

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: P452453

Luminaire Tested: **GALN-SA3B-830-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452453  
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-SA3B-830-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14087 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

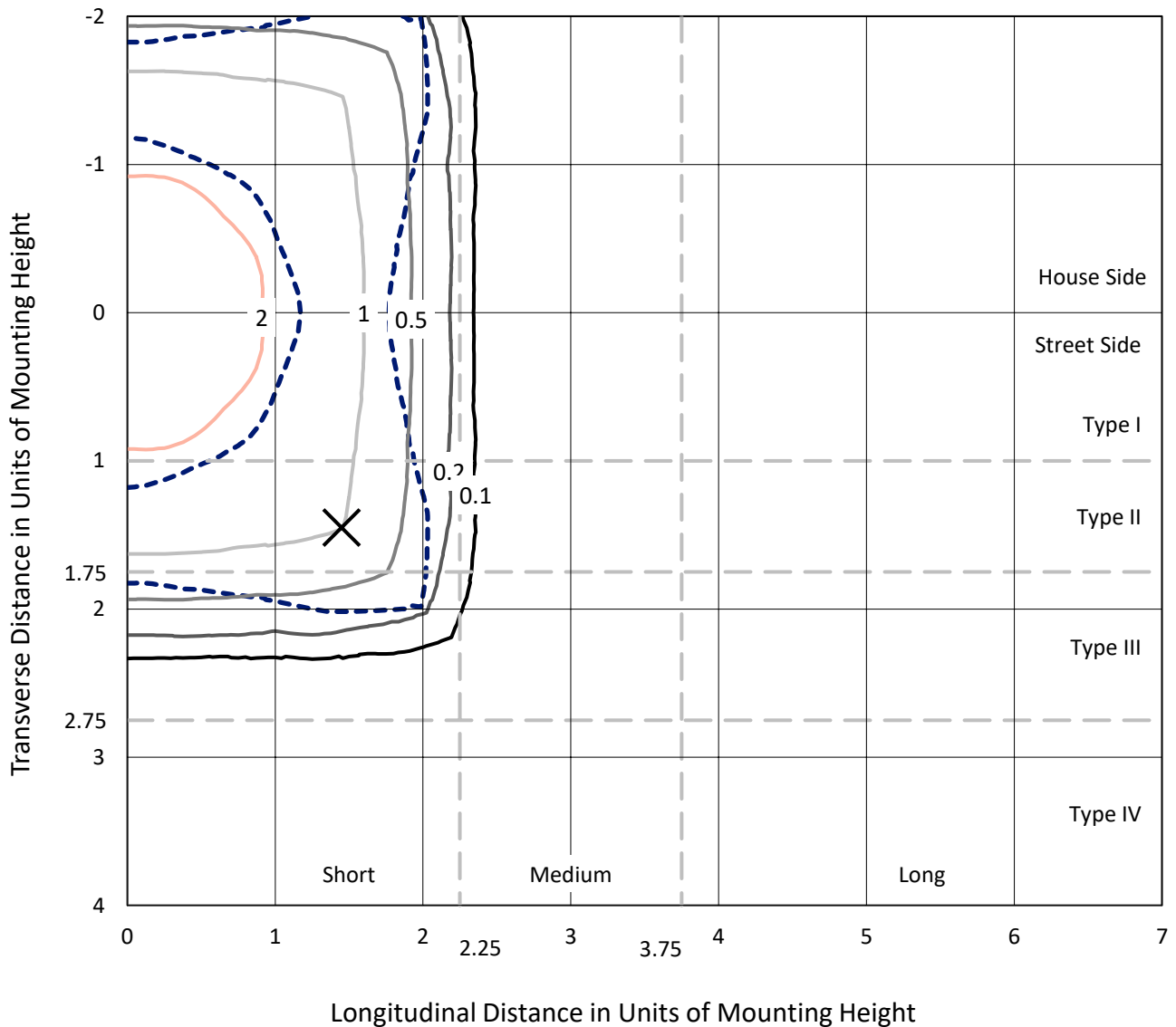
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

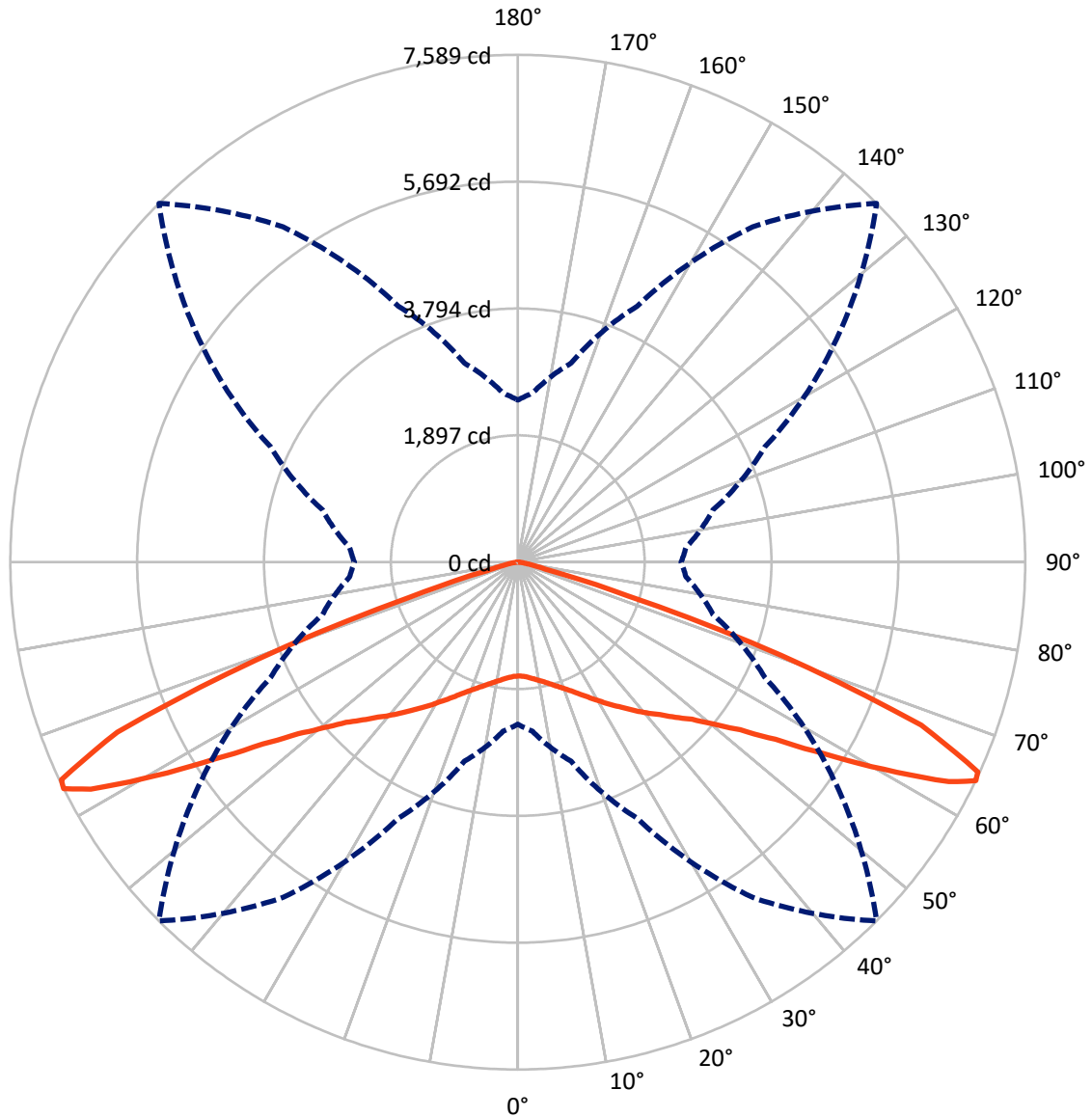
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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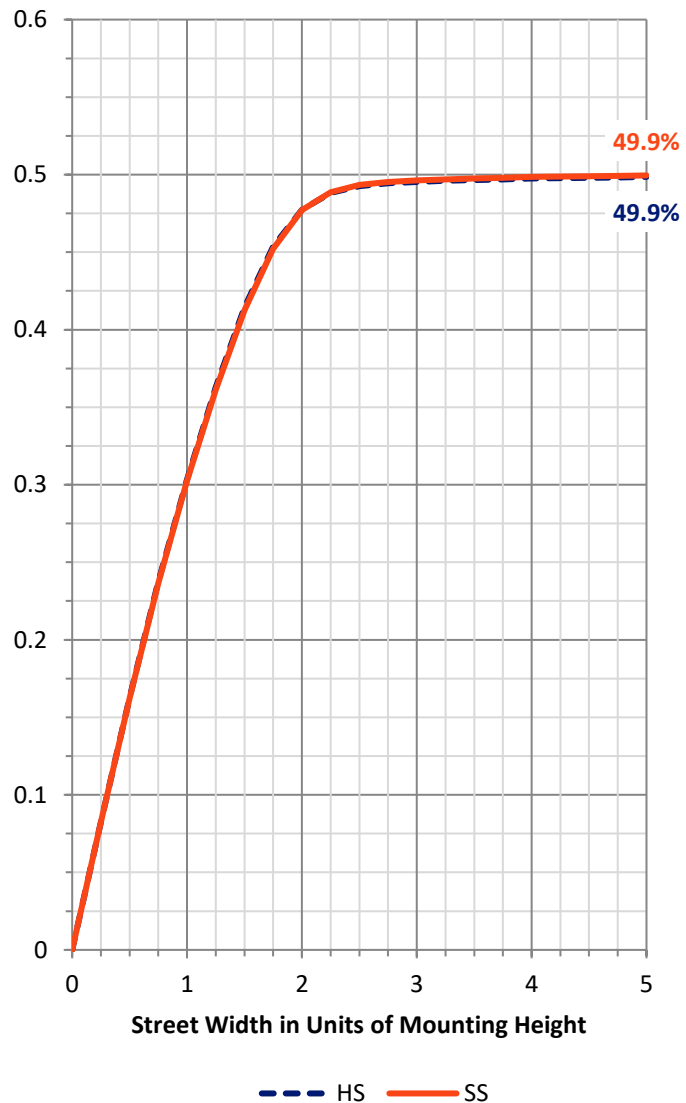
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7043.5	0.0	7043.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7043.5	0.0	7043.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14087.0	0.0	14087.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.3	1.2
10°-20°	539.6	3.8
20°-30°	1019.6	7.2
30°-40°	1688.6	12.0
40°-50°	2636.2	18.7
50°-60°	4075.5	28.9
60°-70°	3514.3	24.9
70°-80°	398.3	2.8
80°-90°	47.7	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°	14087.0	100.0
0°-180°	14087.0	100.0

**Coefficient of Utilization**



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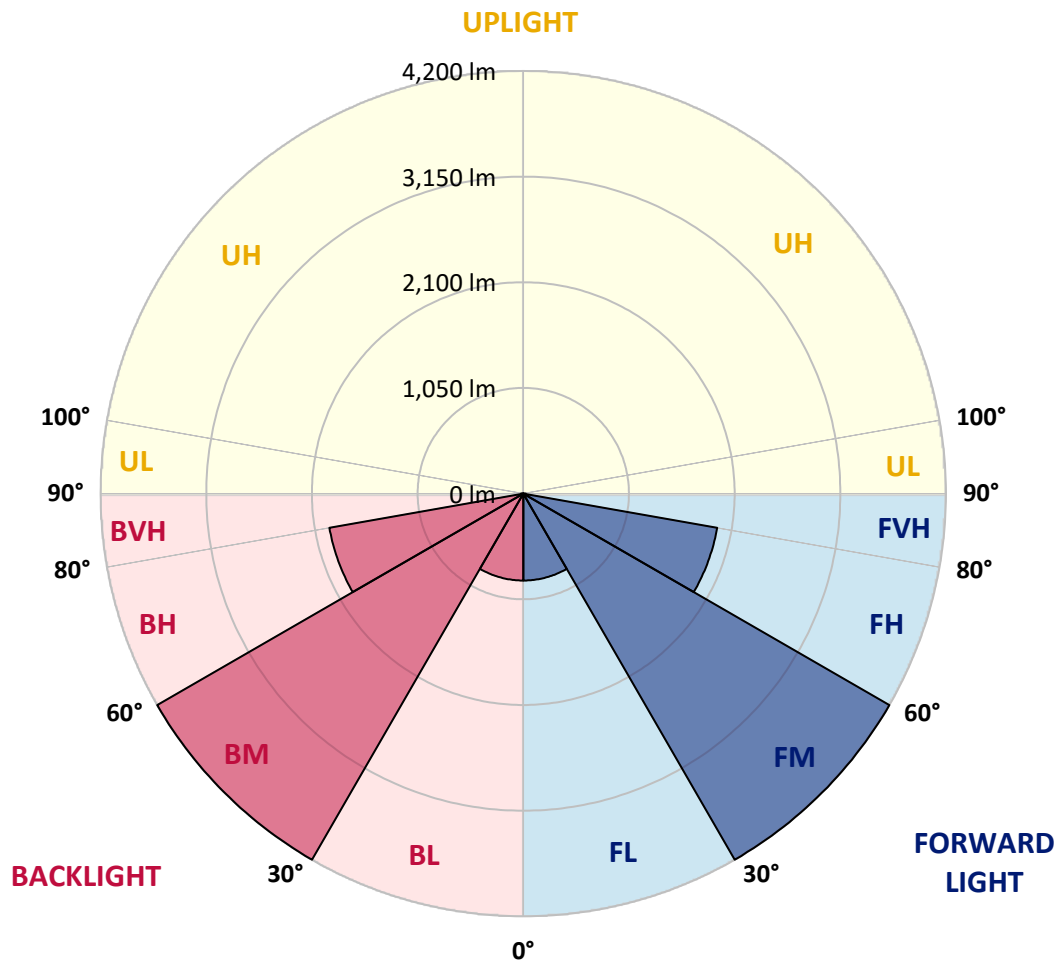
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	863.2	6.1			
FM (30°-60°)	4200.2	29.8			
FH (60°-80°)	1956.3	13.9			G2/5000
FVH (80°-90°)	23.9	0.2			G1/100
BL (0°-30°)	863.2	6.1	B2/1000		
BM (30°-60°)	4200.2	29.8	B3/5000		
BH (60°-80°)	1956.3	13.9	B3/2500		G2/5000
BVH (80°-90°)	23.9	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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1702.7	1702.7	1702.7	1702.7	1702.7	1702.7	1702.7	1702.7	1702.7	1702.7	1702.7
2.5°	1709.4	1713.1	1710.1	1709.4	1708.6	1708.6	1708.6	1709.4	1712.4	1714.6	1713.1
5°	1731.0	1734.0	1732.5	1731.7	1731.0	1731.7	1730.3	1729.5	1731.7	1731.7	1731.0
7.5°	1757.9	1761.6	1760.1	1761.6	1762.3	1763.1	1759.4	1756.4	1755.6	1757.9	1756.4
10°	1794.4	1797.4	1798.2	1798.9	1800.4	1799.6	1795.2	1789.9	1789.2	1788.5	1787.7
12.5°	1835.5	1837.7	1838.4	1841.4	1843.7	1844.4	1839.2	1834.7	1827.3	1828.7	1825.8
15°	1881.7	1886.2	1885.5	1889.9	1895.9	1897.4	1892.2	1884.7	1878.0	1874.3	1872.0
17.5°	1938.4	1941.4	1939.9	1944.4	1951.9	1955.6	1951.1	1941.4	1934.7	1926.5	1922.0
20°	2005.6	2010.8	2012.3	2012.3	2019.0	2022.7	2016.0	2013.0	2002.6	1996.6	1992.9
22.5°	2081.7	2083.9	2088.4	2092.9	2099.6	2098.1	2095.9	2091.4	2081.7	2076.5	2070.5
25°	2167.5	2169.7	2180.9	2190.6	2192.9	2191.4	2188.4	2186.1	2177.2	2165.2	2160.8
27.5°	2267.5	2271.9	2286.9	2295.8	2295.8	2296.6	2290.6	2298.1	2278.7	2264.5	2263.0
30°	2392.8	2395.8	2408.5	2417.4	2413.0	2409.2	2407.7	2415.2	2394.3	2368.9	2363.0
32.5°	2516.7	2527.1	2538.3	2557.7	2542.0	2535.3	2533.8	2539.1	2515.2	2486.8	2478.6
35°	2649.5	2656.9	2677.8	2694.2	2680.1	2664.4	2671.1	2687.5	2659.2	2621.1	2619.6
37.5°	2796.5	2803.2	2830.0	2847.2	2836.8	2809.9	2821.1	2840.5	2812.1	2765.1	2755.4
40°	2949.4	2963.6	2997.2	3015.1	2997.9	2962.1	2983.0	3003.9	2978.5	2924.1	2902.4
42.5°	3121.0	3143.4	3191.9	3200.9	3168.0	3119.5	3156.1	3189.7	3171.8	3109.1	3100.9
45°	3321.7	3335.2	3394.9	3414.3	3368.7	3308.3	3353.8	3415.0	3401.6	3329.2	3313.5
47.5°	3546.3	3559.0	3620.9	3650.0	3592.6	3511.3	3593.3	3673.2	3665.0	3587.4	3579.9
50°	3811.9	3814.9	3900.7	3933.6	3876.1	3806.0	3879.1	3978.3	3945.5	3846.3	3844.8
52.5°	4102.9	4106.7	4214.8	4278.3	4246.2	4167.1	4253.6	4314.1	4230.5	4100.7	4091.0
55°	4355.1	4373.8	4521.5	4690.1	4734.1	4676.7	4702.8	4674.5	4468.5	4286.5	4258.1
57.5°	4458.1	4494.6	4719.2	5034.1	5320.6	5405.7	5204.2	4934.1	4563.3	4305.9	4278.3
60°	4206.6	4246.2	4594.6	5192.3	5923.5	6292.8	5726.5	4978.1	4347.7	3985.8	3942.5
62.5°	3368.7	3379.9	3892.5	4819.9	6274.9	7231.4	5946.6	4602.8	3720.2	3228.5	3211.3
64°	2424.2	2539.1	3082.2	4226.0	6121.2	7588.8	5819.8	4076.8	3021.8	2524.1	2443.6
65°	1813.1	1844.4	2484.6	3609.0	5850.3	7561.9	5573.5	3573.9	2502.5	1931.7	1842.2
67.5°	684.9	688.7	917.0	1798.9	4164.9	6506.2	4253.6	1944.4	1054.3	762.5	734.9
70°	284.3	289.5	336.5	605.1	1789.9	4177.5	2051.1	701.4	385.7	312.6	308.1
72.5°	208.2	211.2	225.3	268.6	550.6	1715.3	674.5	297.7	226.1	202.2	200.0
75°	163.4	164.9	175.3	197.7	256.7	475.3	280.5	204.4	172.4	155.2	153.7
77.5°	124.6	128.3	135.8	150.7	172.4	225.3	185.8	153.0	132.8	118.6	116.4
80°	85.8	90.3	104.5	110.4	115.6	146.2	126.8	115.6	103.7	86.6	81.3
82.5°	53.0	56.0	70.1	75.4	73.1	82.1	81.3	82.8	73.9	53.7	50.0
85°	27.6	29.1	38.1	39.5	36.6	33.6	41.8	48.5	45.5	30.6	29.8
87.5°	6.0	6.7	8.2	7.5	8.2	8.2	10.4	15.7	16.4	10.4	9.7
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)