

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: P451265

Luminaire Tested: **GALN-SA2A-827-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451265
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-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 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: 7076 lumens
Efficiency: N/A
Efficacy: 112.3 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

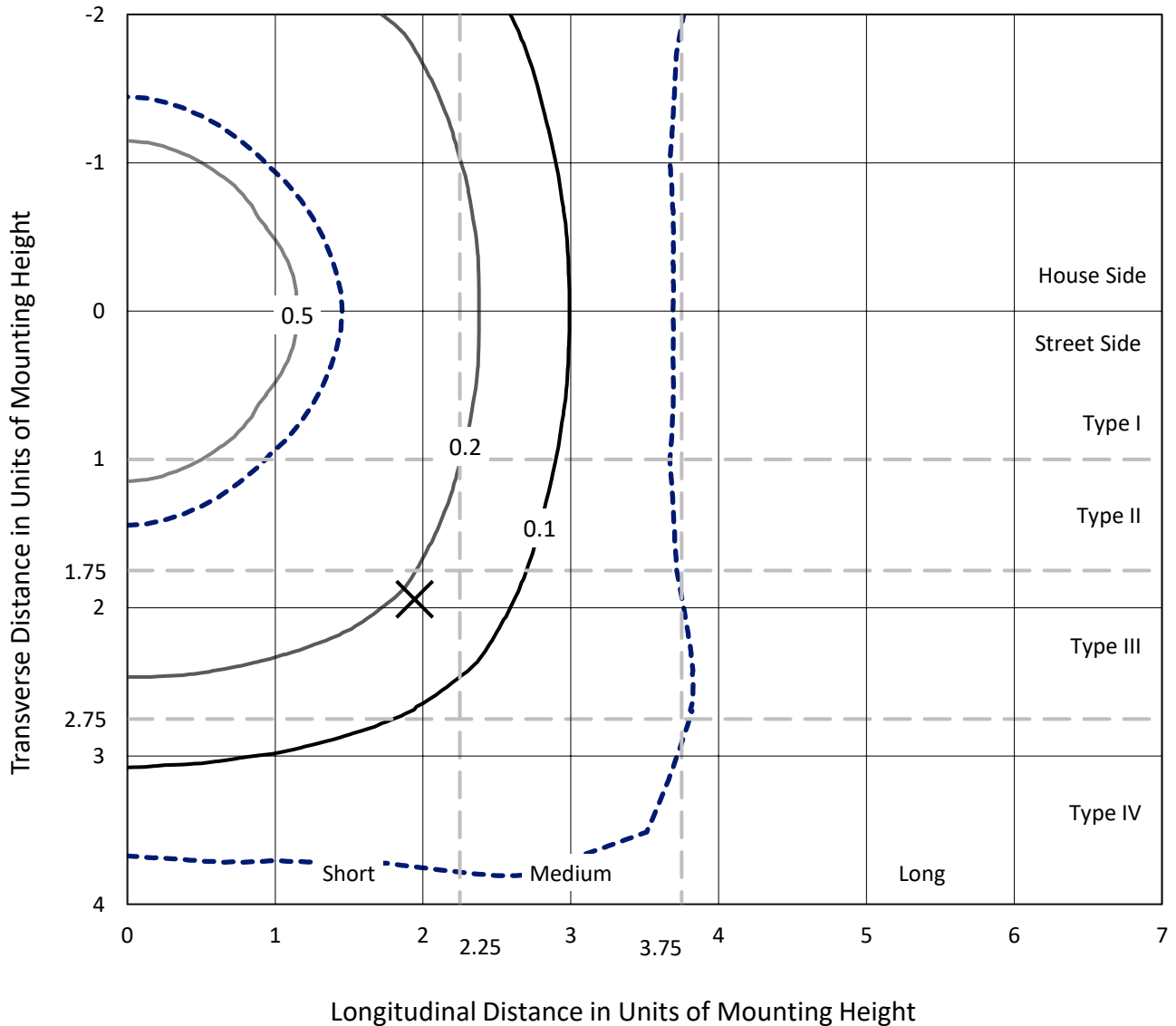




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Iso-Footcandle Lines of Horizontal Illumination

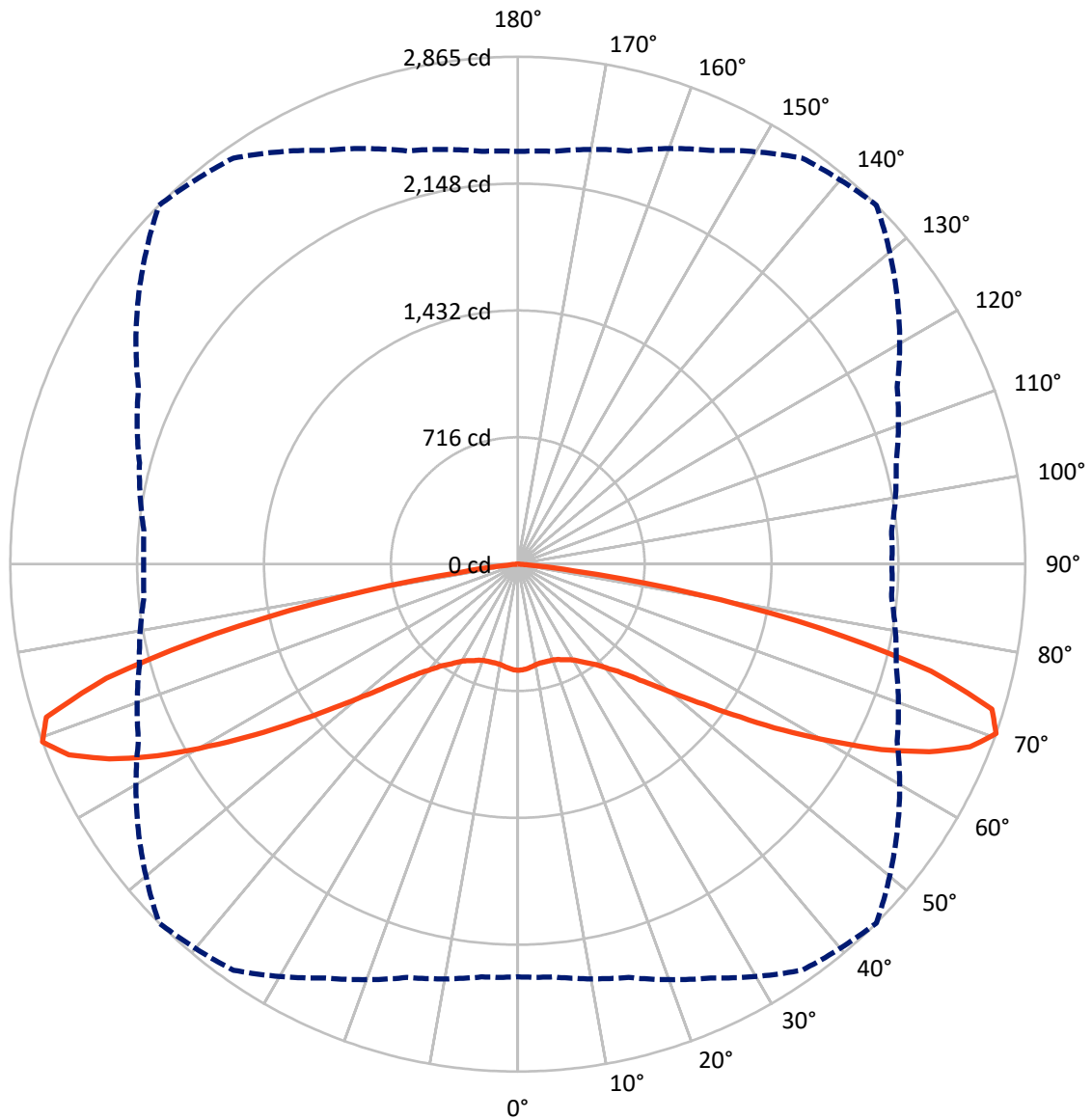
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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	3538.0	0.0	3538.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3538.0	0.0	3538.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7076.0	0.0	7076.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	0.8
10°-20°	164.0	2.3
20°-30°	279.4	3.9
30°-40°	433.1	6.1
40°-50°	729.0	10.3
50°-60°	1326.4	18.7
60°-70°	2245.6	31.7
70°-80°	1738.2	24.6
80°-90°	104.2	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°	7076.0	100.0
0°-180°	7076.0	100.0



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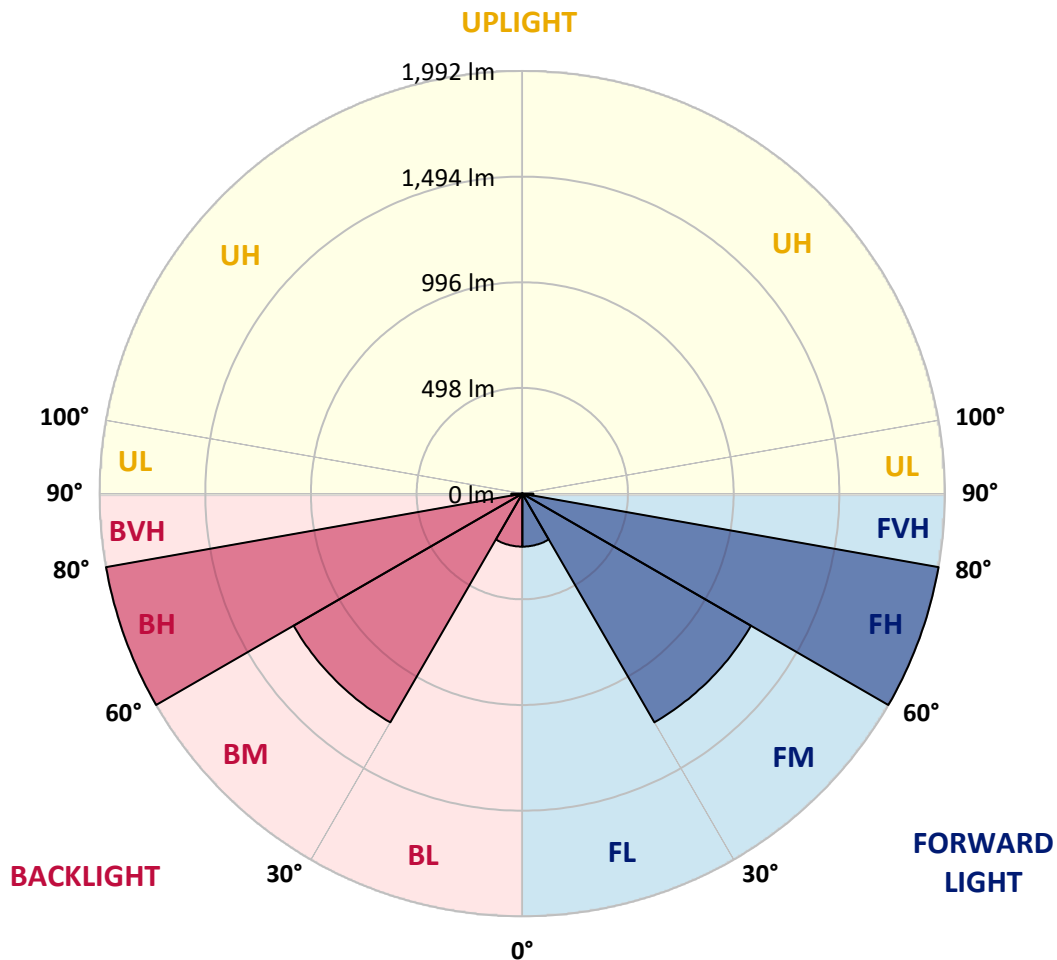
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	249.7	3.5			
FM (30°-60°)	1244.3	17.6			
FH (60°-80°)	1991.9	28.2			G2/5000
FVH (80°-90°)	52.1	0.7			G1/100
BL (0°-30°)	249.7	3.5	B1/500		
BM (30°-60°)	1244.3	17.6	B2/2500		
BH (60°-80°)	1991.9	28.2	B3/2500		G2/5000
BVH (80°-90°)	52.1	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°	599.1	599.1	599.1	599.1	599.1	599.1	599.1	599.1	599.1	599.1	599.1
2.5°	597.6	597.9	597.9	597.2	596.8	596.8	596.5	596.5	597.6	597.9	598.3
5°	592.3	592.3	592.3	592.0	591.2	591.2	590.5	590.5	590.8	592.0	591.2
7.5°	585.2	586.0	586.0	584.5	583.4	583.4	583.0	583.4	583.7	584.9	584.5
10°	583.0	583.4	581.5	578.9	577.0	575.9	576.3	577.0	578.9	579.6	580.0
12.5°	584.5	584.5	581.1	577.4	574.0	572.5	572.2	574.8	578.1	580.4	581.1
15°	586.4	585.6	581.5	576.6	573.3	572.9	572.5	574.4	579.3	583.7	584.1
17.5°	587.5	587.1	581.9	575.9	574.0	574.0	573.7	575.2	580.4	586.0	586.4
20°	591.2	590.1	584.1	577.8	576.3	577.0	575.9	577.8	583.4	590.1	591.6
22.5°	598.7	597.6	591.6	585.2	584.5	584.5	584.1	586.0	592.0	599.1	600.2
25°	607.7	606.5	600.9	596.5	597.2	598.7	597.9	598.3	603.2	609.2	611.0
27.5°	619.6	617.8	612.9	609.2	611.4	611.4	611.4	611.0	614.0	619.6	621.5
30°	634.2	633.5	628.2	627.8	629.7	627.8	627.8	628.2	628.6	633.8	635.7
32.5°	653.3	651.8	649.1	648.4	653.6	655.1	649.9	645.0	647.7	652.9	654.0
35°	684.7	682.4	678.7	674.6	678.7	685.8	674.6	670.8	677.6	684.7	685.4
37.5°	727.3	726.1	720.2	712.7	712.3	719.8	708.2	707.8	720.5	729.1	730.2
40°	780.7	781.8	774.3	767.2	763.5	769.5	760.5	763.9	776.2	785.9	785.2
42.5°	855.8	851.7	840.1	833.4	829.3	827.0	824.8	830.0	843.9	854.3	862.5
45°	943.6	942.1	927.6	919.3	910.4	907.0	906.3	915.6	932.4	945.1	946.3
47.5°	1043.0	1039.7	1030.3	1021.7	1018.4	1014.3	1010.5	1017.6	1034.5	1043.4	1046.0
50°	1145.4	1146.2	1146.2	1144.7	1148.1	1148.8	1138.7	1141.3	1150.7	1149.9	1149.2
52.5°	1262.4	1266.5	1286.0	1287.8	1303.9	1314.7	1296.4	1285.6	1282.2	1262.0	1263.5
55°	1399.9	1403.7	1432.8	1462.0	1505.3	1523.6	1485.2	1451.5	1427.6	1397.0	1398.5
57.5°	1571.5	1573.4	1601.0	1657.1	1725.8	1768.8	1701.2	1634.6	1586.1	1556.9	1545.3
60°	1756.1	1758.0	1798.3	1866.7	1973.6	2025.9	1942.2	1833.5	1772.2	1727.7	1730.7
62.5°	1977.7	1985.2	2021.4	2115.6	2245.3	2304.0	2193.0	2047.6	1964.6	1909.3	1911.6
65°	2215.0	2227.7	2267.3	2370.9	2490.5	2553.6	2417.6	2249.8	2146.6	2079.0	2086.1
67.5°	2369.0	2380.2	2437.4	2551.7	2700.9	2753.2	2577.5	2382.1	2253.1	2172.4	2157.5
70°	2329.8	2339.1	2415.3	2577.5	2798.4	2864.5	2615.7	2362.6	2210.9	2117.9	2111.9
72.5°	2056.6	2037.1	2148.5	2381.3	2687.0	2798.0	2495.7	2157.8	1966.9	1871.2	1860.0
75°	1362.9	1405.2	1569.6	1843.9	2273.3	2410.9	2130.2	1732.6	1492.3	1412.7	1400.3
77.5°	455.6	488.1	634.2	1045.3	1549.8	1756.5	1552.1	1133.1	801.6	645.8	648.8
80°	120.7	119.2	154.3	287.4	669.7	1017.3	779.6	383.8	210.0	152.1	144.3
82.5°	43.4	48.6	62.4	79.6	177.5	316.2	223.1	107.6	78.9	58.3	56.4
85°	19.1	18.7	26.9	31.8	44.5	59.0	52.3	45.6	40.0	26.5	24.7
87.5°	4.1	4.1	6.4	4.9	7.8	7.8	9.7	11.6	12.0	7.8	6.4
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)