

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: P452196

Luminaire Tested: **GALN-SA3A-827-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452196  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3A-827-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10354 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

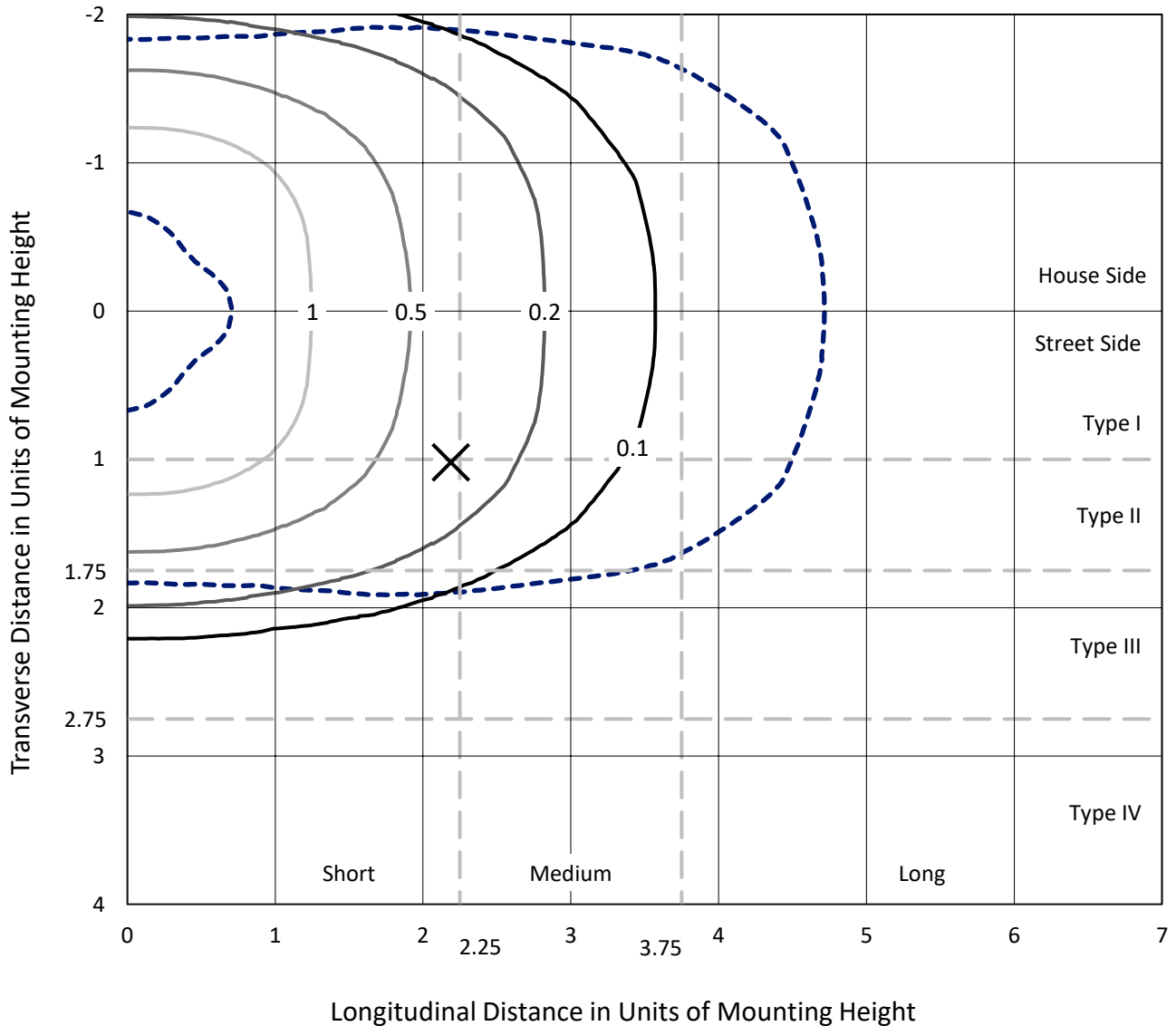
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

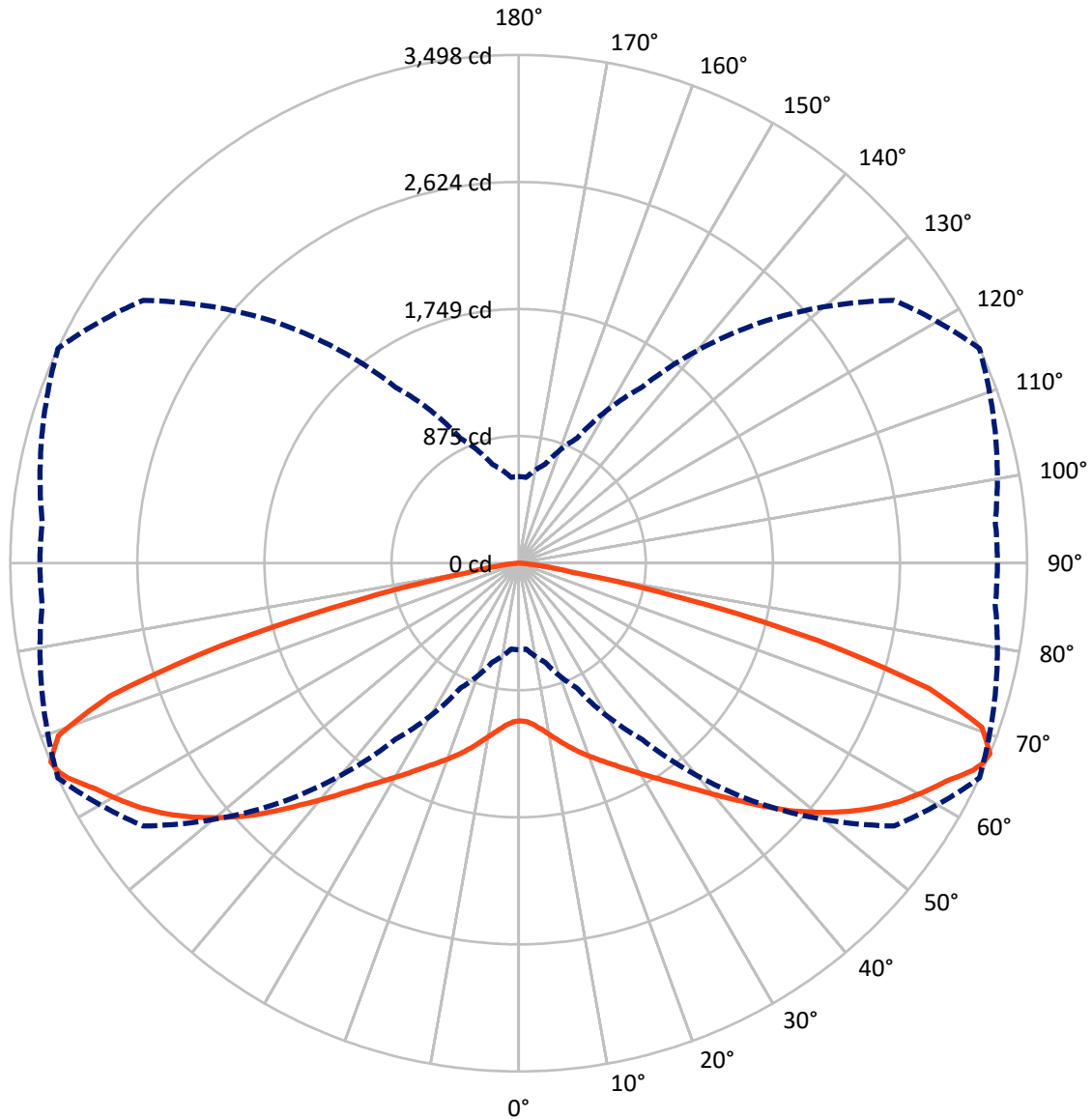
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5177.0	0.0	5177.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5177.0	0.0	5177.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10354.0	0.0	10354.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.0	1.0
10°-20°	358.0	3.5
20°-30°	700.2	6.8
30°-40°	1191.0	11.5
40°-50°	1885.0	18.2
50°-60°	2499.5	24.1
60°-70°	2357.8	22.8
70°-80°	1165.6	11.3
80°-90°	89.8	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°	10354.0	100.0
0°-180°	10354.0	100.0



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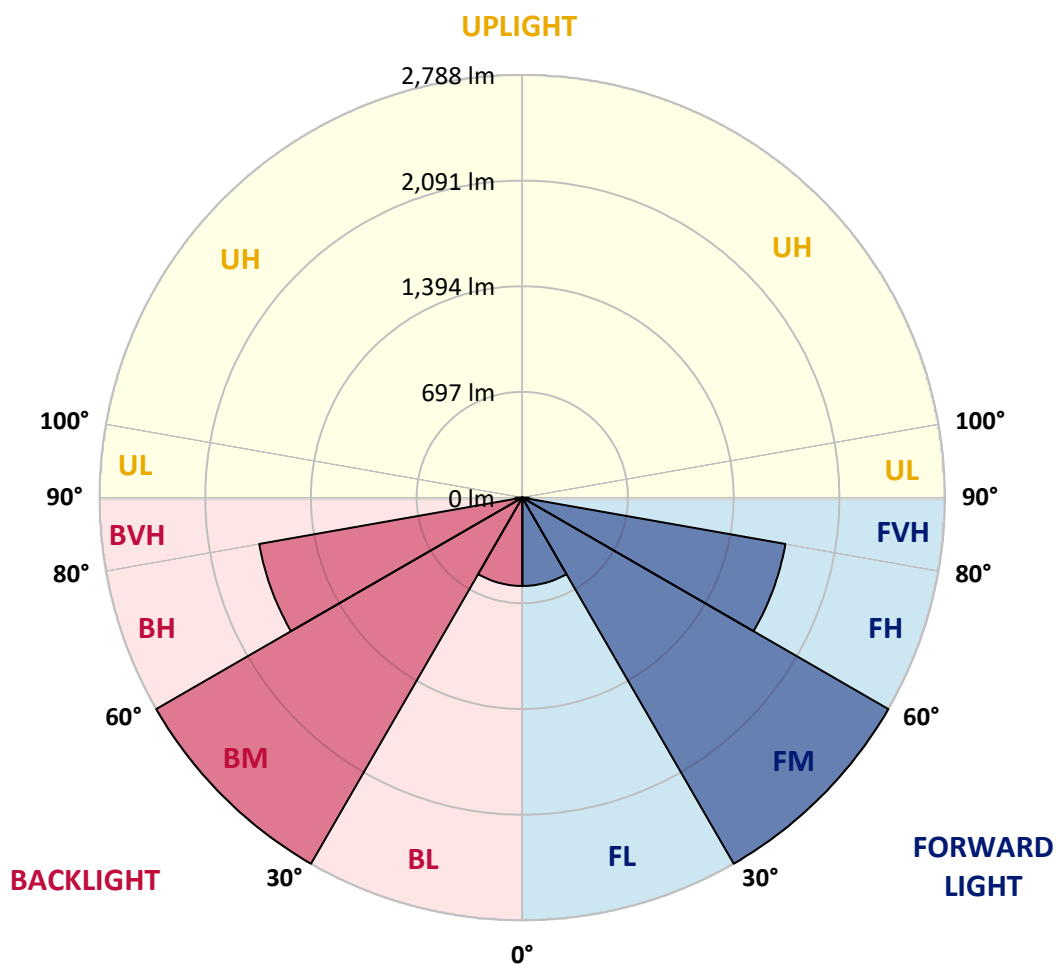
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	582.6	5.6			
FM	(30°-60°)	2787.8	26.9			
FH	(60°-80°)	1761.7	17.0			G1/1800
FVH	(80°-90°)	44.9	0.4			G1/100
BL	(0°-30°)	582.6	5.6	B2/1000		
BM	(30°-60°)	2787.8	26.9	B3/5000		
BH	(60°-80°)	1761.7	17.0	B3/2500		G3/2500
BVH	(80°-90°)	44.9	0.4			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5
2.5°	1078.9	1080.1	1081.2	1082.8	1085.0	1088.4	1090.6	1092.3	1096.7	1097.2	1096.7
5°	1075.1	1076.2	1078.9	1083.9	1091.1	1101.1	1108.9	1118.3	1125.5	1130.5	1129.4
7.5°	1074.5	1076.7	1081.2	1091.7	1105.6	1122.8	1140.5	1156.6	1170.5	1181.6	1179.9
10°	1083.4	1086.2	1093.4	1108.9	1130.5	1155.5	1180.5	1204.3	1224.3	1238.7	1243.7
12.5°	1098.4	1100.6	1113.9	1137.2	1168.3	1199.3	1227.6	1257.0	1284.7	1309.2	1309.2
15°	1124.4	1128.3	1145.0	1178.8	1217.1	1253.1	1282.0	1313.0	1343.0	1370.7	1379.0
17.5°	1160.5	1166.0	1191.0	1234.3	1283.1	1316.4	1343.5	1369.1	1395.1	1421.8	1425.6
20°	1209.9	1215.4	1248.7	1300.8	1358.5	1398.5	1416.8	1422.9	1435.6	1461.1	1464.5
22.5°	1277.0	1282.5	1319.7	1378.5	1442.8	1486.1	1493.9	1479.5	1476.1	1496.1	1498.3
25°	1353.0	1358.0	1400.7	1463.9	1530.5	1577.6	1575.4	1539.9	1520.0	1532.2	1535.5
27.5°	1438.4	1445.6	1488.9	1554.3	1626.5	1668.1	1661.4	1609.8	1567.1	1564.9	1566.0
30°	1547.7	1555.5	1596.5	1659.2	1730.2	1768.5	1754.6	1685.3	1619.2	1597.1	1597.1
32.5°	1663.1	1682.5	1724.1	1789.5	1845.0	1872.8	1851.7	1768.5	1680.8	1649.8	1648.1
35°	1813.4	1823.9	1865.0	1928.8	1970.4	1992.0	1951.5	1862.2	1761.3	1724.6	1719.7
37.5°	1960.4	1969.3	2017.0	2078.0	2128.5	2127.4	2072.5	1973.7	1861.1	1820.1	1816.7
40°	2110.7	2120.2	2174.5	2230.6	2281.0	2276.6	2210.0	2099.6	1979.8	1933.8	1942.7
42.5°	2241.1	2251.6	2313.2	2393.1	2438.6	2437.5	2360.4	2236.1	2111.3	2070.2	2078.0
45°	2359.8	2369.2	2440.8	2532.3	2598.9	2607.2	2522.9	2391.4	2263.3	2210.6	2212.8
47.5°	2443.6	2461.3	2536.2	2641.1	2731.5	2760.9	2678.2	2549.5	2402.0	2347.0	2350.4
50°	2507.4	2518.5	2600.0	2719.3	2833.5	2894.6	2828.0	2696.0	2540.6	2482.4	2490.2
52.5°	2515.1	2528.4	2617.2	2754.8	2901.2	2993.9	2961.1	2839.1	2682.1	2622.2	2638.8
55°	2451.9	2459.7	2565.6	2732.6	2927.8	3067.6	3076.0	2972.2	2816.9	2771.4	2782.5
57.5°	2271.6	2291.6	2425.8	2628.8	2891.2	3107.0	3161.9	3093.2	2953.4	2908.4	2926.2
60°	1975.9	1995.9	2130.7	2388.1	2753.1	3088.7	3232.9	3200.2	3077.1	3041.0	3050.4
62.5°	1548.2	1546.6	1713.5	2029.2	2478.5	2998.9	3285.6	3303.4	3199.1	3153.6	3168.0
65°	1003.5	1008.5	1169.9	1510.0	2064.1	2770.3	3297.3	3434.9	3318.9	3250.1	3260.7
66°	807.1	822.1	959.1	1272.5	1852.8	2620.5	3262.3	3473.7	3355.5	3272.3	3277.3
67.5°	595.8	593.0	705.6	947.5	1479.5	2336.0	3153.1	3498.1	3397.1	3292.3	3294.5
70°	340.0	339.5	379.4	520.3	869.8	1644.8	2657.7	3381.1	3481.5	3364.4	3358.3
72.5°	248.5	246.9	252.4	287.3	424.4	830.4	1833.4	2955.0	3438.2	3352.8	3335.6
75°	208.6	207.5	206.4	210.8	238.0	376.1	973.0	2125.7	2983.3	3147.0	3129.2
77.5°	170.3	170.3	170.9	169.7	170.9	198.0	403.3	1139.4	1816.7	2028.1	2077.5
80°	133.1	132.6	142.0	138.1	129.3	127.0	178.6	366.7	603.0	599.7	494.8
82.5°	98.2	91.5	108.2	105.4	95.4	81.0	104.3	156.4	201.4	130.9	97.1
85°	62.1	61.6	76.6	69.9	58.2	38.3	49.9	67.1	83.2	50.5	41.0
87.5°	11.1	10.5	24.4	17.8	17.8	11.1	13.9	18.3	27.2	18.9	13.9
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)