

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: P452109

Luminaire Tested: **GALN-SA3A-740-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452109
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-740-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14085 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

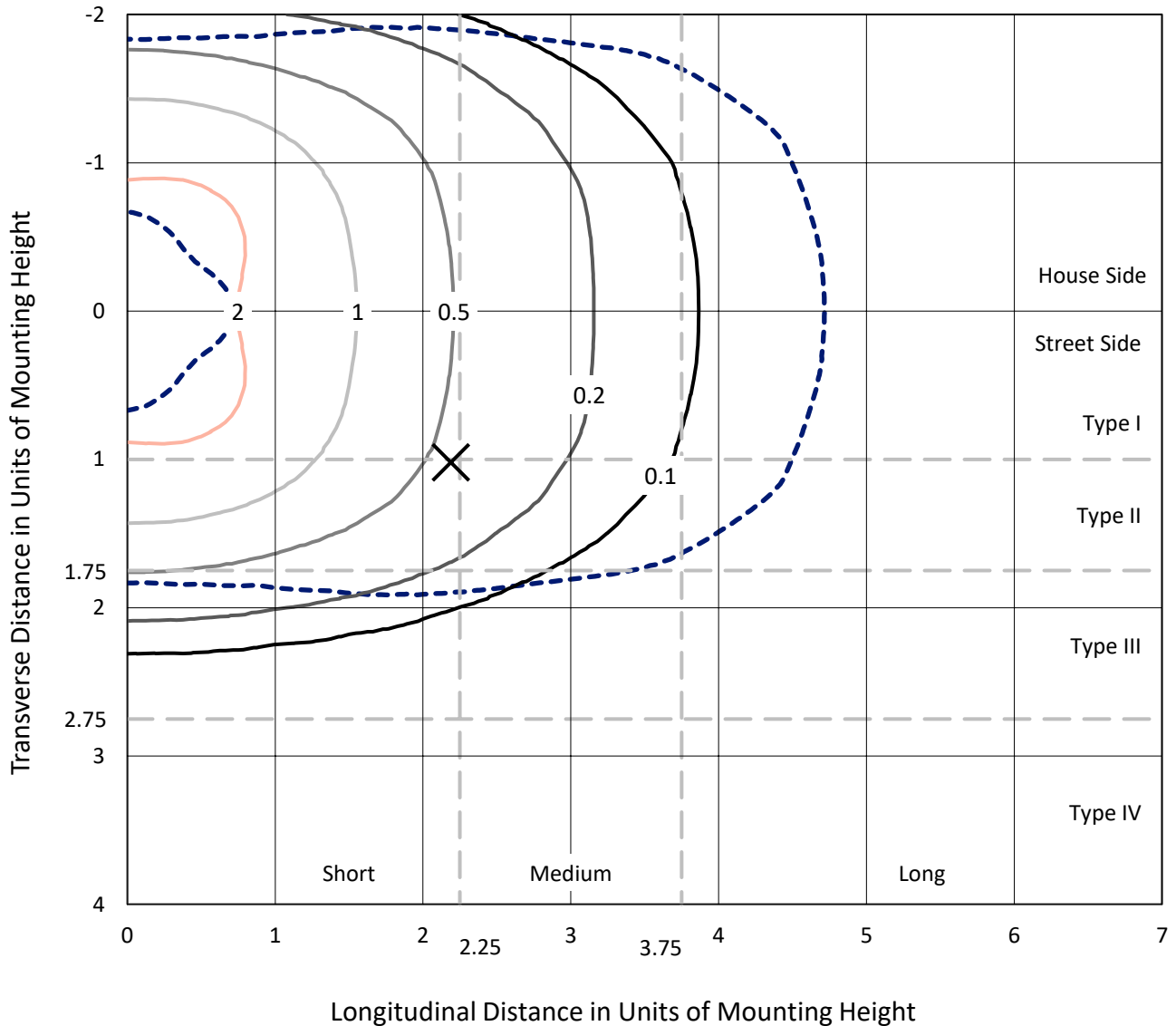
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

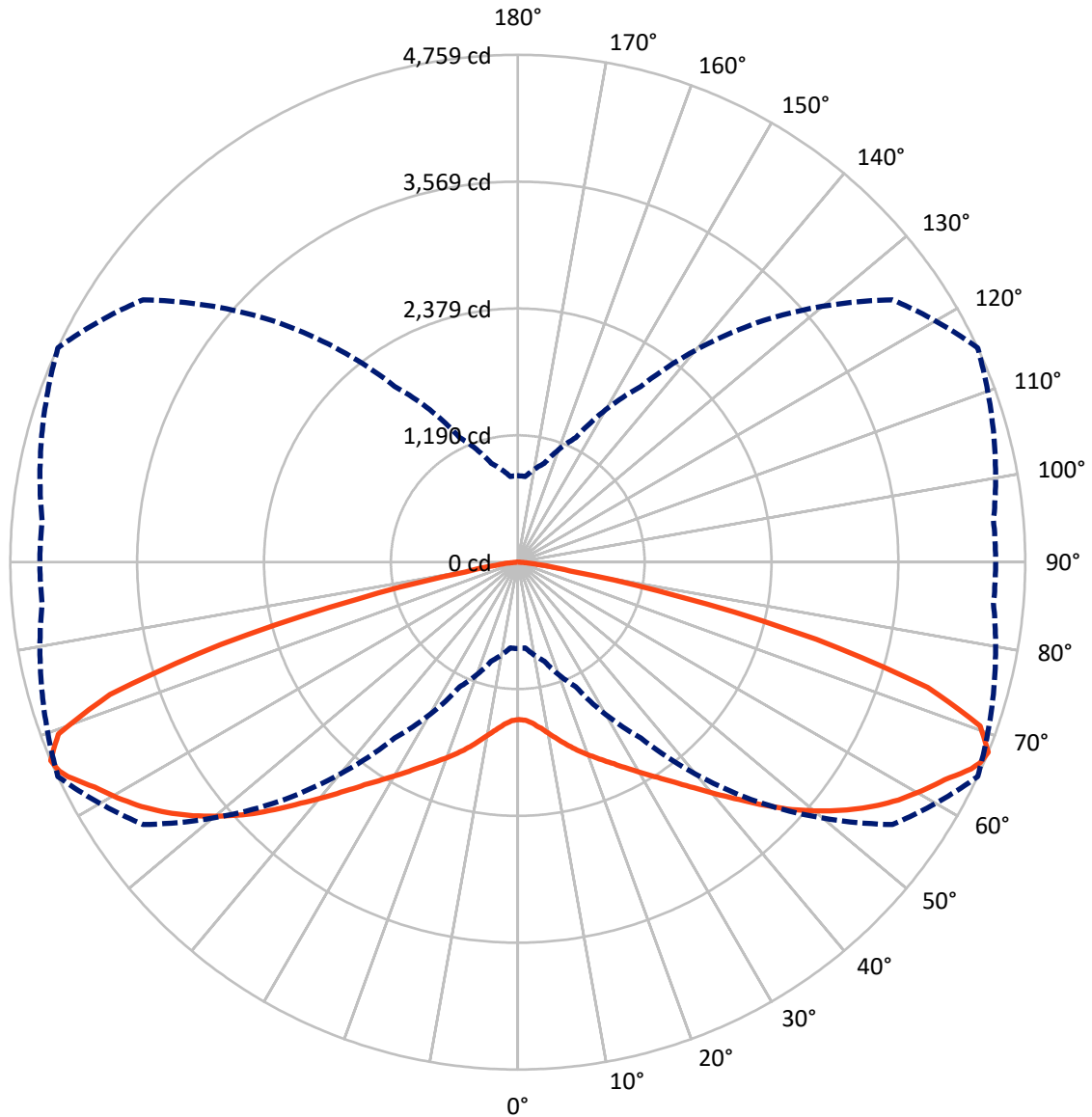
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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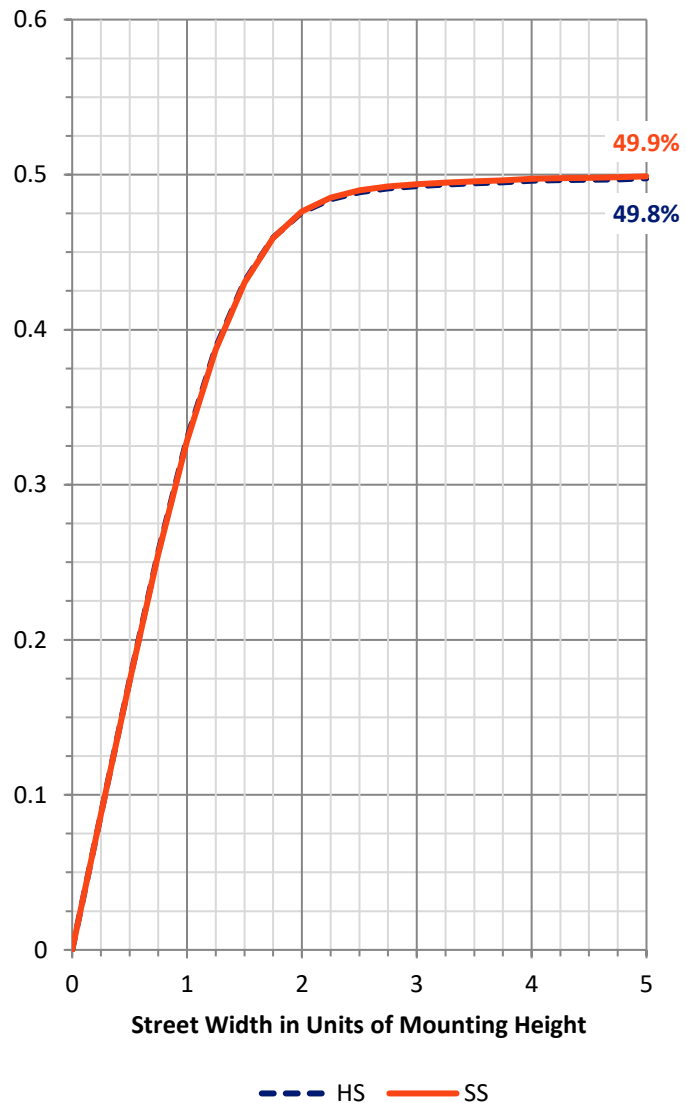
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7042.5	0.0	7042.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7042.5	0.0	7042.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14085.0	0.0	14085.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	1.0
10°-20°	487.0	3.5
20°-30°	952.6	6.8
30°-40°	1620.2	11.5
40°-50°	2564.3	18.2
50°-60°	3400.2	24.1
60°-70°	3207.4	22.8
70°-80°	1585.6	11.3
80°-90°	122.2	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°	14085.0	100.0
0°-180°	14085.0	100.0



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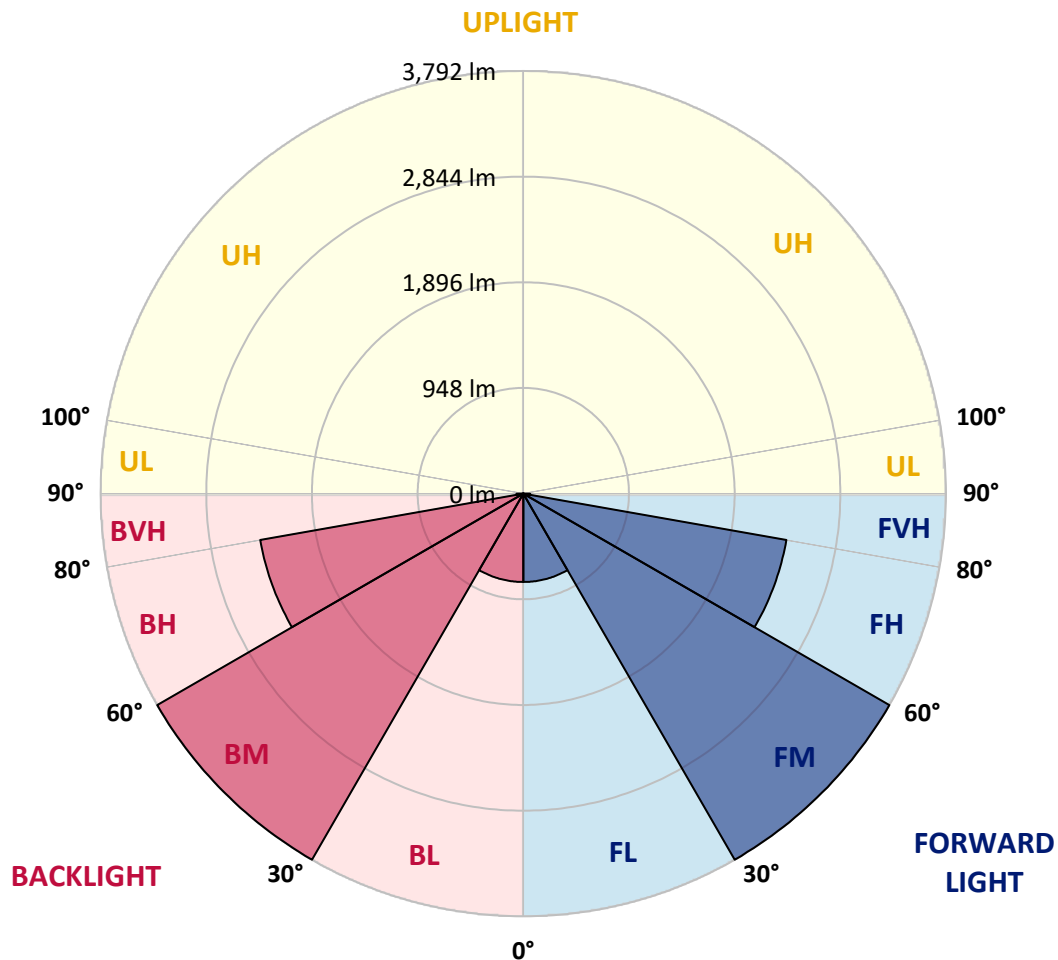
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	792.5	5.6			
FM (30°-60°)	3792.4	26.9			
FH (60°-80°)	2396.5	17.0			G2/5000
FVH (80°-90°)	61.1	0.4			G1/100
BL (0°-30°)	792.5	5.6	B2/1000		
BM (30°-60°)	3792.4	26.9	B3/5000		
BH (60°-80°)	2396.5	17.0	B3/2500		G3/2500
BVH (80°-90°)	61.1	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°	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3
2.5°	1467.7	1469.2	1470.8	1473.0	1476.0	1480.6	1483.6	1485.8	1491.9	1492.6	1491.9
5°	1462.5	1464.0	1467.7	1474.5	1484.3	1497.9	1508.5	1521.3	1531.1	1537.9	1536.4
7.5°	1461.7	1464.7	1470.8	1485.1	1504.0	1527.3	1551.5	1573.4	1592.2	1607.3	1605.1
10°	1473.8	1477.5	1487.4	1508.5	1537.9	1571.9	1605.8	1638.3	1665.4	1685.1	1691.9
12.5°	1494.1	1497.2	1515.3	1547.0	1589.2	1631.5	1670.0	1710.0	1747.7	1780.9	1780.9
15°	1529.6	1534.9	1557.5	1603.6	1655.6	1704.7	1743.9	1786.2	1826.9	1864.7	1876.0
17.5°	1578.7	1586.2	1620.2	1679.0	1745.4	1790.7	1827.7	1862.4	1897.9	1934.1	1939.4
20°	1645.8	1653.4	1698.6	1769.6	1848.1	1902.4	1927.3	1935.6	1953.0	1987.7	1992.2
22.5°	1737.1	1744.7	1795.2	1875.2	1962.8	2021.6	2032.2	2012.6	2008.0	2035.2	2038.2
25°	1840.5	1847.3	1905.4	1991.4	2082.0	2146.1	2143.1	2094.8	2067.7	2084.3	2088.8
27.5°	1956.7	1966.5	2025.4	2114.4	2212.5	2269.1	2260.1	2189.9	2131.8	2128.8	2130.3
30°	2105.4	2116.0	2171.8	2257.1	2353.7	2405.7	2386.9	2292.5	2202.7	2172.5	2172.5
32.5°	2262.3	2288.8	2345.4	2434.4	2509.9	2547.6	2518.9	2405.7	2286.5	2244.2	2242.0
35°	2466.8	2481.2	2537.0	2623.8	2680.4	2709.8	2654.7	2533.3	2395.9	2346.1	2339.3
37.5°	2666.8	2678.9	2743.8	2826.8	2895.5	2894.0	2819.3	2684.9	2531.7	2475.9	2471.4
40°	2871.3	2884.2	2958.1	3034.3	3103.0	3097.0	3006.4	2856.2	2693.2	2630.6	2642.7
42.5°	3048.7	3063.0	3146.8	3255.4	3317.3	3315.8	3210.9	3041.9	2872.1	2816.2	2826.8
45°	3210.1	3223.0	3320.3	3444.8	3535.4	3546.7	3432.0	3253.2	3078.8	3007.2	3010.2
47.5°	3324.1	3348.2	3450.1	3592.7	3715.7	3755.7	3643.3	3468.2	3267.5	3192.8	3197.3
50°	3410.9	3426.0	3536.9	3699.1	3854.6	3937.6	3847.0	3667.4	3456.2	3376.9	3387.5
52.5°	3421.4	3439.6	3560.3	3747.4	3946.7	4072.7	4028.2	3862.1	3648.6	3567.1	3589.7
55°	3335.4	3346.0	3490.1	3717.3	3982.9	4173.0	4184.4	4043.2	3832.0	3770.1	3785.2
57.5°	3090.2	3117.3	3299.9	3576.1	3933.1	4226.6	4301.3	4207.8	4017.6	3956.5	3980.6
60°	2688.0	2715.1	2898.5	3248.6	3745.2	4201.7	4397.9	4353.4	4185.9	4136.8	4149.6
62.5°	2106.1	2103.9	2331.0	2760.4	3371.6	4079.5	4469.6	4493.8	4351.9	4290.0	4309.6
65°	1365.1	1371.9	1591.5	2054.1	2807.9	3768.6	4485.5	4672.6	4514.9	4421.3	4435.6
66°	1098.0	1118.3	1304.7	1731.1	2520.4	3564.8	4437.9	4725.4	4564.7	4451.5	4458.3
67.5°	810.5	806.7	959.9	1288.9	2012.6	3177.7	4289.3	4758.6	4621.3	4478.7	4481.7
70°	462.6	461.8	516.2	707.8	1183.2	2237.4	3615.4	4599.4	4736.0	4576.8	4568.5
72.5°	338.1	335.8	343.4	390.9	577.3	1129.7	2494.0	4019.9	4677.1	4560.9	4537.5
75°	283.7	282.2	280.7	286.8	323.7	511.6	1323.6	2891.7	4058.3	4281.0	4256.8
77.5°	231.7	231.7	232.4	230.9	232.4	269.4	548.6	1550.0	2471.4	2758.9	2826.0
80°	181.1	180.4	193.2	187.9	175.8	172.8	243.0	498.8	820.3	815.7	673.1
82.5°	133.6	124.5	147.2	143.4	129.8	110.2	141.9	212.8	273.9	178.1	132.1
85°	84.5	83.8	104.1	95.1	79.2	52.1	67.9	91.3	113.2	68.7	55.8
87.5°	15.1	14.3	33.2	24.1	24.1	15.1	18.9	24.9	37.0	25.7	18.9
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)