

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: P451975

Luminaire Tested: **GALN-SA2D-827-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451975  
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-SA2D-827-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11416 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

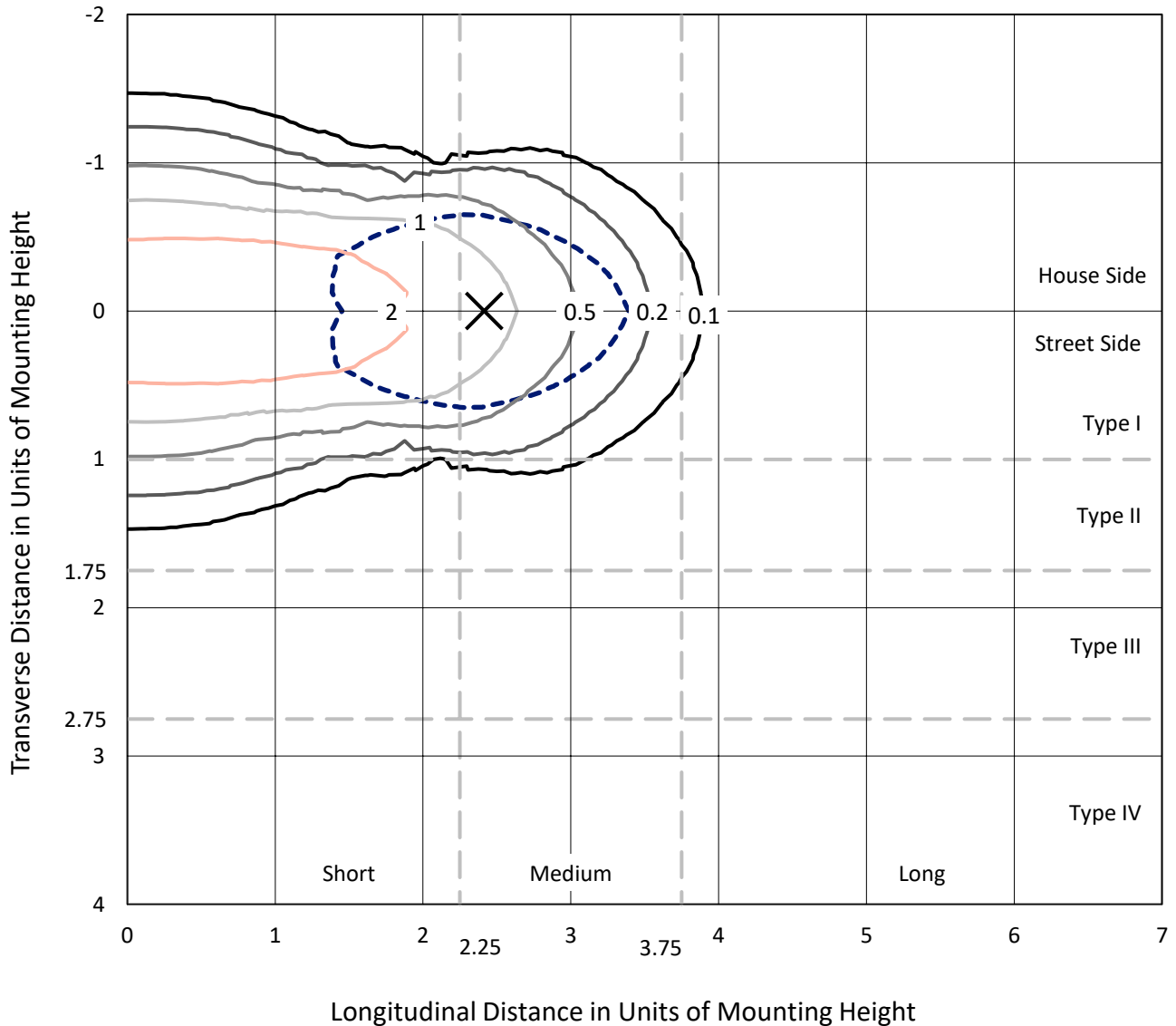
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

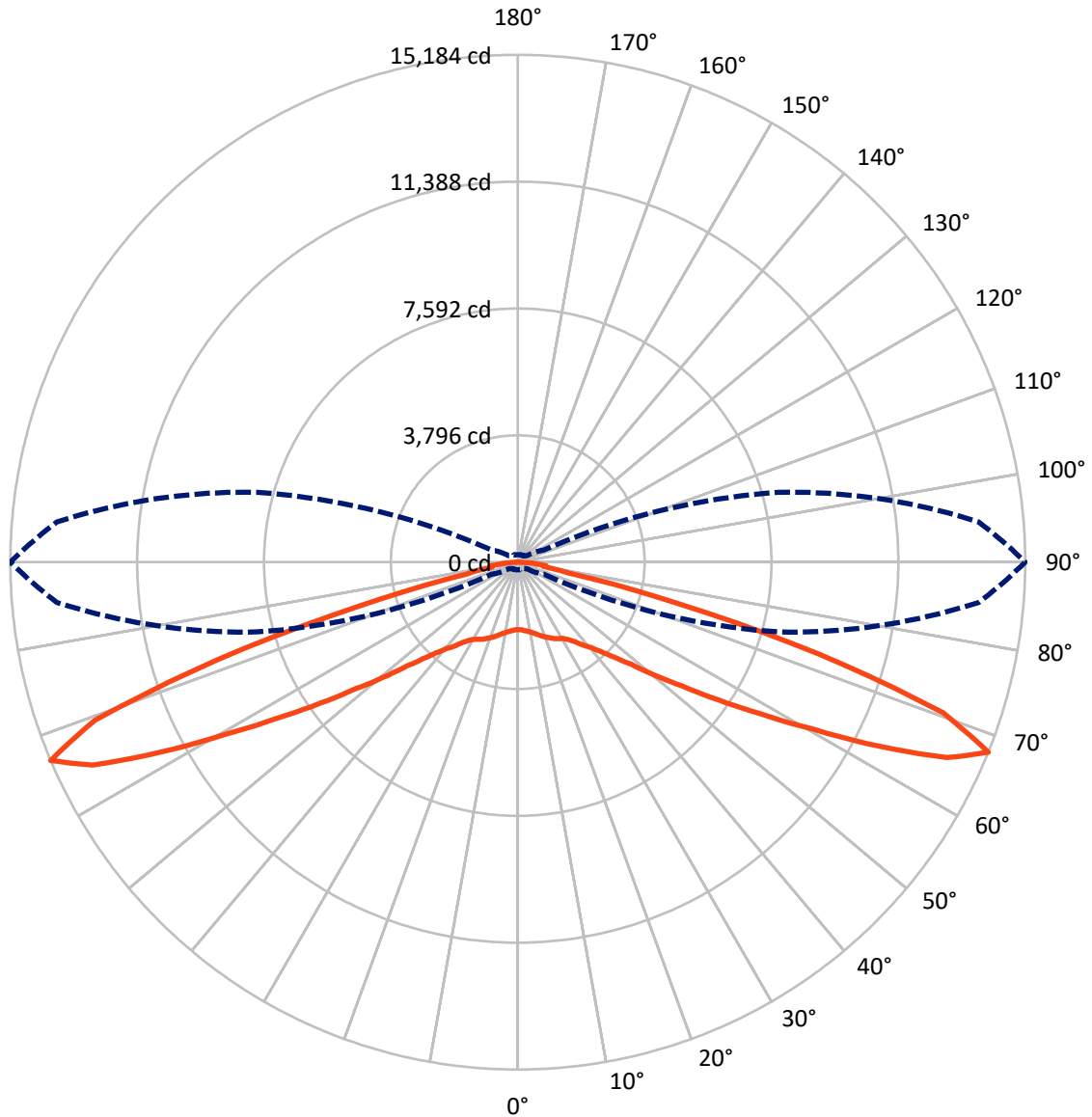
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	5708.0	0.0	5708.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5708.0	0.0	5708.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11416.0	0.0	11416.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.5	1.8
10°-20°	644.7	5.6
20°-30°	1079.0	9.5
30°-40°	1461.8	12.8
40°-50°	1851.6	16.2
50°-60°	2313.1	20.3
60°-70°	2718.9	23.8
70°-80°	1040.1	9.1
80°-90°	105.4	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°	11416.0	100.0
0°-180°	11416.0	100.0

**Coefficient of Utilization**



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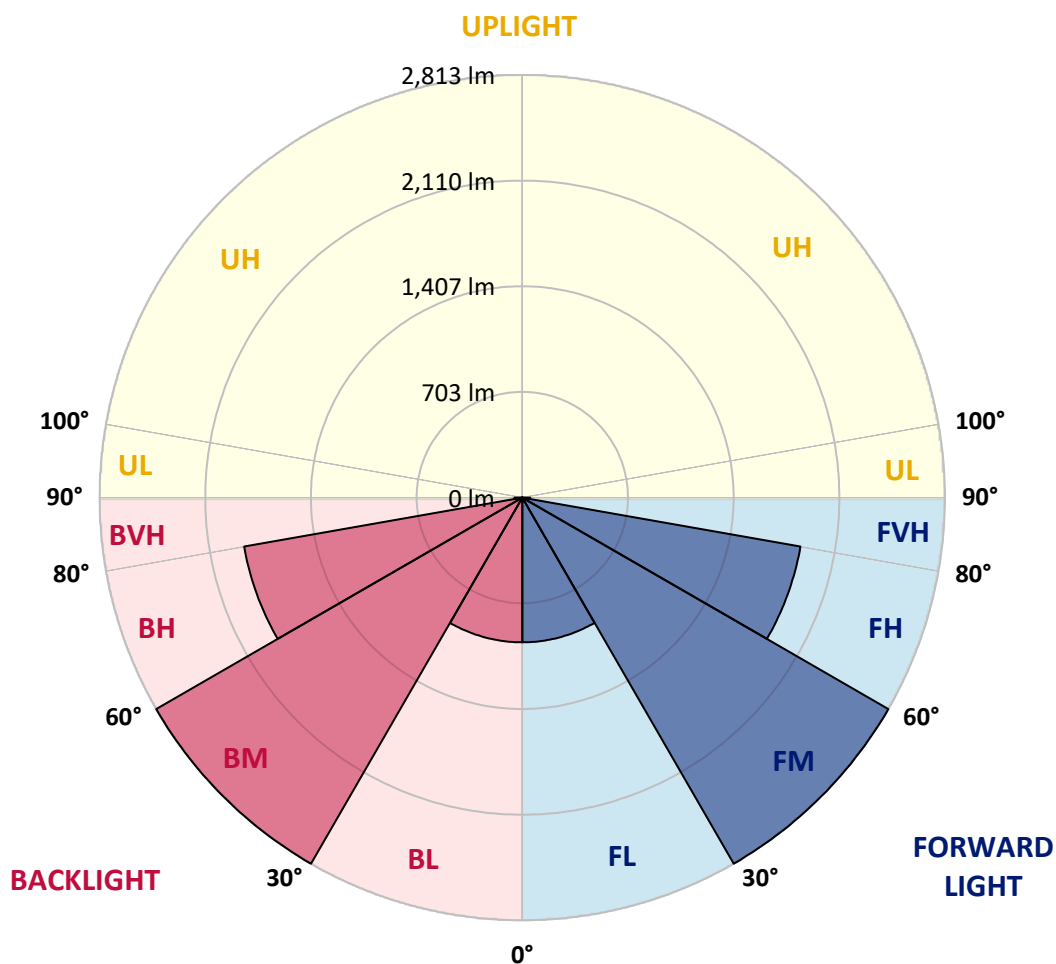
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	962.6	8.4			
FM	(30°-60°)	2813.2	24.6			
FH	(60°-80°)	1879.5	16.5			G2/5000
FVH	(80°-90°)	52.7	0.5			G1/100
BL	(0°-30°)	962.6	8.4	B2/1000		
BM	(30°-60°)	2813.2	24.6	B3/5000		
BH	(60°-80°)	1879.5	16.5	B3/2500		G3/2500
BVH	(80°-90°)	52.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0	2021.0
2.5°	2046.9	2045.6	2046.3	2045.6	2047.5	2046.3	2038.7	2032.4	2027.3	2027.9	2026.0
5°	2090.5	2091.2	2091.8	2088.6	2093.1	2090.5	2078.5	2068.4	2058.3	2054.5	2053.2
7.5°	2126.6	2129.7	2131.6	2134.8	2142.4	2142.4	2136.0	2121.5	2099.4	2086.7	2086.1
10°	2162.6	2165.1	2170.8	2180.9	2193.6	2205.6	2203.0	2183.5	2155.0	2133.5	2128.5
12.5°	2175.2	2178.4	2197.4	2226.4	2254.9	2278.3	2278.3	2262.5	2225.8	2192.9	2183.5
15°	2131.0	2136.7	2170.8	2232.8	2307.4	2358.6	2369.9	2347.8	2308.6	2258.0	2246.7
17.5°	2043.1	2057.0	2107.0	2198.6	2322.5	2428.7	2461.6	2450.9	2400.3	2335.8	2322.5
20°	1948.9	1964.1	2017.2	2138.6	2309.9	2469.8	2565.3	2567.8	2505.2	2411.7	2392.1
22.5°	1845.2	1856.6	1924.9	2067.1	2272.0	2479.3	2654.4	2698.0	2613.3	2487.5	2459.7
25°	1728.9	1741.6	1813.0	1966.6	2200.5	2468.6	2736.0	2832.0	2726.5	2568.4	2533.0
27.5°	1617.7	1622.7	1699.2	1855.4	2106.3	2440.7	2796.0	2955.3	2851.6	2635.4	2590.6
30°	1510.8	1522.9	1590.5	1744.7	1998.2	2386.4	2847.8	3095.6	2986.3	2705.6	2648.1
32.5°	1397.7	1412.2	1485.6	1641.7	1890.1	2304.8	2879.4	3249.3	3174.0	2819.4	2758.1
35°	1289.0	1298.4	1372.4	1524.1	1784.6	2210.0	2885.1	3422.5	3416.1	2992.0	2910.4
37.5°	1177.7	1191.6	1266.2	1411.6	1672.7	2109.5	2856.7	3606.4	3708.2	3231.6	3143.7
40°	1070.9	1082.9	1156.2	1302.9	1545.6	1986.9	2789.1	3774.6	4048.9	3478.1	3353.6
42.5°	954.5	957.7	1038.0	1187.2	1421.1	1844.6	2691.7	3924.4	4428.9	3808.7	3653.8
45°	822.4	830.6	905.2	1051.9	1278.2	1685.3	2559.6	4048.3	4910.6	4267.0	4055.9
47.5°	690.3	697.3	765.5	910.3	1122.1	1502.6	2356.0	4157.0	5404.9	4849.2	4572.3
50°	561.4	565.1	620.8	749.1	946.3	1310.4	2103.8	4191.8	5963.7	5673.6	5320.2
52.5°	443.8	449.5	491.8	592.3	758.6	1083.5	1831.3	4105.8	6616.1	6650.9	6152.7
55°	359.7	361.6	393.2	467.2	593.0	845.8	1502.6	3866.2	7317.8	7903.2	7267.8
57.5°	309.8	311.0	328.7	369.8	456.4	637.8	1165.7	3413.0	7948.0	9370.4	8553.6
60°	281.3	281.9	292.1	316.1	361.6	489.3	835.1	2773.2	8570.1	11003.2	10151.7
62.5°	263.6	263.6	270.6	283.8	306.0	375.5	605.0	2000.8	8996.1	12660.1	12121.5
65°	246.5	246.5	251.6	261.1	273.1	307.2	446.9	1304.8	8985.4	13866.9	14102.7
67.5°	226.9	226.9	230.7	240.2	247.2	264.2	345.2	854.7	8071.3	13840.3	15183.6
70°	203.6	203.6	208.6	216.8	222.5	233.3	272.5	584.7	5929.6	11817.4	13503.4
72.5°	180.2	180.8	184.0	192.2	196.6	202.9	226.3	409.6	3637.4	8046.7	9441.8
75°	154.2	155.5	158.7	166.9	170.7	173.2	190.9	292.1	1840.2	4338.5	4939.6
77.5°	124.5	127.1	129.0	137.8	140.3	144.1	157.4	211.1	807.9	1558.9	1572.8
80°	91.0	94.2	99.9	108.1	110.0	112.5	120.1	149.8	366.0	711.8	773.1
82.5°	67.0	71.4	64.5	75.2	75.2	72.1	84.7	100.5	168.2	704.8	843.3
85°	36.7	37.3	33.5	38.6	41.1	40.5	44.9	49.3	81.5	470.3	484.9
87.5°	8.9	9.5	10.1	12.0	14.5	14.5	15.8	13.9	26.6	152.3	87.2
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)