

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: P527833

Luminaire Tested: **GALN-SA2D-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527833  
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-827-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 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: 7856 lumens  
Efficiency: N/A  
Efficacy: 62.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

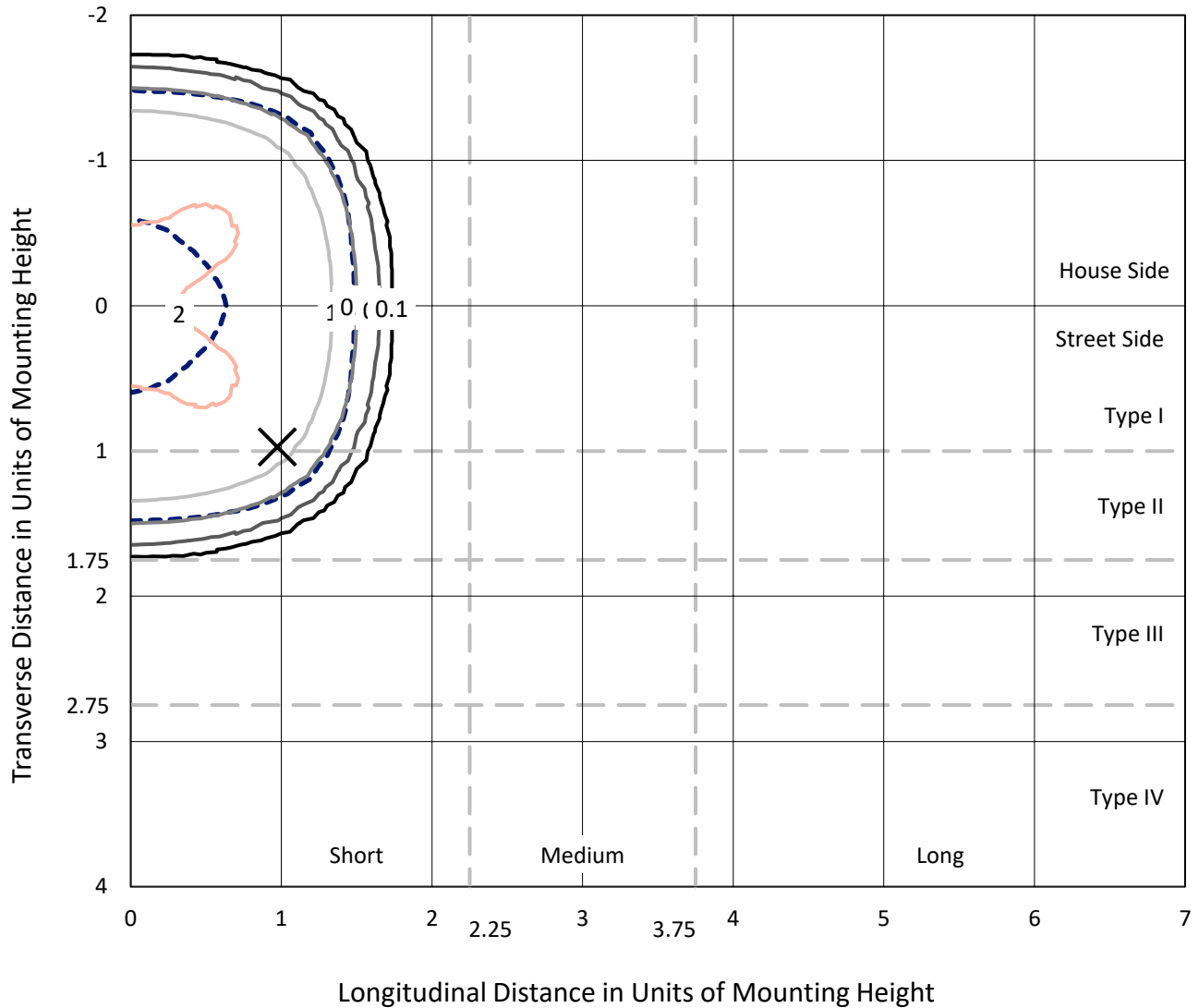
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

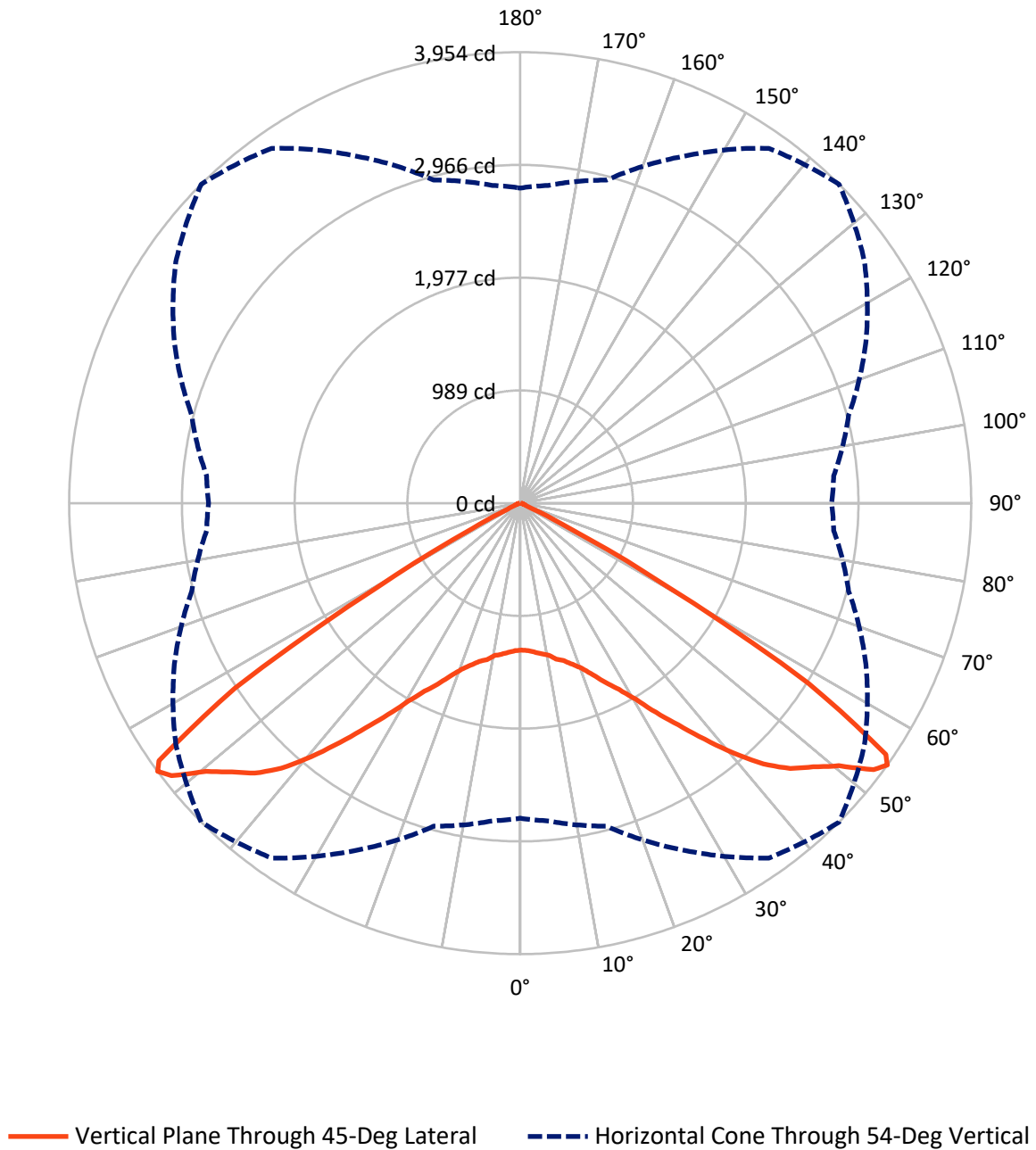
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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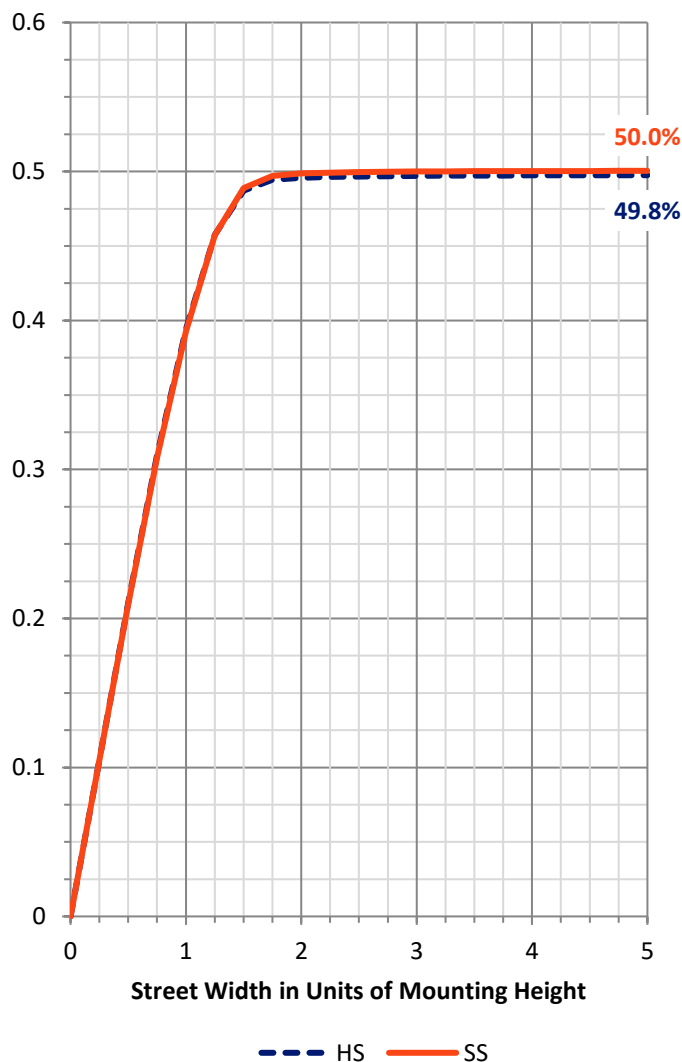
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3928.0	0.0	3928.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3928.0	0.0	3928.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7856.0	0.0	7856.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.1	1.6
10°-20°	408.3	5.2
20°-30°	800.2	10.2
30°-40°	1439.0	18.3
40°-50°	2463.2	31.4
50°-60°	2383.4	30.3
60°-70°	204.0	2.6
70°-80°	24.2	0.3
80°-90°	7.6	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°	7856.0	100.0
0°-180°	7856.0	100.0

**Coefficient of Utilization**



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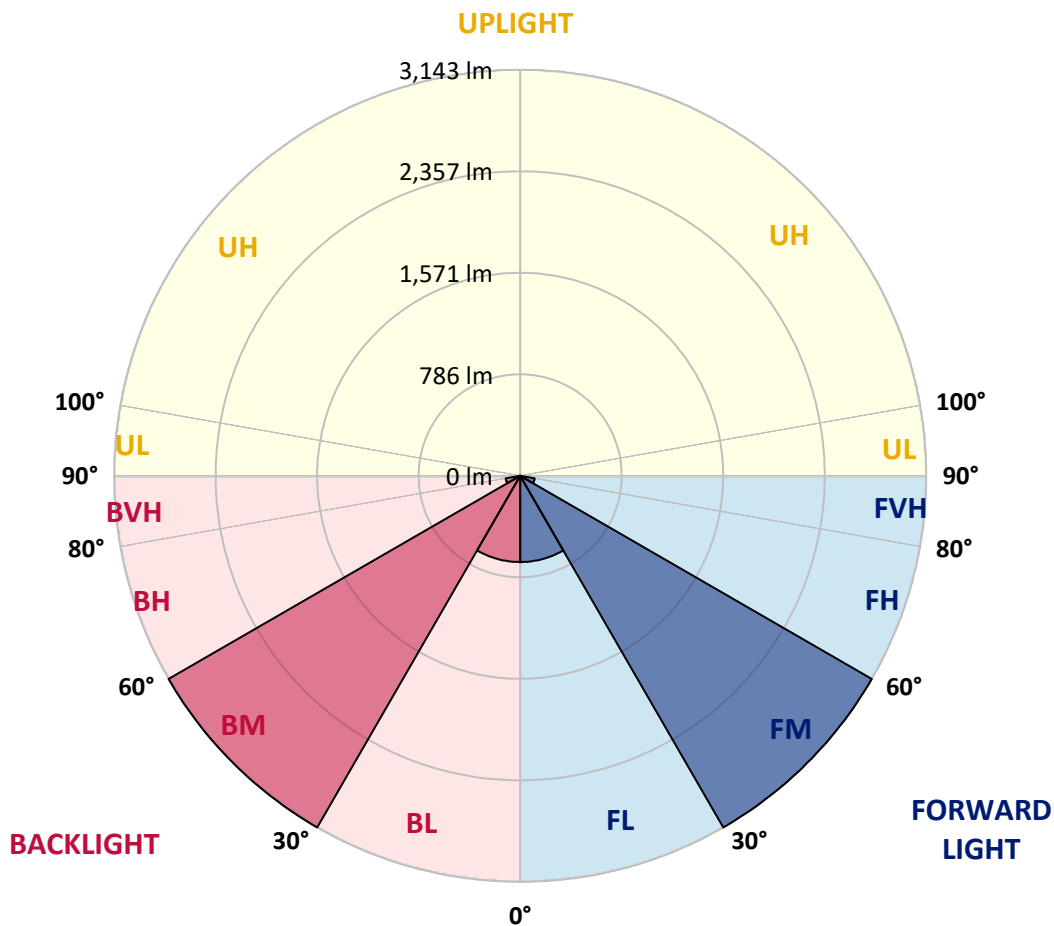
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	667.3	8.5			
FM (30°-60°)	3142.8	40.0			
FH (60°-80°)	114.1	1.5			G0/660
FVH (80°-90°)	3.8	0.0			G0/10
BL (0°-30°)	667.3	8.5	B2/1000		
BM (30°-60°)	3142.8	40.0	B3/5000		
BH (60°-80°)	114.1	1.5	B1/500		G0/660
BVH (80°-90°)	3.8	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°	1288.1	1288.1	1288.1	1288.1	1288.1	1288.1	1288.1	1288.1	1288.1	1288.1	1288.1
2.5°	1294.4	1301.8	1296.9	1300.6	1300.6	1294.4	1298.1	1283.2	1293.1	1285.7	1286.9
5°	1314.3	1313.0	1313.0	1314.3	1309.3	1311.8	1306.8	1301.8	1298.1	1293.1	1308.1
7.5°	1339.2	1339.2	1330.5	1332.9	1330.5	1334.2	1324.2	1314.3	1310.5	1306.8	1304.3
10°	1362.8	1360.3	1356.6	1367.8	1359.1	1354.1	1349.1	1342.9	1329.2	1324.2	1319.3
12.5°	1397.7	1396.4	1391.4	1402.6	1397.7	1402.6	1384.0	1367.8	1365.3	1349.1	1357.8
15°	1438.7	1449.9	1441.2	1441.2	1438.7	1432.5	1425.0	1417.6	1395.2	1389.0	1390.2
17.5°	1492.3	1488.5	1489.8	1489.8	1502.2	1486.0	1471.1	1452.4	1441.2	1437.5	1425.0
20°	1543.3	1548.3	1547.0	1555.7	1563.2	1545.8	1529.6	1527.1	1496.0	1501.0	1483.5
22.5°	1632.9	1629.2	1635.4	1641.6	1636.6	1634.1	1619.2	1600.5	1573.1	1560.7	1558.2
25°	1727.5	1721.3	1710.1	1725.0	1732.5	1743.7	1715.0	1705.1	1662.8	1644.1	1645.3
27.5°	1808.4	1817.1	1829.5	1835.8	1854.4	1850.7	1830.8	1798.4	1766.1	1744.9	1731.2
30°	1919.1	1924.1	1945.3	1954.0	1986.3	1995.1	1963.9	1926.6	1869.4	1842.0	1825.8
32.5°	2021.2	2056.0	2054.8	2098.4	2150.6	2186.7	2130.7	2073.5	2016.2	1983.9	1955.2
35°	2186.7	2180.5	2216.6	2262.6	2347.3	2388.3	2327.4	2261.4	2174.3	2122.0	2099.6
37.5°	2341.1	2343.5	2392.1	2465.5	2562.6	2626.1	2572.5	2464.3	2374.7	2307.4	2276.3
40°	2565.1	2570.1	2619.8	2703.2	2812.7	2881.2	2819.0	2709.4	2590.0	2537.7	2537.7
42.5°	2827.7	2848.8	2881.2	2953.4	3051.7	3127.6	3071.6	2985.7	2865.0	2797.8	2807.8
45°	3097.8	3107.7	3128.9	3235.9	3282.0	3319.3	3267.0	3227.2	3146.3	3064.2	3050.5
47.5°	3350.4	3354.1	3416.4	3450.0	3486.1	3455.0	3488.6	3436.3	3345.4	3265.8	3249.6
50°	3462.4	3456.2	3544.6	3646.6	3674.0	3619.2	3590.6	3555.8	3417.6	3321.8	3279.5
52.5°	3136.3	3172.4	3336.7	3620.5	3834.5	3880.6	3713.8	3553.3	3295.6	3109.0	3080.3
54°	2763.0	2796.6	2932.2	3352.9	3798.5	3954.0	3685.2	3344.2	2980.8	2759.2	2730.6
55°	2393.3	2356.0	2602.4	3031.8	3629.2	3889.3	3571.9	3074.1	2658.4	2455.6	2415.7
57.5°	1295.6	1301.8	1509.7	1915.4	2550.1	2982.0	2633.5	2079.7	1570.7	1342.9	1323.0
60°	410.7	420.7	511.5	774.1	1218.4	1454.9	1247.1	835.1	577.5	463.0	444.3
62.5°	128.2	133.2	145.6	216.6	333.5	476.7	373.4	224.0	166.8	153.1	155.6
65°	78.4	78.4	79.7	84.6	99.6	115.7	112.0	98.3	94.6	92.1	90.9
67.5°	51.0	49.8	52.3	56.0	58.5	59.7	63.5	67.2	66.0	63.5	63.5
70°	31.1	29.9	32.4	37.3	38.6	41.1	44.8	49.8	48.5	46.0	47.3
72.5°	17.4	17.4	18.7	22.4	26.1	28.6	32.4	36.1	37.3	36.1	36.1
75°	6.2	7.5	10.0	13.7	16.2	19.9	23.6	27.4	31.1	28.6	27.4
77.5°	2.5	2.5	5.0	8.7	12.4	16.2	22.4	26.1	28.6	26.1	23.6
80°	1.2	1.2	3.7	7.5	11.2	14.9	18.7	22.4	23.6	21.2	18.7
82.5°	1.2	1.2	3.7	7.5	11.2	13.7	19.9	22.4	24.9	22.4	18.7
85°	0.0	1.2	3.7	7.5	10.0	11.2	11.2	7.5	6.2	3.7	3.7
87.5°	0.0	0.0	1.2	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)