

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: P450190

Luminaire Tested: **GALN-SA1A-727-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450190  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
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-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4059 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

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

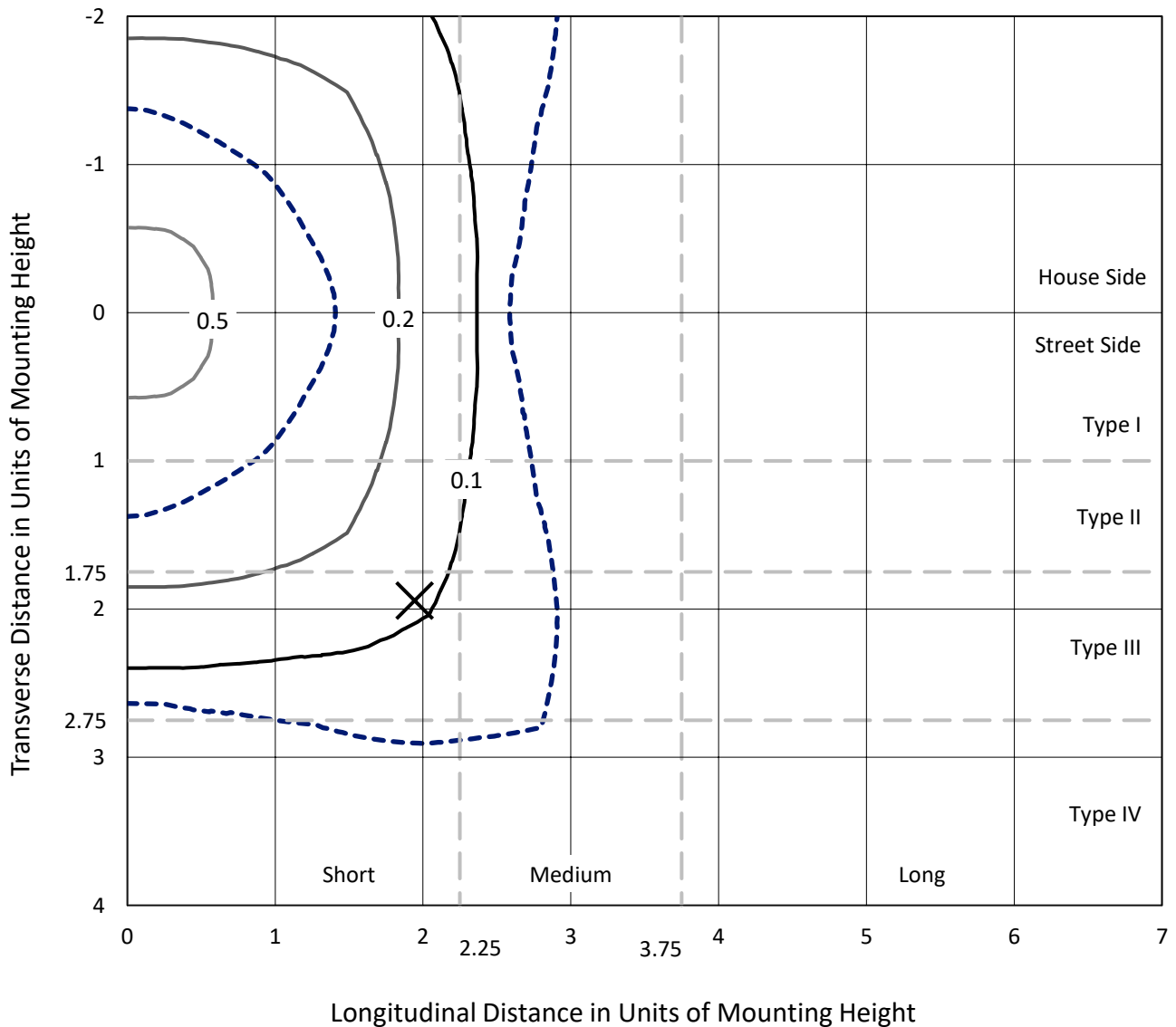




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### Iso-Footcandle Lines of Horizontal Illumination

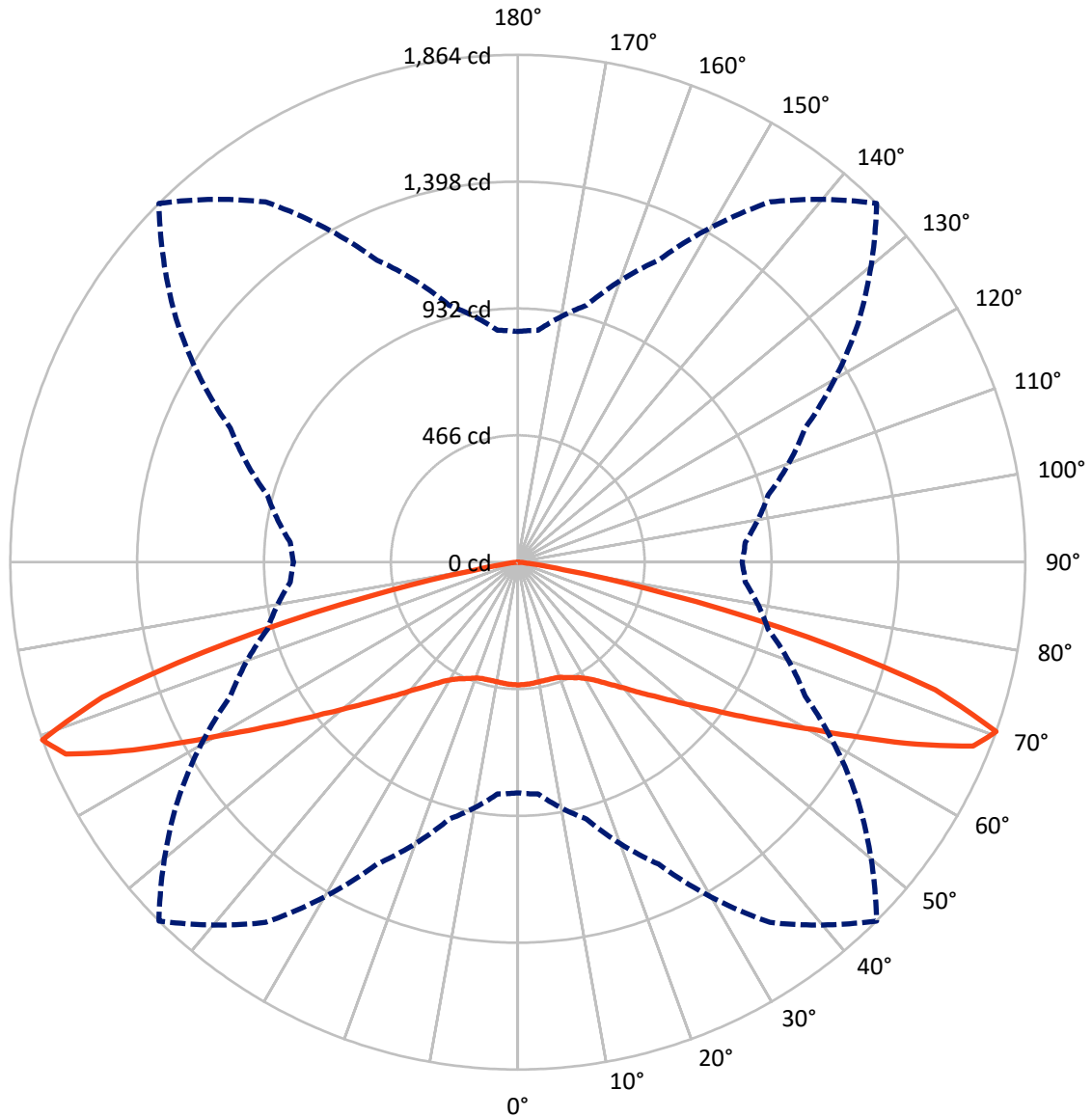
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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
<b>House Side</b>	Lumens	2029.5	0.0	2029.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2029.5	0.0	2029.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4059.0	0.0	4059.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.7	1.1
10°-20°	125.4	3.1
20°-30°	214.5	5.3
30°-40°	340.5	8.4
40°-50°	549.3	13.5
50°-60°	893.7	22.0
60°-70°	1295.5	31.9
70°-80°	574.6	14.2
80°-90°	22.7	0.6
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°	4059.0	100.0
0°-180°	4059.0	100.0

**Coefficient of Utilization**



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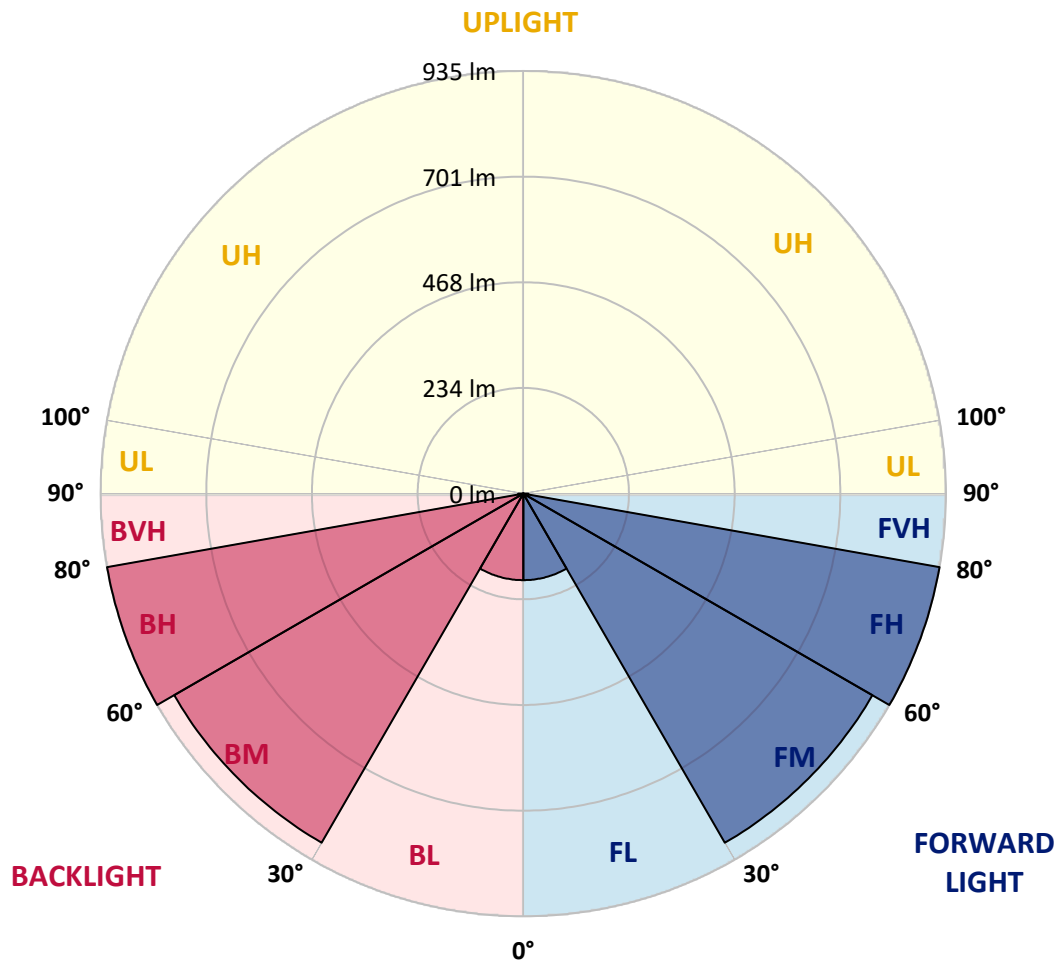
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	191.3	4.7			
FM (30°-60°)	891.7	22.0			
FH (60°-80°)	935.1	23.0			G1/1800
FVH (80°-90°)	11.3	0.3			G1/100
BL (0°-30°)	191.3	4.7	B1/500		
BM (30°-60°)	891.7	22.0	B1/1000		
BH (60°-80°)	935.1	23.0	B2/1000		G1/1800
BVH (80°-90°)	11.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	450.7	450.7	450.7	450.7	450.7	450.7	450.7	450.7	450.7	450.7	450.7
2.5°	450.7	451.2	450.5	450.1	449.9	449.9	449.7	449.9	451.2	451.4	450.7
5°	449.4	449.9	449.7	449.2	449.0	449.0	448.8	448.6	449.7	450.1	449.9
7.5°	447.7	448.0	447.7	447.5	447.7	447.5	446.9	446.5	447.3	447.3	447.1
10°	444.7	445.2	445.0	445.2	445.6	445.6	444.7	443.9	444.1	443.7	443.7
12.5°	441.1	441.7	442.0	442.8	443.9	445.2	443.2	441.3	440.9	440.7	440.5
15°	438.8	439.4	440.3	441.1	443.0	445.8	443.0	440.0	439.2	438.3	437.9
17.5°	438.1	439.0	440.3	441.5	444.1	446.9	444.5	441.5	439.4	438.1	437.7
20°	439.8	440.5	442.4	444.7	448.4	451.2	448.8	445.6	442.4	440.5	439.8
22.5°	443.2	444.3	446.7	450.9	456.1	460.1	456.9	451.6	446.5	443.9	443.0
25°	450.7	451.6	454.4	460.1	466.1	470.0	466.6	460.4	453.3	449.9	448.8
27.5°	462.1	463.4	466.3	473.2	478.1	480.3	477.9	473.6	468.5	464.9	464.0
30°	478.1	479.6	484.1	491.4	494.6	495.9	494.8	492.0	488.4	484.5	483.7
32.5°	499.7	500.6	505.7	512.6	515.6	516.0	514.7	513.4	507.4	501.0	500.6
35°	523.9	525.4	531.6	539.7	542.5	542.7	540.2	538.2	531.2	526.0	526.0
37.5°	556.0	556.6	562.6	571.8	574.8	574.0	572.7	571.0	563.5	556.8	557.1
40°	593.6	594.9	600.1	610.7	610.7	609.7	610.5	609.2	601.8	595.3	595.6
42.5°	638.3	639.0	645.2	656.5	655.7	653.5	654.4	652.7	648.0	640.7	638.1
45°	686.0	688.6	699.3	710.2	708.5	701.7	705.1	704.7	700.4	689.5	690.1
47.5°	743.6	747.9	758.1	771.2	769.3	758.6	762.4	765.0	759.0	747.0	744.9
50°	808.4	811.2	826.4	838.6	836.9	825.5	834.3	834.7	819.7	802.8	802.8
52.5°	877.5	880.3	900.8	919.9	920.9	904.5	911.5	911.1	886.7	864.5	860.2
55°	954.9	956.2	982.8	1010.8	1016.8	1000.7	1001.6	993.0	961.4	935.5	933.1
57.5°	1035.0	1039.7	1069.0	1105.3	1123.1	1113.2	1108.8	1085.9	1055.3	1025.5	1024.0
60°	1123.5	1123.7	1161.8	1204.8	1240.7	1247.4	1229.0	1198.4	1158.8	1119.5	1117.7
62.5°	1184.9	1194.1	1242.2	1315.0	1379.4	1416.6	1368.0	1303.9	1226.0	1162.4	1156.0
65°	1197.5	1203.7	1277.1	1400.3	1531.9	1612.1	1499.8	1363.3	1230.5	1145.8	1141.5
67.5°	1095.5	1102.1	1201.0	1390.1	1638.9	1803.4	1585.4	1334.7	1154.3	1049.5	1041.2
70°	847.3	854.8	977.0	1223.6	1615.1	1863.5	1524.4	1164.2	952.0	838.8	823.6
72.5°	450.5	478.1	582.5	839.9	1310.9	1604.4	1249.9	849.5	614.0	501.9	481.8
75°	164.5	167.9	226.1	372.4	762.6	1100.2	791.9	405.2	233.0	179.9	170.7
77.5°	68.0	67.8	74.4	112.5	277.0	563.5	309.1	118.9	74.2	68.7	67.8
80°	40.2	40.2	44.3	46.8	72.9	170.1	81.5	53.1	44.5	40.6	41.3
82.5°	18.0	19.0	28.0	29.5	35.3	46.6	39.4	33.8	29.1	20.1	18.2
85°	9.8	8.6	14.8	15.4	16.9	17.3	18.6	18.4	16.9	9.8	10.1
87.5°	1.9	2.4	4.3	3.2	3.6	3.2	4.3	6.0	6.2	3.4	2.8
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)