

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: P451268

Luminaire Tested: **GALN-SA2A-827-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451268  
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-SA2A-827-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 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: 6975 lumens  
Efficiency: N/A  
Efficacy: 110.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

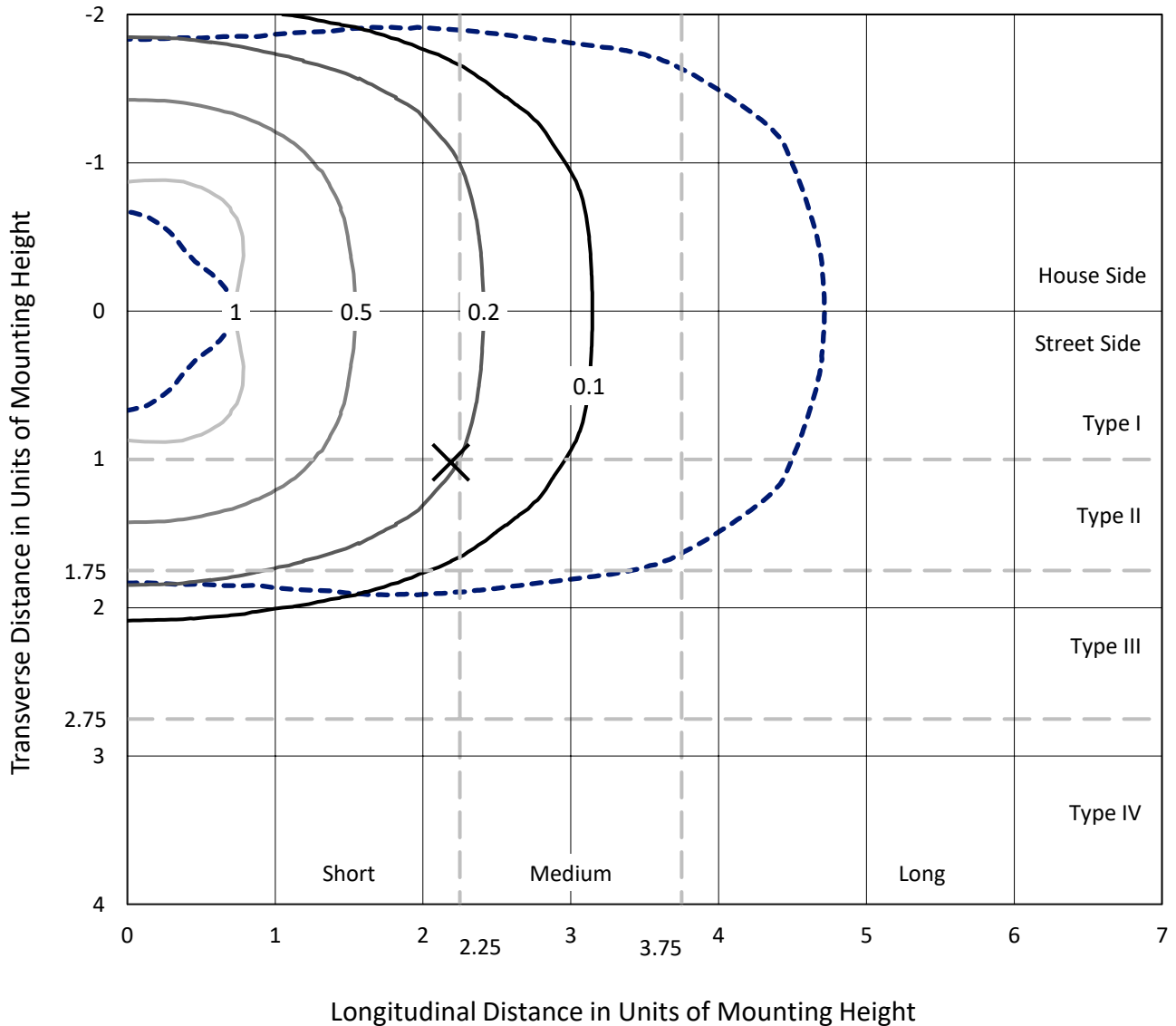
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

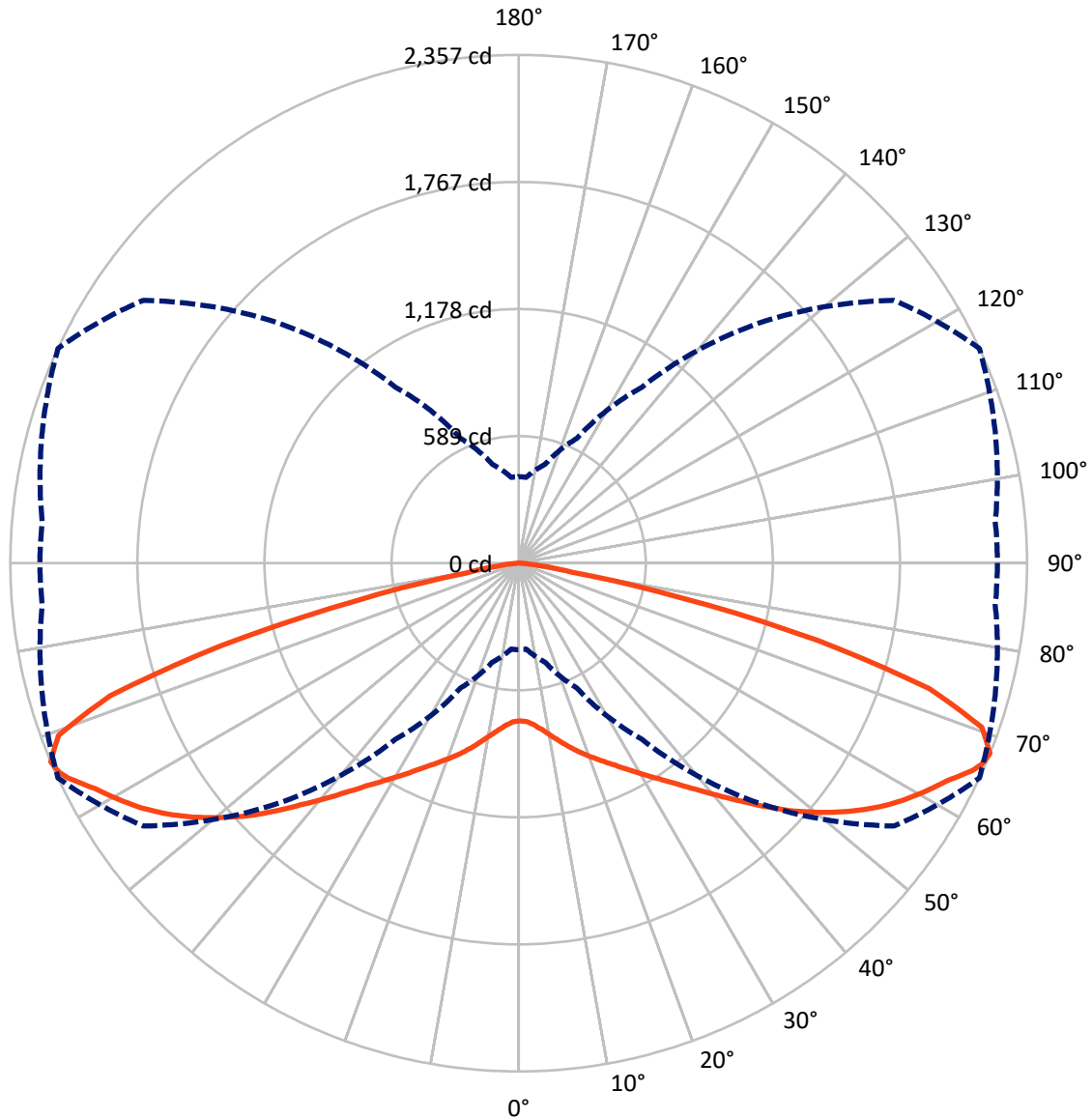
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	3487.5	0.0	3487.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3487.5	0.0	3487.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6975.0	0.0	6975.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.1	1.0
10°-20°	241.2	3.5
20°-30°	471.7	6.8
30°-40°	802.3	11.5
40°-50°	1269.9	18.2
50°-60°	1683.8	24.1
60°-70°	1588.3	22.8
70°-80°	785.2	11.3
80°-90°	60.5	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°	6975.0	100.0
0°-180°	6975.0	100.0

**Coefficient of Utilization**



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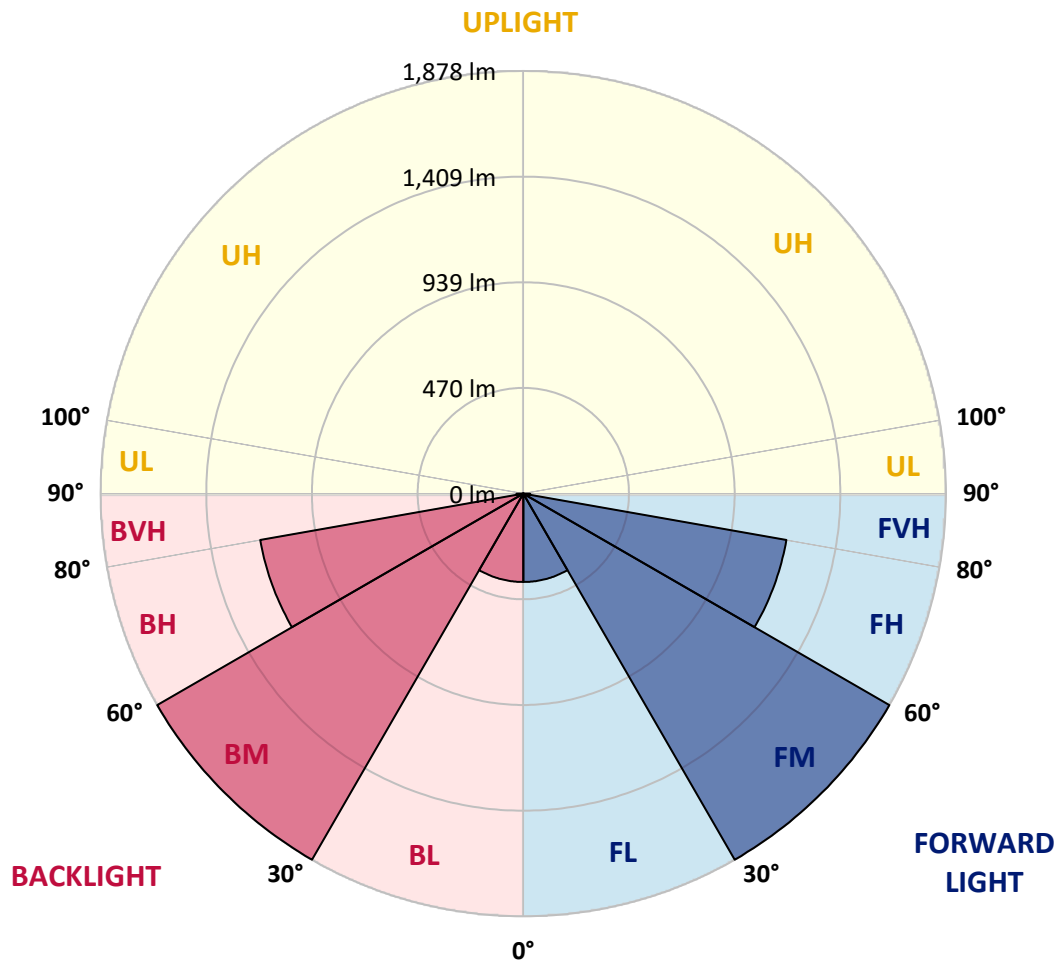
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	392.5	5.6			
FM	(30°-60°)	1878.0	26.9			
FH	(60°-80°)	1186.8	17.0			G1/1800
FVH	(80°-90°)	30.3	0.4			G1/100
BL	(0°-30°)	392.5	5.6	B1/500		
BM	(30°-60°)	1878.0	26.9	B2/2500		
BH	(60°-80°)	1186.8	17.0	B3/2500		G3/2500
BVH	(80°-90°)	30.3	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°	730.6	730.6	730.6	730.6	730.6	730.6	730.6	730.6	730.6	730.6	730.6
2.5°	726.8	727.6	728.3	729.4	730.9	733.2	734.7	735.8	738.8	739.2	738.8
5°	724.2	725.0	726.8	730.2	735.1	741.8	747.0	753.4	758.2	761.6	760.8
7.5°	723.8	725.3	728.3	735.4	744.8	756.4	768.3	779.1	788.5	796.0	794.8
10°	729.8	731.7	736.5	747.0	761.6	778.4	795.2	811.3	824.7	834.5	837.8
12.5°	739.9	741.4	750.4	766.1	787.0	807.9	827.0	846.8	865.5	881.9	881.9
15°	757.5	760.1	771.3	794.1	819.9	844.2	863.6	884.5	904.7	923.4	929.0
17.5°	781.8	785.5	802.3	831.5	864.4	886.8	905.1	922.3	939.8	957.8	960.4
20°	815.0	818.8	841.2	876.3	915.2	942.1	954.4	958.5	967.1	984.3	986.5
22.5°	860.2	864.0	889.0	928.6	972.0	1001.1	1006.4	996.6	994.4	1007.8	1009.3
25°	911.4	914.8	943.6	986.2	1031.0	1062.8	1061.3	1037.4	1023.9	1032.1	1034.4
27.5°	969.0	973.8	1003.0	1047.1	1095.7	1123.7	1119.2	1084.5	1055.7	1054.2	1054.9
30°	1042.6	1047.8	1075.5	1117.7	1165.5	1191.3	1182.0	1135.3	1090.8	1075.9	1075.9
32.5°	1120.3	1133.4	1161.4	1205.5	1242.9	1261.6	1247.4	1191.3	1132.3	1111.4	1110.2
35°	1221.6	1228.7	1256.4	1299.3	1327.4	1341.9	1314.7	1254.5	1186.5	1161.8	1158.4
37.5°	1320.6	1326.6	1358.7	1399.9	1433.9	1433.1	1396.1	1329.6	1253.7	1226.1	1223.8
40°	1421.9	1428.3	1464.9	1502.6	1536.6	1533.6	1488.8	1414.4	1333.7	1302.7	1308.7
42.5°	1509.7	1516.8	1558.3	1612.1	1642.8	1642.0	1590.1	1506.4	1422.3	1394.6	1399.9
45°	1589.7	1596.0	1644.2	1705.9	1750.8	1756.4	1699.6	1611.0	1524.7	1489.2	1490.7
47.5°	1646.1	1658.1	1708.5	1779.2	1840.1	1859.9	1804.2	1717.5	1618.1	1581.1	1583.3
50°	1689.1	1696.6	1751.5	1831.8	1908.8	1949.9	1905.1	1816.1	1711.5	1672.3	1677.5
52.5°	1694.3	1703.3	1763.1	1855.8	1954.4	2016.8	1994.8	1912.6	1806.8	1766.4	1777.7
55°	1651.7	1657.0	1728.3	1840.8	1972.4	2066.5	2072.1	2002.2	1897.6	1867.0	1874.4
57.5°	1530.3	1543.7	1634.2	1770.9	1947.7	2093.1	2130.0	2083.7	1989.5	1959.3	1971.2
60°	1331.1	1344.5	1435.4	1608.7	1854.6	2080.7	2177.9	2155.8	2072.9	2048.6	2054.9
62.5°	1043.0	1041.9	1154.3	1367.0	1669.7	2020.2	2213.4	2225.3	2155.1	2124.4	2134.2
65°	676.0	679.4	788.1	1017.2	1390.5	1866.2	2221.2	2313.9	2235.8	2189.5	2196.6
66°	543.7	553.8	646.1	857.3	1248.1	1765.3	2197.7	2340.1	2260.5	2204.4	2207.8
67.5°	401.3	399.5	475.3	638.3	996.6	1573.6	2124.1	2356.5	2288.5	2217.9	2219.4
70°	229.1	228.7	255.6	350.5	586.0	1108.0	1790.4	2277.7	2345.3	2266.4	2262.3
72.5°	167.4	166.3	170.0	193.6	285.9	559.4	1235.1	1990.7	2316.1	2258.6	2247.0
75°	140.5	139.8	139.0	142.0	160.3	253.4	655.5	1432.0	2009.7	2120.0	2108.0
77.5°	114.7	114.7	115.1	114.4	115.1	133.4	271.7	767.6	1223.8	1366.2	1399.5
80°	89.7	89.3	95.7	93.0	87.1	85.6	120.3	247.0	406.2	404.0	333.3
82.5°	66.1	61.7	72.9	71.0	64.3	54.6	70.3	105.4	135.7	88.2	65.4
85°	41.9	41.5	51.6	47.1	39.2	25.8	33.6	45.2	56.1	34.0	27.7
87.5°	7.5	7.1	16.4	12.0	12.0	7.5	9.3	12.3	18.3	12.7	9.3
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)