

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: P531580

Luminaire Tested: **GALN-SA6D-827-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531580
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-SA6D-827-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 28609 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

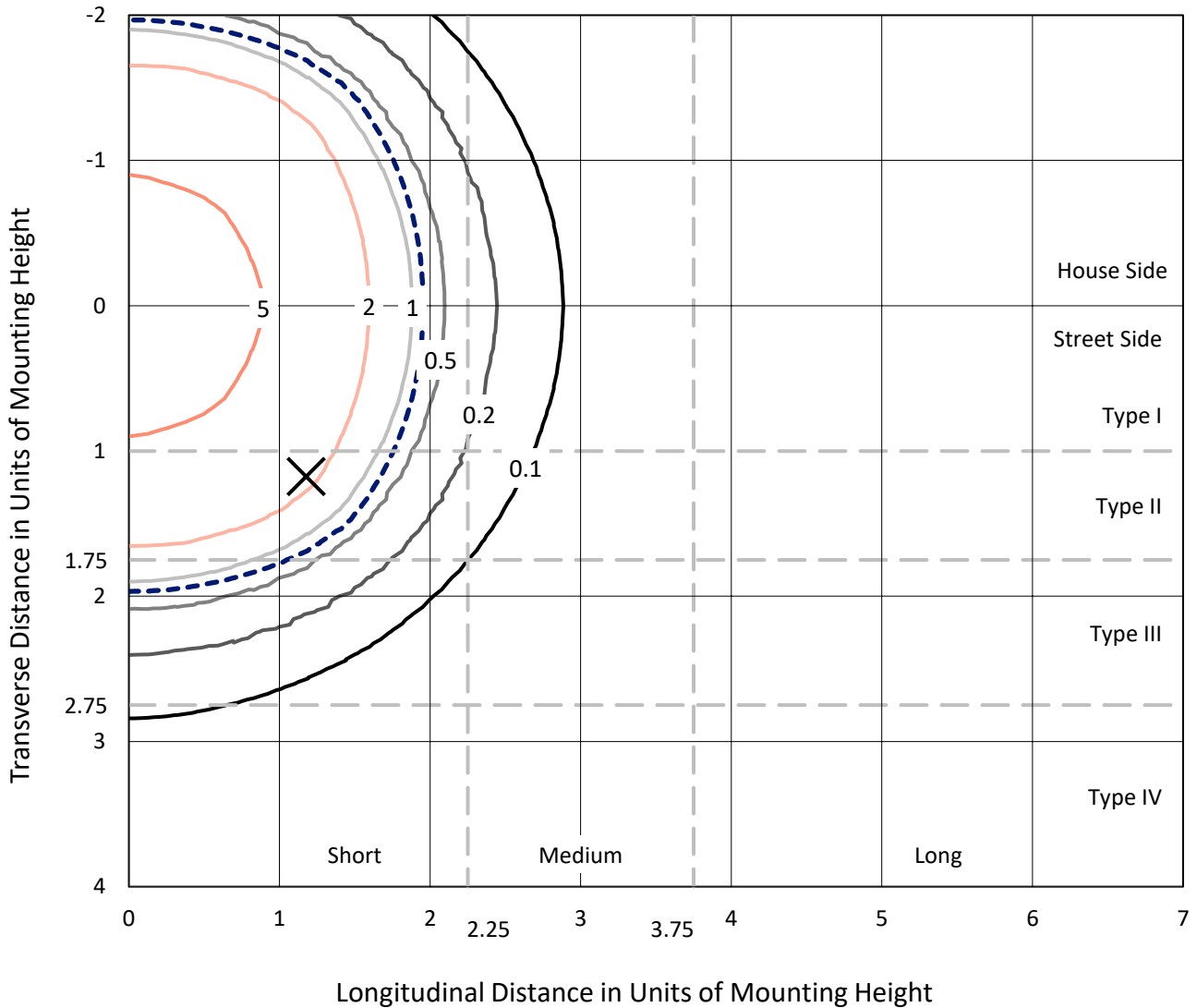
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

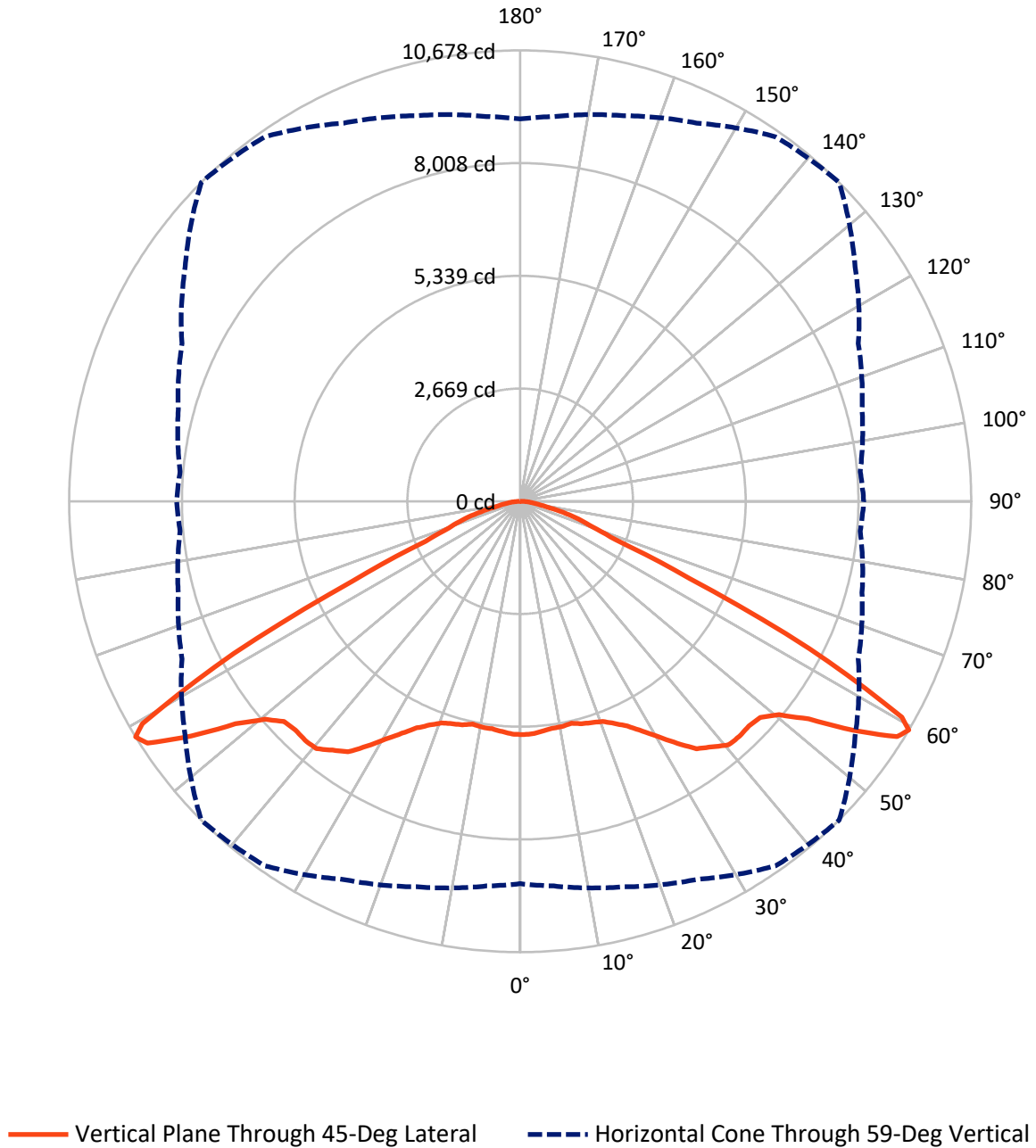
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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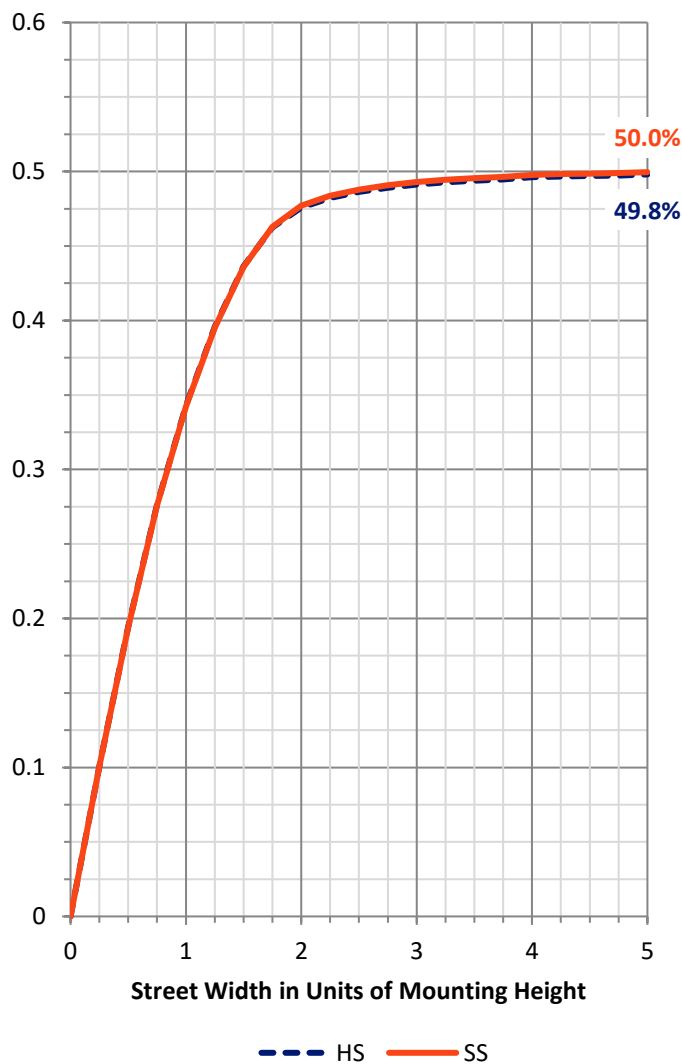
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14304.5	0.0	14304.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14304.5	0.0	14304.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28609.0	0.0	28609.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.9	1.8
10°-20°	1549.1	5.4
20°-30°	2704.9	9.5
30°-40°	4320.1	15.1
40°-50°	5884.9	20.6
50°-60°	7958.0	27.8
60°-70°	4364.2	15.3
70°-80°	1116.5	3.9
80°-90°	190.4	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°	28609.0	100.0
0°-180°	28609.0	100.0

Coefficient of Utilization



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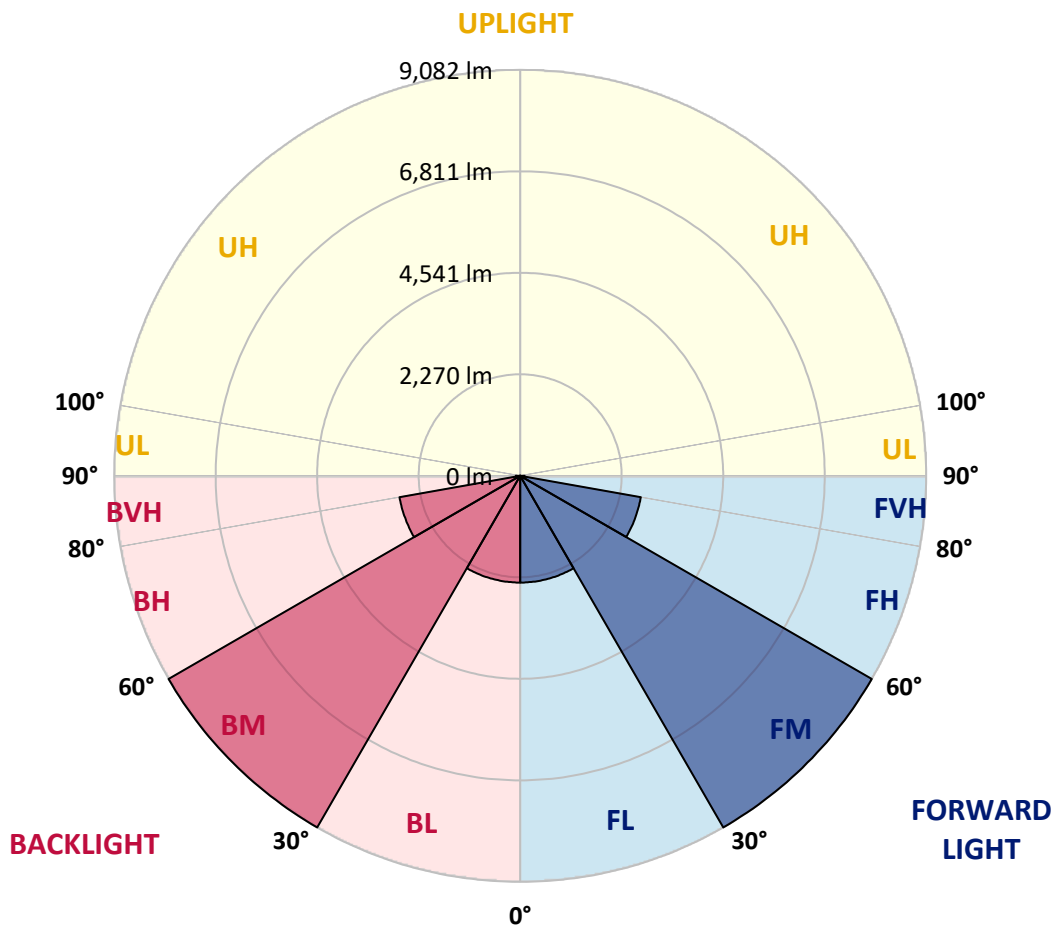
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2387.5	8.3			
FM (30°-60°)	9081.5	31.7			
FH (60°-80°)	2740.3	9.6			G2/5000
FVH (80°-90°)	95.2	0.3			G1/100
BL (0°-30°)	2387.5	8.3	B3/2500		
BM (30°-60°)	9081.5	31.7	B5		
BH (60°-80°)	2740.3	9.6	B4/5000		G2/5000
BVH (80°-90°)	95.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5525.9	5525.9	5525.9	5525.9	5525.9	5525.9	5525.9	5525.9	5525.9	5525.9	5525.9
2.5°	5492.9	5533.2	5503.9	5529.6	5525.9	5514.9	5496.6	5485.6	5470.9	5492.9	5456.2
5°	5470.9	5503.9	5536.9	5492.9	5492.9	5470.9	5459.9	5437.9	5437.9	5434.2	5430.6
7.5°	5507.6	5474.6	5459.9	5467.2	5474.6	5426.9	5459.9	5415.9	5379.2	5404.9	5434.2
10°	5474.6	5489.2	5434.2	5459.9	5419.6	5426.9	5404.9	5434.2	5393.9	5393.9	5393.9
12.5°	5507.6	5467.2	5485.6	5467.2	5456.2	5393.9	5423.2	5390.2	5386.6	5423.2	5390.2
15°	5573.6	5507.6	5492.9	5456.2	5467.2	5467.2	5437.9	5441.6	5401.2	5423.2	5430.6
17.5°	5551.6	5514.9	5503.9	5459.9	5496.6	5507.6	5452.6	5415.9	5441.6	5437.9	5434.2
20°	5569.9	5584.6	5573.6	5580.9	5595.6	5566.2	5514.9	5463.6	5430.6	5478.2	5474.6
22.5°	5687.2	5672.6	5665.2	5657.9	5683.6	5712.9	5643.2	5562.6	5562.6	5595.6	5610.2
25°	5782.6	5778.9	5775.2	5808.2	5896.2	5896.2	5808.2	5705.6	5679.9	5701.9	5683.6
27.5°	5921.9	5962.2	5947.6	6006.2	6134.6	6163.9	6046.6	5925.6	5855.9	5830.2	5863.2
30°	6240.9	6193.3	6204.3	6266.6	6380.3	6475.6	6295.9	6167.6	6072.2	6068.6	6083.2
32.5°	6453.6	6490.3	6523.3	6581.9	6761.6	6834.9	6618.6	6409.6	6350.9	6317.9	6328.9
35°	6878.9	6845.9	6838.6	6897.3	7077.0	7198.0	6926.6	6743.3	6666.3	6739.6	6739.6
37.5°	7282.3	7190.6	7121.0	7198.0	7363.0	7377.6	7146.6	7047.6	7007.3	7091.6	7088.0
40°	7473.0	7465.6	7304.3	7348.3	7568.3	7590.3	7374.0	7256.6	7249.3	7359.3	7469.3
42.5°	7671.0	7601.3	7440.0	7469.3	7605.0	7612.3	7407.0	7374.0	7454.6	7561.0	7568.3
45°	7704.0	7645.3	7542.6	7469.3	7568.3	7590.3	7469.3	7491.3	7498.6	7627.0	7627.0
47.5°	7770.0	7762.6	7704.0	7649.0	7667.3	7649.0	7572.0	7605.0	7715.0	7777.3	7748.0
50°	7953.3	7876.3	7935.0	7887.3	7891.0	7942.3	7872.7	7905.7	7883.7	7828.7	7792.0
52.5°	8356.7	8320.0	8371.3	8404.3	8441.0	8558.3	8477.7	8301.7	8136.7	7990.0	7986.3
55°	8947.0	8972.7	9071.7	9240.4	9383.4	9570.4	9181.7	8760.0	8496.0	8265.0	8279.7
57.5°	9504.4	9486.1	9621.7	10006.7	10424.8	10520.1	9757.4	9156.0	8727.0	8580.3	8518.0
59°	9057.0	9145.0	9453.0	9882.1	10538.4	10677.8	9680.4	8833.4	8378.7	8081.7	8133.0
60°	8353.0	8386.0	8661.0	9258.7	10146.1	10384.4	9163.4	8334.7	7729.6	7557.3	7634.3
62.5°	5903.6	5877.9	6075.9	6563.6	7359.3	7682.0	6812.9	6229.9	5848.6	5657.9	5701.9
65°	3138.8	3256.1	3336.8	3641.1	4062.8	4403.8	4044.5	3791.5	3578.8	3421.1	3417.5
67.5°	2119.4	2104.8	2123.1	2192.8	2335.8	2431.1	2423.8	2295.4	2277.1	2247.8	2280.8
70°	1785.7	1778.4	1745.4	1745.4	1774.7	1796.7	1822.4	1837.1	1866.4	1903.1	1899.4
72.5°	1448.4	1430.1	1408.1	1397.1	1433.7	1444.7	1477.7	1492.4	1518.1	1514.4	1547.4
75°	957.0	957.0	982.7	1012.0	1023.0	1045.0	1048.7	1092.7	1092.7	1100.0	1070.7
77.5°	535.4	520.7	539.0	568.4	594.0	634.4	674.7	707.7	726.0	718.7	718.7
80°	311.7	311.7	330.0	363.0	396.0	432.7	462.0	487.7	506.0	498.7	484.0
82.5°	194.3	194.3	212.7	245.7	271.3	293.3	333.7	366.7	388.7	381.3	363.0
85°	99.0	99.0	121.0	143.0	176.0	190.7	187.0	172.3	168.7	150.3	150.3
87.5°	25.7	25.7	36.7	40.3	33.0	36.7	36.7	36.7	36.7	36.7	40.3
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)