

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: P458573

Luminaire Tested: **GALN-SA1C-735-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458573
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-SA1C-735-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6936 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 57
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

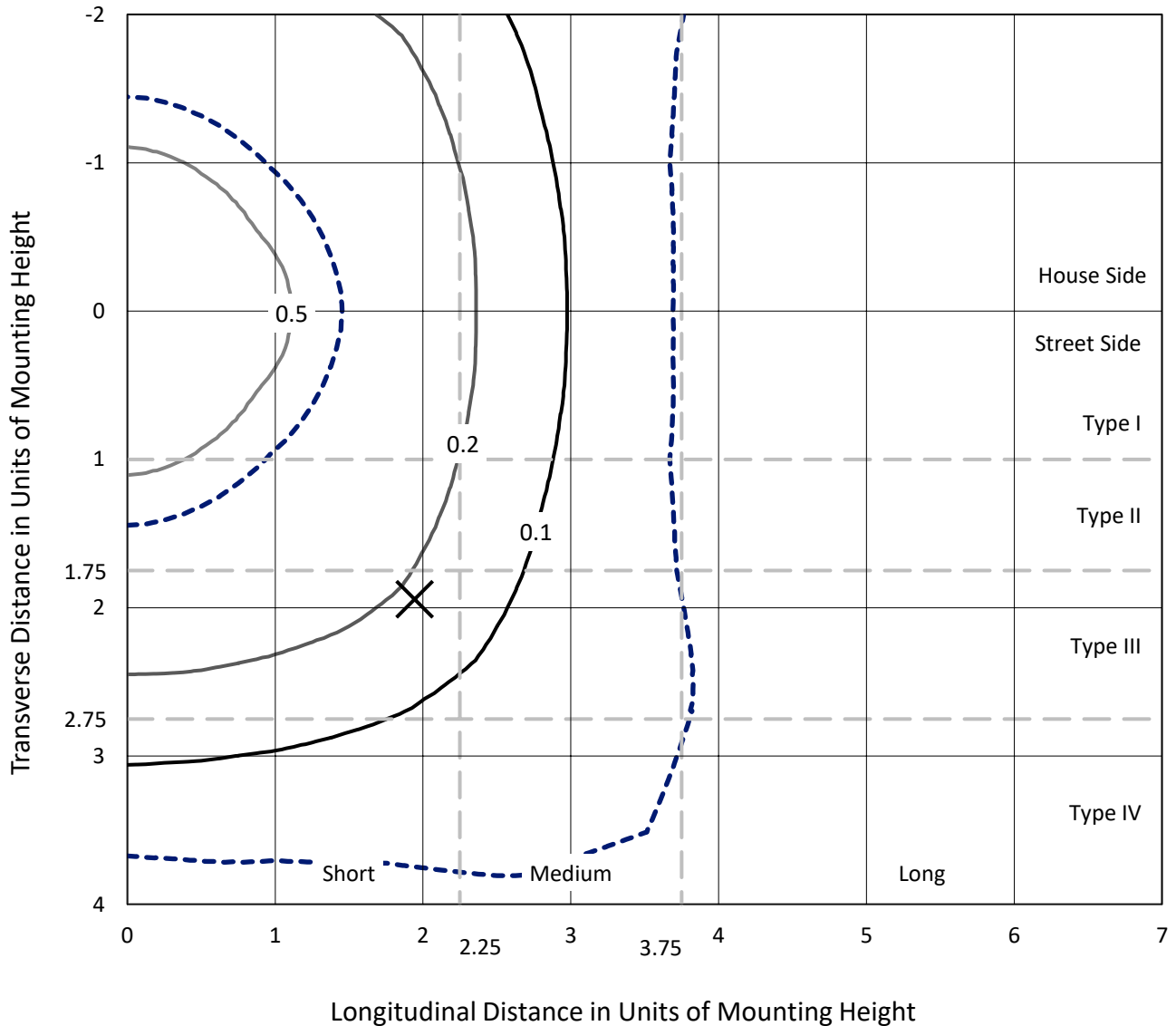




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Iso-Footcandle Lines of Horizontal Illumination

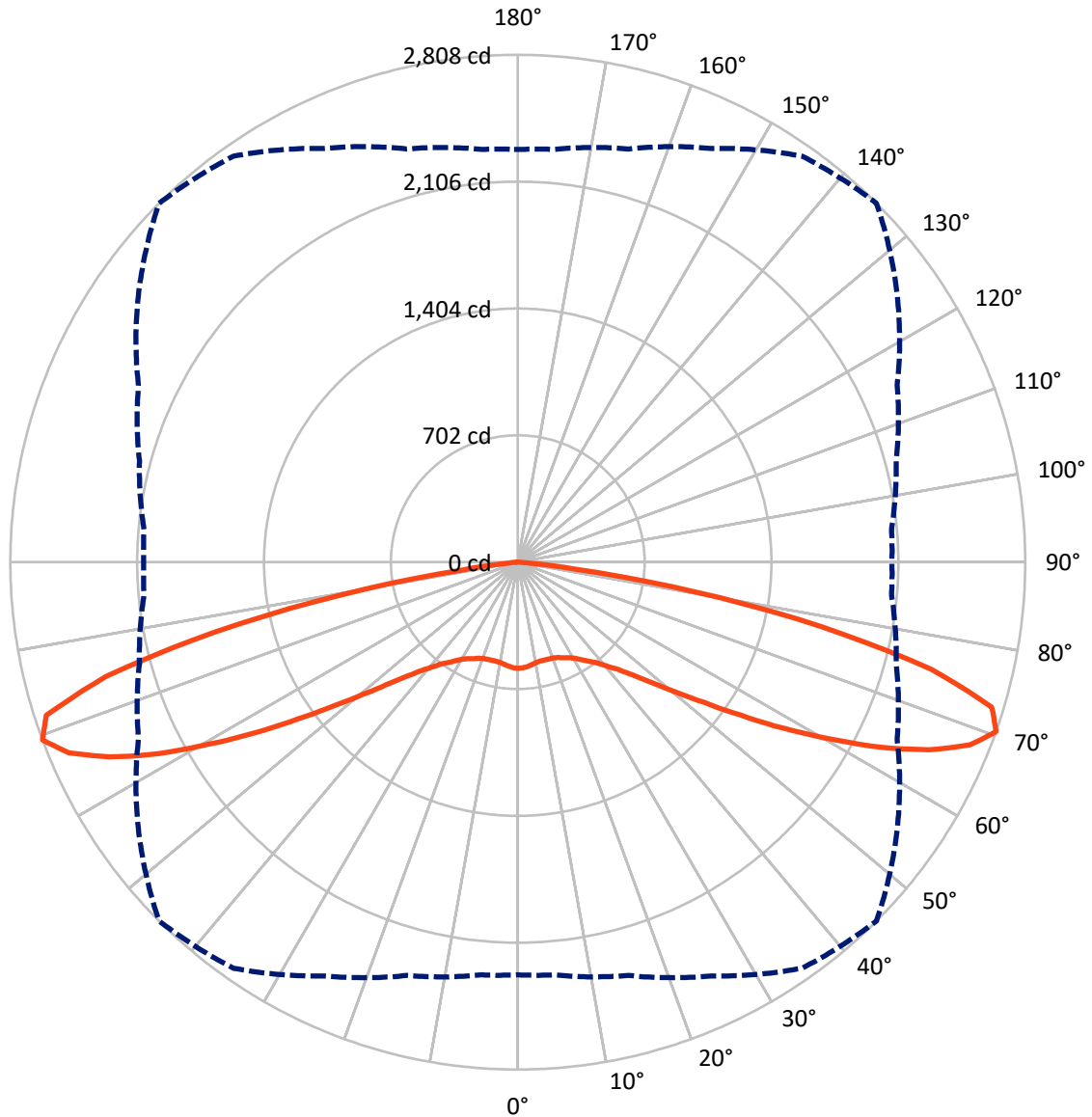
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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	3468.0	0.0	3468.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3468.0	0.0	3468.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6936.0	0.0	6936.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.9	0.8
10°-20°	160.8	2.3
20°-30°	273.9	3.9
30°-40°	424.6	6.1
40°-50°	714.6	10.3
50°-60°	1300.2	18.7
60°-70°	2201.2	31.7
70°-80°	1703.8	24.6
80°-90°	102.1	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°	6936.0	100.0
0°-180°	6936.0	100.0



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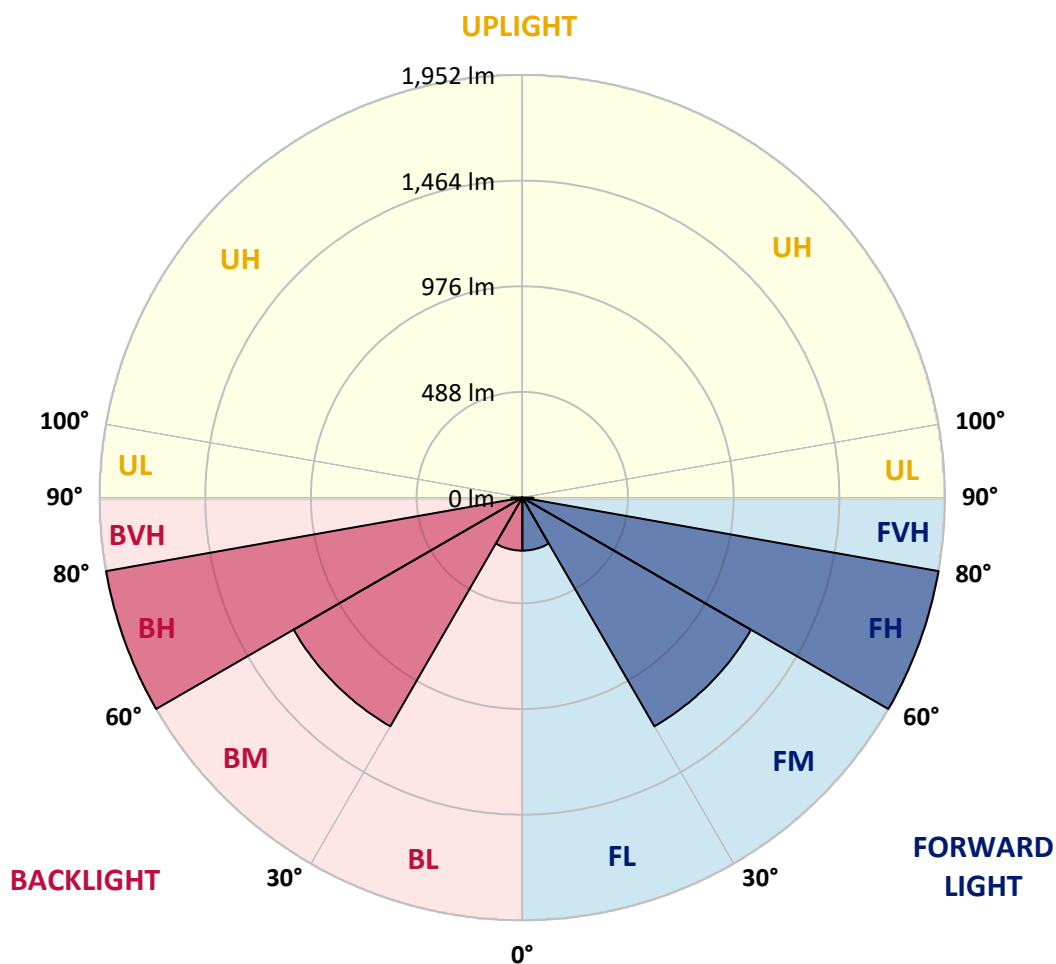
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	244.8	3.5			
FM (30°-60°)	1219.7	17.6			
FH (60°-80°)	1952.5	28.1			G2/5000
FVH (80°-90°)	51.0	0.7			G1/100
BL (0°-30°)	244.8	3.5	B1/500		
BM (30°-60°)	1219.7	17.6	B2/2500		
BH (60°-80°)	1952.5	28.1	B3/2500		G2/5000
BVH (80°-90°)	51.0	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°	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2
2.5°	585.8	586.1	586.1	585.4	585.0	585.0	584.7	584.7	585.8	586.1	586.5
5°	580.6	580.6	580.6	580.3	579.5	579.5	578.8	578.8	579.2	580.3	579.5
7.5°	573.7	574.4	574.4	572.9	571.8	571.8	571.5	571.8	572.2	573.3	572.9
10°	571.5	571.8	570.0	567.4	565.6	564.5	564.9	565.6	567.4	568.2	568.5
12.5°	572.9	572.9	569.6	566.0	562.7	561.2	560.8	563.4	566.7	568.9	569.6
15°	574.8	574.0	570.0	565.2	561.9	561.6	561.2	563.0	567.8	572.2	572.6
17.5°	575.9	575.5	570.4	564.5	562.7	562.7	562.3	563.8	568.9	574.4	574.8
20°	579.5	578.4	572.6	566.3	564.9	565.6	564.5	566.3	571.8	578.4	579.9
22.5°	586.9	585.8	579.9	573.7	572.9	572.9	572.6	574.4	580.3	587.2	588.3
25°	595.6	594.5	589.0	584.7	585.4	586.9	586.1	586.5	591.2	597.1	598.9
27.5°	607.4	605.5	600.8	597.1	599.3	599.3	599.3	598.9	601.9	607.4	609.2
30°	621.7	620.9	615.8	615.4	617.3	615.4	615.4	615.8	616.2	621.3	623.1
32.5°	640.3	638.9	636.3	635.6	640.7	642.2	637.0	632.3	634.8	640.0	641.1
35°	671.1	668.9	665.2	661.2	665.2	672.2	661.2	657.6	664.1	671.1	671.8
37.5°	712.9	711.8	705.9	698.6	698.2	705.5	694.2	693.8	706.3	714.7	715.8
40°	765.3	766.3	759.0	752.1	748.4	754.3	745.5	748.8	760.9	770.4	769.6
42.5°	838.9	834.9	823.5	816.9	812.9	810.7	808.5	813.6	827.2	837.4	845.5
45°	925.0	923.5	909.2	901.2	892.4	889.1	888.3	897.5	914.0	926.4	927.5
47.5°	1022.4	1019.1	1010.0	1001.5	998.2	994.2	990.5	997.5	1014.0	1022.8	1025.3
50°	1122.8	1123.5	1123.5	1122.1	1125.3	1126.1	1116.2	1118.8	1127.9	1127.2	1126.4
52.5°	1237.4	1241.5	1260.5	1262.4	1278.1	1288.7	1270.8	1260.2	1256.9	1237.1	1238.5
55°	1372.2	1375.9	1404.5	1433.1	1475.6	1493.5	1455.8	1422.8	1399.4	1369.3	1370.8
57.5°	1540.4	1542.2	1569.3	1624.3	1691.7	1733.8	1667.5	1602.3	1554.7	1526.1	1514.7
60°	1721.4	1723.2	1762.8	1829.8	1934.6	1985.8	1903.8	1797.2	1737.1	1693.5	1696.4
62.5°	1938.6	1945.9	1981.4	2073.8	2200.9	2258.4	2149.6	2007.1	1925.8	1871.5	1873.7
65°	2171.2	2183.7	2222.5	2324.0	2441.2	2503.1	2369.7	2205.3	2104.2	2037.9	2044.8
67.5°	2322.1	2333.1	2389.2	2501.3	2647.4	2698.7	2526.5	2334.9	2208.6	2129.4	2114.8
70°	2283.7	2292.8	2367.6	2526.5	2743.0	2807.9	2563.9	2315.9	2167.2	2076.0	2070.1
72.5°	2015.9	1996.8	2106.0	2334.2	2633.9	2742.7	2446.3	2115.2	1928.0	1834.2	1823.2
75°	1336.0	1377.4	1538.6	1807.4	2228.3	2363.2	2088.0	1698.3	1462.7	1384.7	1372.6
77.5°	446.5	478.4	621.7	1024.6	1519.1	1721.7	1521.3	1110.7	785.8	633.0	635.9
80°	118.3	116.9	151.3	281.7	656.5	997.1	764.2	376.2	205.9	149.1	141.4
82.5°	42.5	47.6	61.2	78.0	174.0	309.9	218.7	105.5	77.3	57.1	55.3
85°	18.7	18.3	26.4	31.1	43.6	57.9	51.3	44.7	39.2	26.0	24.2
87.5°	4.0	4.0	6.2	4.8	7.7	7.7	9.5	11.4	11.7	7.7	6.2
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)