

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: P529711

Luminaire Tested: **GALN-SA4D-827-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
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-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14539 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

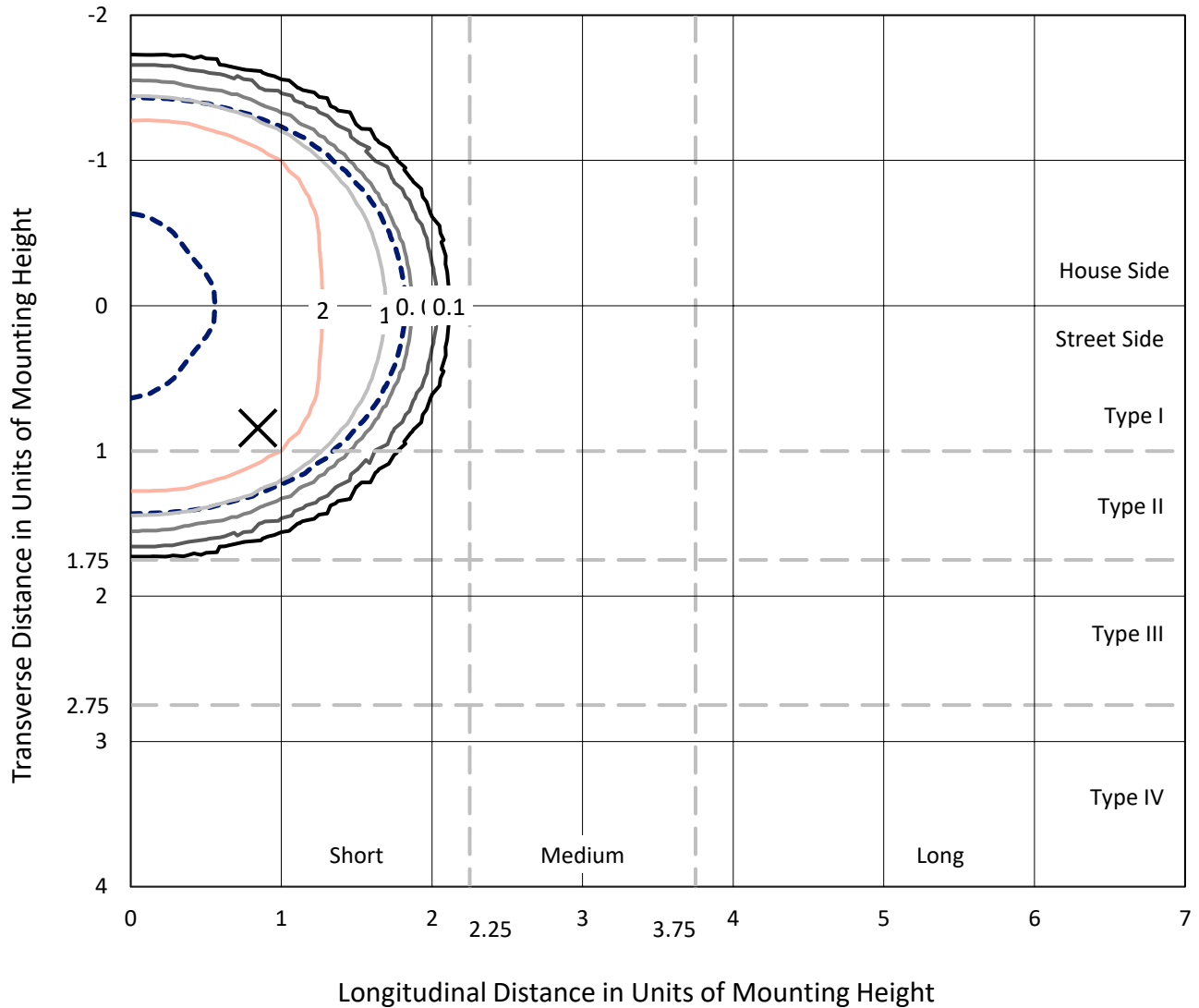
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

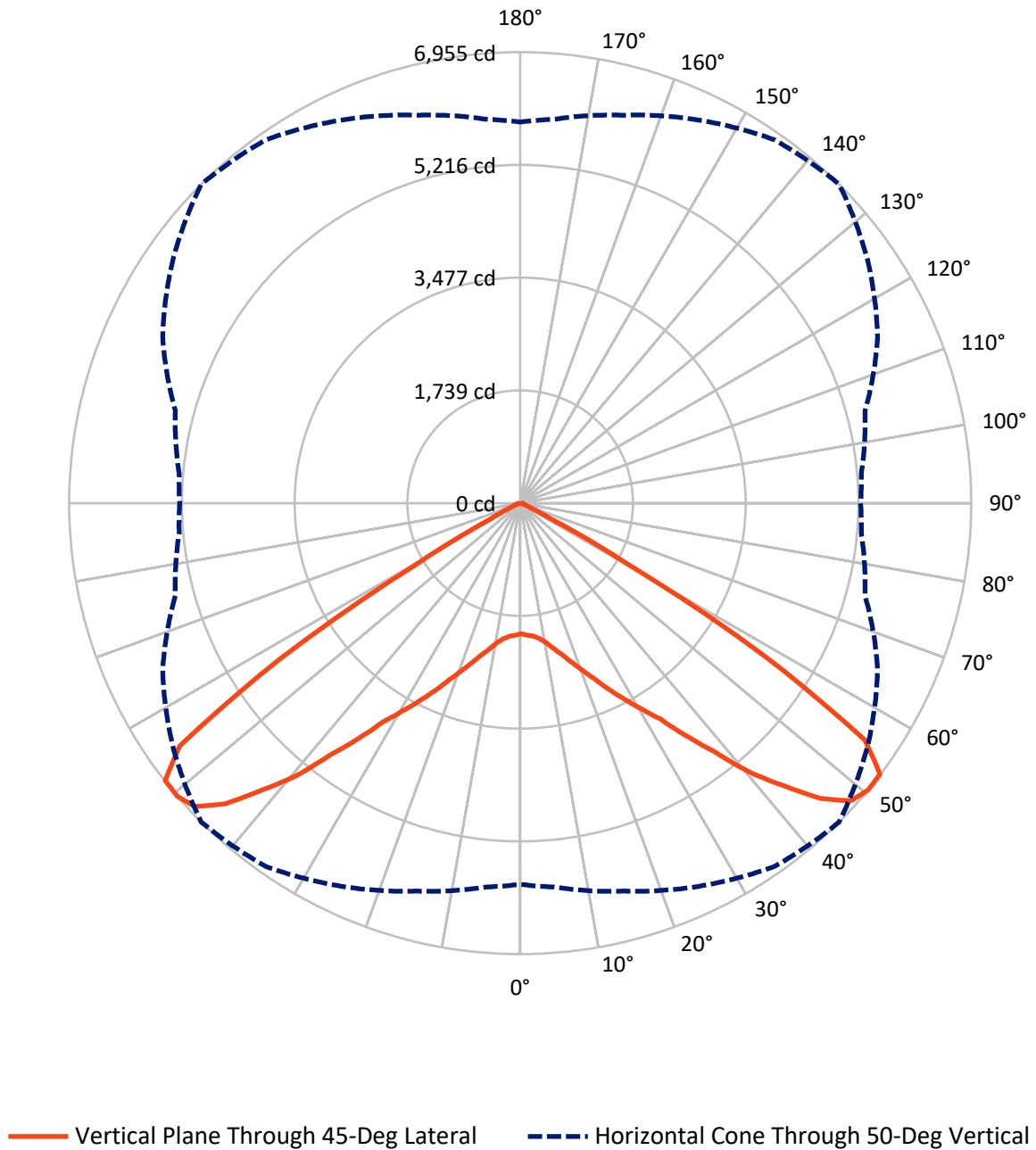
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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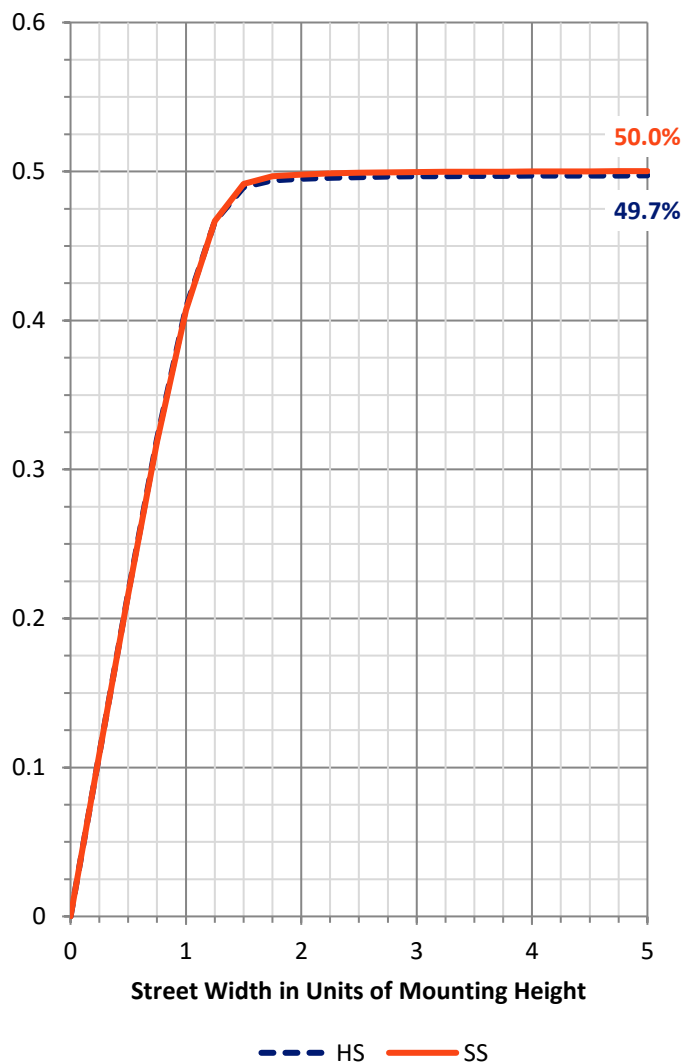
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7269.5	0.0	7269.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7269.5	0.0	7269.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14539.0	0.0	14539.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.5	1.4
10°-20°	691.1	4.8
20°-30°	1411.6	9.7
30°-40°	2691.9	18.5
40°-50°	4536.2	31.2
50°-60°	4326.1	29.8
60°-70°	603.9	4.2
70°-80°	57.8	0.4
80°-90°	20.0	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°	14539.0	100.0
0°-180°	14539.0	100.0

Coefficient of Utilization



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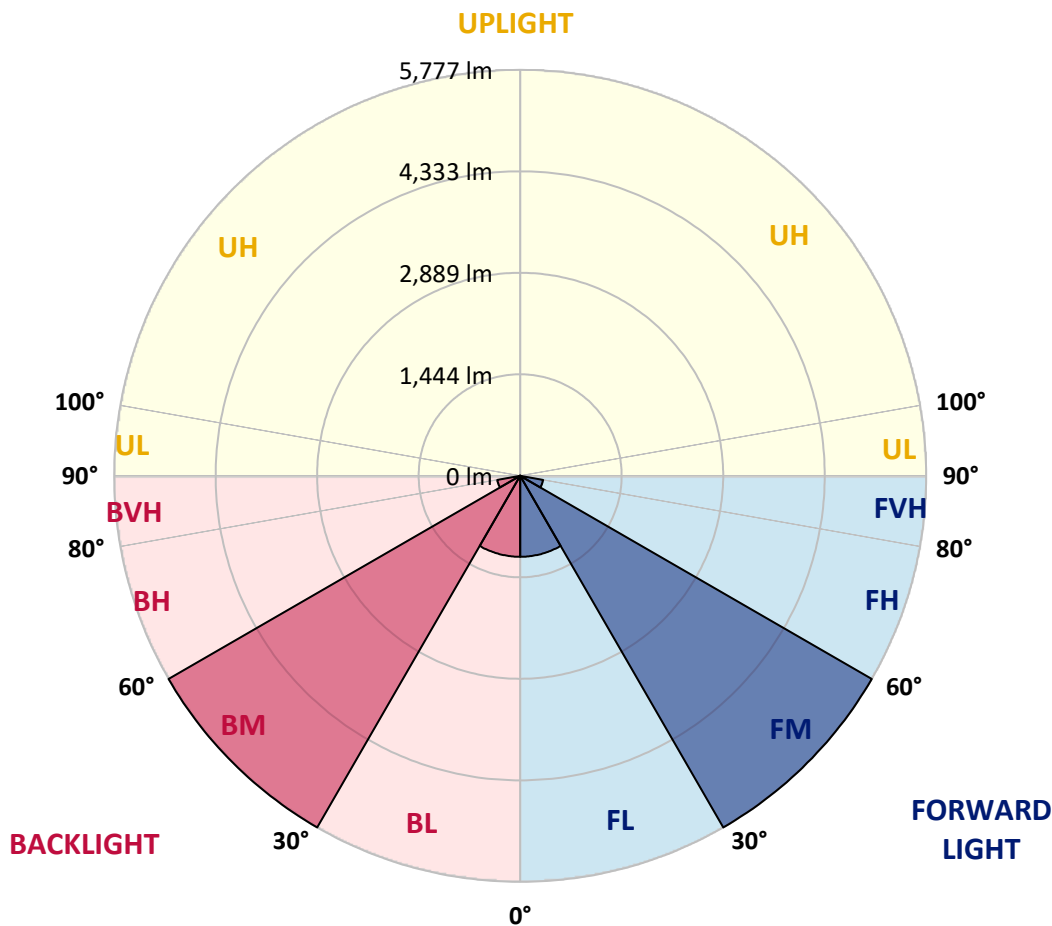
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1151.6	7.9			
FM (30°-60°)	5777.1	39.7			
FH (60°-80°)	330.8	2.3			G0/660
FVH (80°-90°)	10.0	0.1			G0/10
BL (0°-30°)	1151.6	7.9	B3/2500		
BM (30°-60°)	5777.1	39.7	B4/8500		
BH (60°-80°)	330.8	2.3	B1/500		G0/660
BVH (80°-90°)	10.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2015.7	2015.7	2015.7	2015.7	2015.7	2015.7	2015.7	2015.7	2015.7	2015.7	2015.7
2.5°	2008.3	2008.3	2005.9	2025.5	2015.7	2037.7	2035.2	2042.6	2049.9	2047.5	2067.0
5°	1991.2	1988.8	1988.8	2010.8	2032.8	2057.3	2079.3	2094.0	2118.4	2118.4	2142.9
7.5°	2008.3	1996.1	2013.2	2023.0	2064.6	2106.2	2142.9	2172.2	2228.5	2248.1	2240.7
10°	2013.2	2027.9	2040.1	2069.5	2120.9	2184.5	2216.3	2289.6	2353.2	2397.3	2407.1
12.5°	2045.0	2067.0	2101.3	2172.2	2218.7	2301.9	2345.9	2416.8	2504.9	2553.8	2588.1
15°	2106.2	2113.5	2157.6	2248.1	2348.4	2424.2	2492.7	2544.1	2629.7	2685.9	2688.4
17.5°	2184.5	2216.3	2277.4	2363.0	2468.2	2580.7	2634.6	2690.8	2722.6	2798.5	2815.6
20°	2341.0	2345.9	2404.6	2517.1	2649.2	2752.0	2791.1	2820.5	2808.2	2886.5	2901.2
22.5°	2487.8	2492.7	2566.1	2717.7	2859.6	2947.7	2964.8	2947.7	2911.0	2967.2	2972.1
25°	2637.0	2681.0	2734.9	2886.5	3062.6	3180.1	3182.5	3136.0	3060.2	3070.0	3094.4
27.5°	2869.4	2901.2	2957.5	3096.9	3290.1	3422.2	3400.2	3344.0	3246.1	3253.5	3246.1
30°	3140.9	3170.3	3216.8	3395.3	3537.2	3681.5	3713.3	3659.5	3512.7	3480.9	3517.6
32.5°	3468.7	3510.3	3595.9	3759.8	3879.7	3967.7	3989.8	3970.2	3833.2	3821.0	3845.4
35°	3867.4	3923.7	4002.0	4146.3	4244.2	4403.2	4403.2	4337.1	4212.4	4227.0	4224.6
37.5°	4288.2	4371.4	4493.7	4640.4	4772.5	4858.2	4831.3	4775.0	4650.2	4618.4	4650.2
40°	4816.6	4858.2	5012.3	5203.1	5364.5	5462.4	5347.4	5225.1	4926.7	4973.1	5058.8
42.5°	5298.5	5364.5	5481.9	5692.3	5875.8	5956.5	5819.5	5577.3	5217.8	5181.1	5244.7
45°	5709.4	5780.4	5934.5	6235.4	6428.6	6499.6	6196.2	5804.8	5393.9	5300.9	5327.8
47.5°	5983.4	6020.1	6235.4	6521.6	6697.7	6859.2	6423.7	5961.4	5477.1	5300.9	5291.1
50°	5878.2	5941.8	6193.8	6519.1	6839.6	6954.6	6538.7	6081.3	5504.0	5278.9	5249.6
52.5°	5220.2	5330.3	5611.6	6049.5	6533.8	6944.8	6697.7	6042.1	5494.2	5300.9	5345.0
55°	3632.6	3635.1	3977.5	4623.3	5479.5	6448.2	6465.3	6086.2	5557.8	5437.9	5440.4
57.5°	1460.4	1533.8	1795.5	2443.8	3233.9	4427.6	5264.2	5645.8	5565.1	5535.8	5611.6
60°	369.4	371.8	452.5	689.8	1137.5	1898.3	2756.9	3730.5	4295.5	4488.8	4515.7
62.5°	188.4	190.8	210.4	244.6	310.7	508.8	905.1	1435.9	2042.6	2350.8	2431.5
65°	154.1	154.1	166.3	183.5	185.9	195.7	234.8	335.1	486.8	552.8	560.2
67.5°	117.4	117.4	127.2	137.0	141.9	139.4	134.5	139.4	168.8	161.4	156.6
70°	73.4	75.8	80.7	90.5	95.4	97.8	100.3	105.2	119.9	124.8	119.9
72.5°	44.0	44.0	46.5	53.8	61.2	66.0	73.4	78.3	85.6	97.8	95.4
75°	19.6	19.6	24.5	31.8	39.1	46.5	53.8	61.2	66.0	73.4	75.8
77.5°	4.9	7.3	12.2	22.0	29.4	39.1	48.9	56.3	61.2	61.2	58.7
80°	2.4	2.4	9.8	17.1	31.8	41.6	53.8	58.7	66.0	61.2	53.8
82.5°	2.4	2.4	9.8	17.1	29.4	41.6	56.3	63.6	68.5	61.2	51.4
85°	0.0	2.4	7.3	14.7	24.5	29.4	24.5	17.1	9.8	9.8	7.3
87.5°	0.0	0.0	2.4	2.4	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)