

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: P452671

Luminaire Tested: **GALN-SA3C-827-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452671  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-827-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15401 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

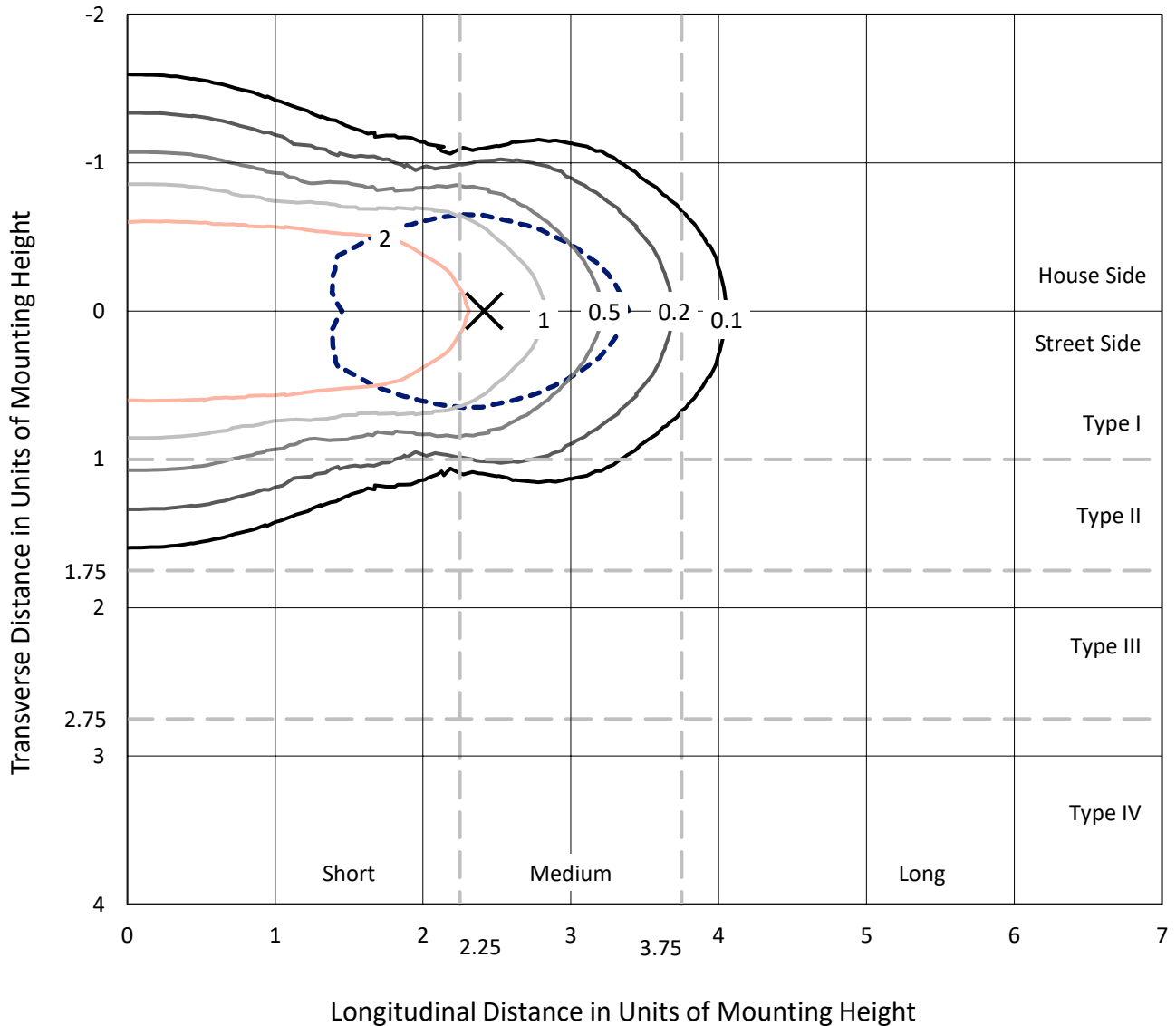
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

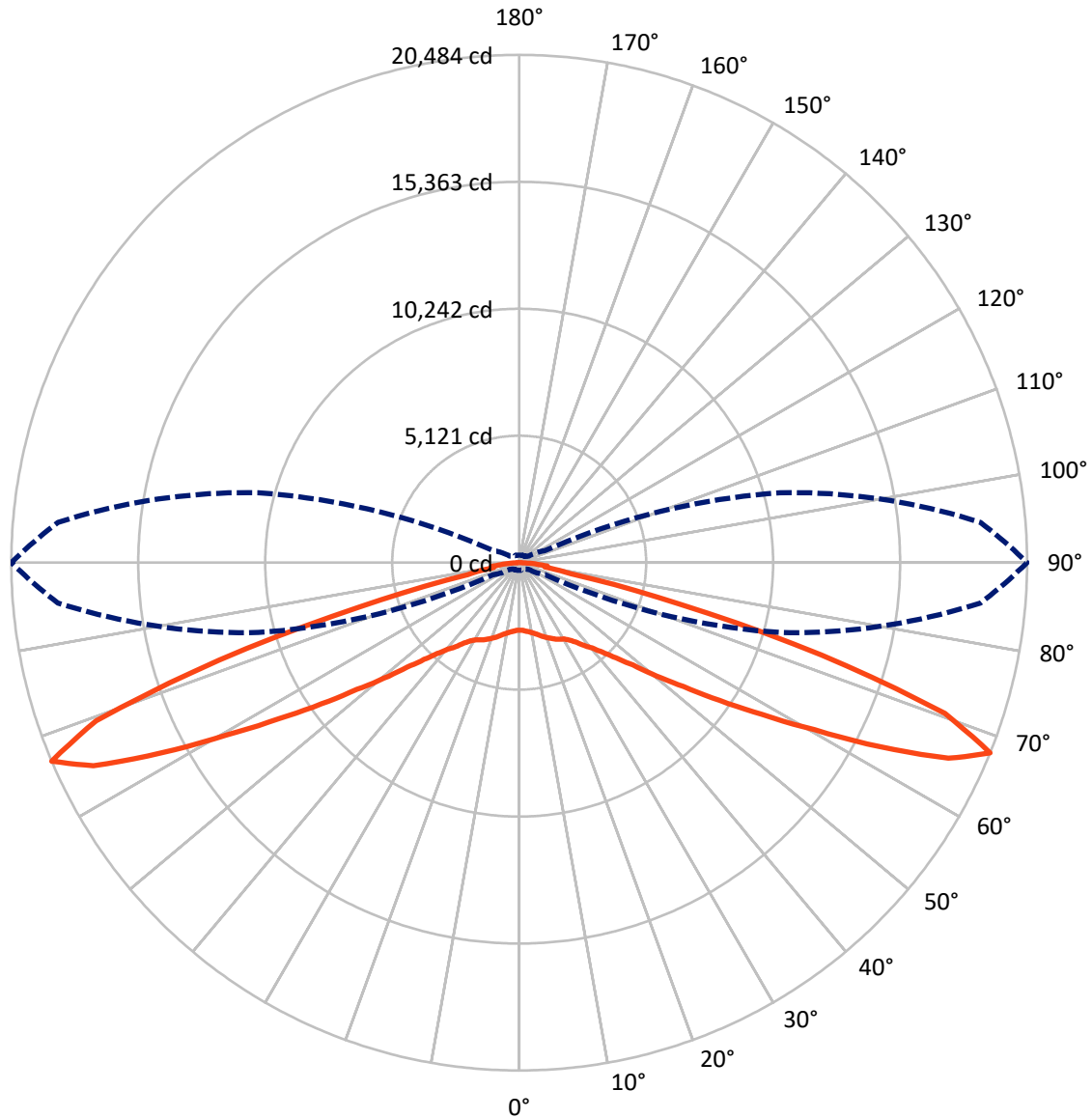
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7700.5	0.0	7700.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7700.5	0.0	7700.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15401.0	0.0	15401.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.8	1.8
10°-20°	869.7	5.6
20°-30°	1455.7	9.5
30°-40°	1972.0	12.8
40°-50°	2497.9	16.2
50°-60°	3120.5	20.3
60°-70°	3668.0	23.8
70°-80°	1403.2	9.1
80°-90°	142.2	0.9
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°	15401.0	100.0
0°-180°	15401.0	100.0



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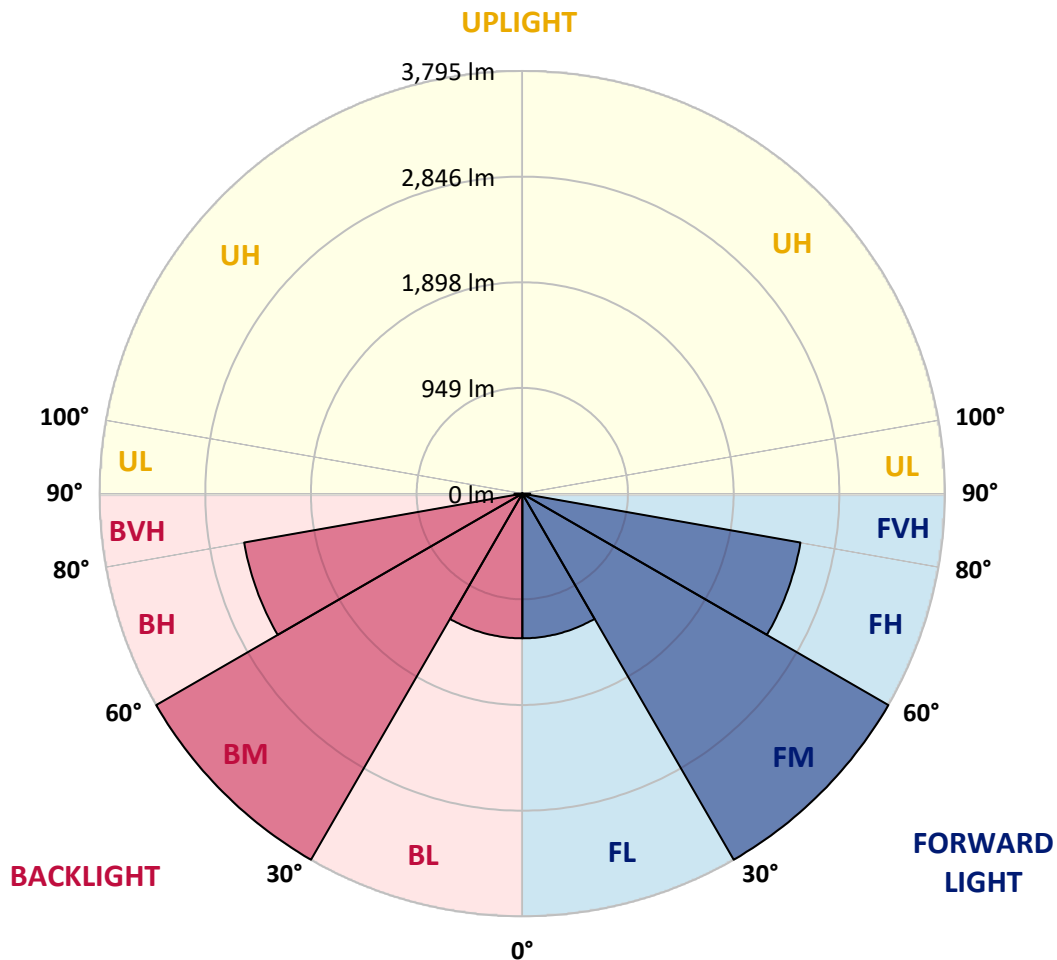
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1298.6	8.4			
FM (30°-60°)	3795.2	24.6			
FH (60°-80°)	2535.6	16.5			G2/5000
FVH (80°-90°)	71.1	0.5			G1/100
BL (0°-30°)	1298.6	8.4	B3/2500		
BM (30°-60°)	3795.2	24.6	B3/5000		
BH (60°-80°)	2535.6	16.5	B4/5000		G4/5000
BVH (80°-90°)	71.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5	2726.5
2.5°	2761.4	2759.7	2760.6	2759.7	2762.3	2760.6	2750.3	2741.8	2735.0	2735.8	2733.3
5°	2820.3	2821.1	2822.0	2817.7	2823.7	2820.3	2804.1	2790.4	2776.8	2771.7	2770.0
7.5°	2868.9	2873.1	2875.7	2880.0	2890.2	2890.2	2881.7	2862.1	2832.2	2815.1	2814.3
10°	2917.5	2920.9	2928.6	2942.2	2959.3	2975.5	2972.1	2945.6	2907.3	2878.3	2871.4
12.5°	2934.5	2938.8	2964.4	3003.6	3042.0	3073.6	3073.6	3052.2	3002.8	2958.4	2945.6
15°	2874.8	2882.5	2928.6	3012.2	3112.8	3181.9	3197.2	3167.4	3114.5	3046.3	3030.9
17.5°	2756.3	2775.1	2842.4	2966.1	3133.3	3276.5	3320.9	3306.4	3238.1	3151.2	3133.3
20°	2629.2	2649.7	2721.3	2885.1	3116.2	3332.0	3460.7	3464.1	3379.7	3253.5	3227.1
22.5°	2489.4	2504.7	2596.8	2788.7	3065.0	3344.7	3581.0	3639.8	3525.5	3355.8	3318.3
25°	2332.5	2349.5	2445.9	2653.1	2968.7	3330.3	3691.0	3820.6	3678.2	3465.0	3417.2
27.5°	2182.4	2189.2	2292.4	2503.0	2841.6	3292.7	3772.0	3986.9	3847.1	3555.4	3494.8
30°	2038.2	2054.4	2145.7	2353.8	2695.8	3219.4	3841.9	4176.2	4028.7	3650.1	3572.5
32.5°	1885.6	1905.2	2004.1	2214.8	2549.9	3109.4	3884.6	4383.5	4282.0	3803.6	3720.8
35°	1738.9	1751.7	1851.5	2056.1	2407.5	2981.4	3892.3	4617.2	4608.6	4036.4	3926.4
37.5°	1588.8	1607.6	1708.2	1904.3	2256.6	2845.9	3853.9	4865.3	5002.6	4359.6	4241.1
40°	1444.7	1460.9	1559.8	1757.7	2085.1	2680.4	3762.6	5092.2	5462.3	4692.2	4524.2
42.5°	1287.8	1292.0	1400.3	1601.6	1917.1	2488.5	3631.3	5294.3	5974.8	5138.2	4929.3
45°	1109.5	1120.6	1221.2	1419.1	1724.4	2273.6	3453.1	5461.4	6624.7	5756.5	5471.7
47.5°	931.3	940.7	1032.8	1228.1	1513.8	2027.1	3178.4	5608.1	7291.6	6542.0	6168.4
50°	757.3	762.4	837.5	1010.6	1276.7	1767.9	2838.2	5655.0	8045.5	7654.0	7177.3
52.5°	598.7	606.4	663.5	799.1	1023.4	1461.7	2470.6	5539.0	8925.6	8972.5	8300.5
55°	485.3	487.8	530.5	630.2	799.9	1141.1	2027.1	5215.8	9872.2	10661.9	9804.8
57.5°	417.9	419.6	443.5	498.9	615.7	860.5	1572.6	4604.4	10722.5	12641.3	11539.5
60°	379.5	380.4	394.0	426.4	487.8	660.1	1126.6	3741.3	11561.6	14844.1	13695.4
62.5°	355.6	355.6	365.0	382.9	412.8	506.6	816.1	2699.2	12136.4	17079.4	16352.8
65°	332.6	332.6	339.4	352.2	368.4	414.5	602.9	1760.2	12121.9	18707.4	19025.5
67.5°	306.2	306.2	311.3	324.1	333.5	356.5	465.6	1153.0	10888.8	18671.6	20483.8
70°	274.6	274.6	281.4	292.5	300.2	314.7	367.6	788.9	7999.4	15942.6	18217.0
72.5°	243.1	243.9	248.2	259.3	265.2	273.8	305.3	552.6	4907.1	10855.5	12737.7
75°	208.1	209.8	214.1	225.1	230.3	233.7	257.6	394.0	2482.6	5852.9	6663.9
77.5°	168.0	171.4	174.0	185.9	189.3	194.4	212.4	284.8	1089.9	2103.0	2121.8
80°	122.8	127.1	134.7	145.8	148.4	151.8	162.0	202.1	493.8	960.3	1043.0
82.5°	90.4	96.4	87.0	101.5	101.5	97.2	114.3	135.6	226.8	950.9	1137.7
85°	49.5	50.3	45.2	52.0	55.4	54.6	60.6	66.5	110.0	634.5	654.1
87.5°	11.9	12.8	13.6	16.2	19.6	19.6	21.3	18.8	35.8	205.5	117.7
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)