

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: P450195

Luminaire Tested: **GALN-SA1A-727-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450195  
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-SA1A-727-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3993 lumens  
Efficiency: N/A  
Efficacy: 121.0 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): 33  
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

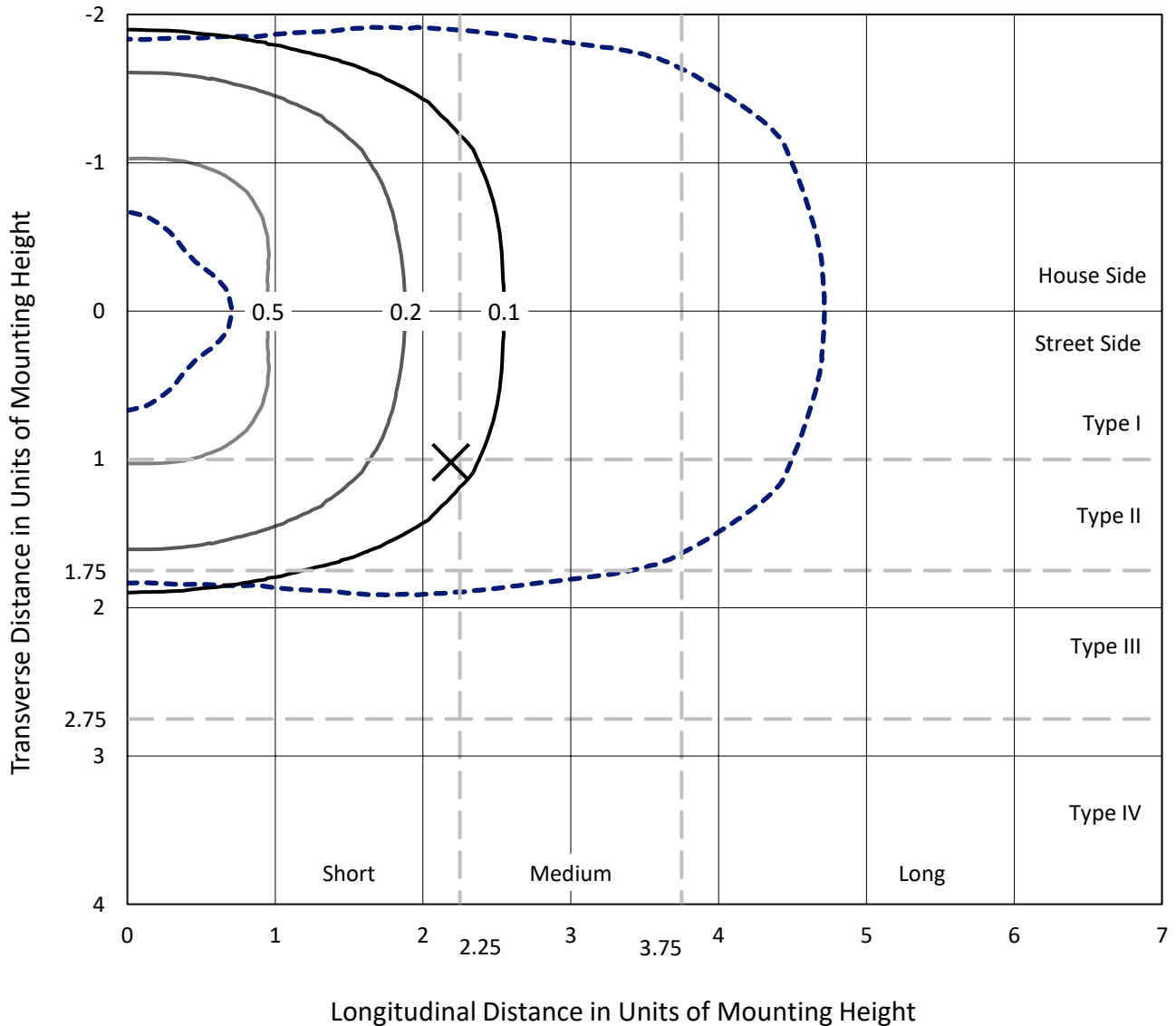




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### Iso-Footcandle Lines of Horizontal Illumination

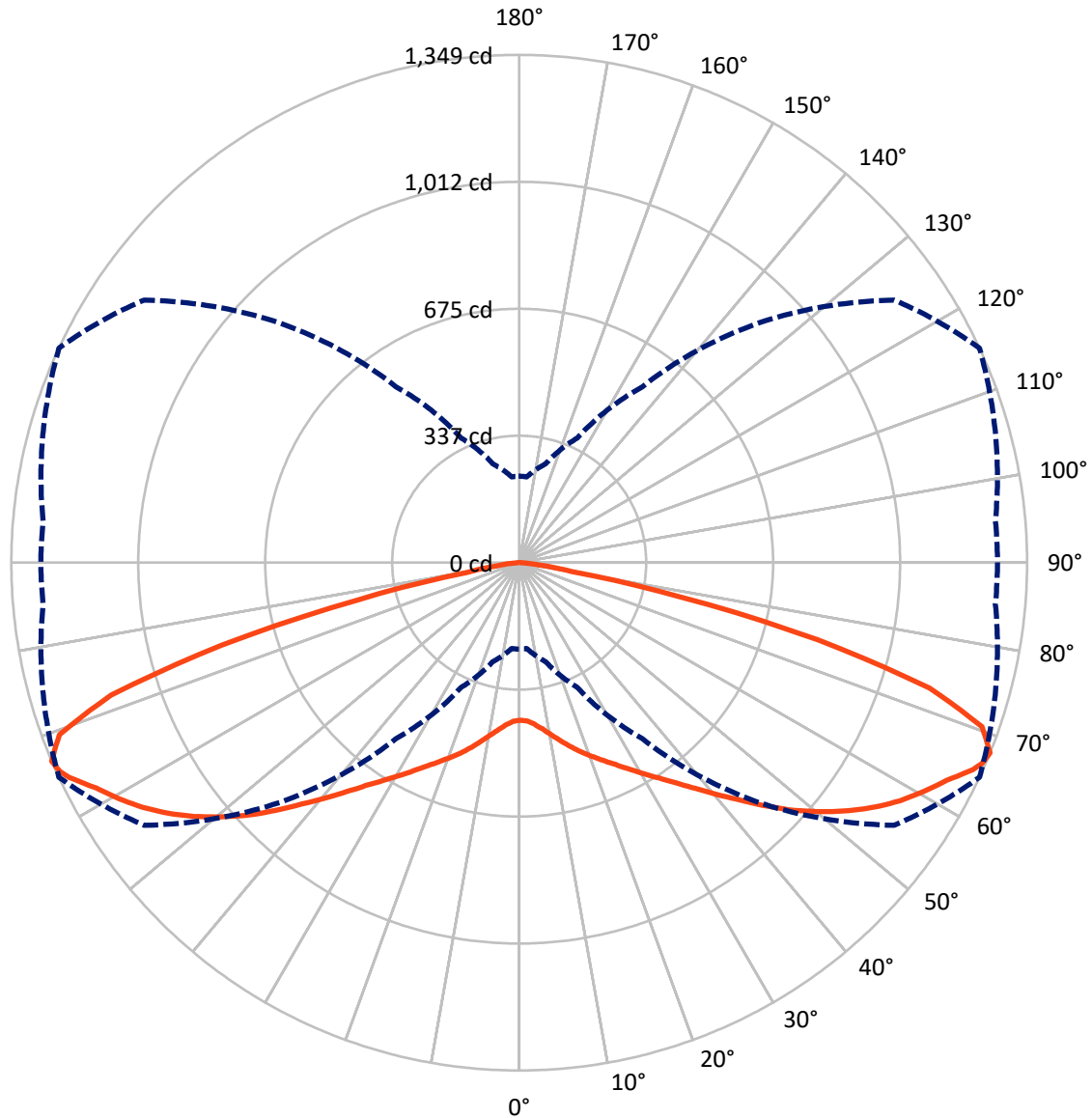
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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	1996.5	0.0	1996.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1996.5	0.0	1996.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3993.0	0.0	3993.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.2	1.0
10°-20°	138.1	3.5
20°-30°	270.0	6.8
30°-40°	459.3	11.5
40°-50°	727.0	18.2
50°-60°	963.9	24.1
60°-70°	909.3	22.8
70°-80°	449.5	11.3
80°-90°	34.6	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°	3993.0	100.0
0°-180°	3993.0	100.0

**Coefficient of Utilization**



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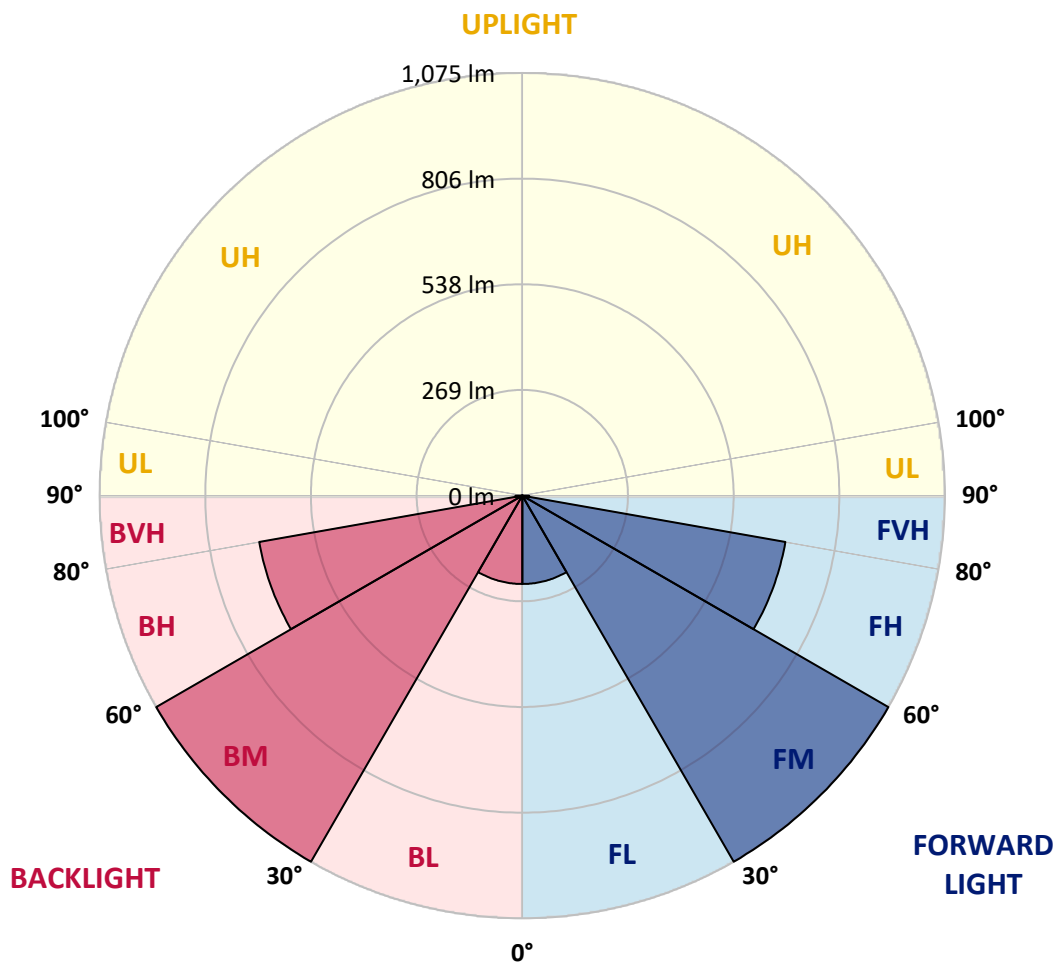
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	224.7	5.6			
FM	(30°-60°)	1075.1	26.9			
FH	(60°-80°)	679.4	17.0			G1/1800
FVH	(80°-90°)	17.3	0.4			G1/100
BL	(0°-30°)	224.7	5.6	B1/500		
BM	(30°-60°)	1075.1	26.9	B2/2500		
BH	(60°-80°)	679.4	17.0	B2/1000		G2/1000
BVH	(80°-90°)	17.3	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°	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2
2.5°	416.1	416.5	416.9	417.6	418.4	419.7	420.6	421.2	422.9	423.2	422.9
5°	414.6	415.0	416.1	418.0	420.8	424.6	427.6	431.3	434.1	436.0	435.6
7.5°	414.4	415.2	416.9	421.0	426.4	433.0	439.8	446.0	451.4	455.7	455.0
10°	417.8	418.9	421.7	427.6	436.0	445.6	455.2	464.4	472.1	477.7	479.6
12.5°	423.6	424.4	429.6	438.6	450.5	462.5	473.4	484.8	495.5	504.9	504.9
15°	433.6	435.1	441.5	454.6	469.4	483.3	494.4	506.4	517.9	528.6	531.8
17.5°	447.5	449.7	459.3	476.0	494.8	507.7	518.1	528.0	538.0	548.3	549.8
20°	466.6	468.7	481.6	501.7	523.9	539.3	546.4	548.7	553.6	563.5	564.8
22.5°	492.5	494.6	508.9	531.6	556.4	573.1	576.1	570.5	569.3	577.0	577.8
25°	521.8	523.7	540.2	564.6	590.2	608.4	607.6	593.9	586.2	590.9	592.2
27.5°	554.7	557.5	574.2	599.4	627.2	643.3	640.7	620.8	604.3	603.5	603.9
30°	596.9	599.9	615.7	639.9	667.2	682.0	676.7	649.9	624.5	615.9	615.9
32.5°	641.4	648.8	664.9	690.1	711.5	722.2	714.1	682.0	648.2	636.2	635.6
35°	699.3	703.4	719.2	743.8	759.9	768.2	752.6	718.2	679.2	665.1	663.2
37.5°	756.0	759.4	777.8	801.4	820.8	820.4	799.2	761.2	717.7	701.9	700.6
40°	814.0	817.6	838.6	860.2	879.7	878.0	852.3	809.7	763.5	745.8	749.2
42.5°	864.3	868.3	892.1	922.9	940.4	940.0	910.3	862.3	814.2	798.4	801.4
45°	910.1	913.7	941.3	976.6	1002.3	1005.5	972.9	922.2	872.8	852.5	853.4
47.5°	942.4	949.2	978.1	1018.5	1053.4	1064.7	1032.9	983.2	926.3	905.1	906.4
50°	967.0	971.2	1002.7	1048.7	1092.8	1116.3	1090.6	1039.7	979.8	957.3	960.3
52.5°	970.0	975.1	1009.3	1062.4	1118.8	1154.6	1142.0	1094.9	1034.3	1011.2	1017.7
55°	945.6	948.6	989.4	1053.8	1129.1	1183.0	1186.2	1146.2	1086.3	1068.8	1073.1
57.5°	876.0	883.7	935.5	1013.8	1115.0	1198.2	1219.4	1192.9	1139.0	1121.6	1128.5
60°	762.0	769.7	821.7	921.0	1061.7	1191.2	1246.8	1234.2	1186.7	1172.8	1176.4
62.5°	597.1	596.4	660.8	782.6	955.8	1156.5	1267.1	1273.9	1233.7	1216.2	1221.7
65°	387.0	388.9	451.2	582.3	796.0	1068.4	1271.6	1324.6	1279.9	1253.4	1257.5
66°	311.3	317.0	369.9	490.8	714.5	1010.6	1258.1	1339.6	1294.1	1262.0	1263.9
67.5°	229.8	228.7	272.1	365.4	570.5	900.9	1216.0	1349.0	1310.1	1269.7	1270.5
70°	131.1	130.9	146.3	200.7	335.4	634.3	1024.9	1303.9	1342.6	1297.5	1295.1
72.5°	95.8	95.2	97.3	110.8	163.7	320.3	707.0	1139.6	1325.9	1293.0	1286.4
75°	80.4	80.0	79.6	81.3	91.8	145.0	375.2	819.8	1150.5	1213.6	1206.8
77.5°	65.7	65.7	65.9	65.5	65.9	76.4	155.5	439.4	700.6	782.1	801.2
80°	51.3	51.1	54.8	53.3	49.8	49.0	68.9	141.4	232.5	231.3	190.8
82.5°	37.9	35.3	41.7	40.6	36.8	31.2	40.2	60.3	77.7	50.5	37.4
85°	24.0	23.7	29.5	27.0	22.5	14.8	19.3	25.9	32.1	19.5	15.8
87.5°	4.3	4.1	9.4	6.8	6.8	4.3	5.3	7.1	10.5	7.3	5.3
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)