

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: P450902

Luminaire Tested: **GALN-SA1D-727-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450902  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1D-727-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6535 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

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

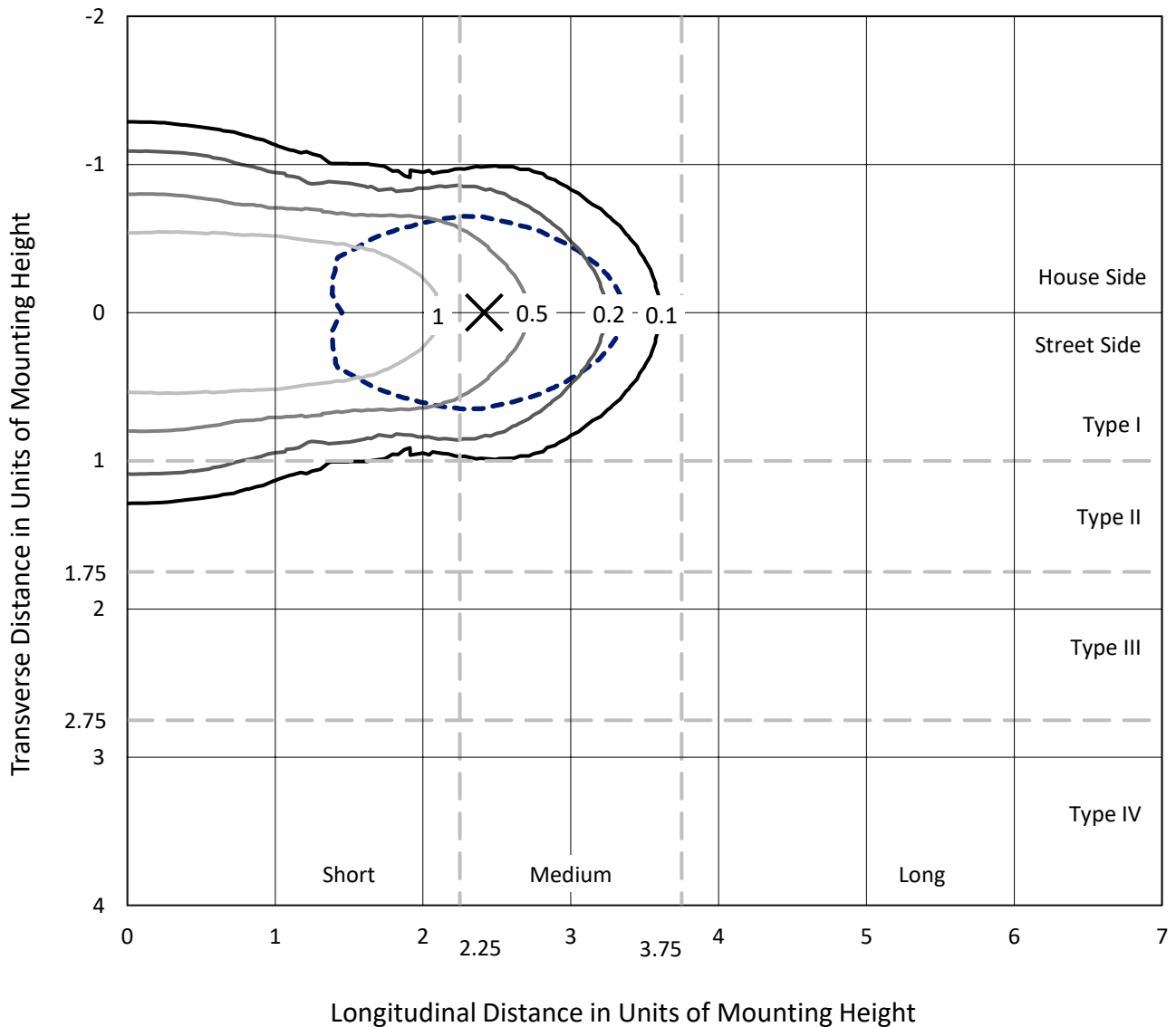




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### Iso-Footcandle Lines of Horizontal Illumination

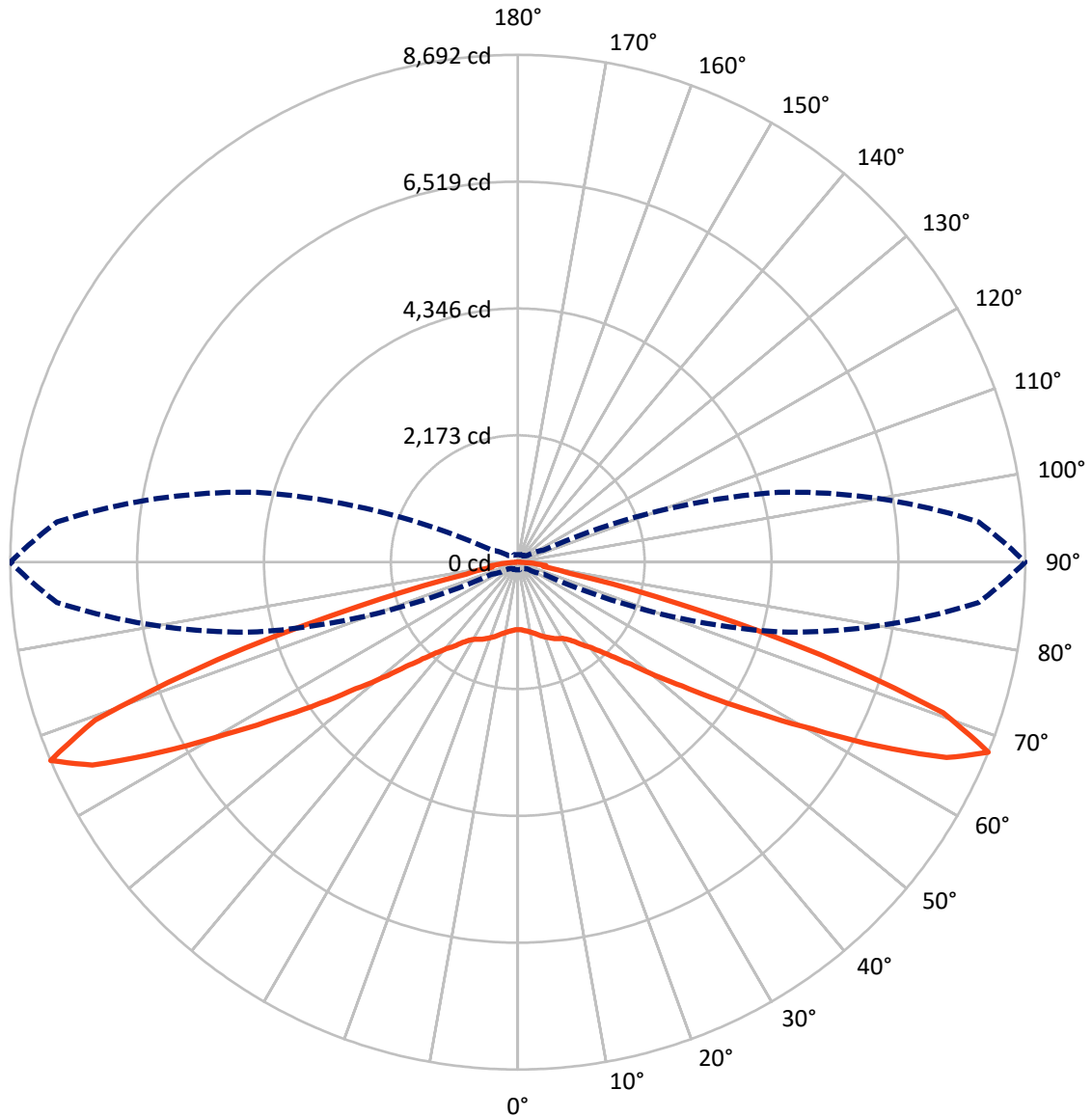
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3267.5	0.0	3267.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3267.5	0.0	3267.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6535.0	0.0	6535.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.3	1.8
10°-20°	369.0	5.6
20°-30°	617.7	9.5
30°-40°	836.8	12.8
40°-50°	1059.9	16.2
50°-60°	1324.1	20.3
60°-70°	1556.4	23.8
70°-80°	595.4	9.1
80°-90°	60.3	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°	6535.0	100.0
0°-180°	6535.0	100.0



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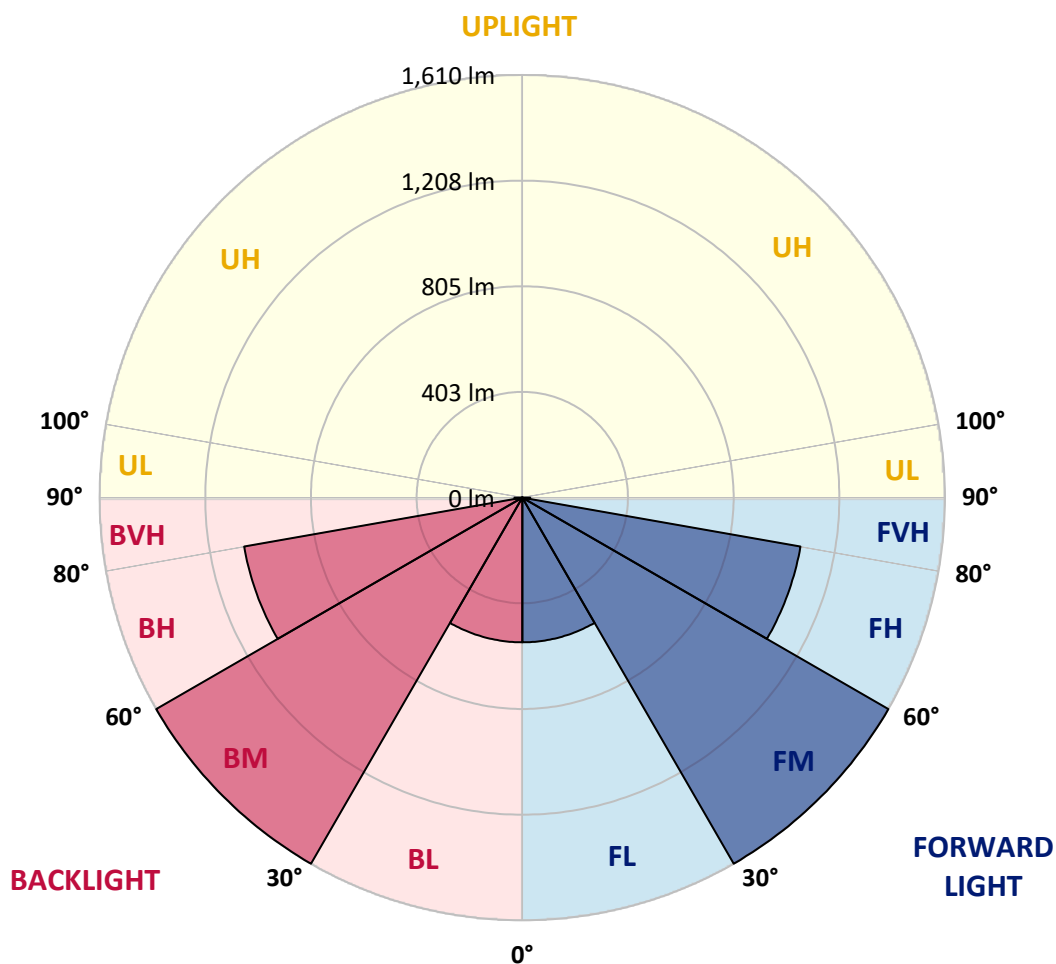
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	551.0	8.4			
FM (30°-60°)	1610.4	24.6			
FH (60°-80°)	1075.9	16.5			G1/1800
FVH (80°-90°)	30.2	0.5			G1/100
BL (0°-30°)	551.0	8.4	B2/1000		
BM (30°-60°)	1610.4	24.6	B2/2500		
BH (60°-80°)	1075.9	16.5	B3/2500		G3/2500
BVH (80°-90°)	30.2	0.5			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 I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1156.9	1156.9	1156.9	1156.9	1156.9	1156.9	1156.9	1156.9	1156.9	1156.9	1156.9
2.5°	1171.7	1171.0	1171.4	1171.0	1172.1	1171.4	1167.0	1163.4	1160.5	1160.9	1159.8
5°	1196.7	1197.1	1197.4	1195.6	1198.2	1196.7	1189.8	1184.0	1178.2	1176.1	1175.4
7.5°	1217.3	1219.1	1220.2	1222.0	1226.4	1226.4	1222.8	1214.4	1201.8	1194.5	1194.2
10°	1238.0	1239.4	1242.7	1248.5	1255.7	1262.6	1261.1	1249.9	1233.6	1221.3	1218.4
12.5°	1245.2	1247.0	1257.9	1274.5	1290.8	1304.2	1304.2	1295.1	1274.1	1255.3	1249.9
15°	1219.9	1223.1	1242.7	1278.1	1320.8	1350.1	1356.7	1344.0	1321.5	1292.6	1286.1
17.5°	1169.6	1177.5	1206.1	1258.6	1329.5	1390.3	1409.1	1403.0	1374.0	1337.1	1329.5
20°	1115.6	1124.3	1154.7	1224.2	1322.3	1413.8	1468.5	1469.9	1434.1	1380.5	1369.3
22.5°	1056.3	1062.8	1101.9	1183.3	1300.6	1419.3	1519.5	1544.5	1496.0	1424.0	1408.0
25°	989.7	997.0	1037.8	1125.8	1259.7	1413.1	1566.2	1621.2	1560.7	1470.3	1450.0
27.5°	926.0	928.9	972.7	1062.1	1205.8	1397.2	1600.6	1691.7	1632.4	1508.6	1482.9
30°	864.9	871.7	910.5	998.8	1143.9	1366.1	1630.2	1772.1	1709.5	1548.8	1515.9
32.5°	800.1	808.4	850.4	939.8	1082.0	1319.4	1648.3	1860.0	1816.9	1613.9	1578.8
35°	737.9	743.3	785.6	872.5	1021.6	1265.1	1651.6	1959.2	1955.5	1712.7	1666.0
37.5°	674.2	682.1	724.8	808.1	957.5	1207.6	1635.3	2064.5	2122.7	1849.9	1799.6
40°	613.0	619.9	661.9	745.8	884.8	1137.4	1596.6	2160.7	2317.8	1991.0	1919.7
42.5°	546.4	548.2	594.2	679.6	813.5	1055.9	1540.8	2246.5	2535.3	2180.3	2091.6
45°	470.8	475.5	518.2	602.2	731.7	964.7	1465.2	2317.4	2811.0	2442.6	2321.8
47.5°	395.2	399.1	438.2	521.1	642.3	860.2	1348.7	2379.7	3094.0	2775.9	2617.4
50°	321.3	323.5	355.4	428.8	541.7	750.2	1204.3	2399.6	3413.9	3247.8	3045.5
52.5°	254.0	257.3	281.5	339.1	434.2	620.2	1048.3	2350.3	3787.3	3807.2	3522.1
55°	205.9	207.0	225.1	267.4	339.4	484.2	860.2	2213.2	4189.0	4524.1	4160.4
57.5°	177.3	178.0	188.2	211.7	261.3	365.1	667.3	1953.7	4549.8	5364.0	4896.5
60°	161.0	161.4	167.2	180.9	207.0	280.1	478.0	1587.5	4905.9	6298.7	5811.3
62.5°	150.9	150.9	154.9	162.5	175.1	215.0	346.3	1145.3	5149.8	7247.2	6938.9
65°	141.1	141.1	144.0	149.5	156.3	175.9	255.8	746.9	5143.6	7938.0	8073.0
67.5°	129.9	129.9	132.1	137.5	141.5	151.3	197.6	489.2	4620.4	7922.8	8691.8
70°	116.5	116.5	119.4	124.1	127.4	133.5	156.0	334.7	3394.3	6764.8	7729.9
72.5°	103.1	103.5	105.3	110.0	112.5	116.2	129.5	234.5	2082.2	4606.2	5404.9
75°	88.3	89.0	90.8	95.5	97.7	99.2	109.3	167.2	1053.4	2483.5	2827.7
77.5°	71.3	72.7	73.8	78.9	80.3	82.5	90.1	120.9	462.5	892.4	900.3
80°	52.1	53.9	57.2	61.9	63.0	64.4	68.8	85.8	209.5	407.5	442.6
82.5°	38.4	40.9	36.9	43.1	43.1	41.3	48.5	57.5	96.3	403.5	482.7
85°	21.0	21.4	19.2	22.1	23.5	23.2	25.7	28.2	46.7	269.2	277.6
87.5°	5.1	5.4	5.8	6.9	8.3	8.3	9.0	8.0	15.2	87.2	49.9
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)