

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: P528769

Luminaire Tested: **GALN-SA3D-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528769  
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-SA3D-827-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 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: 11662 lumens  
Efficiency: N/A  
Efficacy: 63.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

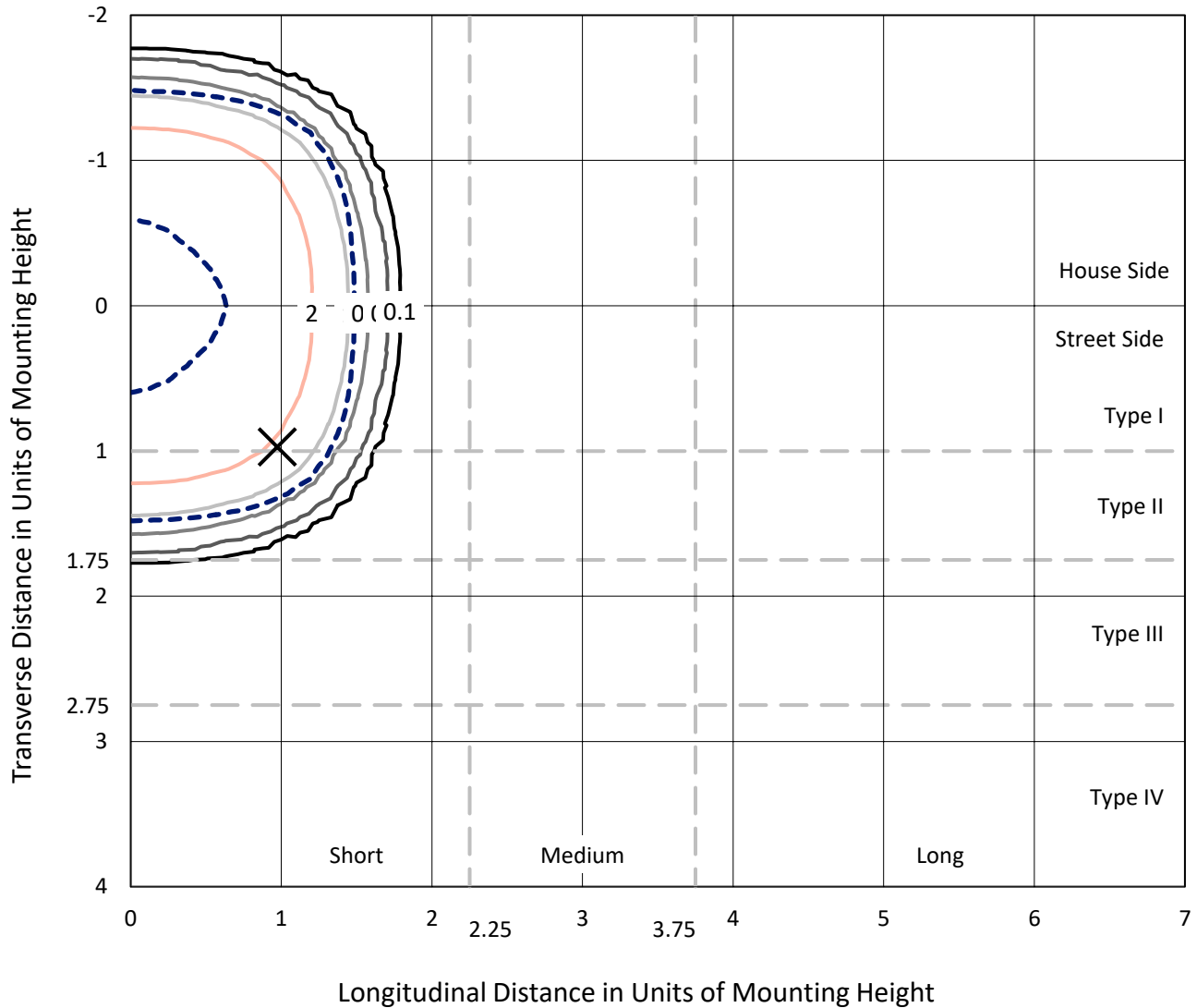
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

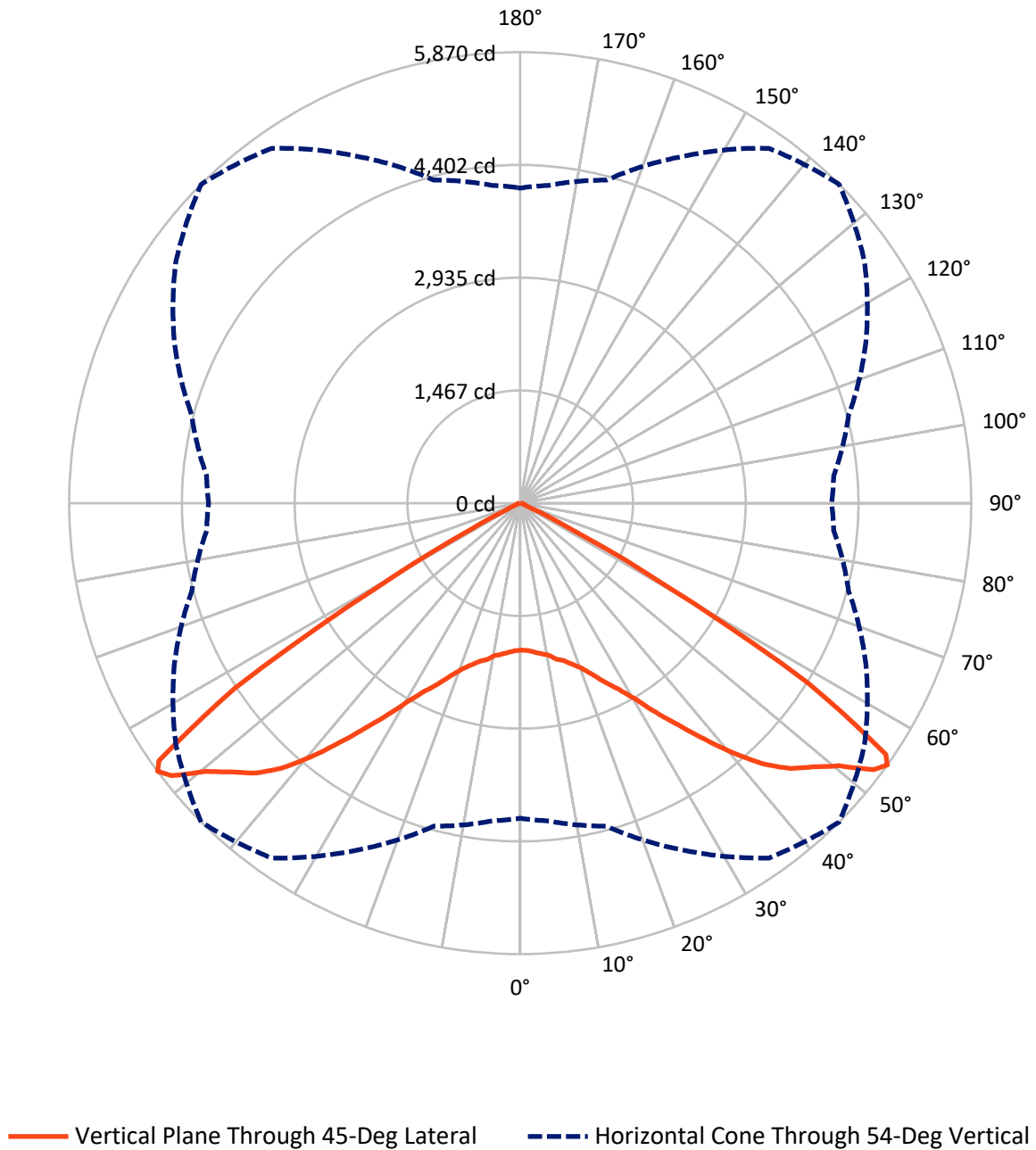
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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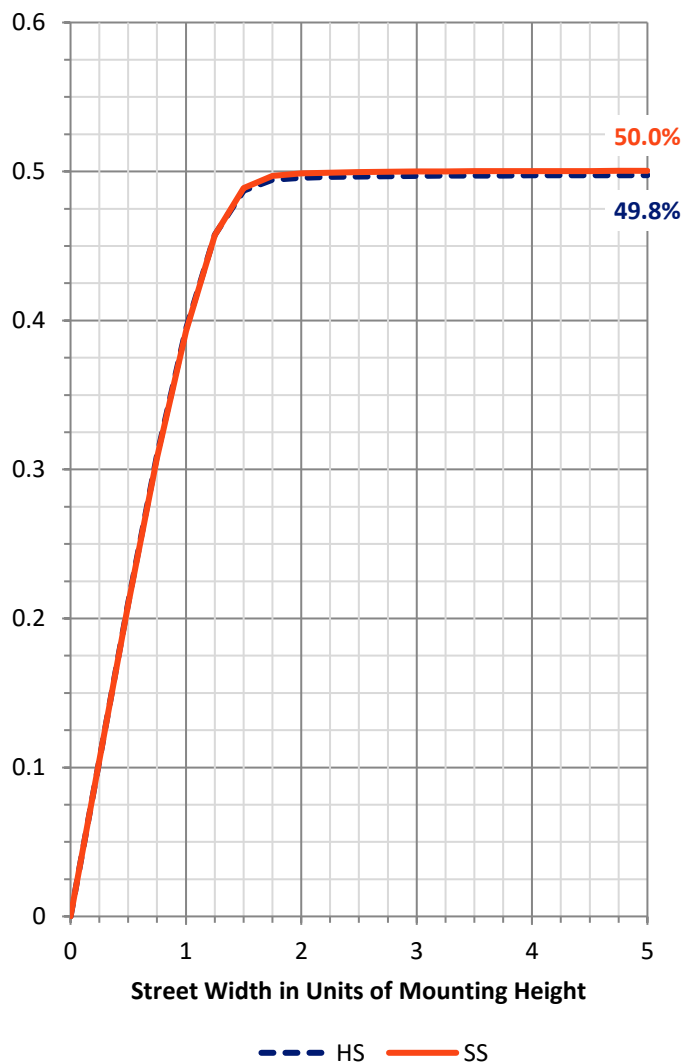
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5831.0	0.0	5831.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5831.0	0.0	5831.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11662.0	0.0	11662.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.2	1.6
10°-20°	606.1	5.2
20°-30°	1187.9	10.2
30°-40°	2136.1	18.3
40°-50°	3656.6	31.4
50°-60°	3538.1	30.3
60°-70°	302.9	2.6
70°-80°	35.9	0.3
80°-90°	11.3	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°	11662.0	100.0
0°-180°	11662.0	100.0

**Coefficient of Utilization**

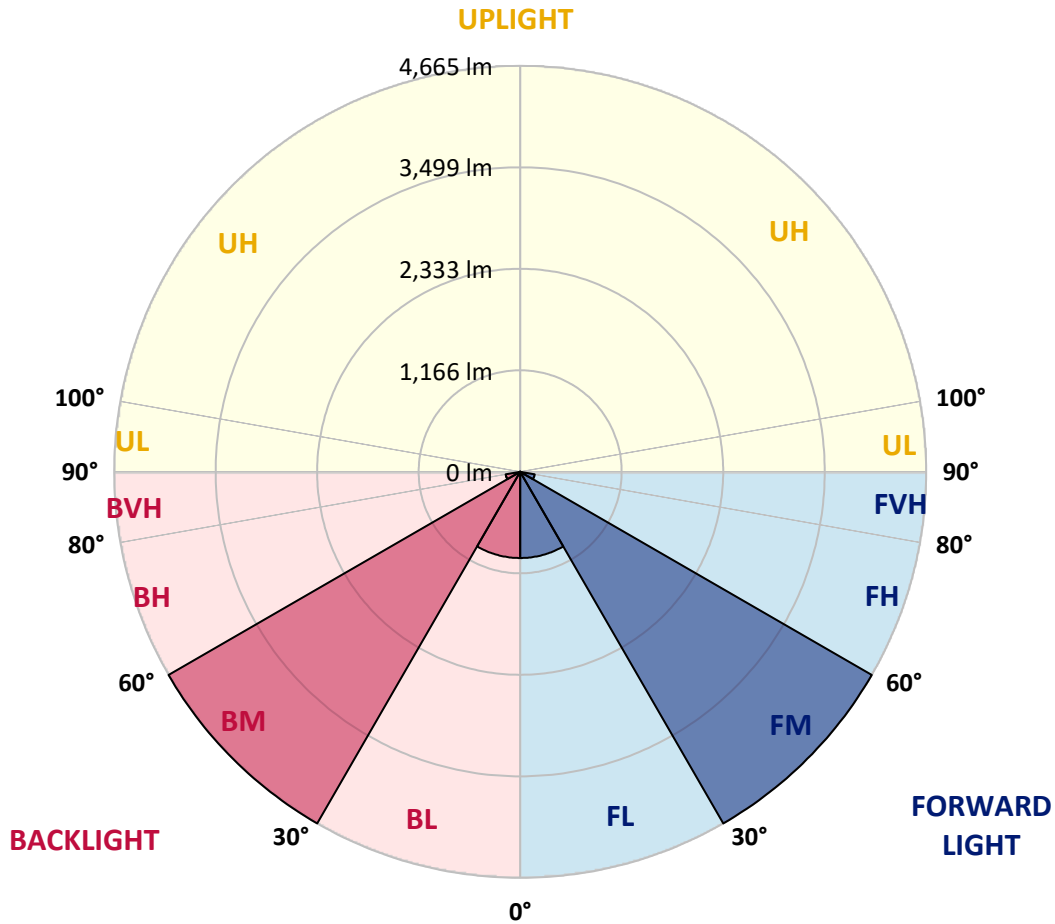


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	990.6	8.5			
FM (30°-60°)	4665.4	40.0			
FH (60°-80°)	169.4	1.5			G0/660
FVH (80°-90°)	5.6	0.0			G0/10
BL (0°-30°)	990.6	8.5	B2/1000		
BM (30°-60°)	4665.4	40.0	B3/5000		
BH (60°-80°)	169.4	1.5	B1/500		G0/660
BVH (80°-90°)	5.6	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°	1912.2	1912.2	1912.2	1912.2	1912.2	1912.2	1912.2	1912.2	1912.2	1912.2	1912.2
2.5°	1921.4	1932.5	1925.1	1930.7	1930.7	1921.4	1927.0	1904.8	1919.6	1908.5	1910.4
5°	1951.0	1949.2	1949.2	1951.0	1943.6	1947.3	1939.9	1932.5	1927.0	1919.6	1941.8
7.5°	1988.0	1988.0	1975.0	1978.7	1975.0	1980.6	1965.8	1951.0	1945.5	1939.9	1936.2
10°	2023.1	2019.4	2013.8	2030.4	2017.5	2010.1	2002.7	1993.5	1973.2	1965.8	1958.4
12.5°	2074.8	2072.9	2065.6	2082.2	2074.8	2082.2	2054.5	2030.4	2026.8	2002.7	2015.7
15°	2135.8	2152.4	2139.5	2139.5	2135.8	2126.5	2115.4	2104.3	2071.1	2061.9	2063.7
17.5°	2215.2	2209.7	2211.5	2211.5	2230.0	2206.0	2183.8	2156.1	2139.5	2133.9	2115.4
20°	2291.0	2298.3	2296.5	2309.4	2320.5	2294.6	2270.6	2266.9	2220.7	2228.1	2202.3
22.5°	2424.0	2418.4	2427.7	2436.9	2429.5	2425.8	2403.7	2375.9	2335.3	2316.8	2313.1
25°	2564.4	2555.1	2538.5	2560.7	2571.8	2588.4	2545.9	2531.1	2468.3	2440.6	2442.4
27.5°	2684.5	2697.4	2715.9	2725.1	2752.8	2747.3	2717.7	2669.7	2621.7	2590.3	2569.9
30°	2848.9	2856.3	2887.7	2900.6	2948.7	2961.6	2915.4	2860.0	2775.0	2734.4	2710.3
32.5°	3000.4	3052.1	3050.3	3115.0	3192.6	3246.1	3163.0	3078.0	2993.0	2945.0	2902.5
35°	3246.1	3236.9	3290.5	3358.8	3484.5	3545.4	3454.9	3357.0	3227.7	3150.1	3116.8
37.5°	3475.2	3478.9	3551.0	3660.0	3804.1	3898.3	3818.9	3658.1	3525.1	3425.3	3379.2
40°	3807.8	3815.2	3889.1	4012.9	4175.4	4277.1	4184.7	4022.1	3844.7	3767.1	3767.1
42.5°	4197.6	4229.0	4277.1	4384.2	4530.2	4642.9	4559.7	4432.3	4253.0	4153.3	4168.1
45°	4598.5	4613.3	4644.7	4803.6	4872.0	4927.4	4849.8	4790.7	4670.6	4548.6	4528.3
47.5°	4973.6	4979.1	5071.5	5121.4	5175.0	5128.8	5178.7	5101.1	4966.2	4847.9	4823.9
50°	5139.9	5130.6	5261.8	5413.3	5453.9	5372.6	5330.2	5278.4	5073.3	4931.1	4868.3
52.5°	4655.8	4709.4	4953.3	5374.5	5692.3	5760.6	5513.1	5274.7	4892.3	4615.2	4572.7
54°	4101.5	4151.4	4352.8	4977.3	5638.7	5869.6	5470.6	4964.3	4424.9	4096.0	4053.5
55°	3552.8	3497.4	3863.2	4500.6	5387.4	5773.6	5302.4	4563.4	3946.3	3645.2	3586.1
57.5°	1923.3	1932.5	2241.1	2843.4	3785.6	4426.7	3909.4	3087.2	2331.6	1993.5	1963.9
60°	609.7	624.5	759.3	1149.2	1808.7	2159.8	1851.2	1239.7	857.3	687.3	659.6
62.5°	190.3	197.7	216.2	321.5	495.1	707.6	554.3	332.6	247.6	227.2	230.9
65°	116.4	116.4	118.2	125.6	147.8	171.8	166.3	146.0	140.4	136.7	134.9
67.5°	75.7	73.9	77.6	83.1	86.8	88.7	94.2	99.8	97.9	94.2	94.2
70°	46.2	44.3	48.0	55.4	57.3	61.0	66.5	73.9	72.1	68.4	70.2
72.5°	25.9	25.9	27.7	33.3	38.8	42.5	48.0	53.6	55.4	53.6	53.6
75°	9.2	11.1	14.8	20.3	24.0	29.6	35.1	40.6	46.2	42.5	40.6
77.5°	3.7	3.7	7.4	12.9	18.5	24.0	33.3	38.8	42.5	38.8	35.1
80°	1.8	1.8	5.5	11.1	16.6	22.2	27.7	33.3	35.1	31.4	27.7
82.5°	1.8	1.8	5.5	11.1	16.6	20.3	29.6	33.3	37.0	33.3	27.7
85°	0.0	1.8	5.5	11.1	14.8	16.6	16.6	11.1	9.2	5.5	5.5
87.5°	0.0	0.0	1.8	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)