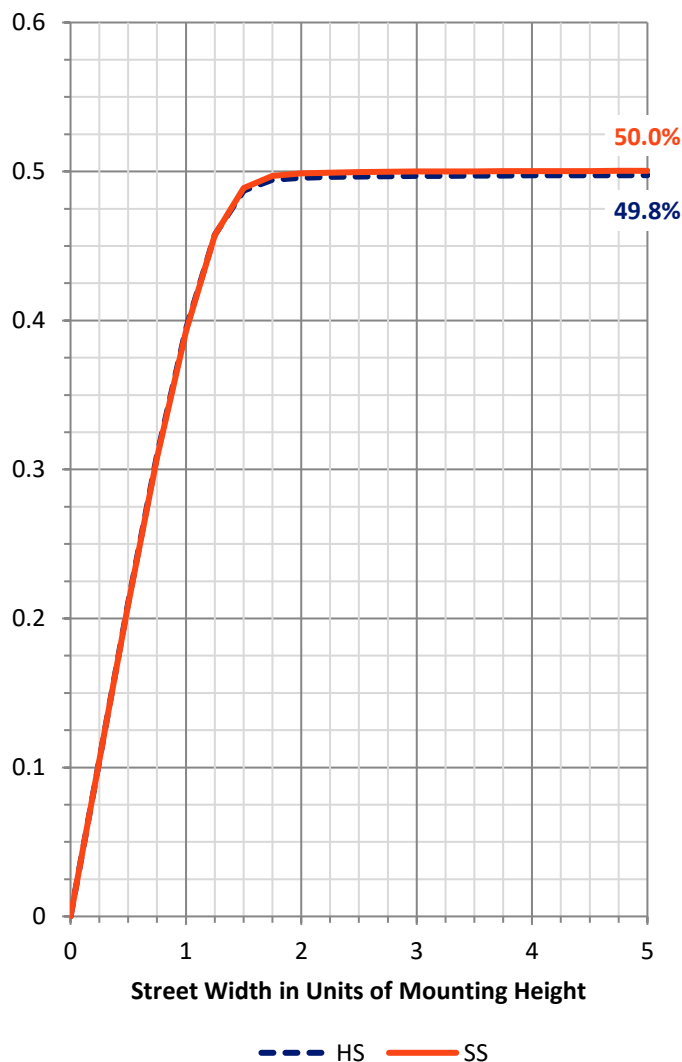
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13177.5	0.0	13177.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13177.5	0.0	13177.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26355.0	0.0	26355.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.0	1.6
10°-20°	1369.7	5.2
20°-30°	2684.6	10.2
30°-40°	4827.4	18.3
40°-50°	8263.6	31.4
50°-60°	7995.8	30.3
60°-70°	684.5	2.6
70°-80°	81.1	0.3
80°-90°	25.5	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°	26355.0	100.0
0°-180°	26355.0	100.0

Coefficient of Utilization



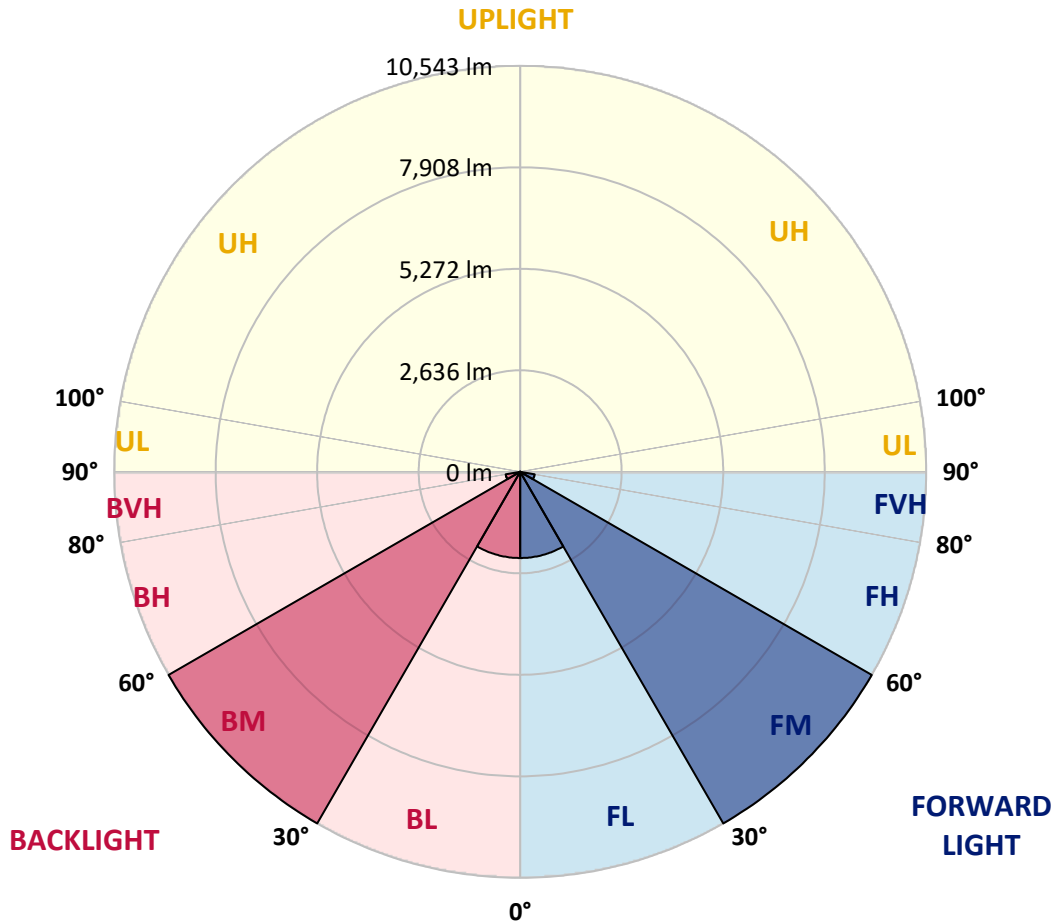
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2238.6	8.5			
FM (30°-60°)	10543.4	40.0			
FH (60°-80°)	382.8	1.5			G0/660
FVH (80°-90°)	12.7	0.0			G1/100
BL (0°-30°)	2238.6	8.5	B3/2500		
BM (30°-60°)	10543.4	40.0	B5		
BH (60°-80°)	382.8	1.5	B1/500		G0/660
BVH (80°-90°)	12.7	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°	4321.4	4321.4	4321.4	4321.4	4321.4	4321.4	4321.4	4321.4	4321.4	4321.4	4321.4
2.5°	4342.3	4367.3	4350.6	4363.2	4363.2	4342.3	4354.8	4304.7	4338.1	4313.0	4317.2
5°	4409.1	4404.9	4404.9	4409.1	4392.4	4400.7	4384.0	4367.3	4354.8	4338.1	4388.2
7.5°	4492.6	4492.6	4463.4	4471.7	4463.4	4475.9	4442.5	4409.1	4396.6	4384.0	4375.7
10°	4571.9	4563.6	4551.0	4588.6	4559.4	4542.7	4526.0	4505.1	4459.2	4442.5	4425.8
12.5°	4688.8	4684.6	4667.9	4705.5	4688.8	4705.5	4642.9	4588.6	4580.3	4526.0	4555.2
15°	4826.6	4864.2	4835.0	4835.0	4826.6	4805.7	4780.7	4755.6	4680.5	4659.6	4663.8
17.5°	5006.1	4993.6	4997.8	4997.8	5039.5	4985.3	4935.2	4872.5	4835.0	4822.4	4780.7
20°	5177.3	5194.0	5189.9	5219.1	5244.1	5185.7	5131.4	5123.0	5018.7	5035.4	4976.9
22.5°	5477.9	5465.4	5486.3	5507.2	5490.5	5482.1	5432.0	5369.4	5277.5	5235.8	5227.4
25°	5795.3	5774.4	5736.8	5786.9	5812.0	5849.5	5753.5	5720.1	5578.2	5515.5	5519.7
27.5°	6066.7	6095.9	6137.6	6158.5	6221.1	6208.6	6141.8	6033.3	5924.7	5853.7	5807.8
30°	6438.3	6455.0	6525.9	6555.2	6663.7	6692.9	6588.6	6463.3	6271.2	6179.4	6125.1
32.5°	6780.6	6897.5	6893.4	7039.5	7214.9	7335.9	7148.1	6956.0	6763.9	6655.4	6559.3
35°	7335.9	7315.1	7436.1	7590.6	7874.5	8012.3	7807.7	7586.5	7294.2	7118.8	7043.7
37.5°	7853.7	7862.0	8024.9	8271.2	8596.9	8809.8	8630.3	8267.0	7966.4	7740.9	7636.6
40°	8605.2	8621.9	8788.9	9068.7	9436.1	9665.7	9457.0	9089.6	8688.7	8513.4	8513.4
42.5°	9486.2	9557.2	9665.7	9907.9	10237.7	10492.4	10304.6	10016.5	9611.5	9386.0	9419.4
45°	10392.2	10425.6	10496.6	10855.7	11010.2	11135.4	10960.1	10826.5	10555.1	10279.5	10233.6
47.5°	11239.8	11252.3	11461.1	11573.8	11694.9	11590.5	11703.3	11527.9	11223.1	10955.9	10901.6
50°	11615.6	11594.7	11891.2	12233.5	12325.4	12141.7	12045.6	11928.7	11465.3	11143.8	11001.8
52.5°	10521.7	10642.7	11193.9	12145.8	12864.0	13018.5	12459.0	11920.4	11056.1	10429.8	10333.8
54°	9269.1	9381.8	9836.9	11248.2	12742.9	13264.8	12363.0	11218.9	9999.8	9256.6	9160.5
55°	8029.0	7903.8	8730.5	10170.9	12175.1	13047.7	11983.0	10312.9	8918.4	8237.8	8104.2
57.5°	4346.5	4367.3	5064.6	6425.7	8555.1	10003.9	8834.9	6976.9	5269.2	4505.1	4438.3
60°	1377.8	1411.2	1716.0	2597.0	4087.6	4880.9	4183.6	2801.6	1937.3	1553.2	1490.6
62.5°	430.1	446.8	488.5	726.5	1119.0	1599.1	1252.6	751.5	559.5	513.6	521.9
65°	263.0	263.0	267.2	283.9	334.0	388.3	375.8	329.8	317.3	309.0	304.8
67.5°	171.2	167.0	175.4	187.9	196.2	200.4	212.9	225.5	221.3	212.9	212.9
70°	104.4	100.2	108.6	125.3	129.4	137.8	150.3	167.0	162.8	154.5	158.7
72.5°	58.5	58.5	62.6	75.2	87.7	96.0	108.6	121.1	125.3	121.1	121.1
75°	20.9	25.1	33.4	45.9	54.3	66.8	79.3	91.9	104.4	96.0	91.9
77.5°	8.4	8.4	16.7	29.2	41.8	54.3	75.2	87.7	96.0	87.7	79.3
80°	4.2	4.2	12.5	25.1	37.6	50.1	62.6	75.2	79.3	71.0	62.6
82.5°	4.2	4.2	12.5	25.1	37.6	45.9	66.8	75.2	83.5	75.2	62.6
85°	0.0	4.2	12.5	25.1	33.4	37.6	37.6	25.1	20.9	12.5	12.5
87.5°	0.0	0.0	4.2	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)