

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: P451355

Luminaire Tested: **GALN-SA2B-727-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451355
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-SA2B-727-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9873 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

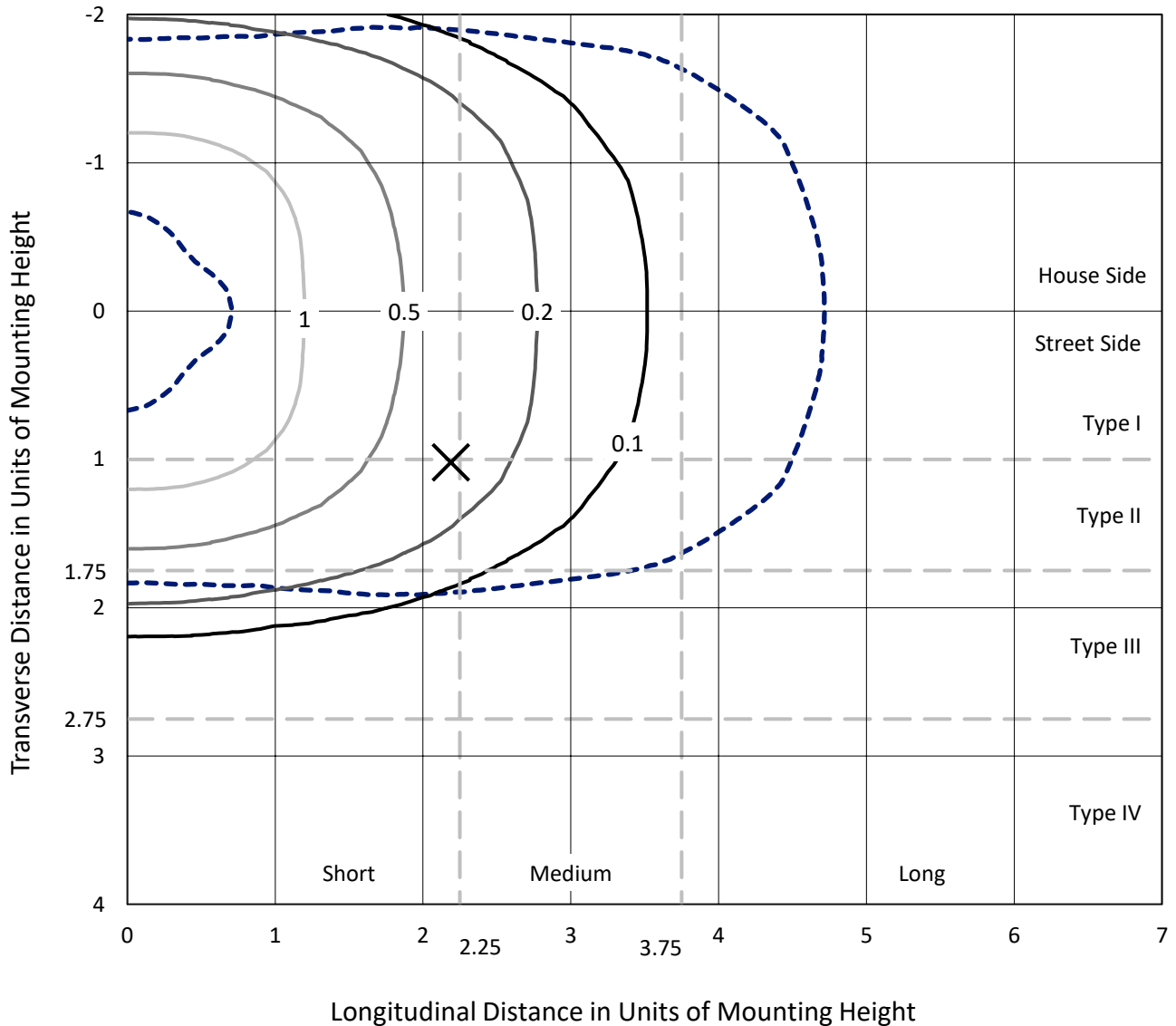
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

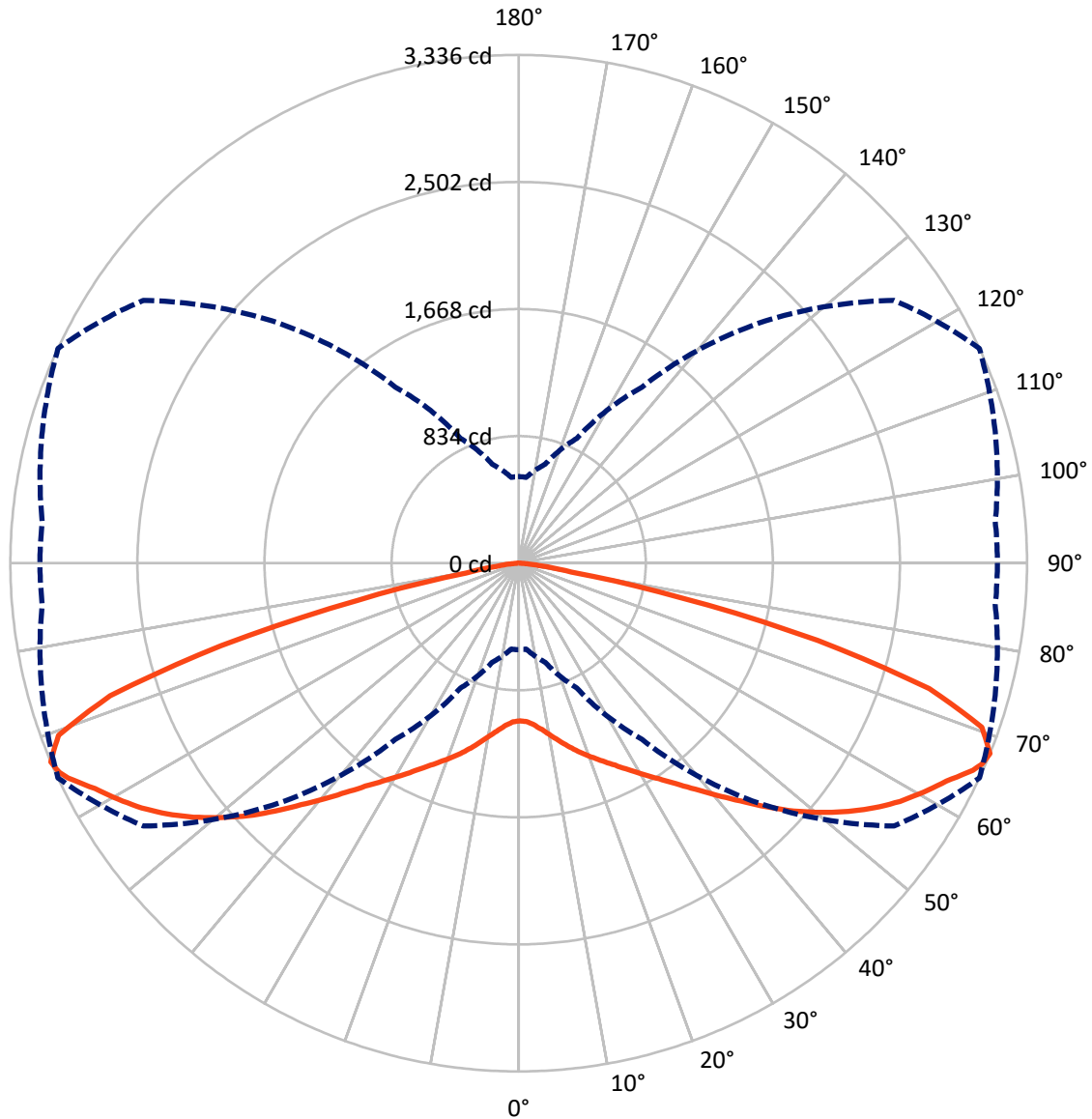
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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
House Side	Lumens	4936.5	0.0	4936.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4936.5	0.0	4936.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9873.0	0.0	9873.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	1.0
10°-20°	341.4	3.5
20°-30°	667.7	6.8
30°-40°	1135.7	11.5
40°-50°	1797.5	18.2
50°-60°	2383.4	24.1
60°-70°	2248.3	22.8
70°-80°	1111.4	11.3
80°-90°	85.6	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°	9873.0	100.0
0°-180°	9873.0	100.0



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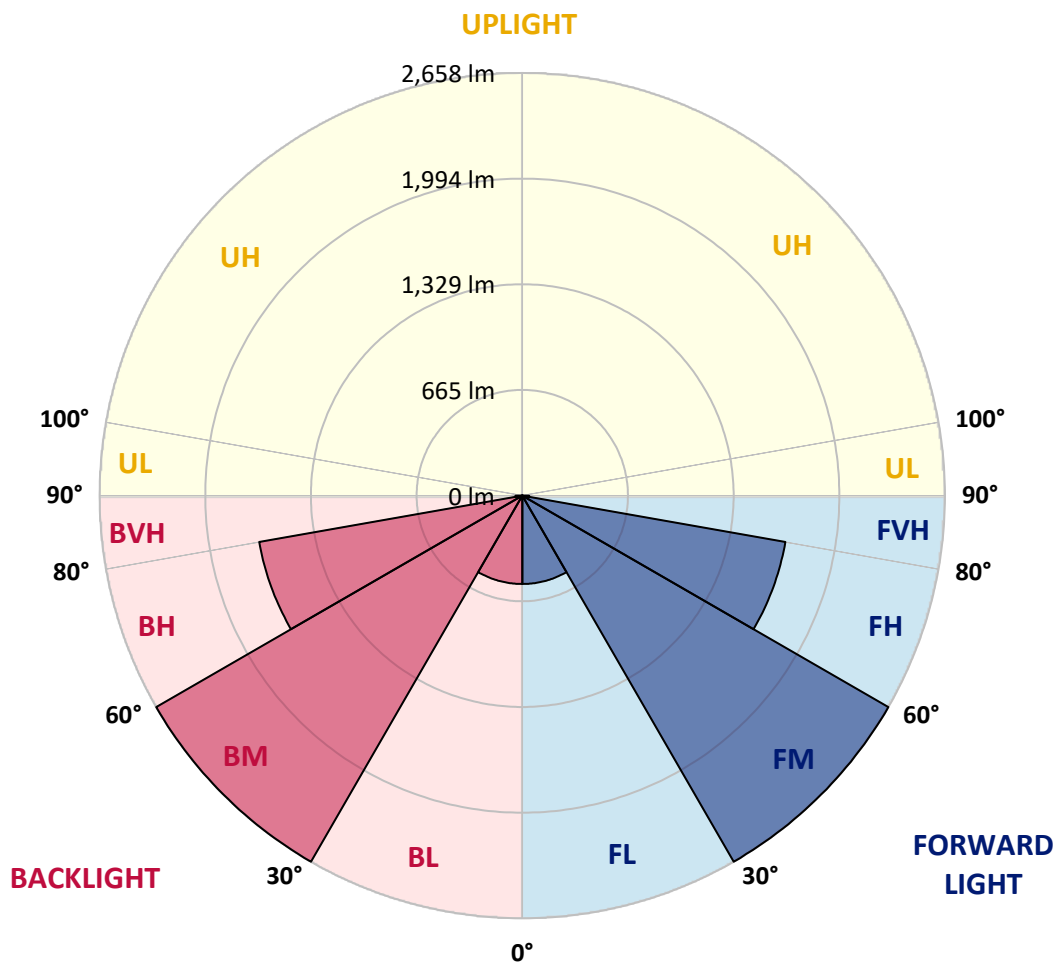
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	555.5	5.6			
FM	(30°-60°)	2658.3	26.9			
FH	(60°-80°)	1679.9	17.0			G1/1800
FVH	(80°-90°)	42.8	0.4			G1/100
BL	(0°-30°)	555.5	5.6	B2/1000		
BM	(30°-60°)	2658.3	26.9	B3/5000		
BH	(60°-80°)	1679.9	17.0	B3/2500		G3/2500
BVH	(80°-90°)	42.8	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°	1034.1	1034.1	1034.1	1034.1	1034.1	1034.1	1034.1	1034.1	1034.1	1034.1	1034.1
2.5°	1028.8	1029.9	1030.9	1032.5	1034.6	1037.8	1039.9	1041.5	1045.7	1046.3	1045.7
5°	1025.1	1026.2	1028.8	1033.6	1040.5	1050.0	1057.4	1066.4	1073.3	1078.0	1077.0
7.5°	1024.6	1026.7	1030.9	1041.0	1054.2	1070.6	1087.5	1102.9	1116.1	1126.7	1125.1
10°	1033.1	1035.7	1042.6	1057.4	1078.0	1101.8	1125.6	1148.4	1167.4	1181.2	1185.9
12.5°	1047.3	1049.4	1062.1	1084.4	1114.0	1143.6	1170.6	1198.6	1225.1	1248.3	1248.3
15°	1072.2	1075.9	1091.8	1124.0	1160.5	1194.9	1222.4	1252.0	1280.6	1307.1	1315.0
17.5°	1106.6	1111.9	1135.7	1176.9	1223.5	1255.2	1281.1	1305.5	1330.3	1355.7	1359.4
20°	1153.7	1158.9	1190.7	1240.4	1295.4	1333.5	1351.0	1356.8	1368.9	1393.3	1396.4
22.5°	1217.7	1222.9	1258.4	1314.5	1375.8	1417.1	1424.5	1410.7	1407.6	1426.6	1428.7
25°	1290.1	1294.9	1335.6	1395.9	1459.4	1504.4	1502.2	1468.4	1449.3	1461.0	1464.2
27.5°	1371.6	1378.5	1419.7	1482.1	1550.9	1590.6	1584.2	1535.0	1494.3	1492.2	1493.2
30°	1475.8	1483.2	1522.3	1582.1	1649.8	1686.3	1673.1	1607.0	1544.0	1522.9	1522.9
32.5°	1585.8	1604.3	1644.0	1706.4	1759.3	1785.8	1765.7	1686.3	1602.7	1573.1	1571.5
35°	1729.2	1739.2	1778.4	1839.2	1878.9	1899.5	1860.9	1775.7	1679.4	1644.5	1639.8
37.5°	1869.3	1877.8	1923.3	1981.5	2029.6	2028.5	1976.2	1882.0	1774.6	1735.5	1732.3
40°	2012.7	2021.7	2073.5	2126.9	2175.1	2170.8	2107.4	2002.1	1887.8	1843.9	1852.4
42.5°	2137.0	2147.0	2205.7	2281.9	2325.3	2324.2	2250.7	2132.2	2013.2	1974.1	1981.5
45°	2250.2	2259.2	2327.4	2414.7	2478.2	2486.1	2405.7	2280.3	2158.1	2107.9	2110.0
47.5°	2330.1	2347.0	2418.4	2518.4	2604.6	2632.6	2553.8	2431.1	2290.4	2238.0	2241.2
50°	2390.9	2401.5	2479.2	2592.9	2701.9	2760.1	2696.6	2570.7	2422.6	2367.1	2374.5
52.5°	2398.3	2411.0	2495.6	2626.8	2766.4	2854.8	2823.6	2707.2	2557.5	2500.4	2516.2
55°	2338.0	2345.4	2446.4	2605.6	2791.8	2925.1	2933.1	2834.1	2686.0	2642.7	2653.2
57.5°	2166.1	2185.1	2313.1	2506.7	2756.9	2962.7	3015.1	2949.5	2816.2	2773.3	2790.2
60°	1884.1	1903.2	2031.7	2277.2	2625.2	2945.2	3082.8	3051.5	2934.1	2899.7	2908.7
62.5°	1476.3	1474.7	1633.9	1934.9	2363.4	2859.5	3133.0	3149.9	3050.5	3007.1	3020.9
65°	956.9	961.6	1115.6	1439.8	1968.2	2641.6	3144.1	3275.3	3164.7	3099.2	3109.2
66°	769.6	783.9	914.6	1213.4	1766.7	2498.8	3110.8	3312.3	3199.7	3120.3	3125.1
67.5°	568.1	565.5	672.8	903.5	1410.7	2227.4	3006.6	3335.6	3239.3	3139.4	3141.5
70°	324.3	323.7	361.8	496.2	829.4	1568.4	2534.2	3224.0	3319.7	3208.1	3202.3
72.5°	237.0	235.4	240.7	274.0	404.7	791.8	1748.2	2817.8	3278.5	3197.0	3180.6
75°	198.9	197.8	196.8	201.0	226.9	358.6	927.8	2027.0	2844.7	3000.8	2983.8
77.5°	162.4	162.4	162.9	161.9	162.9	188.8	384.6	1086.5	1732.3	1933.9	1980.9
80°	126.9	126.4	135.4	131.7	123.2	121.1	170.3	349.6	575.0	571.8	471.8
82.5°	93.6	87.3	103.1	100.5	91.0	77.2	99.4	149.2	192.0	124.8	92.6
85°	59.2	58.7	73.0	66.6	55.5	36.5	47.6	64.0	79.3	48.1	39.1
87.5°	10.6	10.1	23.3	16.9	16.9	10.6	13.2	17.5	25.9	18.0	13.2
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)