

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: P529027

Luminaire Tested: **GALN-SA4A-830-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529027
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-SA4A-830-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA 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: 8628 lumens
Efficiency: N/A
Efficacy: 71.3 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): 121
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

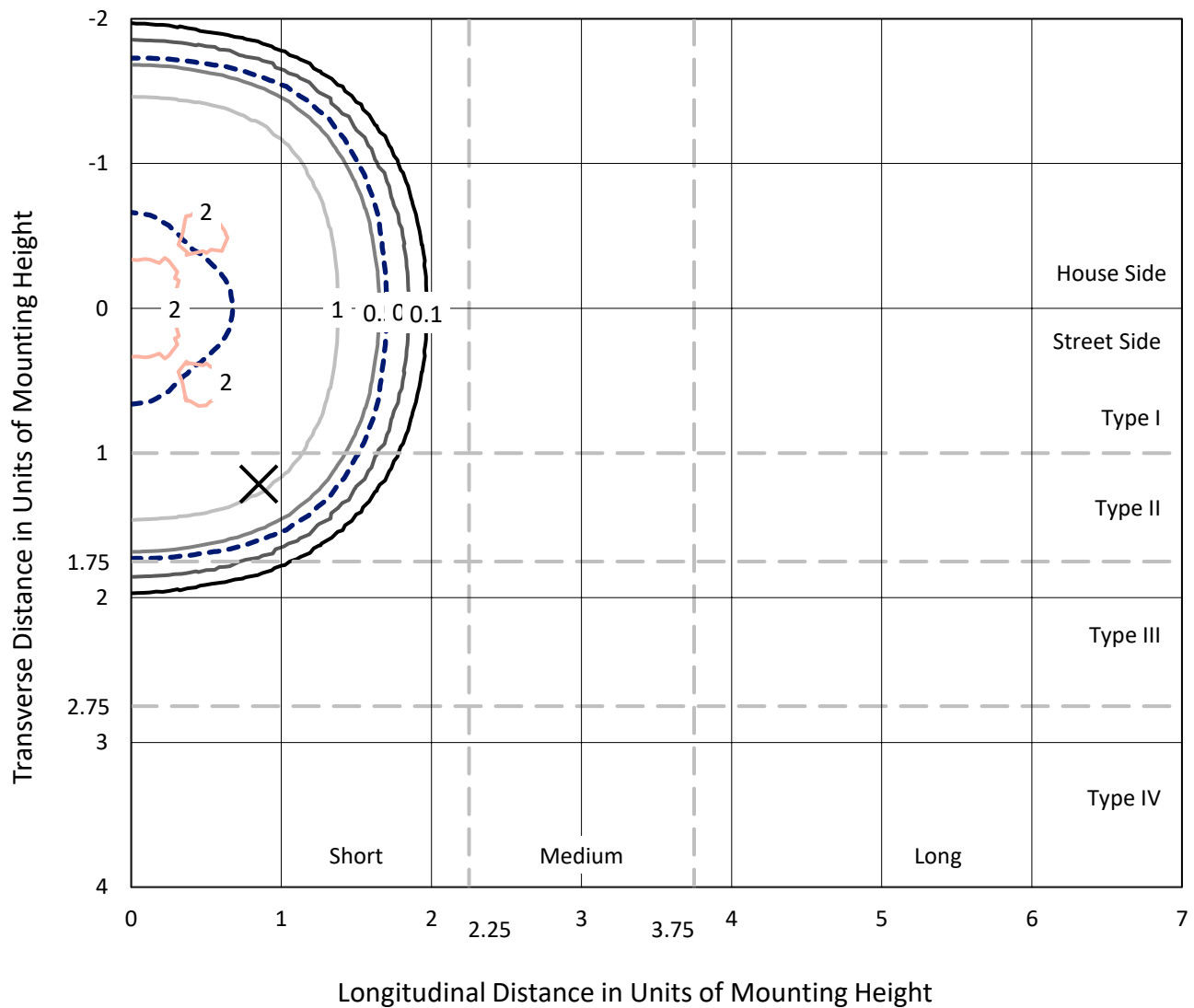


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Iso-Footcandle Lines of Horizontal Illumination

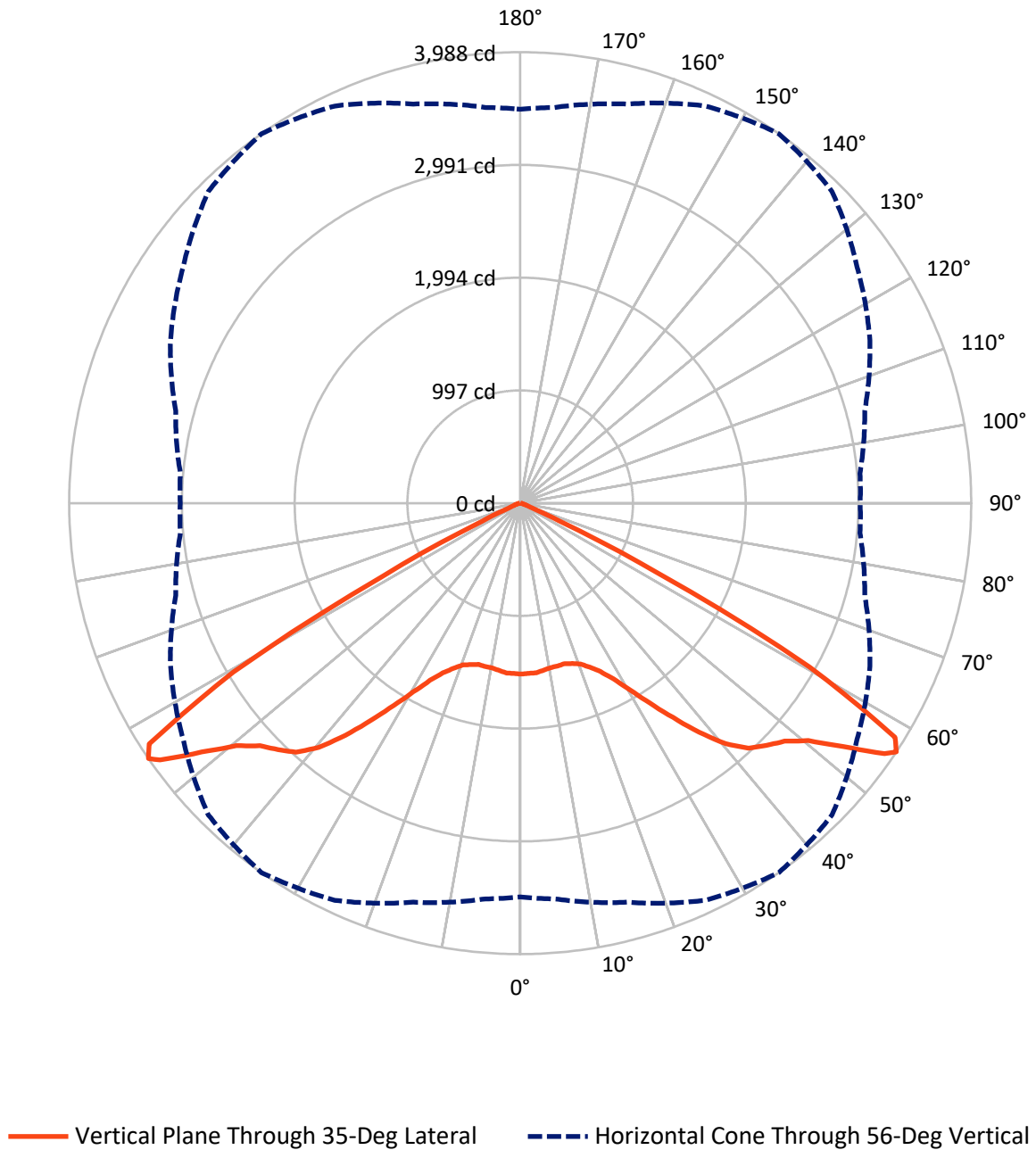
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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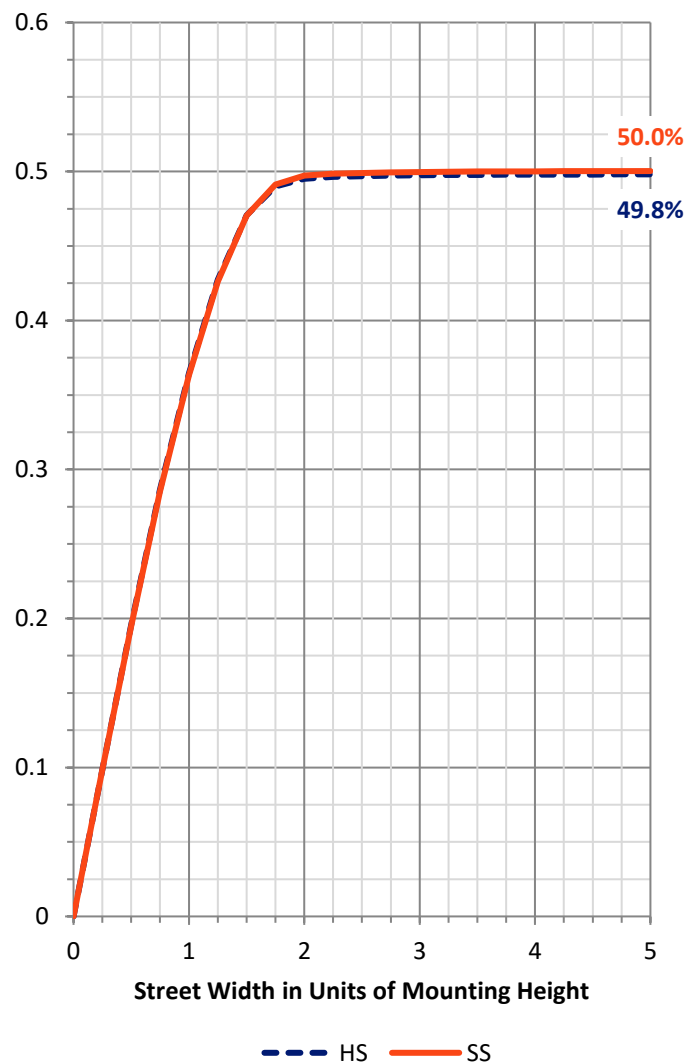
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4314.0	0.0	4314.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4314.0	0.0	4314.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8628.0	0.0	8628.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.1	1.6
10°-20°	414.8	4.8
20°-30°	751.2	8.7
30°-40°	1393.0	16.1
40°-50°	2286.5	26.5
50°-60°	2945.7	34.1
60°-70°	649.2	7.5
70°-80°	37.7	0.4
80°-90°	7.9	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°	8628.0	100.0
0°-180°	8628.0	100.0

Coefficient of Utilization



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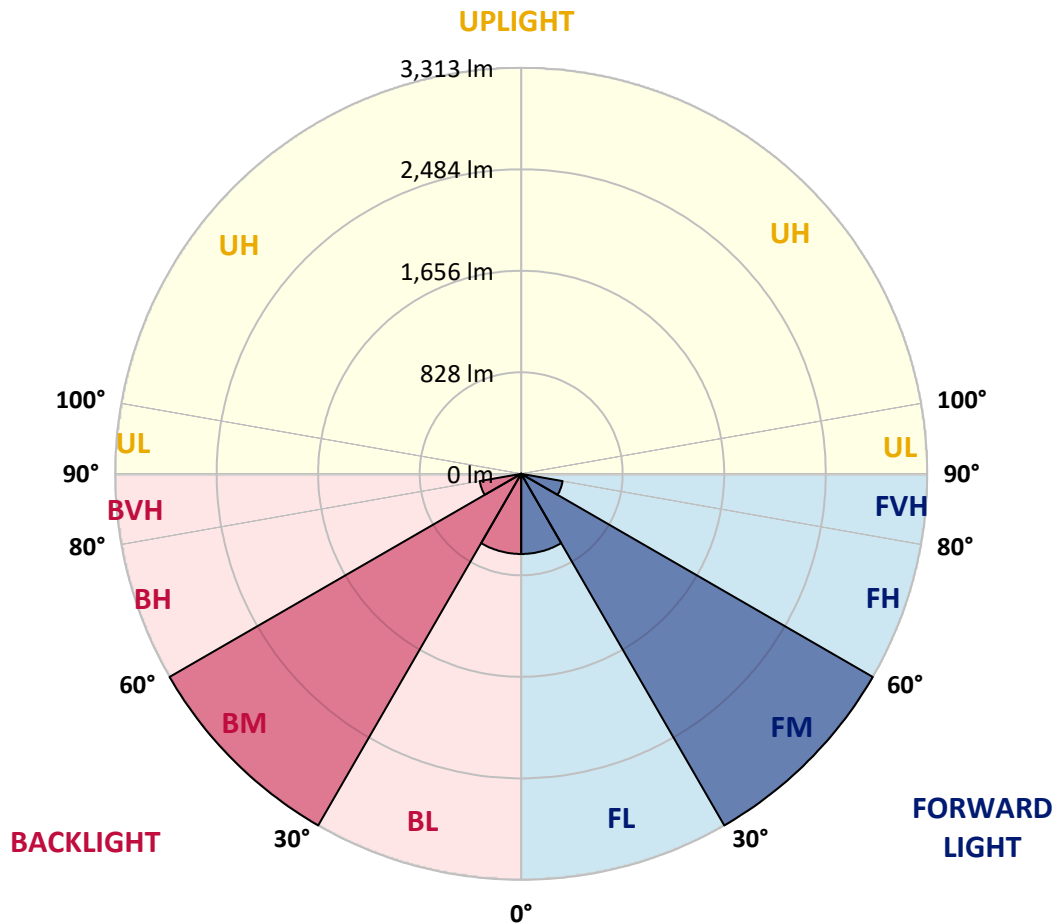
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	654.1	7.6			
FM	(30°-60°)	3312.6	38.4			
FH	(60°-80°)	343.4	4.0			G0/660
FVH	(80°-90°)	4.0	0.0			G0/10
BL	(0°-30°)	654.1	7.6	B2/1000		
BM	(30°-60°)	3312.6	38.4	B3/5000		
BH	(60°-80°)	343.4	4.0	B1/500		G0/660
BVH	(80°-90°)	4.0	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°	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8	1511.8
2.5°	1514.9	1514.9	1516.5	1518.1	1507.1	1502.4	1504.0	1500.9	1499.3	1504.0	1504.0
5°	1510.2	1510.2	1505.6	1507.1	1507.1	1493.1	1493.1	1496.2	1496.2	1486.8	1483.7
7.5°	1497.7	1494.6	1488.4	1496.2	1491.5	1491.5	1480.5	1472.7	1469.6	1475.9	1469.6
10°	1471.2	1472.7	1479.0	1482.1	1479.0	1488.4	1469.6	1458.7	1447.7	1443.0	1443.0
12.5°	1458.7	1468.0	1458.7	1466.5	1477.4	1469.6	1458.7	1450.8	1435.2	1429.0	1429.0
15°	1457.1	1463.3	1466.5	1477.4	1472.7	1475.9	1454.0	1444.6	1421.1	1410.2	1405.5
17.5°	1455.5	1463.3	1468.0	1488.4	1491.5	1493.1	1475.9	1447.7	1427.4	1416.4	1405.5
20°	1472.7	1475.9	1485.2	1505.6	1518.1	1540.0	1508.7	1479.0	1435.2	1422.7	1418.0
22.5°	1494.6	1510.2	1519.6	1541.5	1574.3	1593.1	1552.5	1514.9	1469.6	1454.0	1435.2
25°	1565.0	1561.8	1577.5	1622.8	1649.4	1663.5	1630.6	1575.9	1516.5	1497.7	1500.9
27.5°	1652.5	1655.6	1669.7	1719.7	1758.8	1780.7	1741.6	1669.7	1611.9	1580.6	1577.5
30°	1766.6	1763.5	1779.2	1846.4	1916.7	1949.6	1880.8	1796.4	1740.1	1699.4	1708.8
32.5°	1887.0	1888.6	1932.4	1993.3	2107.5	2171.6	2060.6	1957.4	1873.0	1844.8	1830.7
35°	2065.3	2073.1	2107.5	2201.3	2327.9	2410.8	2288.8	2165.3	2068.4	2016.8	2023.0
37.5°	2285.7	2277.9	2335.7	2437.3	2570.2	2631.2	2528.0	2387.3	2288.8	2254.4	2276.3
40°	2520.2	2528.0	2557.7	2650.0	2798.5	2839.1	2685.9	2609.3	2523.3	2506.1	2532.7
42.5°	2754.7	2750.0	2771.9	2854.8	2962.6	2934.5	2843.8	2798.5	2737.5	2703.1	2739.1
45°	2926.7	2918.9	2959.5	3015.8	3054.9	3001.7	2961.1	2945.5	2914.2	2876.7	2909.5
47.5°	3094.0	3087.7	3126.8	3142.4	3145.6	3075.2	3083.0	3111.2	3033.0	2954.8	2992.4
50°	3236.2	3225.3	3273.8	3308.2	3300.3	3187.8	3215.9	3187.8	3065.8	2973.6	2959.5
52.5°	3473.9	3478.6	3530.2	3592.7	3573.9	3480.1	3439.5	3311.3	3154.9	3072.1	3023.6
55°	3624.0	3600.5	3689.6	3888.2	3910.1	3813.1	3633.3	3444.2	3209.7	3108.0	3095.5
56°	3483.3	3513.0	3653.7	3875.7	3988.2	3899.1	3638.0	3411.3	3153.4	3015.8	3006.4
57.5°	3125.2	3109.6	3300.3	3603.6	3910.1	3872.6	3509.8	3176.8	2876.7	2721.9	2703.1
60°	1944.9	1990.2	2157.5	2532.7	2942.3	2961.1	2601.5	2315.4	1965.2	1827.6	1860.5
62.5°	761.4	722.3	827.0	1106.9	1388.3	1450.8	1314.8	1092.8	897.4	761.4	752.0
65°	176.7	172.0	193.9	267.3	373.7	433.1	411.2	295.5	217.3	206.4	190.7
67.5°	100.1	100.1	95.4	95.4	104.7	111.0	106.3	104.7	109.4	114.1	112.6
70°	70.4	68.8	65.7	67.2	64.1	64.1	68.8	76.6	82.9	82.9	84.4
72.5°	42.2	42.2	42.2	46.9	46.9	46.9	51.6	57.8	59.4	57.8	56.3
75°	18.8	18.8	21.9	26.6	29.7	31.3	36.0	39.1	42.2	39.1	36.0
77.5°	4.7	4.7	7.8	10.9	14.1	17.2	23.5	28.1	29.7	28.1	23.5
80°	1.6	1.6	3.1	7.8	14.1	17.2	23.5	25.0	26.6	23.5	18.8
82.5°	1.6	1.6	3.1	7.8	10.9	14.1	18.8	21.9	23.5	20.3	18.8
85°	0.0	1.6	3.1	6.3	9.4	12.5	12.5	9.4	7.8	4.7	6.3
87.5°	0.0	0.0	1.6	1.6	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)