

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: P458601

Luminaire Tested: **GALN-SA1D-735-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458601  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1D-735-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7610 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

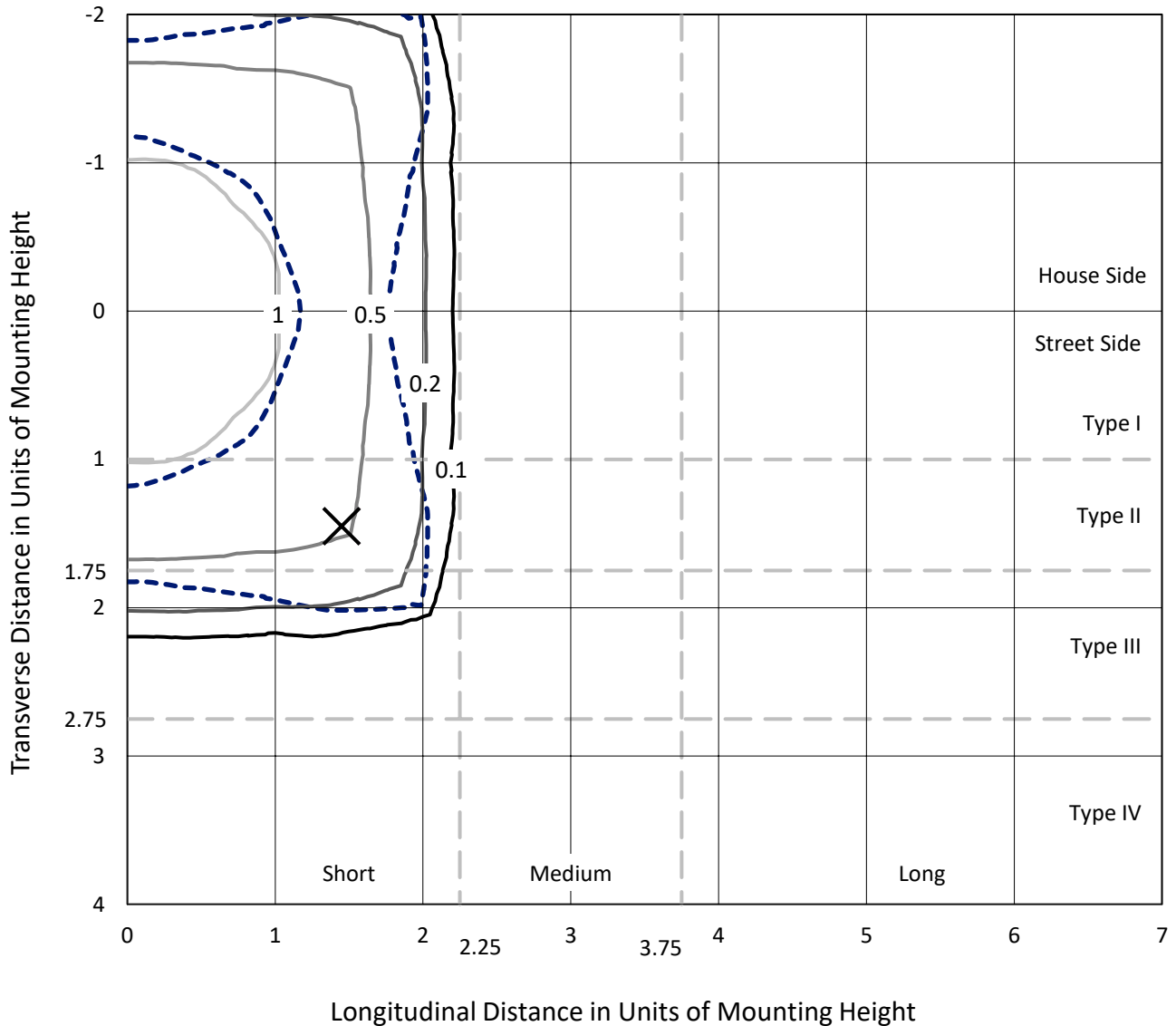
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

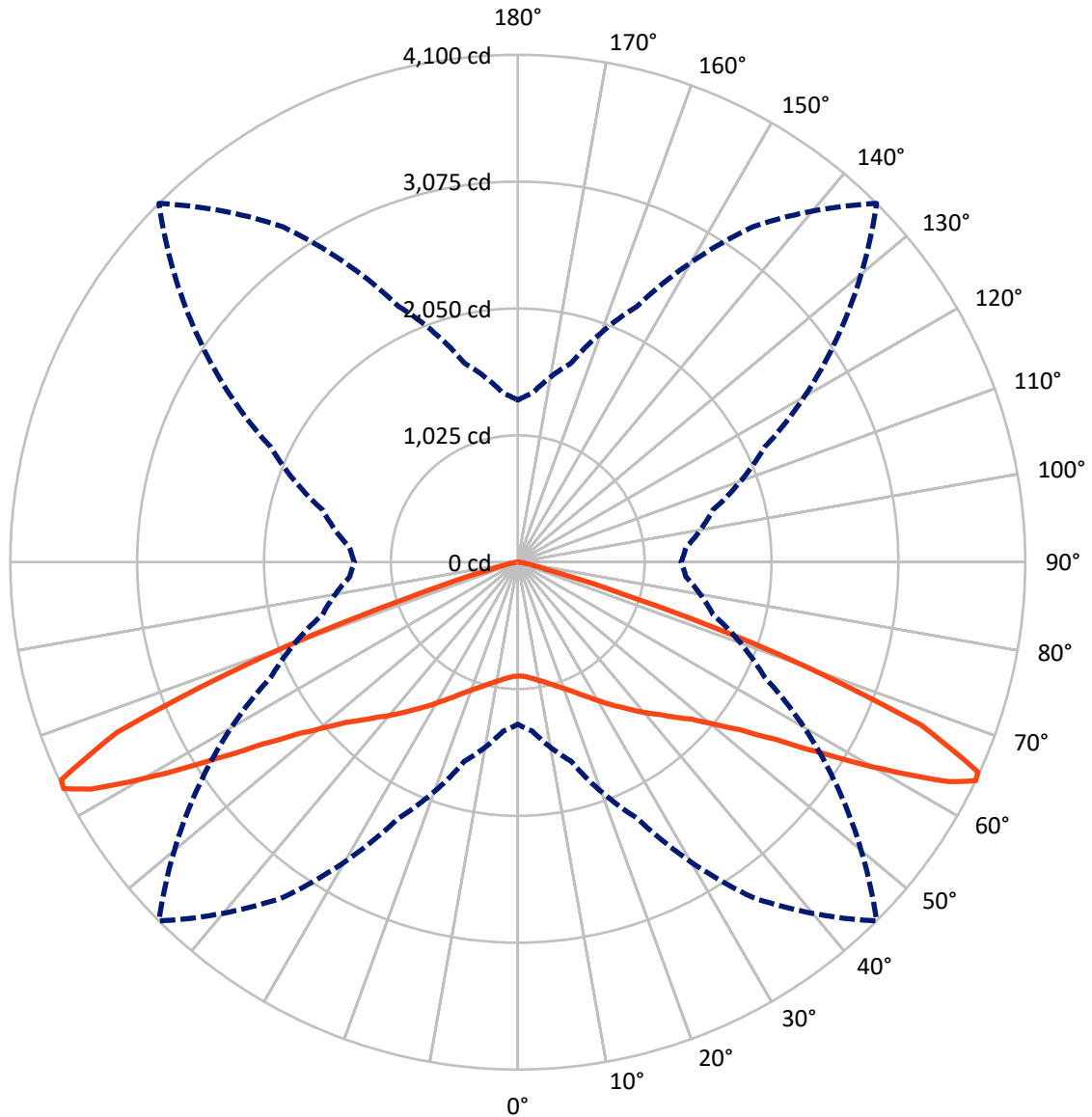
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3805.0	0.0	3805.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3805.0	0.0	3805.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7610.0	0.0	7610.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.4	1.2
10°-20°	291.5	3.8
20°-30°	550.8	7.2
30°-40°	912.2	12.0
40°-50°	1424.1	18.7
50°-60°	2201.6	28.9
60°-70°	1898.5	24.9
70°-80°	215.1	2.8
80°-90°	25.8	0.3
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°	7610.0	100.0
0°-180°	7610.0	100.0

**Coefficient of Utilization**



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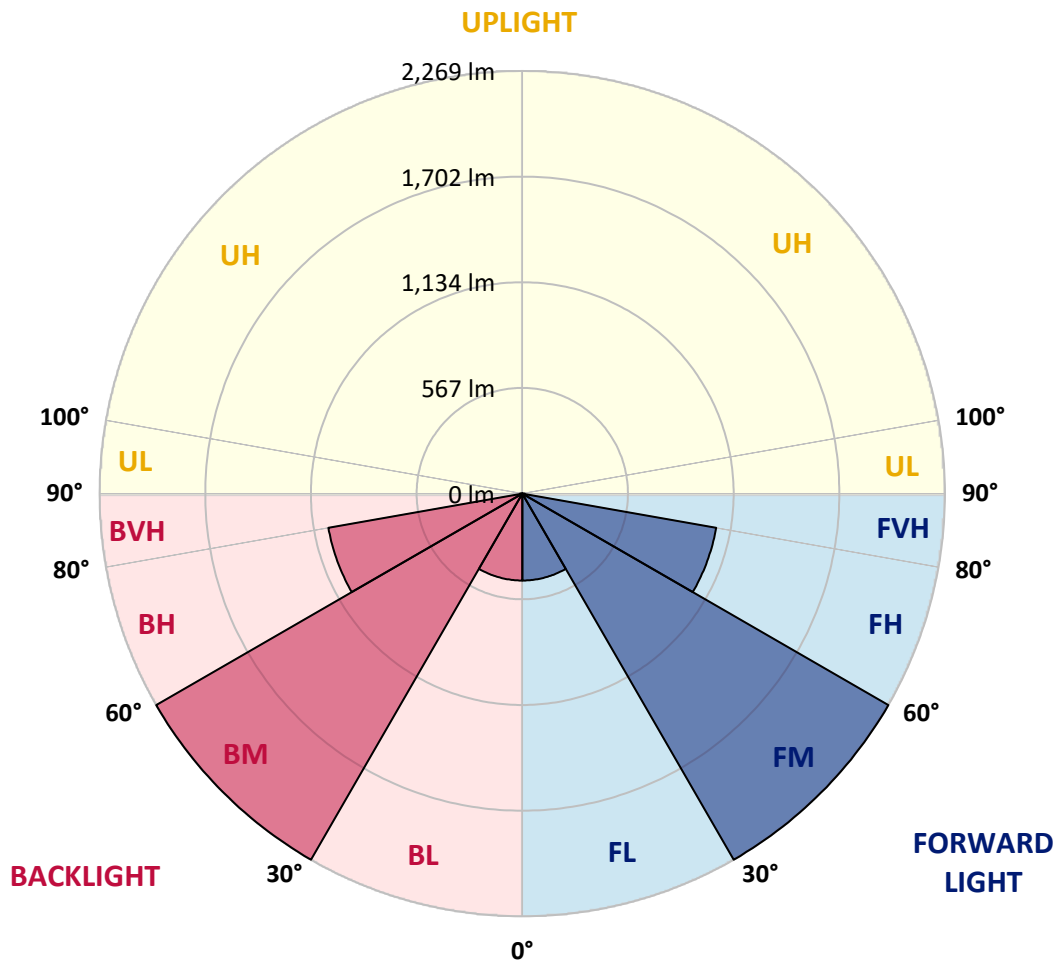
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	466.3	6.1			
FM	(30°-60°)	2269.0	29.8			
FH	(60°-80°)	1056.8	13.9			G1/1800
FVH	(80°-90°)	12.9	0.2			G1/100
BL	(0°-30°)	466.3	6.1	B1/500		
BM	(30°-60°)	2269.0	29.8	B2/2500		
BH	(60°-80°)	1056.8	13.9	B3/2500		G1/1800
BVH	(80°-90°)	12.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	919.8	919.8	919.8	919.8	919.8	919.8	919.8	919.8	919.8	919.8	919.8
2.5°	923.4	925.4	923.8	923.4	923.0	923.0	923.0	923.4	925.0	926.2	925.4
5°	935.1	936.7	935.9	935.5	935.1	935.5	934.7	934.3	935.5	935.5	935.1
7.5°	949.6	951.6	950.8	951.6	952.0	952.4	950.4	948.8	948.4	949.6	948.8
10°	969.4	971.0	971.4	971.8	972.6	972.2	969.8	967.0	966.6	966.1	965.7
12.5°	991.5	992.8	993.2	994.8	996.0	996.4	993.6	991.1	987.1	987.9	986.3
15°	1016.5	1019.0	1018.5	1021.0	1024.2	1025.0	1022.2	1018.1	1014.5	1012.5	1011.3
17.5°	1047.2	1048.8	1048.0	1050.4	1054.4	1056.4	1054.0	1048.8	1045.1	1040.7	1038.3
20°	1083.4	1086.3	1087.1	1087.1	1090.7	1092.7	1089.1	1087.5	1081.8	1078.6	1076.6
22.5°	1124.6	1125.8	1128.2	1130.6	1134.2	1133.4	1132.2	1129.8	1124.6	1121.7	1118.5
25°	1170.9	1172.1	1178.2	1183.4	1184.6	1183.8	1182.2	1181.0	1176.1	1169.7	1167.3
27.5°	1224.9	1227.3	1235.4	1240.2	1240.2	1240.6	1237.4	1241.4	1231.0	1223.3	1222.5
30°	1292.6	1294.2	1301.1	1305.9	1303.5	1301.5	1300.7	1304.7	1293.4	1279.7	1276.5
32.5°	1359.5	1365.2	1371.2	1381.7	1373.2	1369.6	1368.8	1371.6	1358.7	1343.4	1339.0
35°	1431.3	1435.3	1446.6	1455.5	1447.8	1439.3	1443.0	1451.8	1436.5	1416.0	1415.2
37.5°	1510.7	1514.3	1528.8	1538.1	1532.5	1517.9	1524.0	1534.5	1519.2	1493.8	1488.5
40°	1593.3	1601.0	1619.1	1628.8	1619.5	1600.2	1611.5	1622.7	1609.0	1579.6	1567.9
42.5°	1686.0	1698.1	1724.3	1729.2	1711.4	1685.2	1705.0	1723.1	1713.4	1679.6	1675.1
45°	1794.4	1801.7	1834.0	1844.4	1819.8	1787.2	1811.8	1844.8	1837.6	1798.5	1790.0
47.5°	1915.8	1922.6	1956.1	1971.8	1940.8	1896.8	1941.2	1984.3	1979.9	1937.9	1933.9
50°	2059.3	2060.9	2107.2	2125.0	2093.9	2056.0	2095.5	2149.1	2131.4	2077.8	2077.0
52.5°	2216.5	2218.5	2276.9	2311.2	2293.8	2251.1	2297.9	2330.5	2285.4	2215.3	2210.0
55°	2352.7	2362.8	2442.6	2533.7	2557.5	2526.4	2540.5	2525.2	2414.0	2315.6	2300.3
57.5°	2408.3	2428.1	2549.4	2719.5	2874.3	2920.2	2811.4	2665.5	2465.2	2326.1	2311.2
60°	2272.5	2293.8	2482.1	2804.9	3199.9	3399.5	3093.5	2689.3	2348.7	2153.2	2129.8
62.5°	1819.8	1825.9	2102.8	2603.8	3389.8	3906.5	3212.4	2486.5	2009.7	1744.1	1734.8
64°	1309.6	1371.6	1665.1	2283.0	3306.8	4099.6	3143.9	2202.4	1632.4	1363.6	1320.0
65°	979.5	996.4	1342.2	1949.6	3160.4	4085.1	3010.9	1930.7	1351.9	1043.5	995.2
67.5°	370.0	372.0	495.4	971.8	2249.9	3514.7	2297.9	1050.4	569.5	411.9	397.0
70°	153.6	156.4	181.8	326.9	967.0	2256.8	1108.0	378.9	208.4	168.9	166.5
72.5°	112.5	114.1	121.7	145.1	297.5	926.6	364.4	160.8	122.1	109.2	108.0
75°	88.3	89.1	94.7	106.8	138.7	256.8	151.6	110.4	93.1	83.8	83.0
77.5°	67.3	69.3	73.4	81.4	93.1	121.7	100.4	82.6	71.7	64.1	62.9
80°	46.4	48.8	56.4	59.7	62.5	79.0	68.5	62.5	56.0	46.8	43.9
82.5°	28.6	30.2	37.9	40.7	39.5	44.3	43.9	44.7	39.9	29.0	27.0
85°	14.9	15.7	20.6	21.4	19.8	18.1	22.6	26.2	24.6	16.5	16.1
87.5°	3.2	3.6	4.4	4.0	4.4	4.4	5.6	8.5	8.9	5.6	5.2
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)