

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: P652326

Luminaire Tested: **GALN-SA4B-840-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652326
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-SA4B-840-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 800mA 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: 12234 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

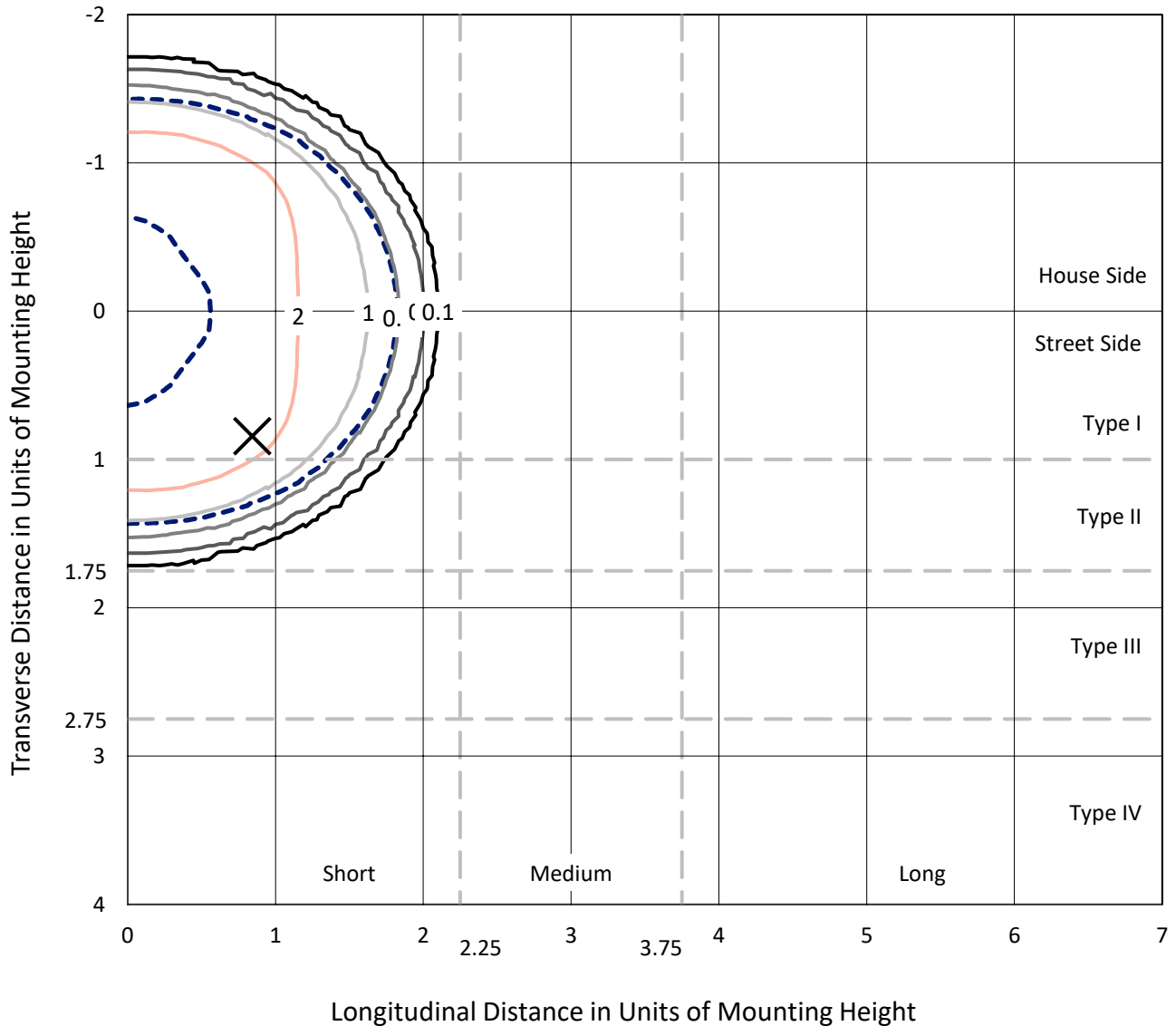
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

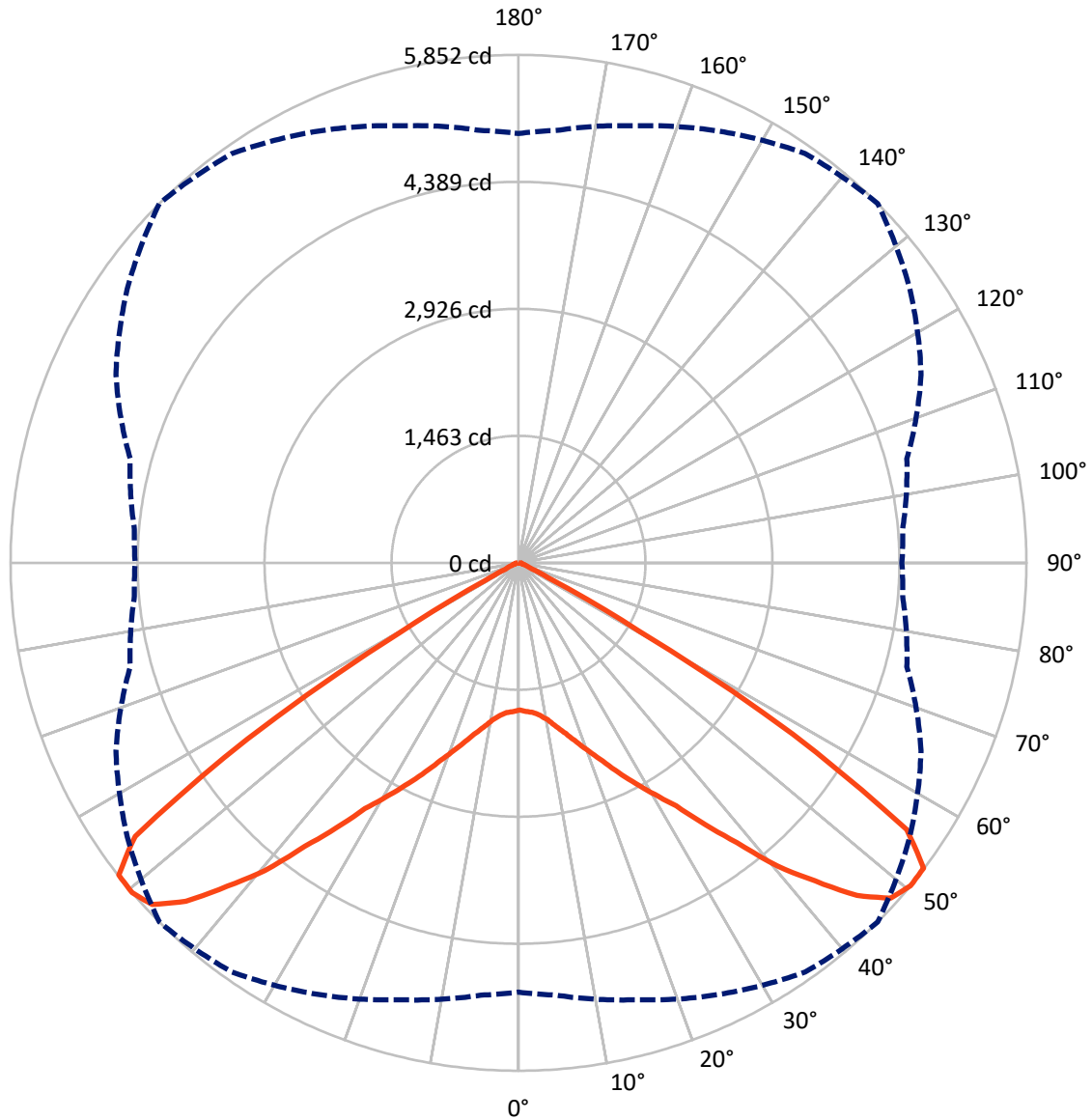
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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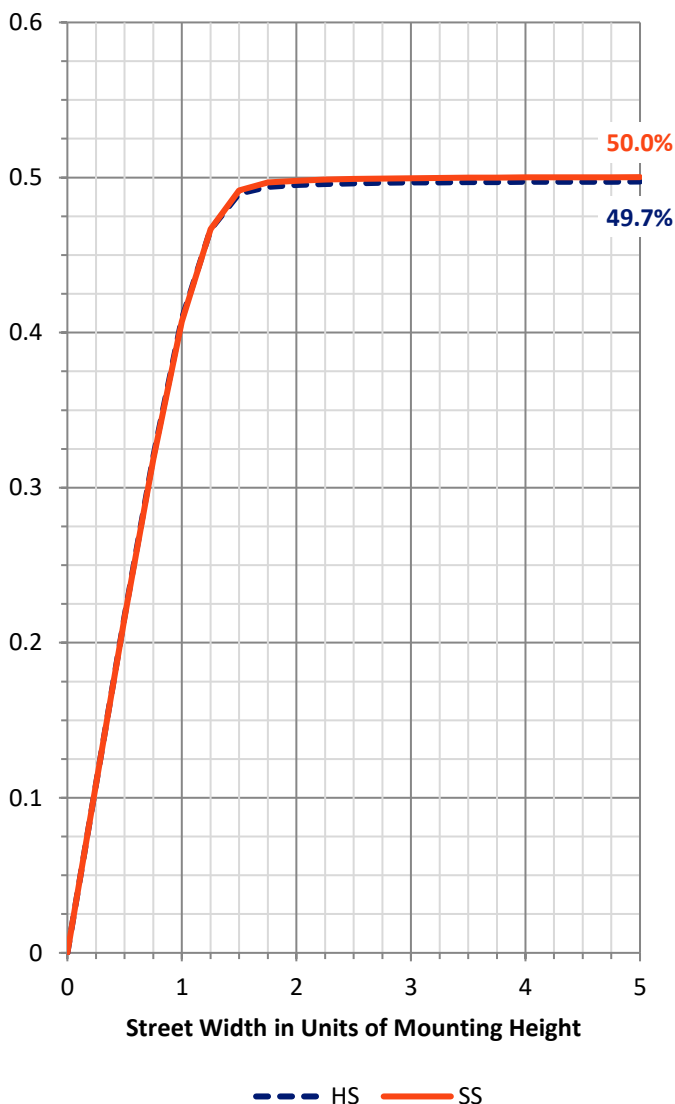
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6117.0	0.0	6117.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6117.0	0.0	6117.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12234.0	0.0	12234.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	1.4
10°-20°	581.6	4.8
20°-30°	1187.8	9.7
30°-40°	2265.1	18.5
40°-50°	3817.0	31.2
50°-60°	3640.2	29.8
60°-70°	508.2	4.2
70°-80°	48.6	0.4
80°-90°	16.8	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°	12234.0	100.0
0°-180°	12234.0	100.0

Coefficient of Utilization



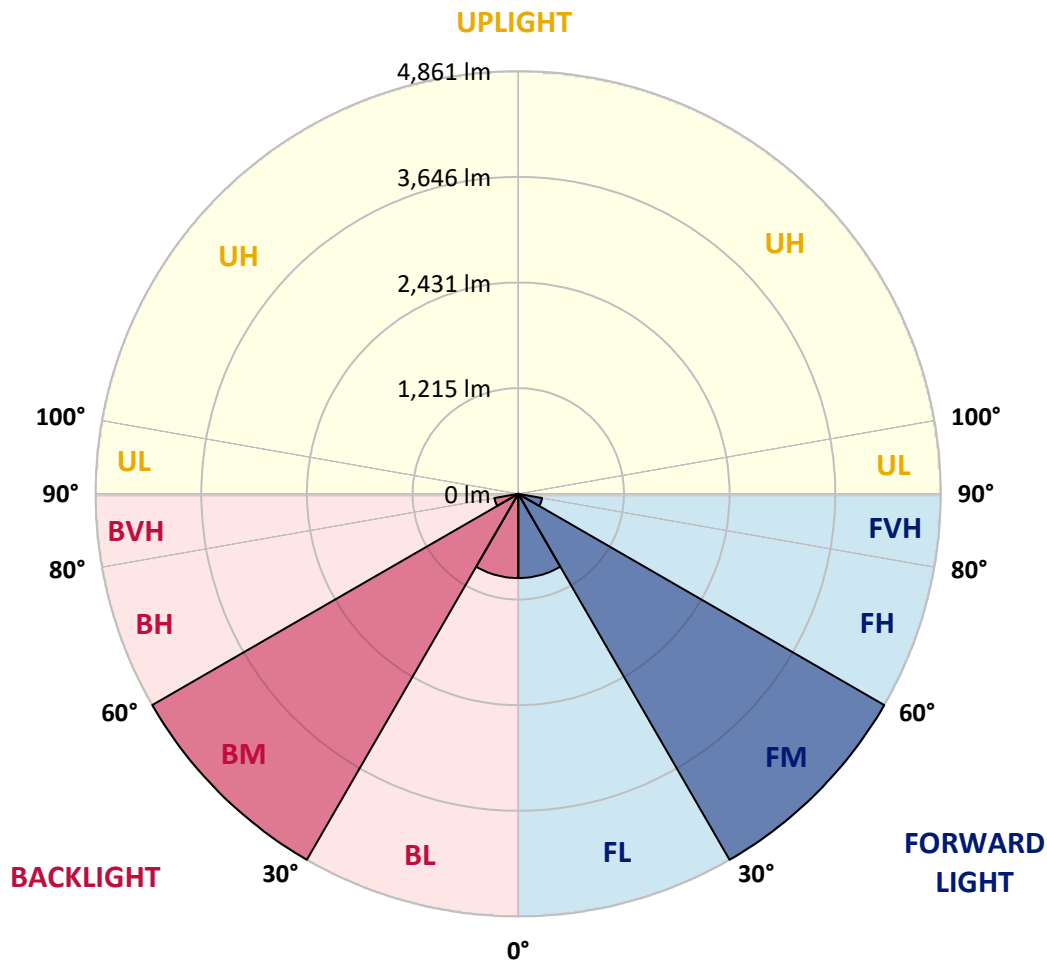
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	969.0	7.9			
FM (30°-60°)	4861.2	39.7			
FH (60°-80°)	278.4	2.3			G0/660
FVH (80°-90°)	8.4	0.1			G0/10
BL (0°-30°)	969.0	7.9	B2/1000		
BM (30°-60°)	4861.2	39.7	B3/5000		
BH (60°-80°)	278.4	2.3	B1/500		G0/660
BVH (80°-90°)	8.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1
2.5°	1689.9	1689.9	1687.9	1704.4	1696.1	1714.6	1712.6	1718.8	1724.9	1722.9	1739.4
5°	1675.5	1673.5	1673.5	1692.0	1710.5	1731.1	1749.6	1762.0	1782.6	1782.6	1803.2
7.5°	1689.9	1679.6	1694.0	1702.3	1737.3	1772.2	1803.2	1827.8	1875.2	1891.7	1885.5
10°	1694.0	1706.4	1716.7	1741.4	1784.6	1838.2	1864.9	1926.6	1980.1	2017.2	2025.5
12.5°	1720.9	1739.4	1768.1	1827.8	1866.9	1936.9	1974.0	2033.7	2107.8	2148.9	2177.8
15°	1772.2	1778.5	1815.5	1891.7	1976.0	2039.8	2097.5	2140.8	2212.8	2260.1	2262.2
17.5°	1838.2	1864.9	1916.4	1988.4	2076.9	2171.6	2216.9	2264.2	2291.0	2354.8	2369.2
20°	1969.9	1974.0	2023.4	2118.1	2229.2	2315.7	2348.7	2373.3	2363.0	2428.9	2441.3
22.5°	2093.4	2097.5	2159.3	2286.8	2406.3	2480.4	2494.7	2480.4	2449.5	2496.8	2501.0
25°	2219.0	2256.0	2301.3	2428.9	2577.1	2675.9	2678.0	2638.9	2575.1	2583.3	2603.9
27.5°	2414.5	2441.3	2488.6	2605.9	2768.6	2879.7	2861.2	2813.8	2731.5	2737.6	2731.5
30°	2643.0	2667.7	2706.8	2857.0	2976.5	3097.9	3124.7	3079.3	2955.9	2929.1	2960.0
32.5°	2918.8	2953.8	3025.8	3163.8	3264.6	3338.7	3357.3	3340.8	3225.5	3215.2	3235.7
35°	3254.3	3301.7	3367.5	3489.0	3571.3	3705.1	3705.1	3649.5	3544.6	3556.9	3554.8
37.5°	3608.4	3678.4	3781.3	3904.8	4015.9	4087.9	4065.3	4018.0	3913.0	3886.3	3913.0
40°	4052.9	4087.9	4217.6	4378.2	4514.1	4596.4	4499.6	4396.7	4145.6	4184.7	4256.7
42.5°	4458.5	4514.1	4612.9	4789.8	4944.2	5012.2	4896.9	4693.1	4390.5	4359.7	4413.1
45°	4804.3	4864.0	4993.7	5246.8	5409.5	5469.1	5213.9	4884.5	4538.7	4460.5	4483.2
47.5°	5034.8	5065.7	5246.8	5487.7	5635.9	5771.7	5405.4	5016.3	4608.8	4460.5	4452.3
50°	4946.3	4999.8	5211.8	5485.6	5755.3	5852.0	5502.1	5117.1	4631.4	4442.0	4417.3
52.5°	4392.6	4485.2	4722.0	5090.4	5498.0	5843.8	5635.9	5084.2	4623.1	4460.5	4497.6
55°	3056.7	3058.8	3346.9	3890.4	4610.8	5425.9	5440.3	5121.3	4676.6	4575.8	4577.9
57.5°	1228.9	1290.6	1510.9	2056.3	2721.2	3725.7	4429.6	4750.7	4682.9	4658.1	4722.0
60°	310.8	312.9	380.8	580.5	957.1	1597.3	2319.8	3139.0	3614.5	3777.2	3799.8
62.5°	158.5	160.5	177.0	205.9	261.4	428.2	761.6	1208.3	1718.8	1978.1	2046.1
65°	129.7	129.7	139.9	154.4	156.4	164.7	197.6	282.0	409.7	465.2	471.4
67.5°	98.8	98.8	107.1	115.3	119.4	117.3	113.2	117.3	142.0	135.8	131.7
70°	61.7	63.8	68.0	76.2	80.3	82.3	84.4	88.5	100.8	105.0	100.8
72.5°	37.1	37.1	39.1	45.2	51.5	55.6	61.7	65.9	72.1	82.3	80.3
75°	16.5	16.5	20.6	26.7	33.0	39.1	45.2	51.5	55.6	61.7	63.8
77.5°	4.1	6.1	10.3	18.5	24.7	33.0	41.2	47.3	51.5	51.5	49.4
80°	2.0	2.0	8.2	14.4	26.7	35.0	45.2	49.4	55.6	51.5	45.2
82.5°	2.0	2.0	8.2	14.4	24.7	35.0	47.3	53.5	57.6	51.5	43.2
85°	0.0	2.0	6.1	12.4	20.6	24.7	20.6	14.4	8.2	8.2	6.1
87.5°	0.0	0.0	2.0	2.0	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)