

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: P647258

Luminaire Tested: **GALN-SA2D-835-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647258  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-835-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12712 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

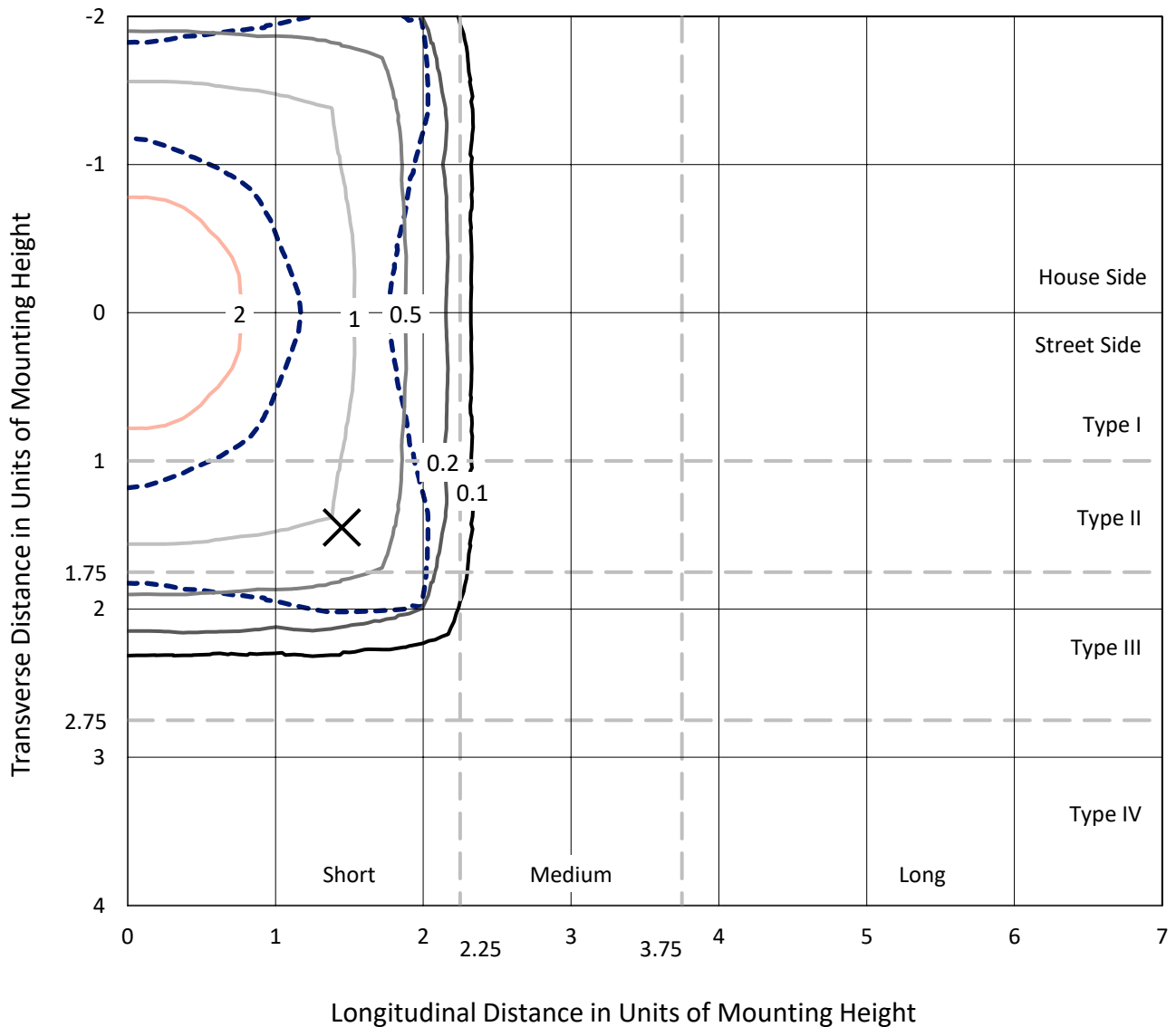
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

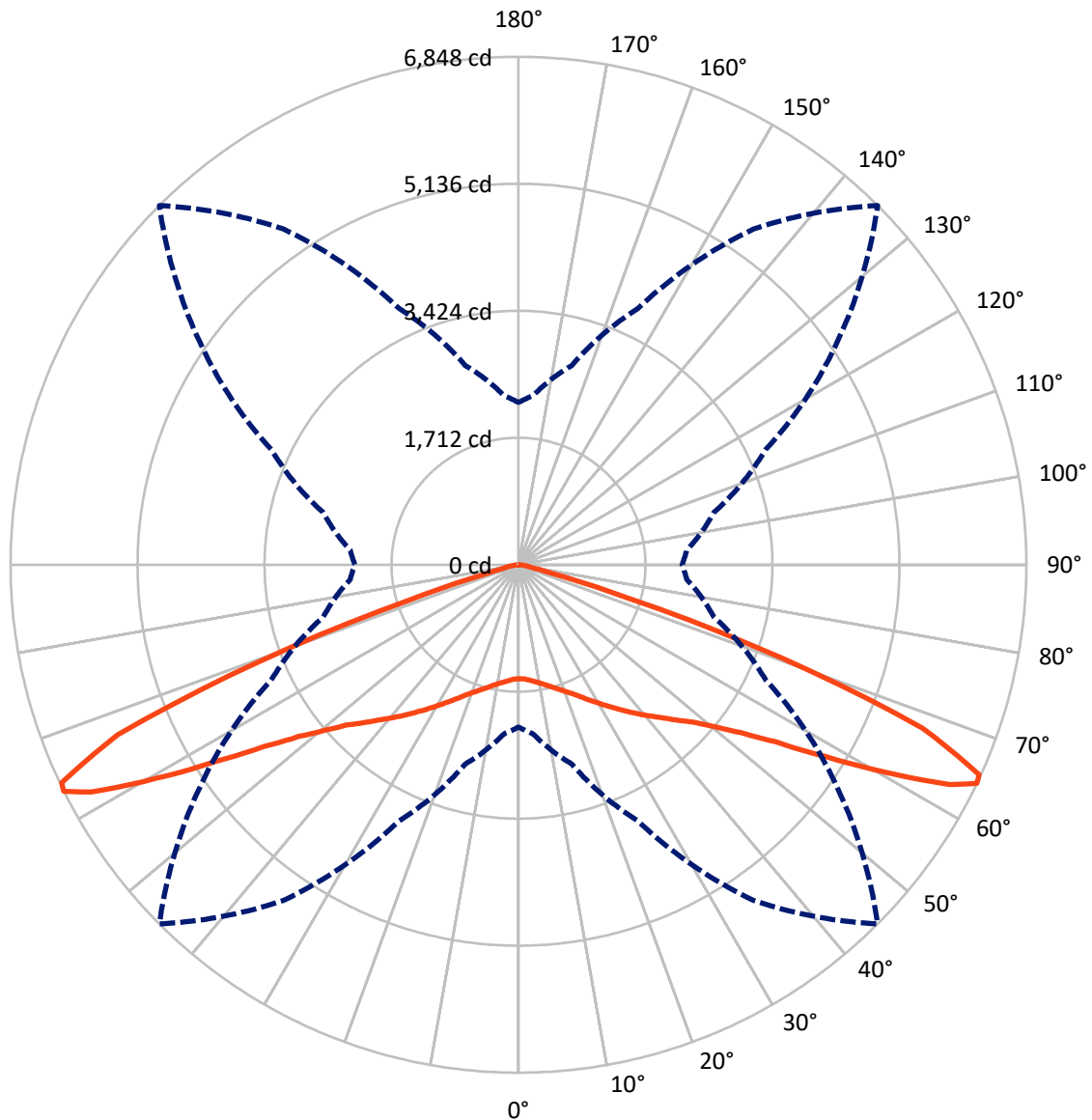
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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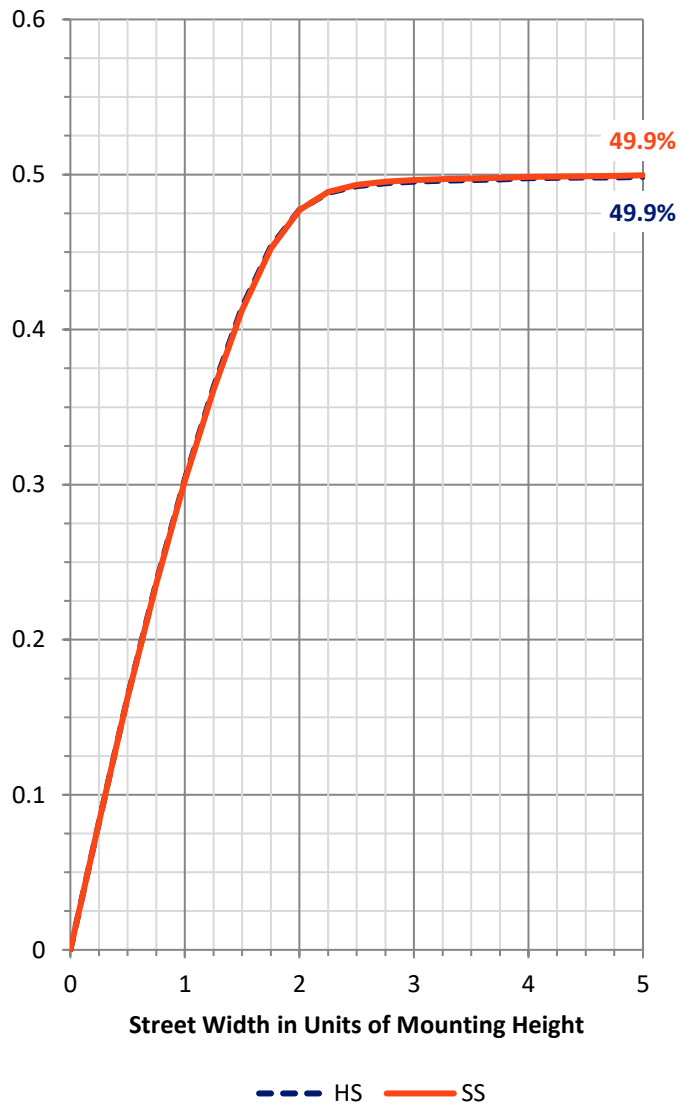
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6356.0	0.0	6356.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6356.0	0.0	6356.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12712.0	0.0	12712.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.9	1.2
10°-20°	486.9	3.8
20°-30°	920.1	7.2
30°-40°	1523.8	12.0
40°-50°	2378.9	18.7
50°-60°	3677.7	28.9
60°-70°	3171.2	24.9
70°-80°	359.4	2.8
80°-90°	43.1	0.3
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°	12712.0	100.0
0°-180°	12712.0	100.0

**Coefficient of Utilization**



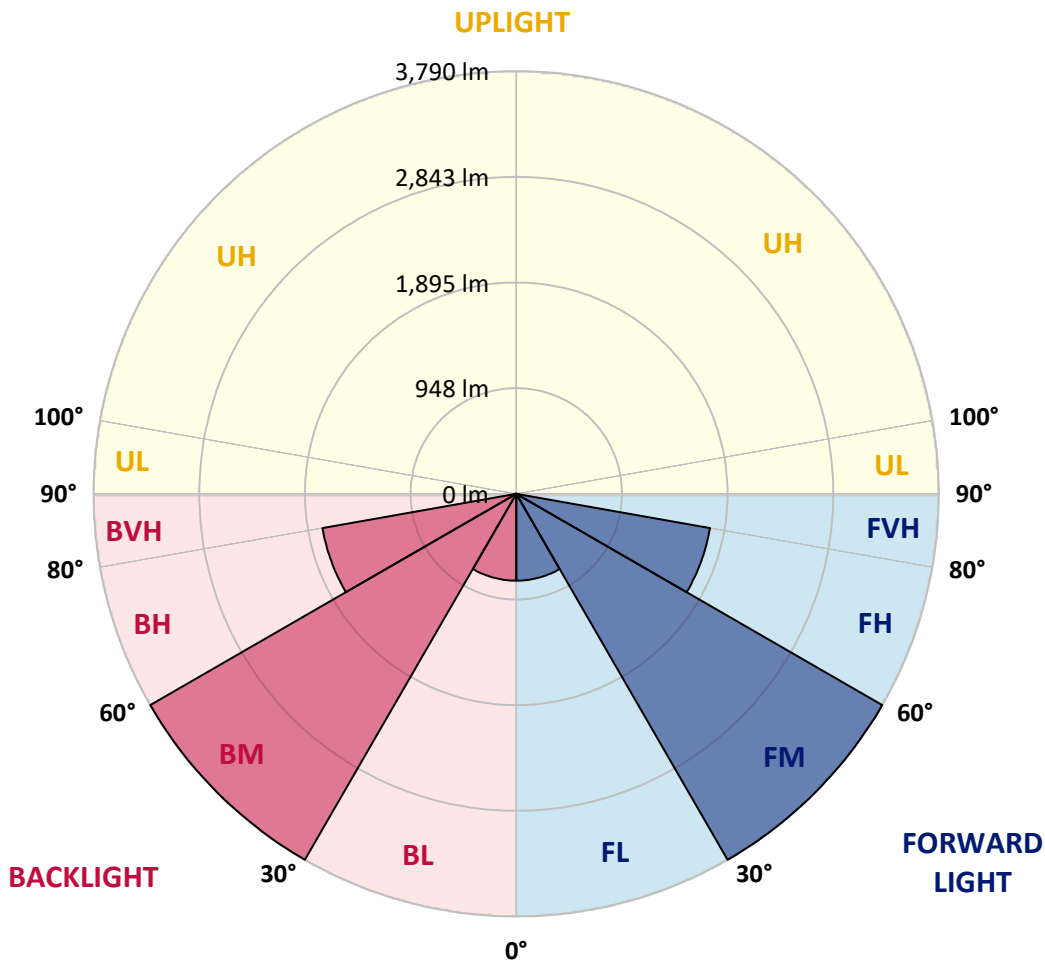
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	779.0	6.1			
FM (30°-60°)	3790.2	29.8			
FH (60°-80°)	1765.3	13.9			G1/1800
FVH (80°-90°)	21.5	0.2			G1/100
BL (0°-30°)	779.0	6.1	B2/1000		
BM (30°-60°)	3790.2	29.8	B3/5000		
BH (60°-80°)	1765.3	13.9	B3/2500		G1/1800
BVH (80°-90°)	21.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5	1536.5
2.5°	1542.5	1545.9	1543.2	1542.5	1541.9	1541.9	1541.9	1542.5	1545.3	1547.2	1545.9
5°	1562.0	1564.7	1563.4	1562.7	1562.0	1562.7	1561.4	1560.7	1562.7	1562.7	1562.0
7.5°	1586.3	1589.6	1588.3	1589.6	1590.4	1591.0	1587.6	1584.9	1584.2	1586.3	1584.9
10°	1619.2	1622.0	1622.6	1623.3	1624.6	1624.0	1619.9	1615.3	1614.5	1613.9	1613.2
12.5°	1656.3	1658.3	1659.0	1661.7	1663.7	1664.4	1659.6	1655.7	1648.9	1650.3	1647.6
15°	1698.0	1702.1	1701.4	1705.5	1710.9	1712.2	1707.5	1700.8	1694.6	1691.3	1689.3
17.5°	1749.2	1751.9	1750.6	1754.6	1761.4	1764.7	1760.7	1751.9	1745.9	1738.4	1734.4
20°	1809.8	1814.5	1815.9	1815.9	1822.0	1825.3	1819.2	1816.6	1807.1	1801.8	1798.4
22.5°	1878.5	1880.5	1884.5	1888.6	1894.6	1893.3	1891.3	1887.3	1878.5	1873.8	1868.4
25°	1955.9	1958.0	1968.1	1976.8	1978.8	1977.5	1974.8	1972.8	1964.7	1953.9	1949.8
27.5°	2046.1	2050.2	2063.7	2071.7	2071.7	2072.4	2067.0	2073.8	2056.2	2043.5	2042.1
30°	2159.3	2161.9	2173.4	2181.4	2177.4	2174.1	2172.7	2179.5	2160.6	2137.7	2132.3
32.5°	2271.0	2280.5	2290.6	2308.0	2294.0	2287.8	2286.5	2291.2	2269.7	2244.1	2236.7
35°	2390.9	2397.6	2416.5	2431.3	2418.5	2404.4	2410.4	2425.2	2399.7	2365.3	2364.0
37.5°	2523.5	2529.6	2553.8	2569.3	2559.9	2535.7	2545.8	2563.2	2537.6	2495.3	2486.5
40°	2661.6	2674.3	2704.6	2720.8	2705.3	2673.0	2691.8	2710.7	2687.8	2638.6	2619.1
42.5°	2816.4	2836.6	2880.3	2888.4	2858.8	2815.0	2848.0	2878.3	2862.2	2805.6	2798.2
45°	2997.5	3009.6	3063.5	3081.0	3039.9	2985.4	3026.5	3081.7	3069.5	3004.2	2990.1
47.5°	3200.2	3211.6	3267.5	3293.8	3241.9	3168.6	3242.6	3314.6	3307.2	3237.2	3230.5
50°	3439.9	3442.5	3520.0	3549.6	3497.7	3434.5	3500.5	3590.0	3560.4	3470.8	3469.5
52.5°	3702.4	3705.8	3803.4	3860.7	3831.7	3760.4	3838.4	3893.0	3817.6	3700.5	3691.7
55°	3930.0	3946.9	4080.1	4232.3	4272.0	4220.2	4243.8	4218.2	4032.4	3868.1	3842.5
57.5°	4023.0	4055.9	4258.6	4542.7	4801.3	4878.0	4696.2	4452.5	4117.9	3885.6	3860.7
60°	3796.1	3831.7	4146.1	4685.5	5345.3	5678.6	5167.6	4492.2	3923.3	3596.7	3557.7
62.5°	3039.9	3050.0	3512.6	4349.5	5662.4	6525.6	5366.1	4153.6	3357.0	2913.4	2897.9
64°	2187.5	2291.2	2781.4	3813.5	5523.8	6848.1	5251.7	3678.8	2726.9	2277.7	2205.0
65°	1636.1	1664.4	2242.0	3256.7	5279.3	6823.8	5029.5	3225.1	2258.3	1743.2	1662.4
67.5°	618.1	621.5	827.5	1623.3	3758.3	5871.2	3838.4	1754.6	951.3	688.1	663.2
70°	256.5	261.2	303.6	546.1	1615.3	3769.8	1850.9	632.9	348.1	282.1	278.0
72.5°	187.8	190.5	203.3	242.4	496.9	1547.9	608.6	268.6	204.0	182.4	180.5
75°	147.4	148.8	158.2	178.4	231.6	428.9	253.1	184.5	155.5	140.1	138.7
77.5°	112.4	115.8	122.5	136.0	155.5	203.3	167.6	138.0	119.9	107.0	105.0
80°	77.4	81.4	94.3	99.7	104.4	131.9	114.5	104.4	93.6	78.1	73.4
82.5°	47.8	50.5	63.3	68.0	66.0	74.1	73.4	74.7	66.6	48.5	45.1
85°	24.9	26.2	34.4	35.7	33.0	30.3	37.7	43.8	41.1	27.6	26.9
87.5°	5.4	6.0	7.4	6.7	7.4	7.4	9.4	14.2	14.8	9.4	8.8
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)