

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: P451120

Luminaire Tested: **GALN-SA2A-727-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8049 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

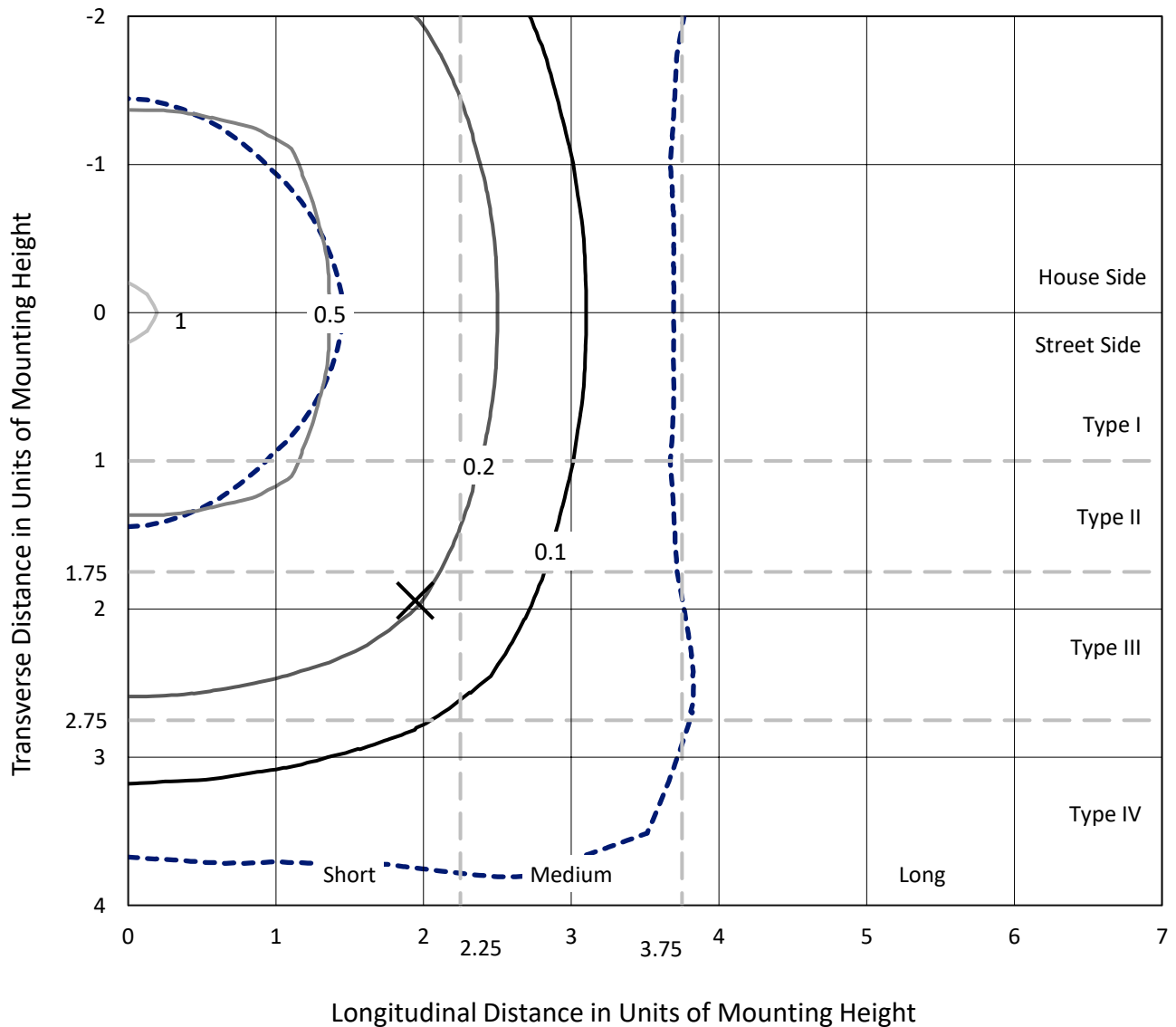
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

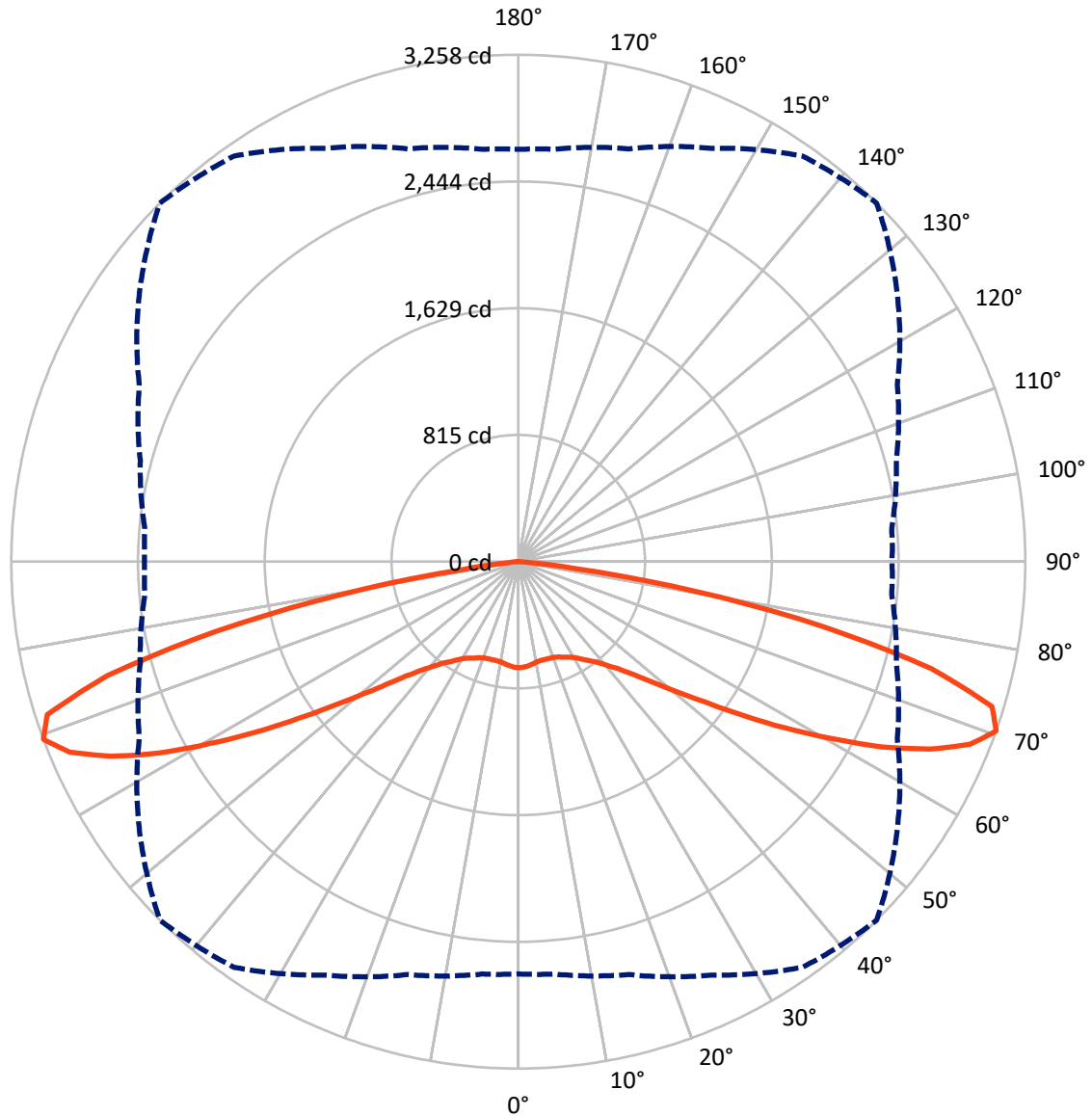
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4024.5	0.0	4024.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4024.5	0.0	4024.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8049.0	0.0	8049.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	0.8
10°-20°	186.6	2.3
20°-30°	317.9	3.9
30°-40°	492.7	6.1
40°-50°	829.3	10.3
50°-60°	1508.8	18.7
60°-70°	2554.4	31.7
70°-80°	1977.2	24.6
80°-90°	118.5	1.5
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°	8049.0	100.0
0°-180°	8049.0	100.0



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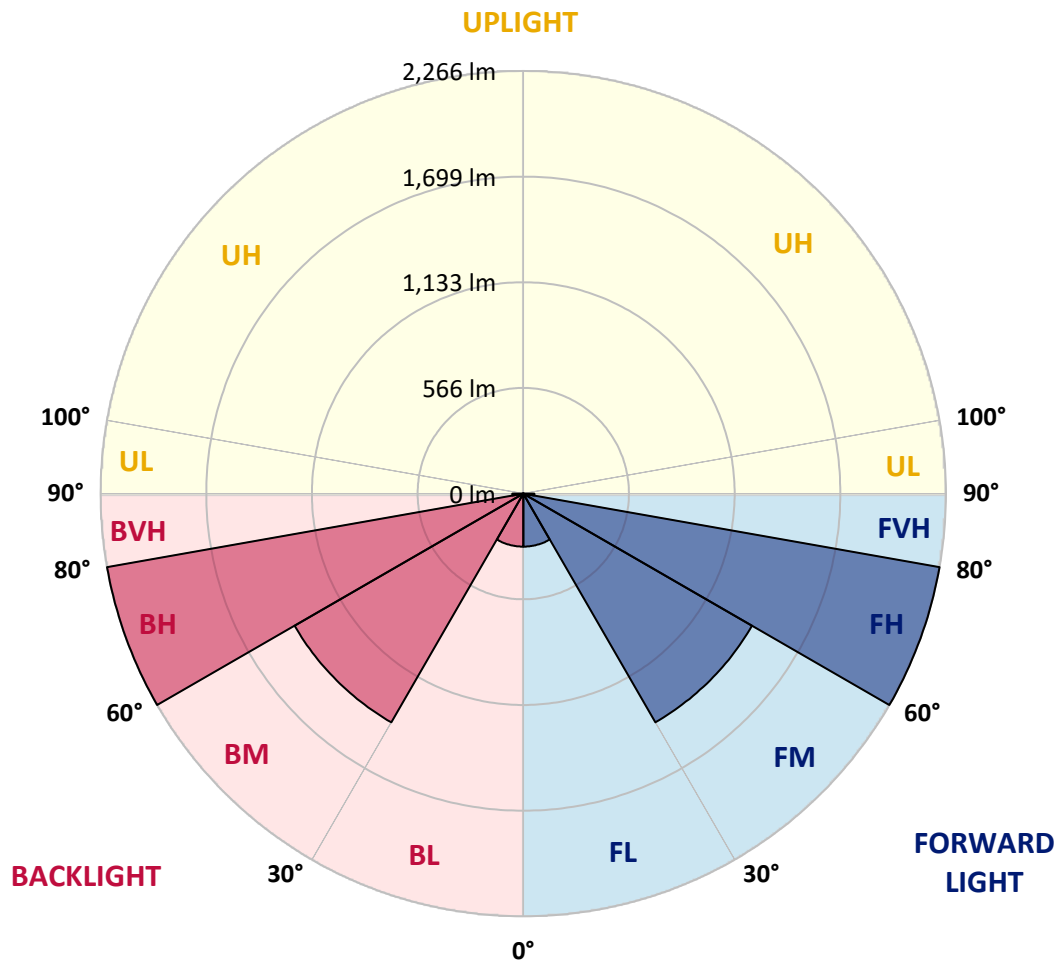
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	284.1	3.5			
FM (30°-60°)	1415.4	17.6			
FH (60°-80°)	2265.8	28.1			G2/5000
FVH (80°-90°)	59.2	0.7			G1/100
BL (0°-30°)	284.1	3.5	B1/500		
BM (30°-60°)	1415.4	17.6	B2/2500		
BH (60°-80°)	2265.8	28.1	B3/2500		G2/5000
BVH (80°-90°)	59.2	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4
2.5°	679.7	680.2	680.2	679.3	678.9	678.9	678.5	678.5	679.7	680.2	680.6
5°	673.8	673.8	673.8	673.4	672.5	672.5	671.7	671.7	672.1	673.4	672.5
7.5°	665.7	666.6	666.6	664.9	663.6	663.6	663.2	663.6	664.0	665.3	664.9
10°	663.2	663.6	661.5	658.5	656.4	655.1	655.5	656.4	658.5	659.3	659.8
12.5°	664.9	664.9	661.0	656.8	653.0	651.3	650.8	653.8	657.6	660.2	661.0
15°	667.0	666.1	661.5	655.9	652.1	651.7	651.3	653.4	658.9	664.0	664.4
17.5°	668.3	667.8	661.9	655.1	653.0	653.0	652.5	654.2	660.2	666.6	667.0
20°	672.5	671.2	664.4	657.2	655.5	656.4	655.1	657.2	663.6	671.2	672.9
22.5°	681.0	679.7	672.9	665.7	664.9	664.9	664.4	666.6	673.4	681.4	682.7
25°	691.2	689.9	683.6	678.5	679.3	681.0	680.2	680.6	686.1	692.9	695.0
27.5°	704.8	702.7	697.2	692.9	695.5	695.5	695.5	695.0	698.5	704.8	707.0
30°	721.4	720.6	714.6	714.2	716.3	714.2	714.2	714.6	715.0	721.0	723.1
32.5°	743.1	741.4	738.4	737.6	743.5	745.2	739.3	733.7	736.7	742.7	743.9
35°	778.8	776.2	772.0	767.3	772.0	780.1	767.3	763.1	770.7	778.8	779.6
37.5°	827.3	826.0	819.2	810.7	810.3	818.8	805.6	805.2	819.6	829.4	830.7
40°	888.0	889.3	880.8	872.7	868.5	875.3	865.1	868.9	882.9	894.0	893.1
42.5°	973.5	968.8	955.6	948.0	943.3	940.8	938.2	944.2	959.9	971.8	981.1
45°	1073.4	1071.7	1055.1	1045.8	1035.6	1031.7	1030.9	1041.5	1060.6	1075.1	1076.4
47.5°	1186.5	1182.6	1172.0	1162.2	1158.4	1153.7	1149.5	1157.6	1176.7	1186.9	1189.9
50°	1303.0	1303.8	1303.8	1302.1	1305.9	1306.8	1295.3	1298.3	1308.9	1308.1	1307.2
52.5°	1436.0	1440.7	1462.8	1464.9	1483.2	1495.5	1474.7	1462.4	1458.5	1435.6	1437.3
55°	1592.5	1596.7	1629.9	1663.0	1712.3	1733.2	1689.4	1651.1	1623.9	1589.0	1590.8
57.5°	1787.6	1789.7	1821.2	1884.9	1963.1	2012.0	1935.1	1859.4	1804.2	1771.0	1757.8
60°	1997.6	1999.7	2045.6	2123.4	2245.0	2304.5	2209.3	2085.6	2015.9	1965.3	1968.7
62.5°	2249.7	2258.2	2299.4	2406.5	2554.0	2620.8	2494.5	2329.2	2234.8	2171.9	2174.4
65°	2519.6	2534.1	2579.1	2696.9	2832.9	2904.8	2750.0	2559.1	2441.8	2364.9	2372.9
67.5°	2694.8	2707.5	2772.5	2902.6	3072.2	3131.8	2932.0	2709.6	2563.0	2471.1	2454.1
70°	2650.1	2660.7	2747.5	2932.0	3183.2	3258.4	2975.3	2687.5	2514.9	2409.1	2402.3
72.5°	2339.4	2317.3	2443.9	2708.8	3056.5	3182.8	2838.9	2454.6	2237.3	2128.5	2115.8
75°	1550.4	1598.4	1785.4	2097.5	2585.9	2742.4	2423.1	1970.8	1697.5	1606.9	1592.9
77.5°	518.2	555.2	721.4	1189.0	1762.9	1998.0	1765.5	1288.9	911.9	734.6	738.0
80°	137.3	135.6	175.6	326.9	761.8	1157.1	886.8	436.6	238.9	173.0	164.1
82.5°	49.3	55.3	71.0	90.5	201.9	359.6	253.8	122.4	89.7	66.3	64.2
85°	21.7	21.3	30.6	36.1	50.6	67.2	59.5	51.9	45.5	30.2	28.1
87.5°	4.7	4.7	7.2	5.5	8.9	8.9	11.1	13.2	13.6	8.9	7.2
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)