

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: P452051

Luminaire Tested: **GALN-SA3A-727-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452051
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-727-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 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: 11779 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

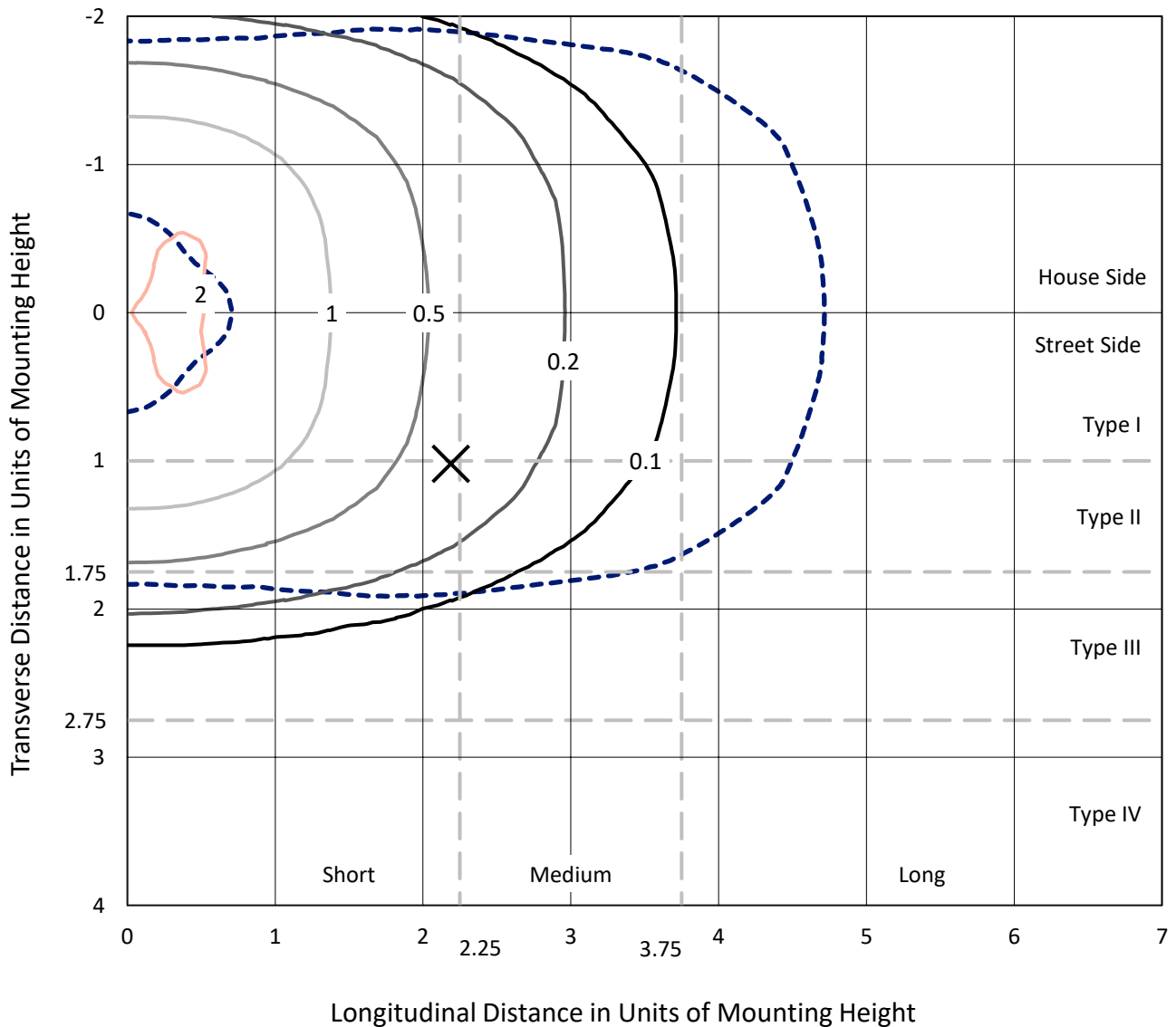
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452051
 CATALOG NUMBER: GALN-SA3A-727-U-RW

Iso-Footcandle Lines of Horizontal Illumination

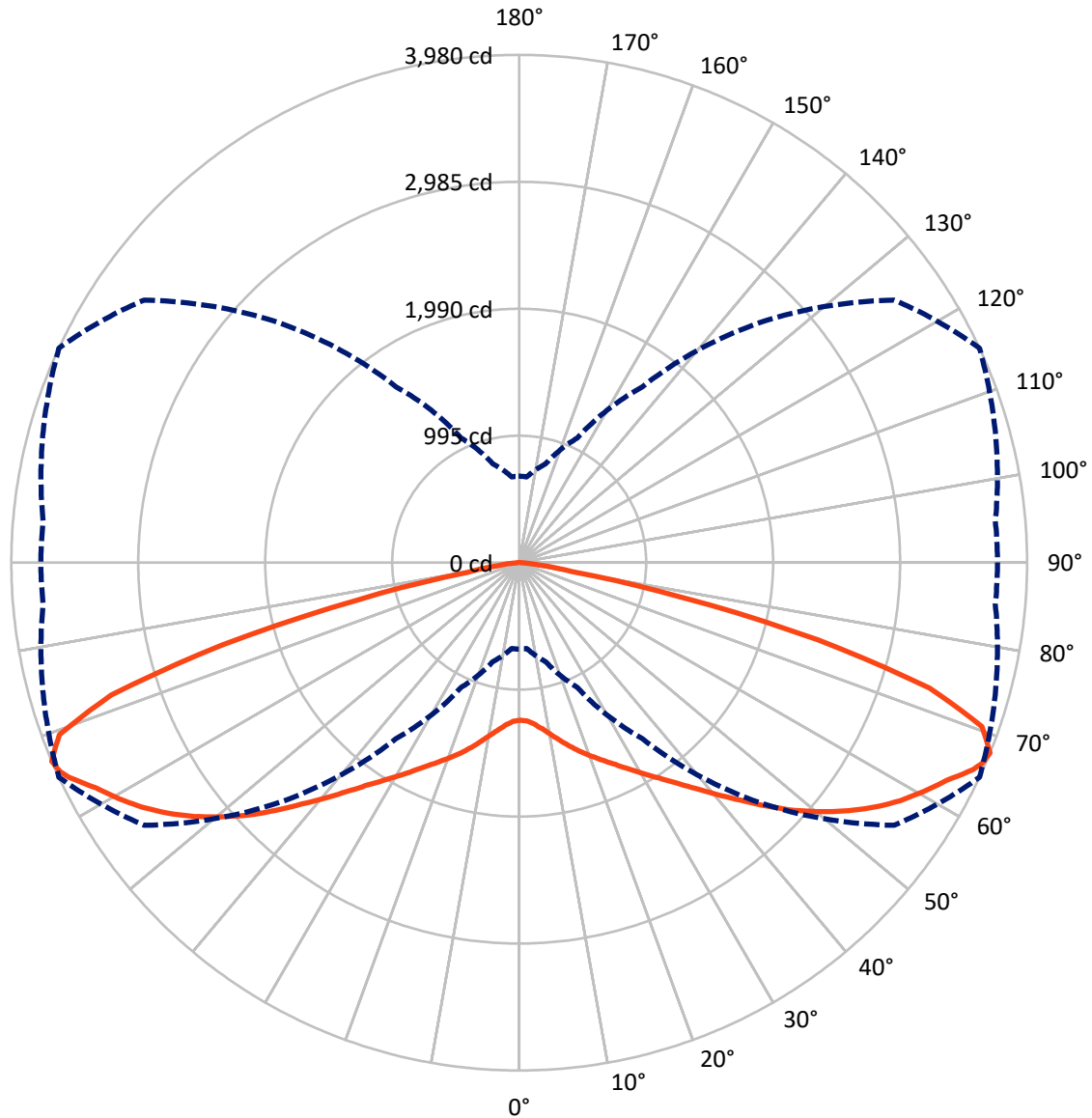
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - N/A

REPORT NUMBER: P452051
CATALOG NUMBER: GALN-SA3A-727-U-RW

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	5889.5	0.0	5889.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5889.5	0.0	5889.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11779.0	0.0	11779.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.7	1.0
10°-20°	407.3	3.5
20°-30°	796.6	6.8
30°-40°	1354.9	11.5
40°-50°	2144.5	18.2
50°-60°	2843.5	24.1
60°-70°	2682.3	22.8
70°-80°	1326.0	11.3
80°-90°	102.2	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°	11779.0	100.0
0°-180°	11779.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452051

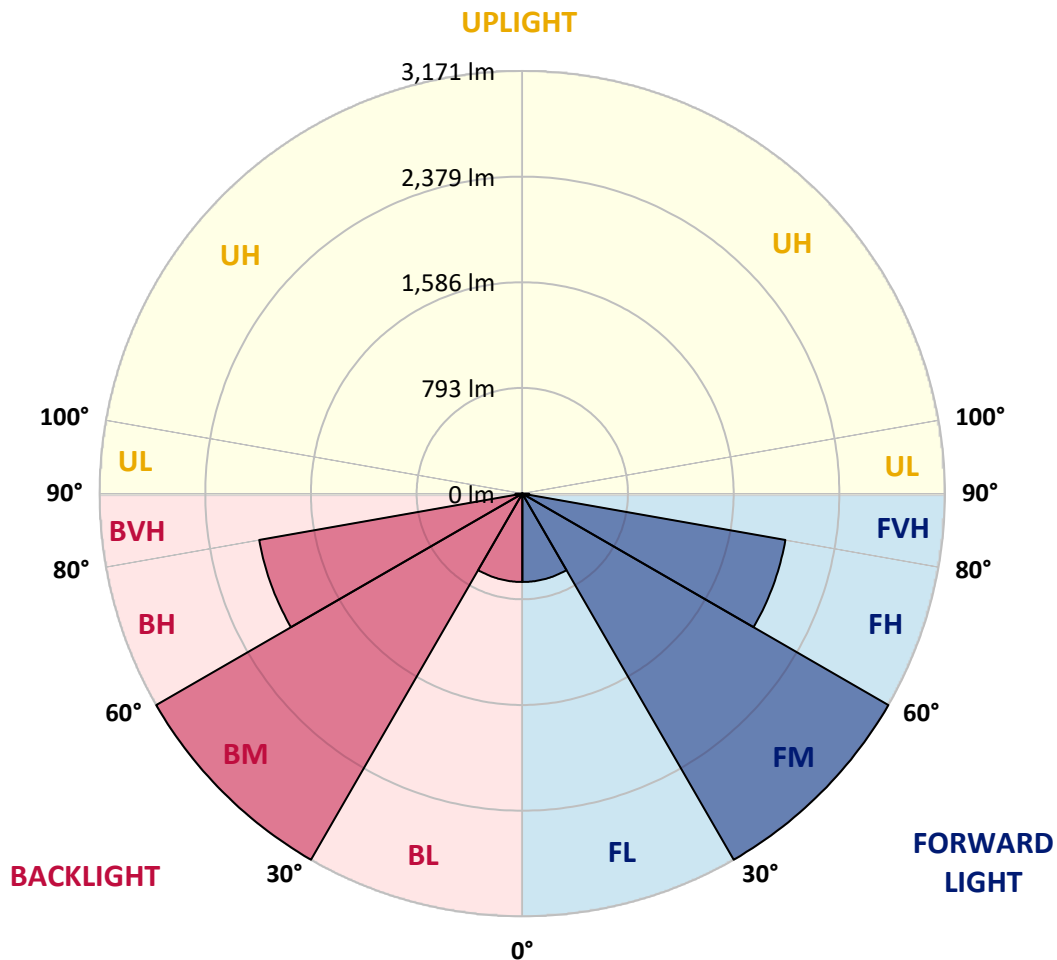
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	662.8	5.6			
FM	(30°-60°)	3171.5	26.9			
FH	(60°-80°)	2004.2	17.0			G2/5000
FVH	(80°-90°)	51.1	0.4			G1/100
BL	(0°-30°)	662.8	5.6	B2/1000		
BM	(30°-60°)	3171.5	26.9	B3/5000		
BH	(60°-80°)	2004.2	17.0	B3/2500		G3/2500
BVH	(80°-90°)	51.1	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°	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7	1233.7
2.5°	1227.4	1228.7	1230.0	1231.9	1234.4	1238.2	1240.7	1242.6	1247.6	1248.3	1247.6
5°	1223.0	1224.3	1227.4	1233.1	1241.3	1252.7	1261.5	1272.2	1280.4	1286.1	1284.9
7.5°	1222.4	1224.9	1230.0	1242.0	1257.7	1277.3	1297.5	1315.8	1331.6	1344.2	1342.3
10°	1232.5	1235.6	1243.8	1261.5	1286.1	1314.5	1342.9	1370.1	1392.8	1409.2	1414.9
12.5°	1249.5	1252.0	1267.2	1293.7	1329.0	1364.4	1396.6	1430.0	1461.6	1489.3	1489.3
15°	1279.2	1283.6	1302.5	1341.0	1384.6	1425.6	1458.4	1493.7	1527.8	1559.4	1568.8
17.5°	1320.2	1326.5	1354.9	1404.1	1459.7	1497.5	1528.5	1557.5	1587.1	1617.4	1621.9
20°	1376.4	1382.7	1420.5	1479.9	1545.5	1590.9	1611.8	1618.7	1633.2	1662.2	1666.0
22.5°	1452.7	1459.0	1501.3	1568.2	1641.4	1690.6	1699.5	1683.1	1679.3	1702.0	1704.5
25°	1539.2	1544.9	1593.5	1665.4	1741.1	1794.8	1792.2	1751.9	1729.1	1743.0	1746.8
27.5°	1636.4	1644.6	1693.8	1768.3	1850.3	1897.6	1890.1	1831.4	1782.8	1780.3	1781.5
30°	1760.7	1769.5	1816.2	1887.5	1968.3	2011.9	1996.1	1917.2	1842.1	1816.9	1816.9
32.5°	1892.0	1914.0	1961.4	2035.8	2098.9	2130.5	2106.5	2011.9	1912.1	1876.8	1874.9
35°	2063.0	2075.0	2121.7	2194.2	2241.6	2266.2	2220.1	2118.5	2003.7	1962.0	1956.3
37.5°	2230.2	2240.3	2294.6	2364.0	2421.4	2420.2	2357.7	2245.4	2117.2	2070.5	2066.8
40°	2401.2	2412.0	2473.8	2537.5	2595.0	2589.9	2514.2	2388.6	2252.3	2199.9	2210.0
42.5°	2549.5	2561.5	2631.6	2722.4	2774.2	2772.9	2685.2	2543.9	2401.9	2355.2	2364.0
45°	2684.6	2695.3	2776.7	2880.8	2956.6	2966.0	2870.1	2720.6	2574.8	2514.8	2517.3
47.5°	2779.9	2800.1	2885.3	3004.5	3107.4	3140.8	3046.8	2900.4	2732.5	2670.1	2673.9
50°	2852.4	2865.1	2957.8	3093.5	3223.5	3292.9	3217.2	3067.0	2890.3	2824.0	2832.9
52.5°	2861.3	2876.4	2977.4	3133.9	3300.5	3405.9	3368.7	3229.8	3051.2	2983.1	3002.0
55°	2789.3	2798.2	2918.7	3108.7	3330.8	3489.8	3499.3	3381.3	3204.6	3152.8	3165.5
57.5°	2584.2	2607.0	2759.7	2990.7	3289.1	3534.6	3597.1	3518.9	3359.8	3308.7	3328.9
60°	2247.9	2270.6	2423.9	2716.8	3132.0	3513.8	3677.9	3640.7	3500.6	3459.5	3470.3
62.5°	1761.3	1759.4	1949.4	2308.5	2819.6	3411.6	3737.8	3758.0	3639.4	3587.6	3604.1
65°	1141.6	1147.3	1330.9	1717.8	2348.2	3151.6	3751.1	3907.6	3775.7	3697.5	3709.4
66°	918.2	935.2	1091.1	1447.7	2107.8	2981.2	3711.3	3951.8	3817.4	3722.7	3728.4
67.5°	677.8	674.6	802.7	1077.9	1683.1	2657.4	3587.0	3979.5	3864.7	3745.4	3747.9
70°	386.8	386.2	431.7	591.9	989.5	1871.1	3023.5	3846.4	3960.6	3827.5	3820.5
72.5°	282.7	280.8	287.1	326.9	482.8	944.7	2085.7	3361.7	3911.4	3814.2	3794.6
75°	237.3	236.0	234.8	239.8	270.7	427.9	1106.9	2418.3	3393.9	3580.1	3559.9
77.5°	193.7	193.7	194.4	193.1	194.4	225.3	458.8	1296.2	2066.8	2307.2	2363.4
80°	151.5	150.8	161.6	157.1	147.0	144.5	203.2	417.1	686.0	682.2	562.9
82.5°	111.7	104.1	123.1	119.9	108.5	92.1	118.6	178.0	229.1	148.9	110.4
85°	70.7	70.0	87.1	79.5	66.3	43.5	56.8	76.4	94.7	57.4	46.7
87.5°	12.6	12.0	27.8	20.2	20.2	12.6	15.8	20.8	30.9	21.5	15.8
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)