

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: P450946

Luminaire Tested: **GALN-SA1D-740-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450946
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-SA1D-740-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8192 lumens
Efficiency: N/A
Efficacy: 126.0 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

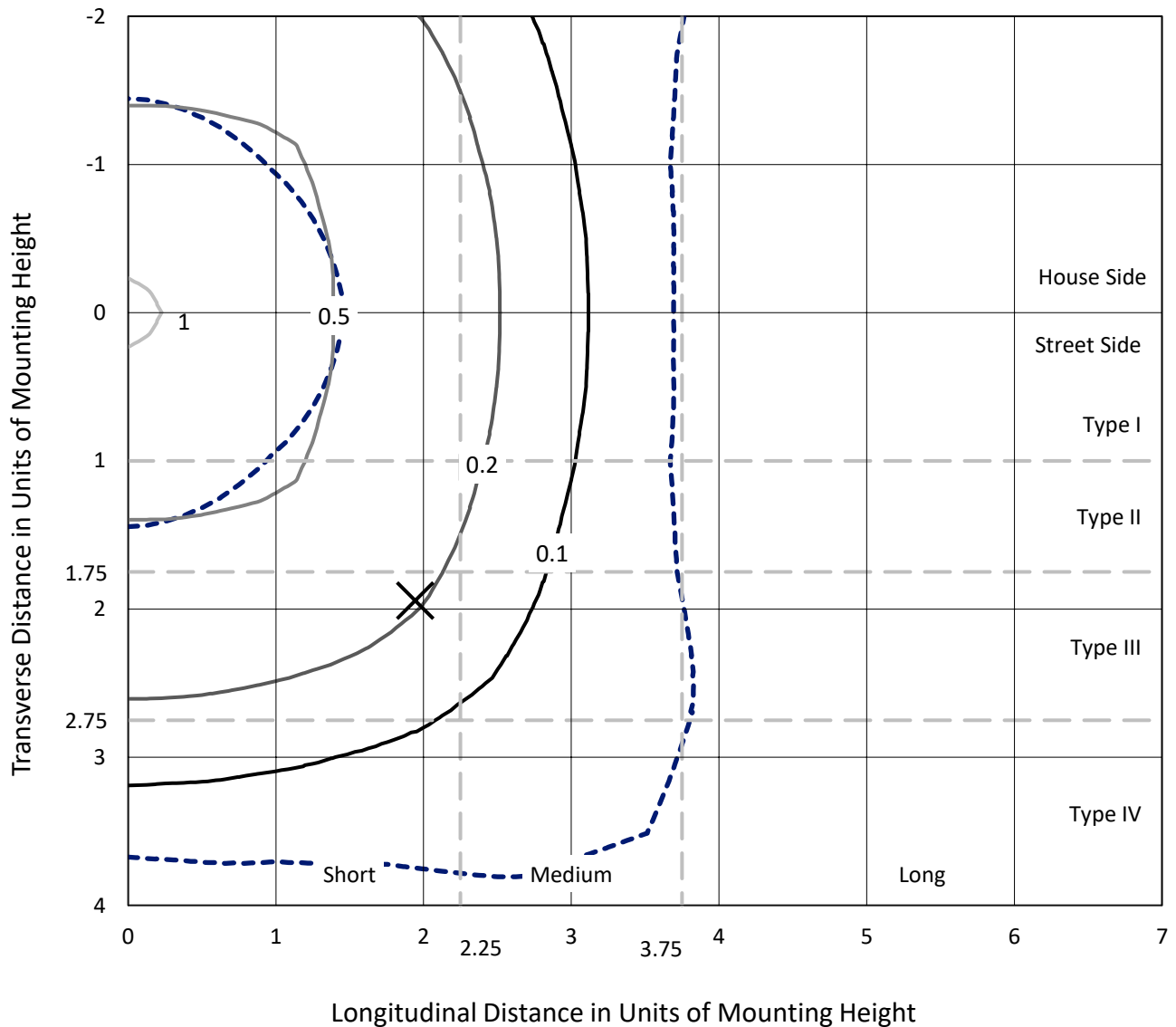
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

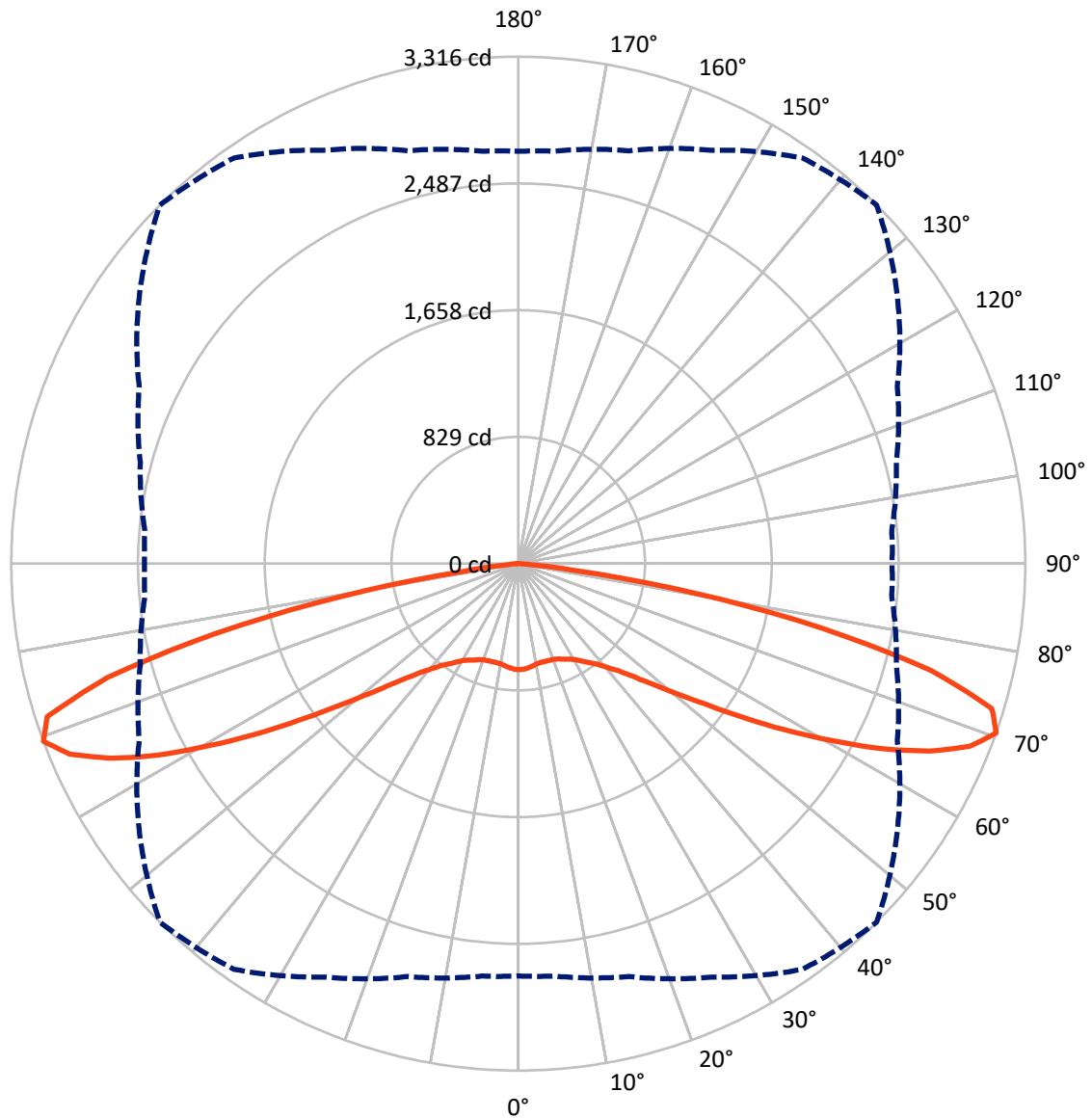
× Max cd
 - - - 1/2 Max cd



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	4096.0	0.0	4096.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4096.0	0.0	4096.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8192.0	0.0	8192.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	0.8
10°-20°	189.9	2.3
20°-30°	323.5	3.9
30°-40°	501.4	6.1
40°-50°	844.0	10.3
50°-60°	1535.6	18.7
60°-70°	2599.8	31.7
70°-80°	2012.3	24.6
80°-90°	120.6	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°	8192.0	100.0
0°-180°	8192.0	100.0

Coefficient of Utilization



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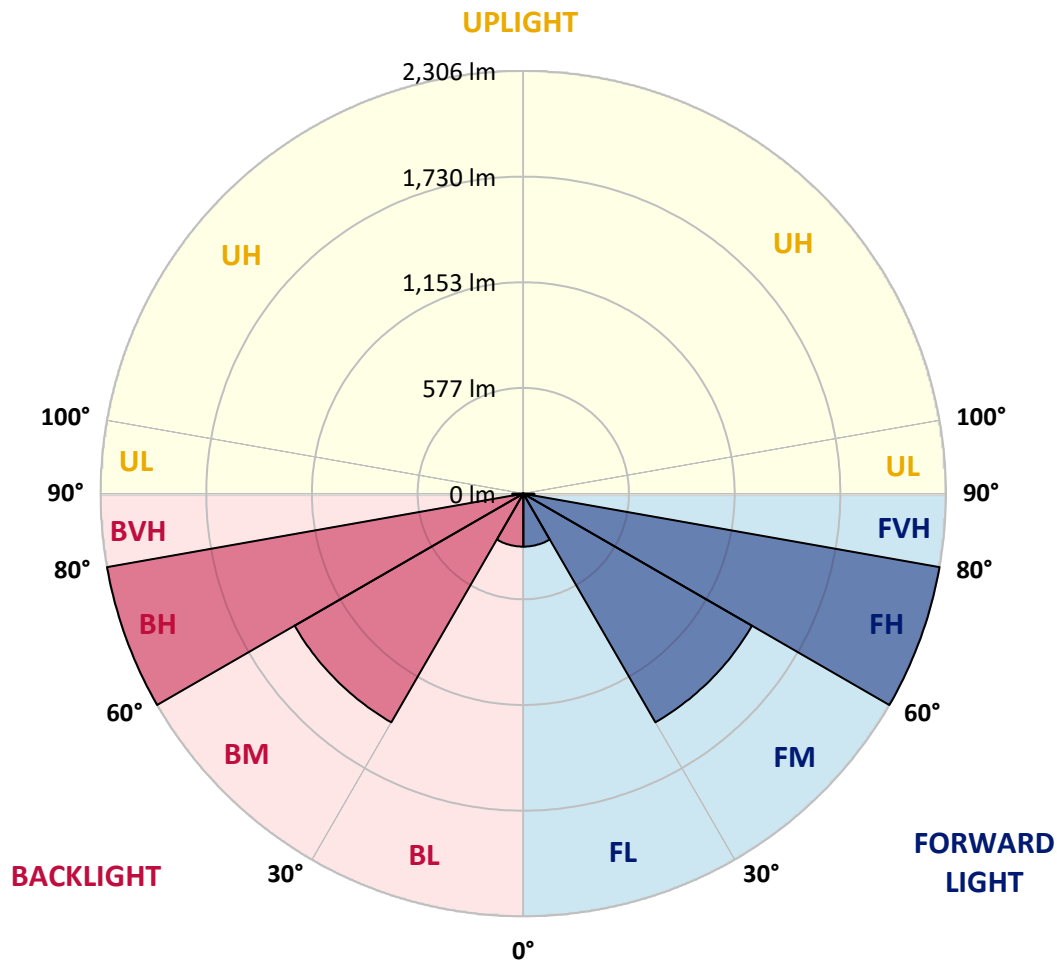
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	289.1	3.5			
FM (30°-60°)	1440.5	17.6			
FH (60°-80°)	2306.0	28.1			G2/5000
FVH (80°-90°)	60.3	0.7			G1/100
BL (0°-30°)	289.1	3.5	B1/500		
BM (30°-60°)	1440.5	17.6	B2/2500		
BH (60°-80°)	2306.0	28.1	B3/2500		G2/5000
BVH (80°-90°)	60.3	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°	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6	693.6
2.5°	691.8	692.3	692.3	691.4	691.0	691.0	690.5	690.5	691.8	692.3	692.7
5°	685.8	685.8	685.8	685.3	684.5	684.5	683.6	683.6	684.0	685.3	684.5
7.5°	677.5	678.4	678.4	676.7	675.4	675.4	674.9	675.4	675.8	677.1	676.7
10°	674.9	675.4	673.2	670.2	668.0	666.7	667.2	668.0	670.2	671.1	671.5
12.5°	676.7	676.7	672.8	668.5	664.6	662.8	662.4	665.4	669.3	671.9	672.8
15°	678.8	678.0	673.2	667.6	663.7	663.3	662.8	665.0	670.6	675.8	676.2
17.5°	680.1	679.7	673.7	666.7	664.6	664.6	664.1	665.9	671.9	678.4	678.8
20°	684.5	683.2	676.2	668.9	667.2	668.0	666.7	668.9	675.4	683.2	684.9
22.5°	693.1	691.8	684.9	677.5	676.7	676.7	676.2	678.4	685.3	693.6	694.9
25°	703.5	702.2	695.7	690.5	691.4	693.1	692.3	692.7	698.3	705.2	707.4
27.5°	717.3	715.2	709.6	705.2	707.8	707.8	707.8	707.4	710.9	717.3	719.5
30°	734.2	733.4	727.3	726.9	729.0	726.9	726.9	727.3	727.7	733.8	736.0
32.5°	756.3	754.6	751.5	750.7	756.7	758.5	752.4	746.8	749.8	755.9	757.2
35°	792.6	790.0	785.7	781.0	785.7	793.9	781.0	776.6	784.4	792.6	793.5
37.5°	842.0	840.7	833.7	825.1	824.6	833.3	819.9	819.5	834.2	844.1	845.4
40°	903.8	905.1	896.5	888.2	883.9	890.8	880.5	884.4	898.6	909.9	909.0
42.5°	990.8	986.0	972.6	964.8	960.1	957.5	954.9	960.9	976.9	989.1	998.6
45°	1092.5	1090.7	1073.9	1064.3	1054.0	1050.1	1049.2	1060.0	1079.5	1094.2	1095.5
47.5°	1207.6	1203.7	1192.8	1182.9	1179.0	1174.2	1169.9	1178.1	1197.6	1208.0	1211.0
50°	1326.1	1327.0	1327.0	1325.2	1329.1	1330.0	1318.3	1321.3	1332.2	1331.3	1330.4
52.5°	1461.5	1466.3	1488.8	1490.9	1509.5	1522.1	1500.9	1488.3	1484.5	1461.1	1462.8
55°	1620.7	1625.1	1658.8	1692.6	1742.8	1764.0	1719.4	1680.4	1652.8	1617.3	1619.0
57.5°	1819.3	1821.5	1853.5	1918.4	1998.0	2047.8	1969.5	1892.5	1836.2	1802.5	1789.0
60°	2033.1	2035.2	2082.0	2161.1	2284.9	2345.4	2248.5	2122.6	2051.7	2000.2	2003.6
62.5°	2289.6	2298.3	2340.3	2449.3	2599.4	2667.3	2538.8	2370.5	2274.5	2210.5	2213.1
65°	2564.4	2579.1	2624.9	2744.8	2883.2	2956.4	2798.9	2604.6	2485.2	2406.9	2415.1
67.5°	2742.6	2755.6	2821.8	2954.2	3126.8	3187.4	2984.1	2757.8	2608.5	2515.0	2497.7
70°	2697.2	2708.0	2796.3	2984.1	3239.8	3316.3	3028.2	2735.3	2559.6	2451.9	2445.0
72.5°	2380.9	2358.4	2487.4	2756.9	3110.8	3239.3	2889.3	2498.2	2277.1	2166.3	2153.3
75°	1577.9	1626.8	1817.2	2134.7	2631.9	2791.1	2466.2	2005.8	1727.6	1635.5	1621.2
77.5°	527.4	565.1	734.2	1210.1	1794.2	2033.5	1796.8	1311.8	928.1	747.6	751.1
80°	139.7	138.0	178.7	332.7	775.3	1177.7	902.5	444.3	243.2	176.1	167.0
82.5°	50.2	56.2	72.3	92.2	205.5	366.0	258.3	124.6	91.3	67.5	65.3
85°	22.1	21.6	31.2	36.8	51.5	68.4	60.6	52.8	46.3	30.7	28.6
87.5°	4.8	4.8	7.4	5.6	9.1	9.1	11.2	13.4	13.8	9.1	7.4
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)