

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: P529261

Luminaire Tested: **GALN-SA4B-830-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10735 lumens
Efficiency: N/A
Efficacy: 65.5 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



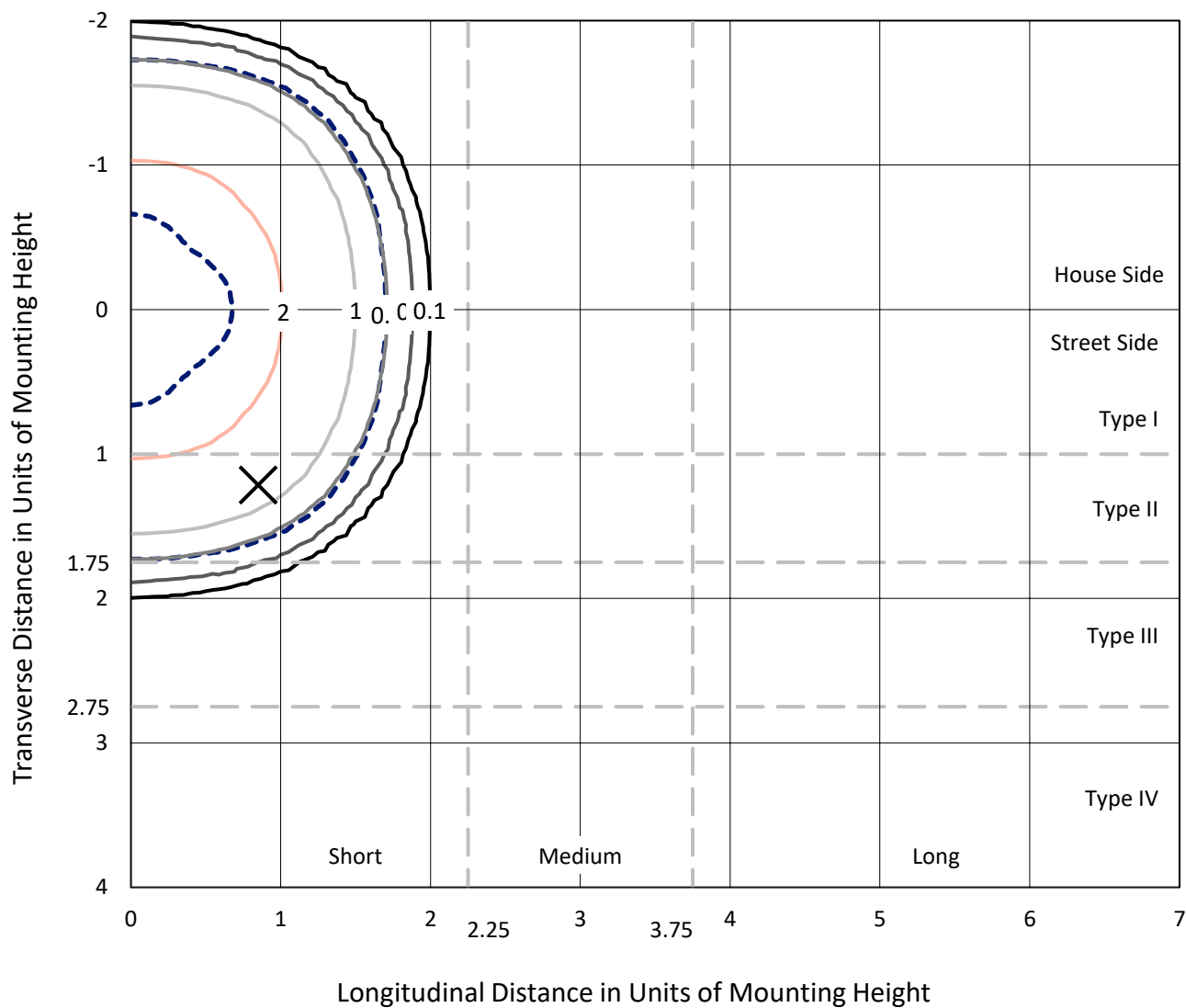
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

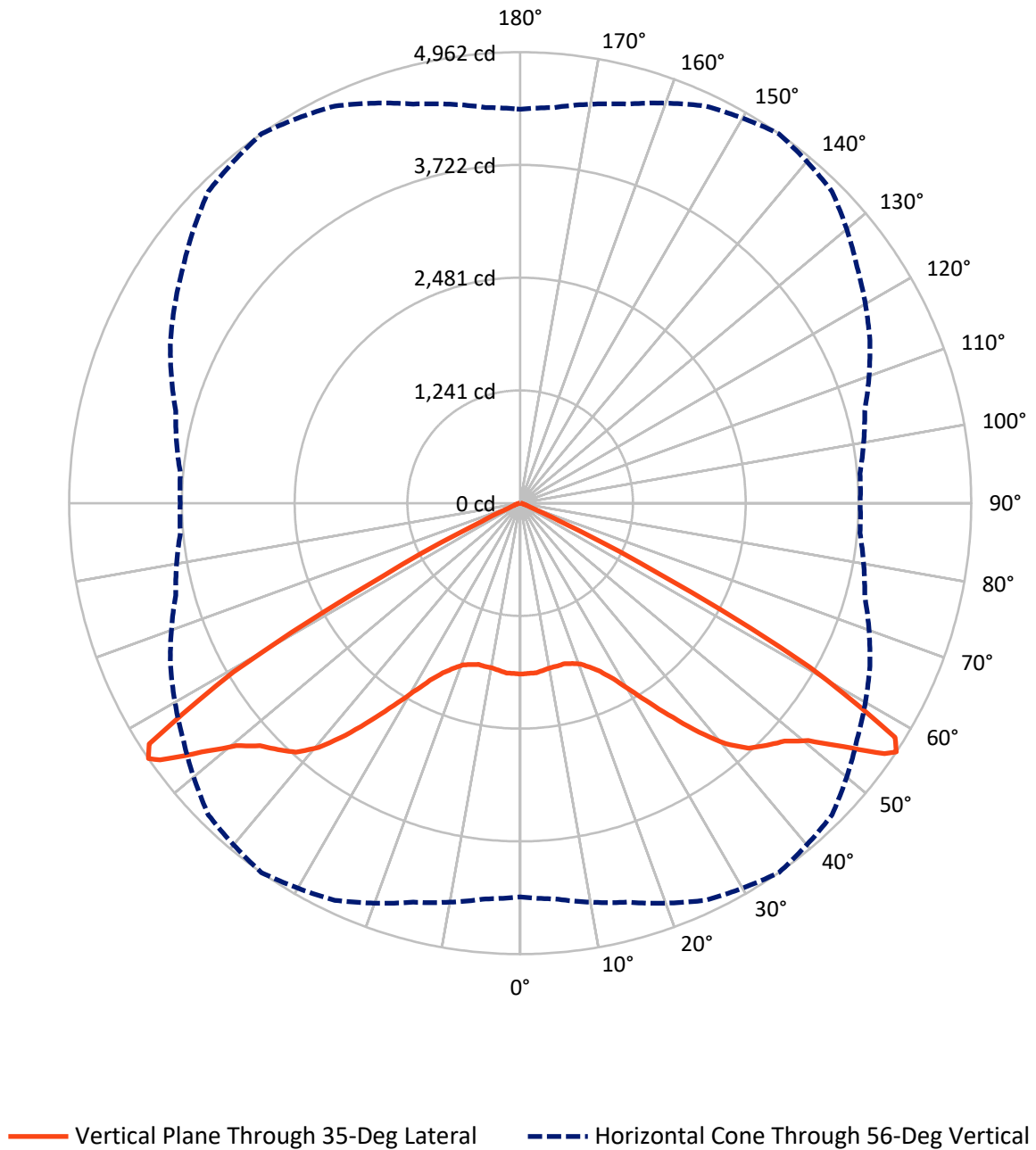
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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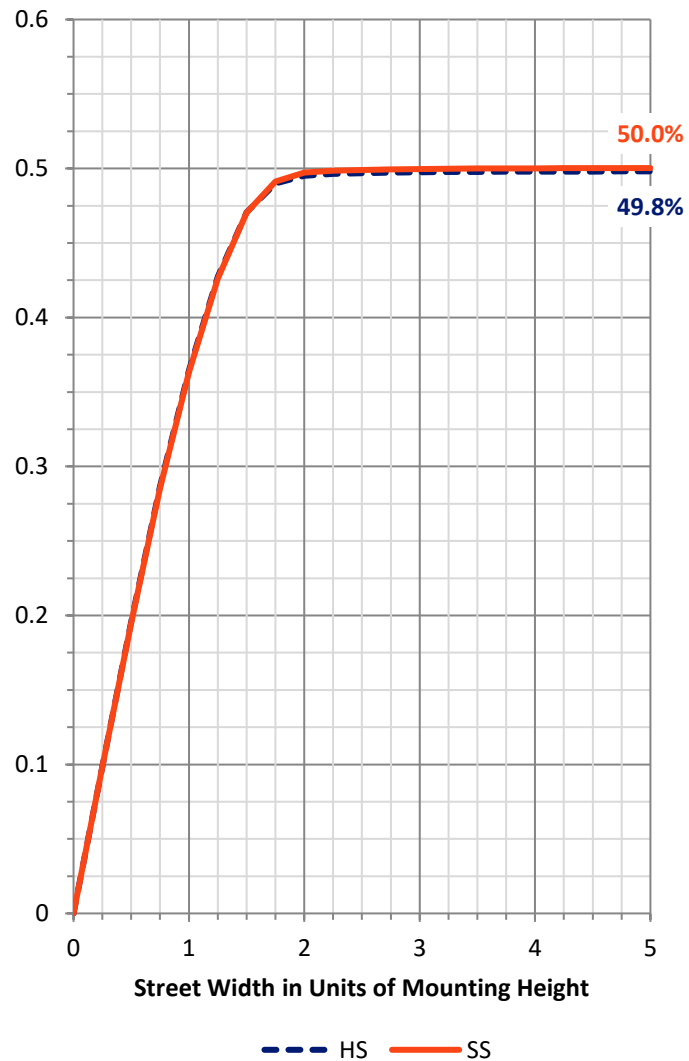
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5367.5	0.0	5367.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5367.5	0.0	5367.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10735.0	0.0	10735.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.8	1.6
10°-20°	516.1	4.8
20°-30°	934.6	8.7
30°-40°	1733.1	16.1
40°-50°	2844.8	26.5
50°-60°	3665.0	34.1
60°-70°	807.7	7.5
70°-80°	46.9	0.4
80°-90°	9.9	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°	10735.0	100.0
0°-180°	10735.0	100.0

Coefficient of Utilization



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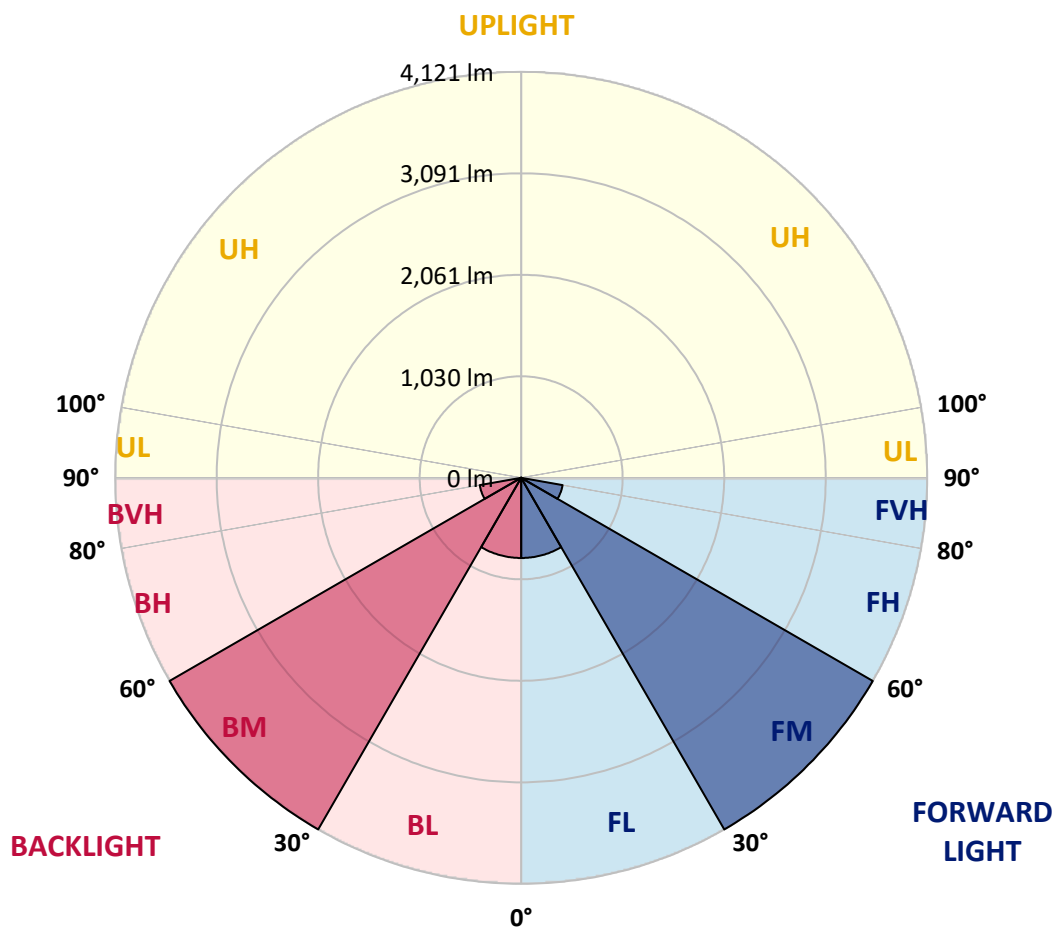
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	813.8	7.6			
FM	(30°-60°)	4121.5	38.4			
FH	(60°-80°)	427.3	4.0			G0/660
FVH	(80°-90°)	4.9	0.0			G0/10
BL	(0°-30°)	813.8	7.6	B2/1000		
BM	(30°-60°)	4121.5	38.4	B3/5000		
BH	(60°-80°)	427.3	4.0	B1/500		G0/660
BVH	(80°-90°)	4.9	0.0			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°	1881.0	1881.0	1881.0	1881.0	1881.0	1881.0	1881.0	1881.0	1881.0	1881.0	1881.0
2.5°	1884.9	1884.9	1886.8	1888.8	1875.2	1869.3	1871.3	1867.4	1865.4	1871.3	1871.3
5°	1879.1	1879.1	1873.2	1875.2	1875.2	1857.7	1857.7	1861.6	1861.6	1849.9	1846.0
7.5°	1863.5	1859.6	1851.8	1861.6	1855.7	1855.7	1842.1	1832.4	1828.5	1836.3	1828.5
10°	1830.4	1832.4	1840.2	1844.0	1840.2	1851.8	1828.5	1814.9	1801.2	1795.4	1795.4
12.5°	1814.9	1826.5	1814.9	1824.6	1838.2	1828.5	1814.9	1805.1	1785.7	1777.9	1777.9
15°	1812.9	1820.7	1824.6	1838.2	1832.4	1836.3	1809.0	1797.4	1768.2	1754.6	1748.7
17.5°	1811.0	1820.7	1826.5	1851.8	1855.7	1857.7	1836.3	1801.2	1776.0	1762.3	1748.7
20°	1832.4	1836.3	1847.9	1873.2	1888.8	1916.0	1877.1	1840.2	1785.7	1770.1	1764.3
22.5°	1859.6	1879.1	1890.7	1918.0	1958.8	1982.2	1931.6	1884.9	1828.5	1809.0	1785.7
25°	1947.1	1943.2	1962.7	2019.1	2052.2	2069.7	2028.8	1960.8	1886.8	1863.5	1867.4
27.5°	2056.1	2060.0	2077.5	2139.7	2188.3	2215.6	2166.9	2077.5	2005.5	1966.6	1962.7
30°	2198.1	2194.2	2213.6	2297.3	2384.8	2425.7	2340.1	2235.0	2165.0	2114.4	2126.1
32.5°	2347.8	2349.8	2404.3	2480.1	2622.1	2701.9	2563.8	2435.4	2330.3	2295.3	2277.8
35°	2569.6	2579.3	2622.1	2738.8	2896.4	2999.5	2847.8	2694.1	2573.5	2509.3	2517.1
37.5°	2843.9	2834.1	2906.1	3032.6	3197.9	3273.8	3145.4	2970.3	2847.8	2805.0	2832.2
40°	3135.7	3145.4	3182.3	3297.1	3481.9	3532.5	3341.8	3246.5	3139.5	3118.1	3151.2
42.5°	3427.4	3421.6	3448.8	3551.9	3686.1	3651.1	3538.3	3481.9	3406.0	3363.2	3408.0
45°	3641.4	3631.7	3682.3	3752.3	3800.9	3734.8	3684.2	3664.7	3625.8	3579.2	3620.0
47.5°	3849.5	3841.8	3890.4	3909.8	3913.7	3826.2	3835.9	3870.9	3773.7	3676.4	3723.1
50°	4026.6	4012.9	4073.2	4116.0	4106.3	3966.3	4001.3	3966.3	3814.5	3699.8	3682.3
52.5°	4322.2	4328.1	4392.2	4470.1	4446.7	4330.0	4279.4	4119.9	3925.4	3822.3	3762.0
55°	4509.0	4479.8	4590.7	4837.7	4864.9	4744.3	4520.6	4285.3	3993.5	3867.0	3851.5
56°	4333.9	4370.9	4545.9	4822.1	4962.2	4851.3	4526.5	4244.4	3923.5	3752.3	3740.6
57.5°	3888.4	3869.0	4106.3	4483.7	4864.9	4818.2	4367.0	3952.6	3579.2	3386.6	3363.2
60°	2419.8	2476.2	2684.4	3151.2	3660.9	3684.2	3236.8	2880.8	2445.1	2273.9	2314.8
62.5°	947.3	898.7	1029.0	1377.2	1727.3	1805.1	1635.9	1359.7	1116.5	947.3	935.6
65°	219.8	214.0	241.2	332.6	464.9	538.8	511.6	367.6	270.4	256.8	237.3
67.5°	124.5	124.5	118.7	118.7	130.3	138.1	132.3	130.3	136.2	142.0	140.1
70°	87.5	85.6	81.7	83.6	79.8	79.8	85.6	95.3	103.1	103.1	105.0
72.5°	52.5	52.5	52.5	58.4	58.4	58.4	64.2	72.0	73.9	72.0	70.0
75°	23.3	23.3	27.2	33.1	37.0	38.9	44.7	48.6	52.5	48.6	44.7
77.5°	5.8	5.8	9.7	13.6	17.5	21.4	29.2	35.0	37.0	35.0	29.2
80°	1.9	1.9	3.9	9.7	17.5	21.4	29.2	31.1	33.1	29.2	23.3
82.5°	1.9	1.9	3.9	9.7	13.6	17.5	23.3	27.2	29.2	25.3	23.3
85°	0.0	1.9	3.9	7.8	11.7	15.6	15.6	11.7	9.7	5.8	7.8
87.5°	0.0	0.0	1.9	1.9	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)