

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: P450427

Luminaire Tested: **GALN-SA1B-727-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450427  
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-SA1B-727-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4968 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

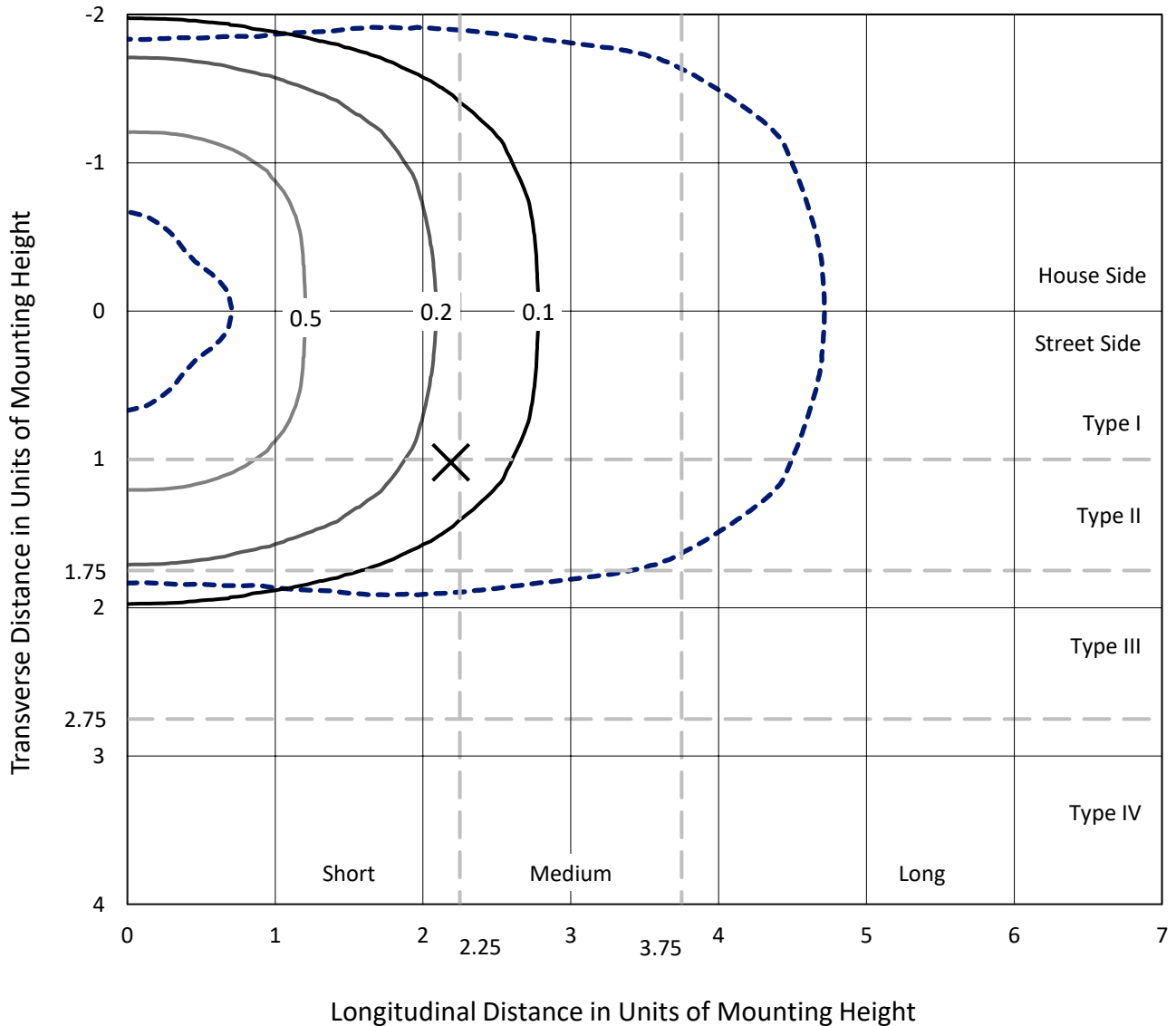
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

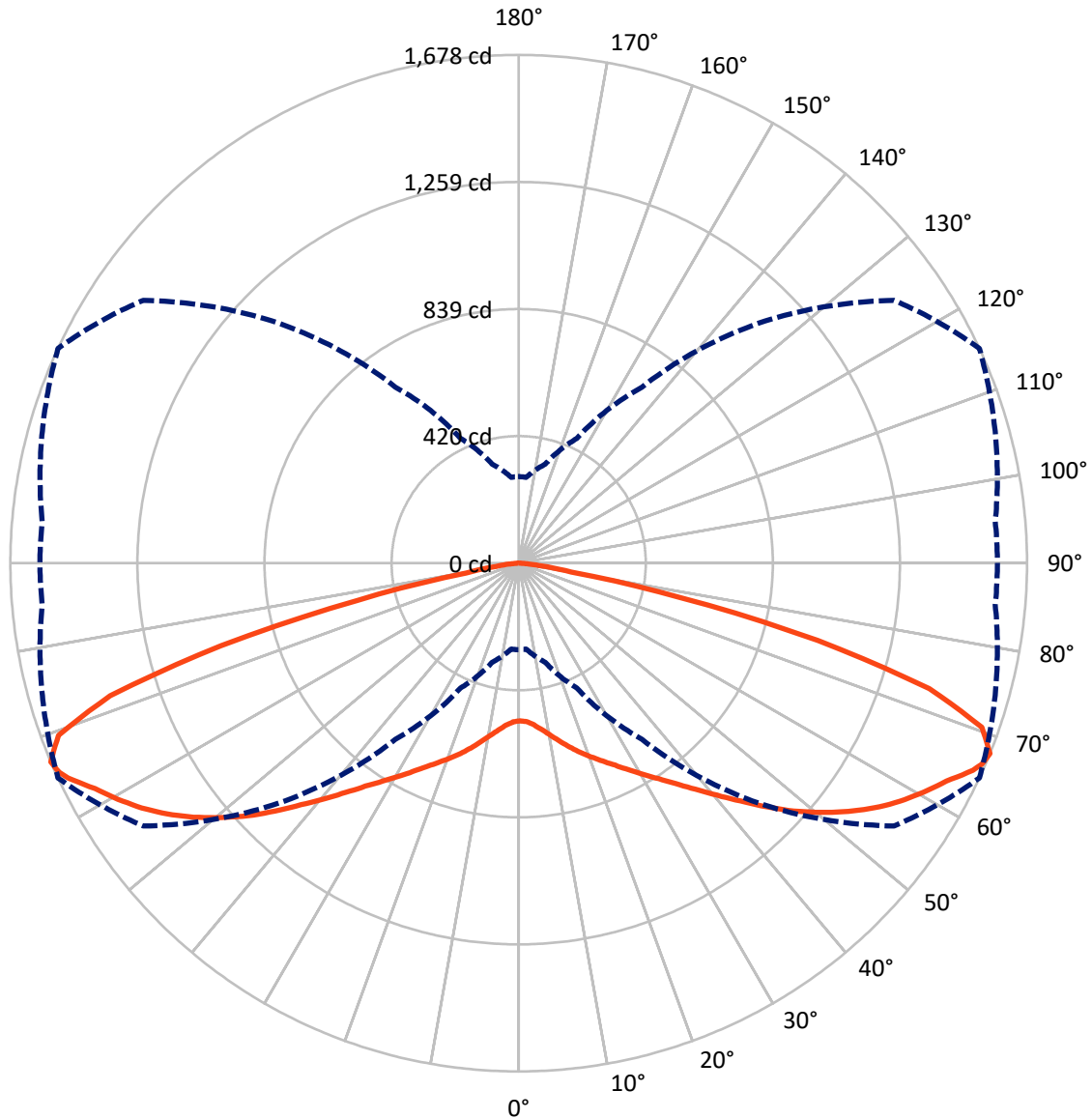
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type 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
<b>House Side</b>	Lumens	2484.0	0.0	2484.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2484.0	0.0	2484.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4968.0	0.0	4968.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.3	1.0
10°-20°	171.8	3.5
20°-30°	336.0	6.8
30°-40°	571.5	11.5
40°-50°	904.5	18.2
50°-60°	1199.3	24.1
60°-70°	1131.3	22.8
70°-80°	559.3	11.3
80°-90°	43.1	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°	4968.0	100.0
0°-180°	4968.0	100.0

**Coefficient of Utilization**



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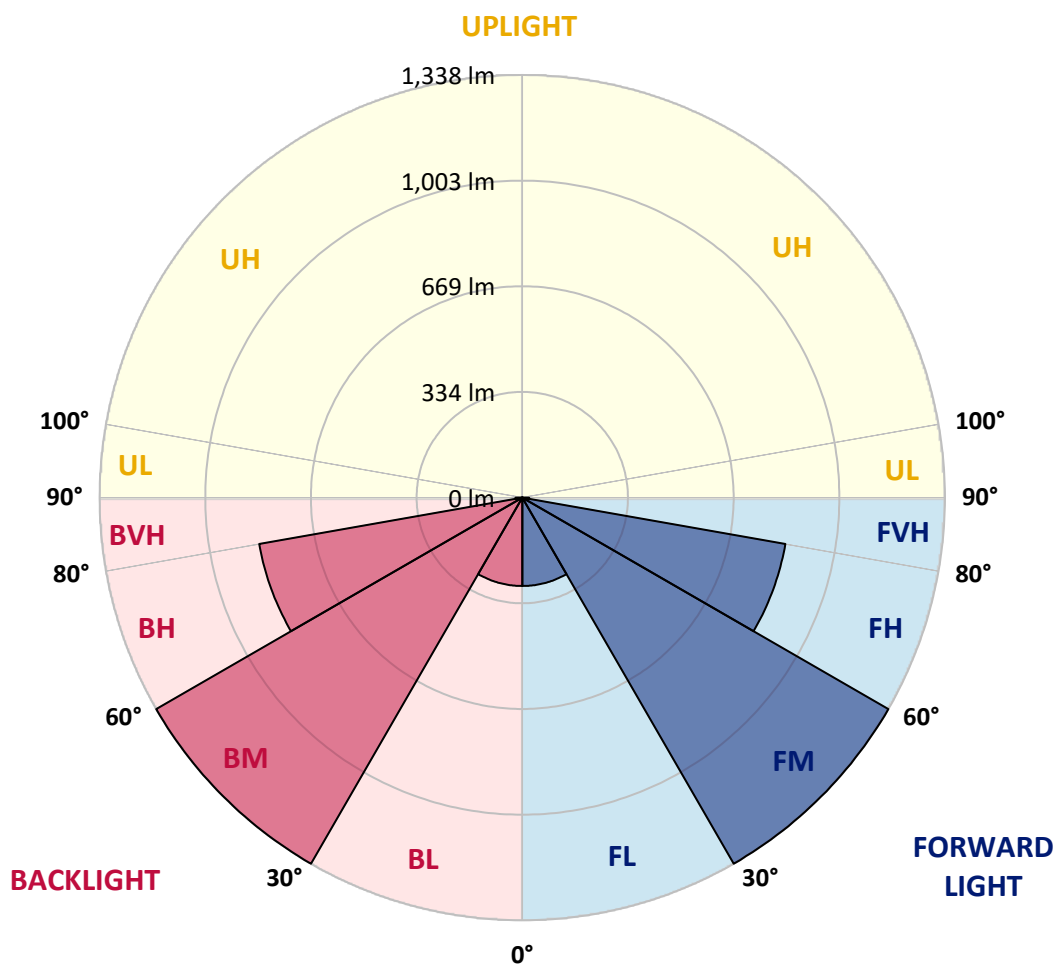
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	279.5	5.6			
FM (30°-60°)	1337.6	26.9			
FH (60°-80°)	845.3	17.0			G1/1800
FVH (80°-90°)	21.5	0.4			G1/100
BL (0°-30°)	279.5	5.6	B1/500		
BM (30°-60°)	1337.6	26.9	B2/2500		
BH (60°-80°)	845.3	17.0	B2/1000		G2/1000
BVH (80°-90°)	21.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	520.4	520.4	520.4	520.4	520.4	520.4	520.4	520.4	520.4	520.4	520.4
2.5°	517.7	518.2	518.8	519.6	520.6	522.2	523.3	524.1	526.2	526.5	526.2
5°	515.8	516.4	517.7	520.1	523.5	528.3	532.1	536.6	540.1	542.4	541.9
7.5°	515.6	516.6	518.8	523.8	530.5	538.7	547.2	555.0	561.6	566.9	566.1
10°	519.8	521.2	524.6	532.1	542.4	554.4	566.4	577.8	587.4	594.3	596.7
12.5°	527.0	528.1	534.5	545.6	560.5	575.5	589.0	603.1	616.4	628.2	628.2
15°	539.5	541.4	549.4	565.6	584.0	601.3	615.1	630.0	644.4	657.7	661.7
17.5°	556.8	559.5	571.5	592.2	615.6	631.6	644.7	656.9	669.4	682.2	684.0
20°	580.5	583.2	599.1	624.2	651.8	671.0	679.8	682.7	688.8	701.1	702.7
22.5°	612.7	615.4	633.2	661.4	692.3	713.1	716.8	709.9	708.3	717.8	718.9
25°	649.2	651.6	672.1	702.4	734.4	757.0	755.9	738.9	729.3	735.1	736.7
27.5°	690.2	693.6	714.4	745.8	780.4	800.4	797.2	772.4	751.9	750.9	751.4
30°	742.6	746.3	766.0	796.1	830.2	848.5	841.9	808.6	776.9	766.3	766.3
32.5°	798.0	807.3	827.2	858.7	885.3	898.6	888.5	848.5	806.5	791.6	790.8
35°	870.1	875.2	894.8	925.5	945.4	955.8	936.4	893.5	845.1	827.5	825.1
37.5°	940.6	944.9	967.8	997.1	1021.3	1020.7	994.4	947.0	893.0	873.3	871.7
40°	1012.8	1017.3	1043.4	1070.3	1094.5	1092.3	1060.4	1007.4	949.9	927.9	932.1
42.5°	1075.3	1080.4	1109.9	1148.2	1170.1	1169.5	1132.5	1072.9	1013.0	993.3	997.1
45°	1132.3	1136.8	1171.1	1215.0	1247.0	1251.0	1210.5	1147.4	1086.0	1060.7	1061.7
47.5°	1172.5	1181.0	1216.9	1267.2	1310.6	1324.7	1285.0	1223.3	1152.5	1126.1	1127.7
50°	1203.1	1208.4	1247.5	1304.7	1359.6	1388.9	1356.9	1293.6	1219.0	1191.1	1194.8
52.5°	1206.8	1213.2	1255.8	1321.8	1392.0	1436.5	1420.8	1362.2	1286.9	1258.2	1266.2
55°	1176.5	1180.2	1231.0	1311.1	1404.8	1471.9	1475.9	1426.1	1351.6	1329.8	1335.1
57.5°	1089.9	1099.5	1163.9	1261.4	1387.3	1490.8	1517.1	1484.1	1417.1	1395.5	1404.0
60°	948.1	957.7	1022.3	1145.8	1321.0	1482.0	1551.2	1535.5	1476.4	1459.1	1463.6
62.5°	742.9	742.1	822.2	973.6	1189.2	1438.9	1576.5	1585.0	1535.0	1513.2	1520.1
65°	481.5	483.9	561.3	724.5	990.4	1329.2	1582.1	1648.1	1592.5	1559.5	1564.5
66°	387.3	394.5	460.2	610.6	889.0	1257.4	1565.3	1666.7	1610.0	1570.1	1572.5
67.5°	285.9	284.5	338.6	454.6	709.9	1120.8	1512.9	1678.4	1630.0	1579.7	1580.8
70°	163.2	162.9	182.1	249.7	417.3	789.2	1275.2	1622.3	1670.5	1614.3	1611.4
72.5°	119.2	118.4	121.1	137.9	203.6	398.5	879.7	1417.9	1649.7	1608.7	1600.5
75°	100.1	99.5	99.0	101.1	114.2	180.5	466.9	1019.9	1431.4	1510.0	1501.4
77.5°	81.7	81.7	82.0	81.4	82.0	95.0	193.5	546.7	871.7	973.1	996.8
80°	63.9	63.6	68.1	66.3	62.0	61.0	85.7	175.9	289.3	287.7	237.4
82.5°	47.1	43.9	51.9	50.6	45.8	38.9	50.0	75.1	96.6	62.8	46.6
85°	29.8	29.5	36.7	33.5	27.9	18.4	24.0	32.2	39.9	24.2	19.7
87.5°	5.3	5.1	11.7	8.5	8.5	5.3	6.7	8.8	13.0	9.0	6.7
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)