

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: P527859

Luminaire Tested: **GALN-SA2D-830-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-830-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8492 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

Input Watts (W): 125
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



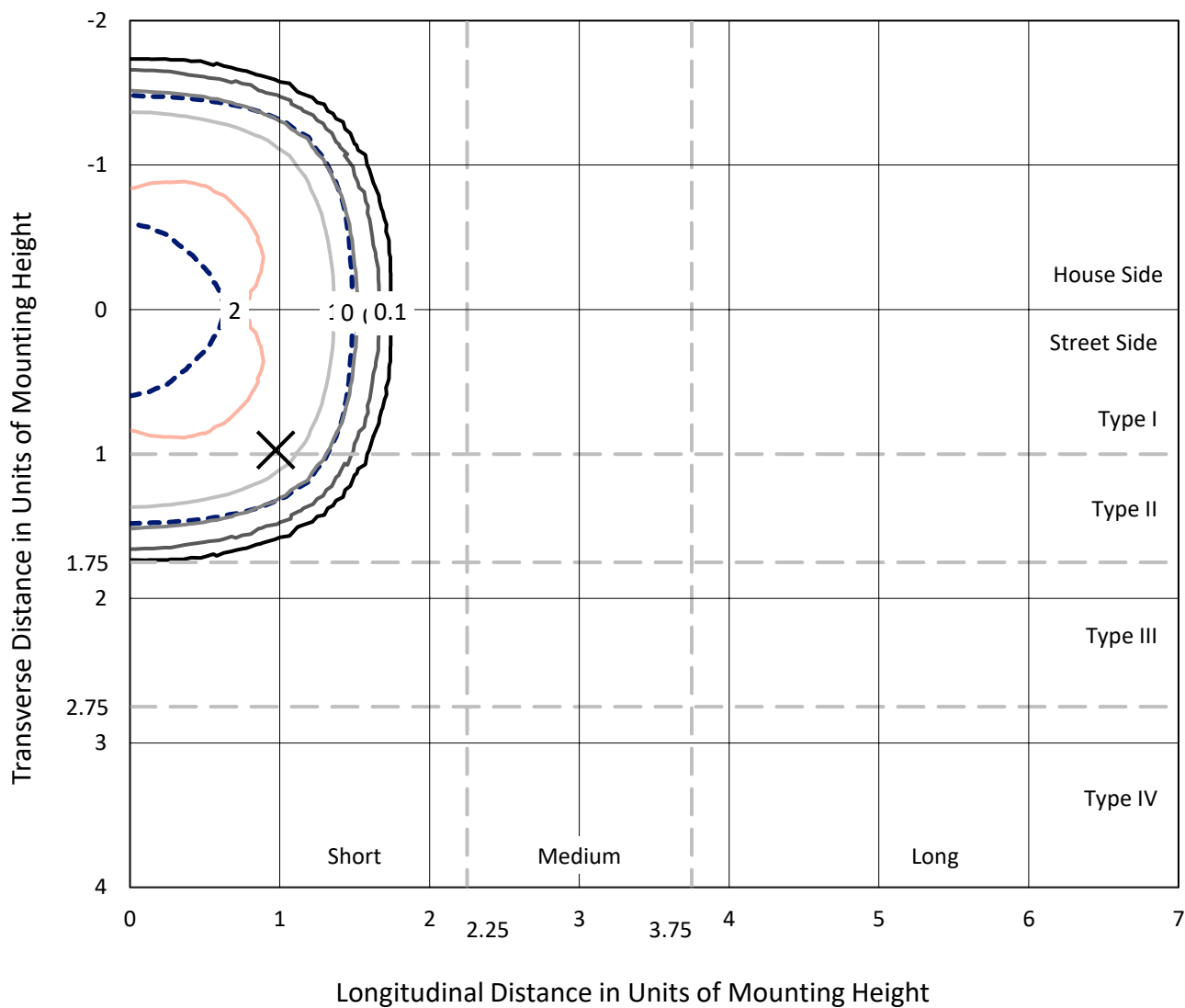
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

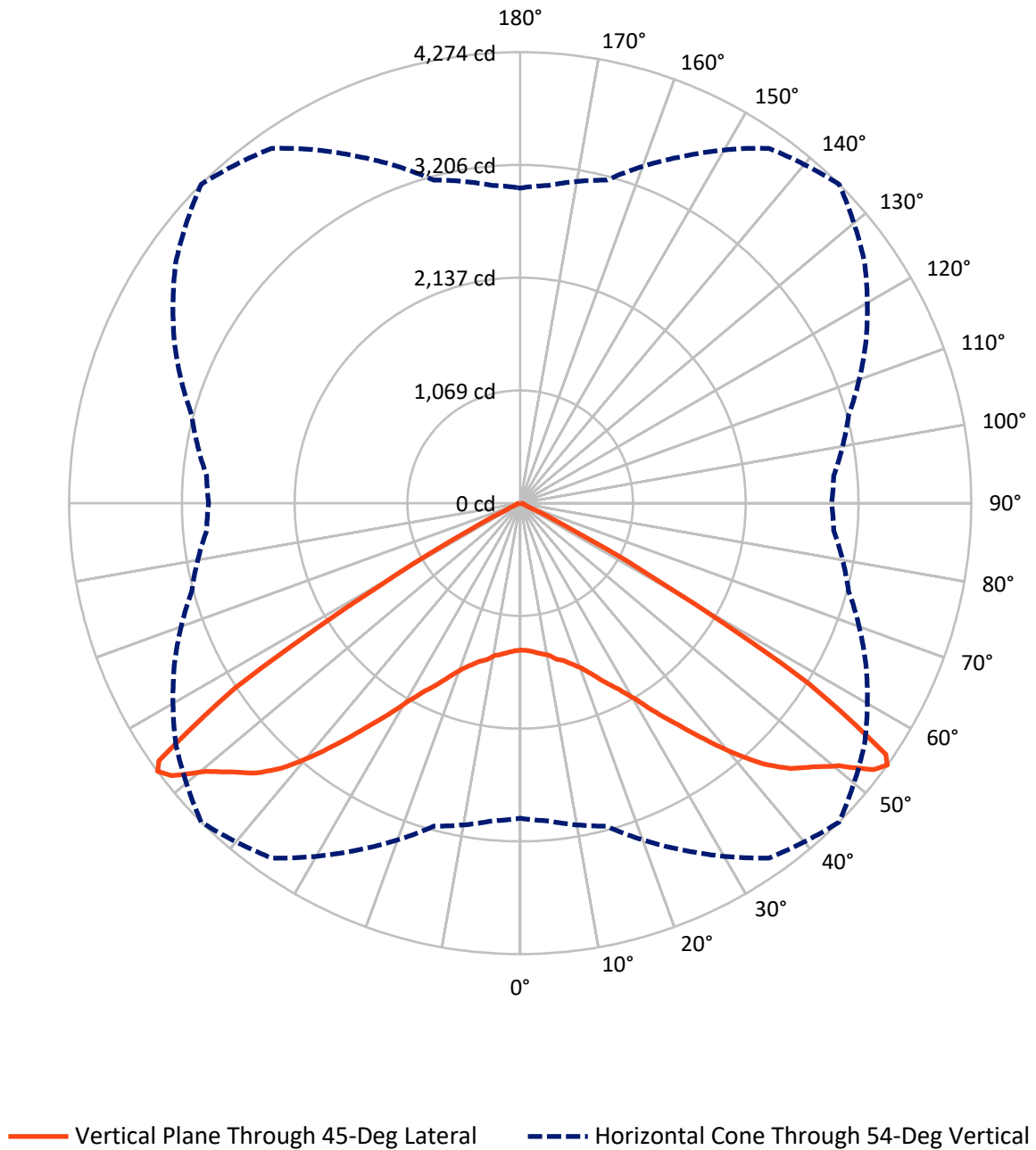


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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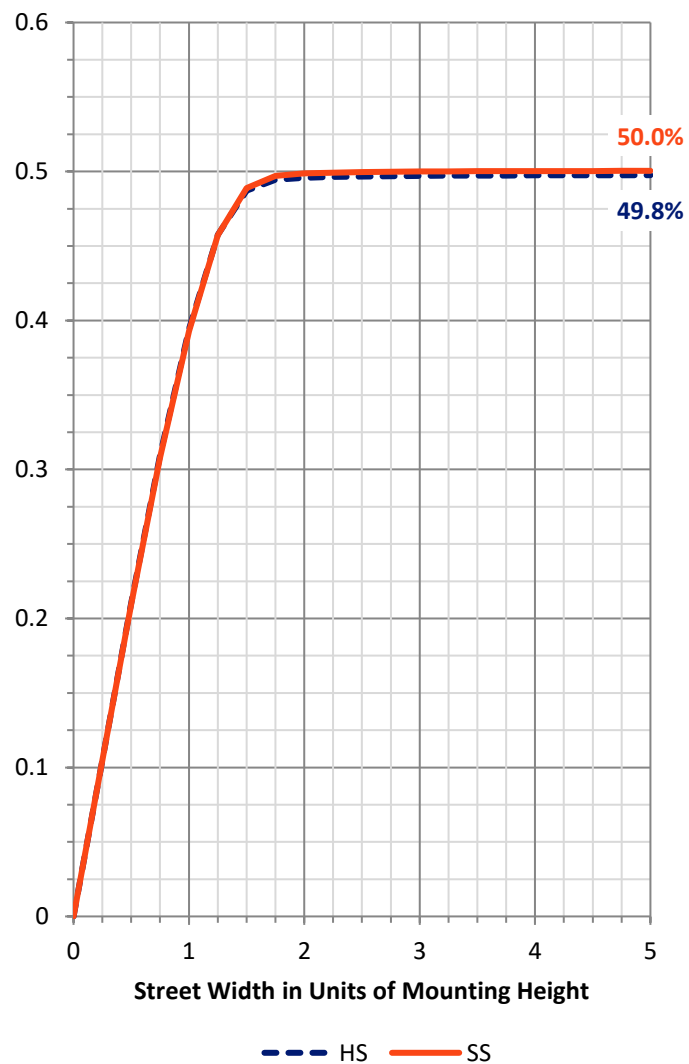
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4246.0	0.0	4246.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4246.0	0.0	4246.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8492.0	0.0	8492.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	1.6
10°-20°	441.3	5.2
20°-30°	865.0	10.2
30°-40°	1555.5	18.3
40°-50°	2662.7	31.4
50°-60°	2576.4	30.3
60°-70°	220.6	2.6
70°-80°	26.1	0.3
80°-90°	8.2	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°	8492.0	100.0
0°-180°	8492.0	100.0

Coefficient of Utilization



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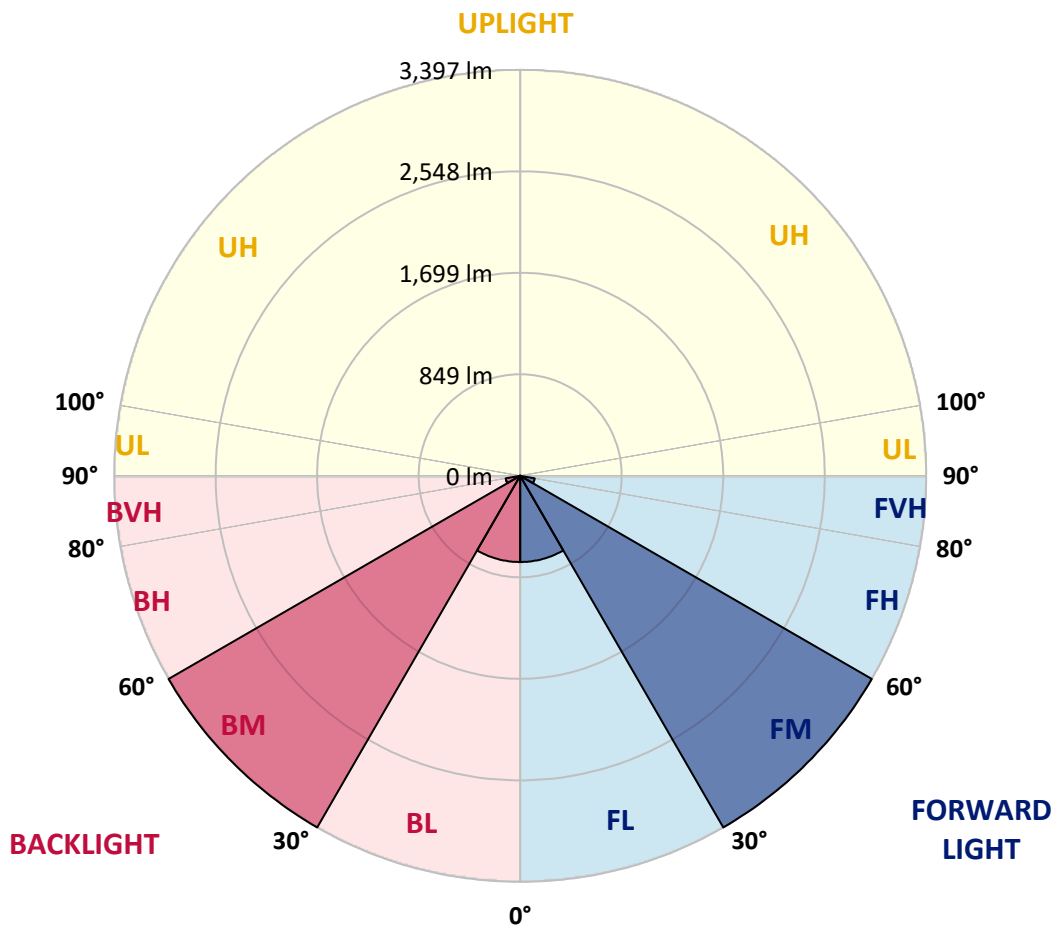
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	721.3	8.5			
FM	(30°-60°)	3397.2	40.0			
FH	(60°-80°)	123.3	1.5			G0/660
FVH	(80°-90°)	4.1	0.0			G0/10
BL	(0°-30°)	721.3	8.5	B2/1000		
BM	(30°-60°)	3397.2	40.0	B3/5000		
BH	(60°-80°)	123.3	1.5	B1/500		G0/660
BVH	(80°-90°)	4.1	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°	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4	1392.4
2.5°	1399.2	1407.2	1401.8	1405.9	1405.9	1399.2	1403.2	1387.0	1397.8	1389.7	1391.1
5°	1420.7	1419.3	1419.3	1420.7	1415.3	1418.0	1412.6	1407.2	1403.2	1397.8	1413.9
7.5°	1447.6	1447.6	1438.2	1440.9	1438.2	1442.2	1431.4	1420.7	1416.6	1412.6	1409.9
10°	1473.1	1470.5	1466.4	1478.5	1469.1	1463.7	1458.3	1451.6	1436.8	1431.4	1426.1
12.5°	1510.8	1509.5	1504.1	1516.2	1510.8	1516.2	1496.0	1478.5	1475.8	1458.3	1467.8
15°	1555.2	1567.3	1557.9	1557.9	1555.2	1548.5	1540.4	1532.3	1508.1	1501.4	1502.7
17.5°	1613.1	1609.0	1610.4	1610.4	1623.8	1606.3	1590.2	1570.0	1557.9	1553.9	1540.4
20°	1668.2	1673.6	1672.3	1681.7	1689.7	1670.9	1653.4	1650.7	1617.1	1622.5	1603.6
22.5°	1765.1	1761.0	1767.8	1774.5	1769.1	1766.4	1750.3	1730.1	1700.5	1687.1	1684.4
25°	1867.3	1860.6	1848.5	1864.6	1872.7	1884.8	1853.9	1843.1	1797.4	1777.2	1778.5
27.5°	1954.8	1964.2	1977.6	1984.4	2004.6	2000.5	1979.0	1944.0	1909.0	1886.2	1871.4
30°	2074.5	2079.9	2102.8	2112.2	2147.2	2156.6	2122.9	2082.6	2020.7	1991.1	1973.6
32.5°	2184.8	2222.5	2221.2	2268.2	2324.7	2363.8	2303.2	2241.3	2179.4	2144.5	2113.5
35°	2363.8	2357.0	2396.0	2445.8	2537.3	2581.7	2515.8	2444.5	2350.3	2293.8	2269.6
37.5°	2530.6	2533.3	2585.7	2665.1	2770.0	2838.7	2780.8	2663.8	2566.9	2494.3	2460.6
40°	2772.7	2778.1	2831.9	2922.1	3040.5	3114.5	3047.2	2928.8	2799.6	2743.1	2743.1
42.5°	3056.6	3079.5	3114.5	3192.5	3298.8	3380.8	3320.3	3227.5	3097.0	3024.3	3035.1
45°	3348.5	3359.3	3382.2	3497.9	3547.7	3588.0	3531.5	3488.5	3401.0	3312.2	3297.4
47.5°	3621.6	3625.7	3692.9	3729.3	3768.3	3734.7	3771.0	3714.5	3616.3	3530.2	3512.7
50°	3742.7	3736.0	3831.5	3941.8	3971.4	3912.2	3881.3	3843.6	3694.3	3590.7	3545.0
52.5°	3390.2	3429.3	3606.8	3913.6	4145.0	4194.8	4014.5	3840.9	3562.5	3360.7	3329.7
54°	2986.6	3023.0	3169.6	3624.3	4106.0	4274.1	3983.5	3614.9	3222.1	2982.6	2951.7
55°	2587.1	2546.7	2813.1	3277.2	3923.0	4204.2	3861.1	3323.0	2873.6	2654.3	2611.3
57.5°	1400.5	1407.2	1631.9	2070.5	2756.6	3223.4	2846.7	2248.1	1697.8	1451.6	1430.1
60°	444.0	454.7	552.9	836.8	1317.1	1572.7	1348.0	902.7	624.2	500.5	480.3
62.5°	138.6	144.0	157.4	234.1	360.6	515.3	403.6	242.2	180.3	165.5	168.2
65°	84.8	84.8	86.1	91.5	107.6	125.1	121.1	106.3	102.2	99.6	98.2
67.5°	55.2	53.8	56.5	60.5	63.2	64.6	68.6	72.6	71.3	68.6	68.6
70°	33.6	32.3	35.0	40.4	41.7	44.4	48.4	53.8	52.5	49.8	51.1
72.5°	18.8	18.8	20.2	24.2	28.3	30.9	35.0	39.0	40.4	39.0	39.0
75°	6.7	8.1	10.8	14.8	17.5	21.5	25.6	29.6	33.6	30.9	29.6
77.5°	2.7	2.7	5.4	9.4	13.5	17.5	24.2	28.3	30.9	28.3	25.6
80°	1.3	1.3	4.0	8.1	12.1	16.1	20.2	24.2	25.6	22.9	20.2
82.5°	1.3	1.3	4.0	8.1	12.1	14.8	21.5	24.2	26.9	24.2	20.2
85°	0.0	1.3	4.0	8.1	10.8	12.1	12.1	8.1	6.7	4.0	4.0
87.5°	0.0	0.0	1.3	0.0	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)