

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: P450340

Luminaire Tested: **GALN-SA1A-827-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450340  
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-827-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 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: 3510 lumens  
Efficiency: N/A  
Efficacy: 106.4 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

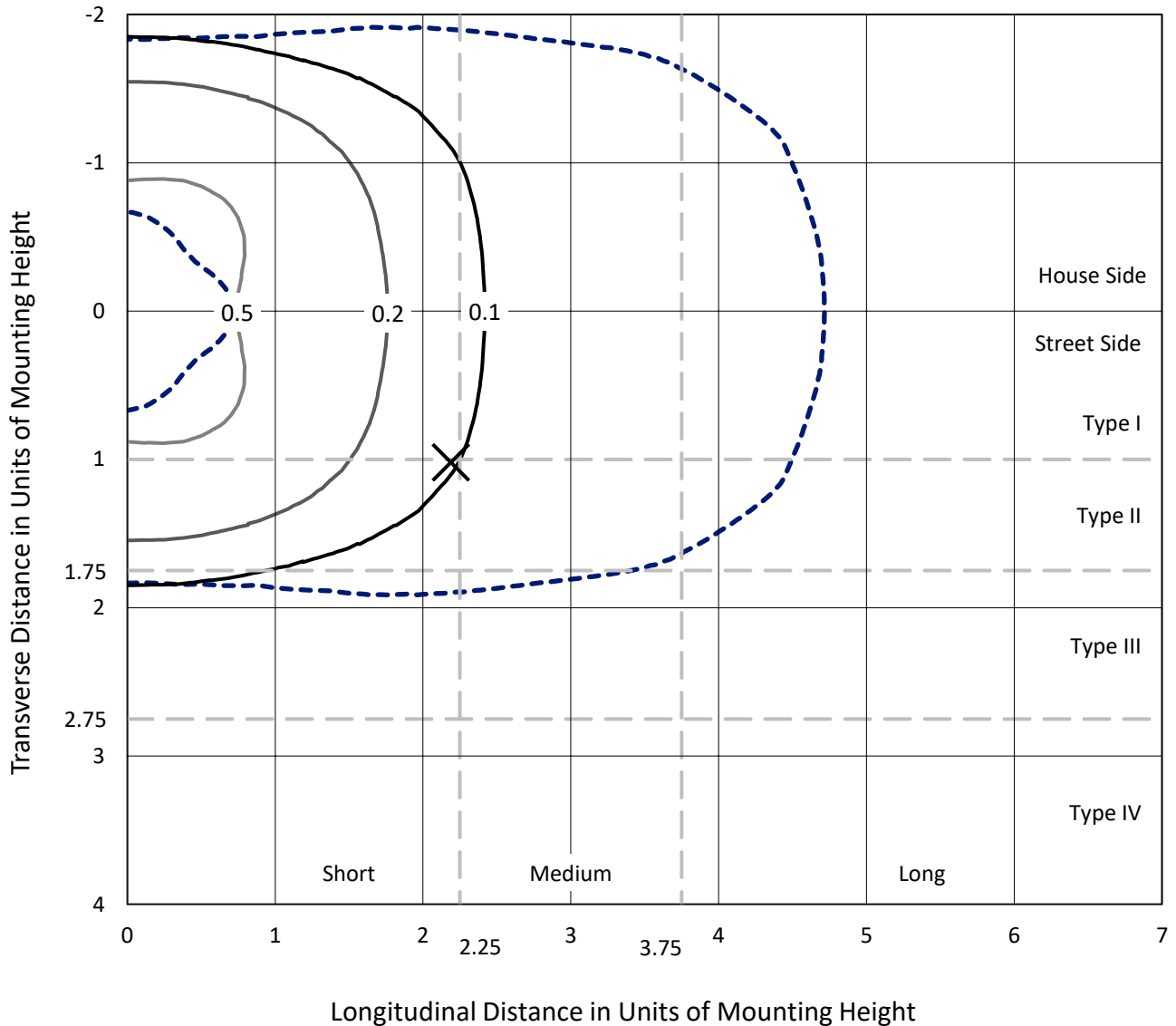
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

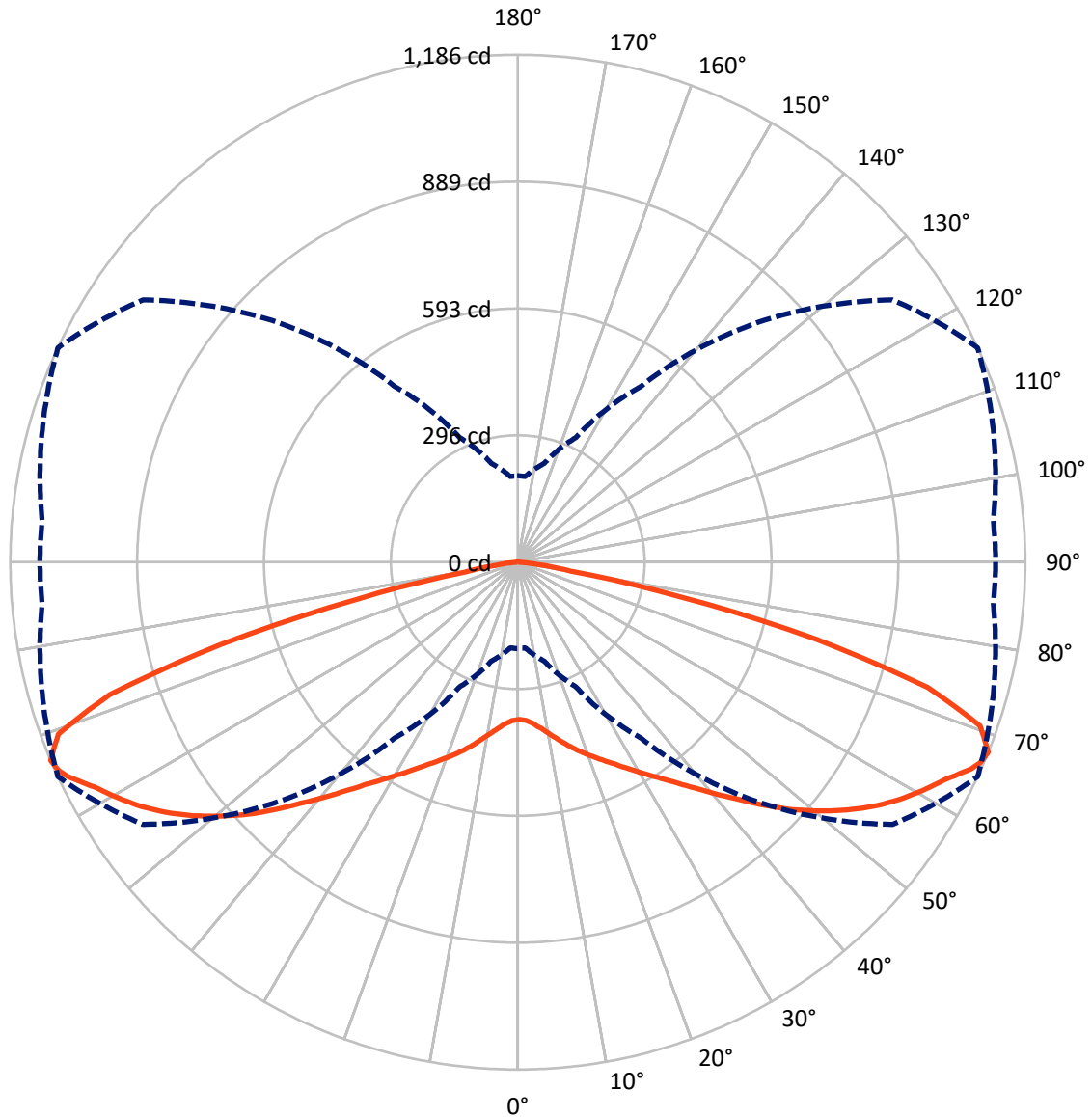
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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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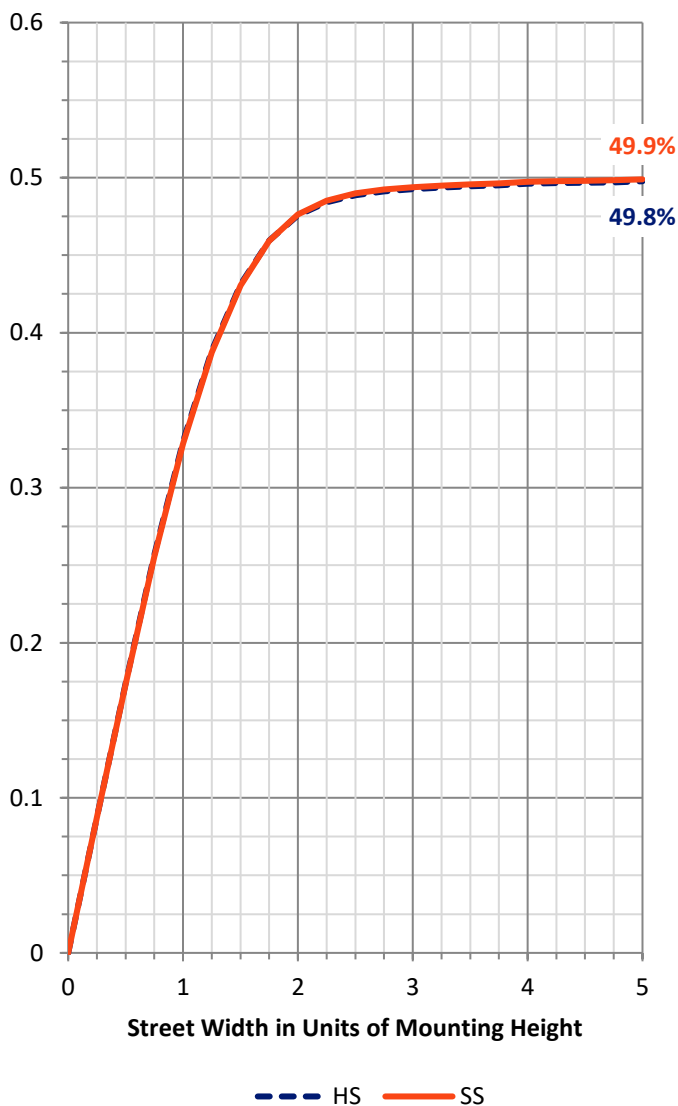
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1755.0	0.0	1755.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1755.0	0.0	1755.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3510.0	0.0	3510.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.3	1.0
10°-20°	121.4	3.5
20°-30°	237.4	6.8
30°-40°	403.8	11.5
40°-50°	639.0	18.2
50°-60°	847.3	24.1
60°-70°	799.3	22.8
70°-80°	395.1	11.3
80°-90°	30.5	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°	3510.0	100.0
0°-180°	3510.0	100.0

**Coefficient of Utilization**



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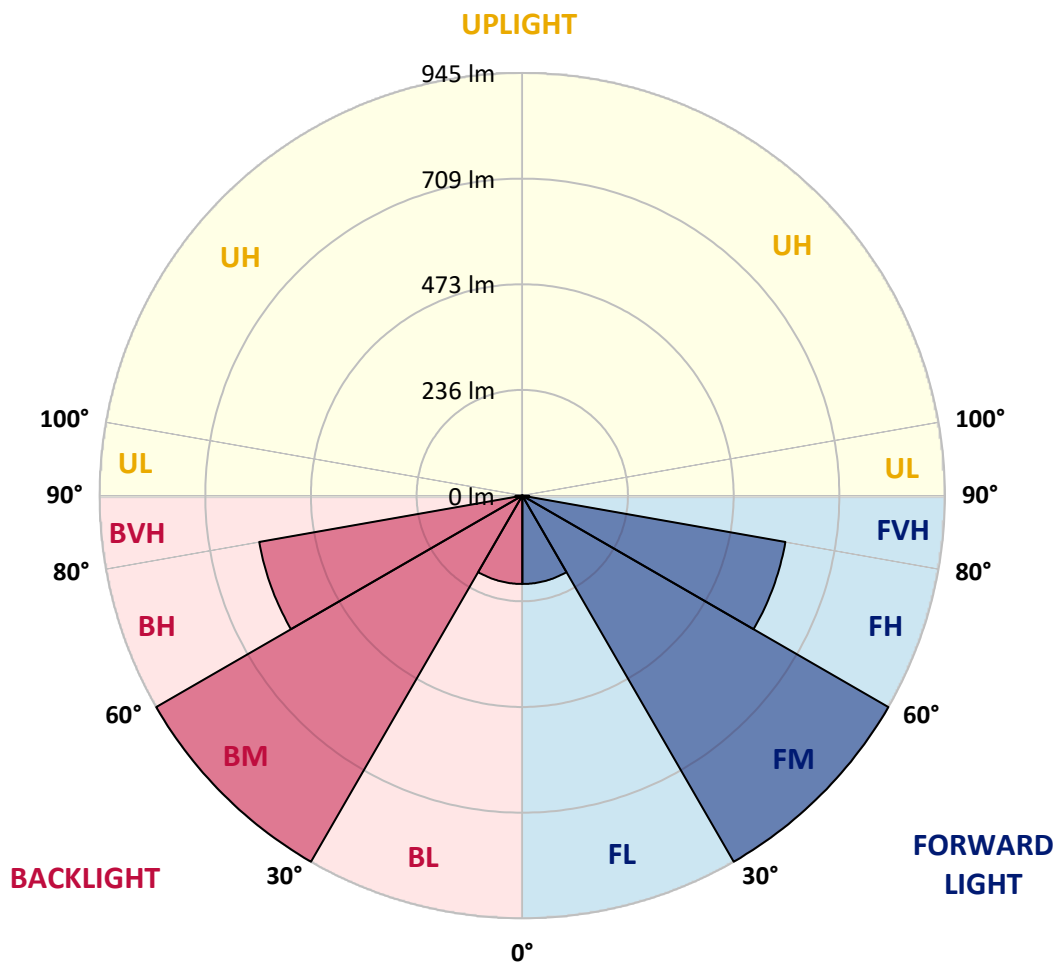
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	197.5	5.6			
FM (30°-60°)	945.1	26.9			
FH (60°-80°)	597.2	17.0			G0/660
FVH (80°-90°)	15.2	0.4			G1/100
BL (0°-30°)	197.5	5.6	B1/500		
BM (30°-60°)	945.1	26.9	B1/1000		
BH (60°-80°)	597.2	17.0	B2/1000		G2/1000
BVH (80°-90°)	15.2	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°	367.6	367.6	367.6	367.6	367.6	367.6	367.6	367.6	367.6	367.6	367.6
2.5°	365.8	366.1	366.5	367.1	367.8	369.0	369.7	370.3	371.8	372.0	371.8
5°	364.4	364.8	365.8	367.5	369.9	373.3	375.9	379.1	381.6	383.2	382.9
7.5°	364.3	365.0	366.5	370.1	374.8	380.6	386.6	392.1	396.8	400.6	400.0
10°	367.3	368.2	370.7	375.9	383.2	391.7	400.2	408.3	415.0	419.9	421.6
12.5°	372.3	373.1	377.6	385.5	396.0	406.6	416.2	426.1	435.5	443.8	443.8
15°	381.2	382.5	388.1	399.6	412.6	424.8	434.6	445.1	455.3	464.7	467.5
17.5°	393.4	395.3	403.7	418.4	435.0	446.2	455.5	464.1	473.0	482.0	483.3
20°	410.1	412.0	423.3	441.0	460.5	474.1	480.3	482.4	486.7	495.3	496.5
22.5°	432.9	434.8	447.4	467.3	489.1	503.8	506.4	501.5	500.4	507.2	507.9
25°	458.7	460.4	474.8	496.3	518.8	534.8	534.1	522.0	515.3	519.4	520.5
27.5°	487.6	490.1	504.7	526.9	551.4	565.5	563.2	545.7	531.2	530.5	530.9
30°	524.7	527.3	541.2	562.5	586.5	599.5	594.8	571.3	548.9	541.4	541.4
32.5°	563.8	570.4	584.5	606.7	625.5	634.9	627.7	599.5	569.8	559.3	558.7
35°	614.7	618.3	632.2	653.9	668.0	675.3	661.6	631.3	597.1	584.7	583.0
37.5°	664.6	667.6	683.8	704.4	721.6	721.2	702.6	669.1	630.9	617.0	615.9
40°	715.5	718.7	737.2	756.2	773.3	771.8	749.2	711.8	671.2	655.5	658.6
42.5°	759.7	763.3	784.2	811.3	826.7	826.3	800.2	758.0	715.7	701.8	704.4
45°	800.0	803.2	827.4	858.5	881.0	883.8	855.3	810.7	767.3	749.4	750.1
47.5°	828.4	834.4	859.8	895.3	926.0	935.9	907.9	864.3	814.3	795.6	796.8
50°	850.0	853.8	881.4	921.8	960.6	981.3	958.7	913.9	861.3	841.5	844.2
52.5°	852.6	857.1	887.2	933.9	983.5	1014.9	1003.8	962.4	909.2	888.9	894.6
55°	831.2	833.8	869.7	926.3	992.5	1039.9	1042.7	1007.6	954.9	939.5	943.3
57.5°	770.1	776.8	822.4	891.2	980.1	1053.3	1071.9	1048.6	1001.2	986.0	992.0
60°	669.8	676.6	722.3	809.6	933.3	1047.1	1096.0	1084.9	1043.1	1030.9	1034.1
62.5°	524.9	524.3	580.9	687.9	840.2	1016.6	1113.8	1119.8	1084.5	1069.1	1074.0
65°	340.2	341.9	396.6	511.9	699.7	939.1	1117.8	1164.4	1125.1	1101.8	1105.4
66°	273.6	278.7	325.1	431.4	628.1	888.4	1105.9	1177.6	1137.5	1109.3	1111.0
67.5°	202.0	201.0	239.2	321.2	501.5	791.9	1068.9	1185.9	1151.6	1116.1	1116.8
70°	115.3	115.1	128.6	176.4	294.9	557.6	901.0	1146.2	1180.2	1140.5	1138.5
72.5°	84.2	83.7	85.6	97.4	143.9	281.5	621.5	1001.8	1165.5	1136.6	1130.8
75°	70.7	70.3	70.0	71.5	80.7	127.5	329.8	720.6	1011.3	1066.8	1060.8
77.5°	57.7	57.7	57.9	57.5	57.9	67.1	136.7	386.3	615.9	687.5	704.3
80°	45.1	44.9	48.1	46.8	43.8	43.1	60.6	124.3	204.4	203.3	167.7
82.5°	33.3	31.0	36.7	35.7	32.3	27.5	35.4	53.0	68.3	44.4	32.9
85°	21.1	20.9	26.0	23.7	19.7	13.0	16.9	22.8	28.2	17.1	13.9
87.5°	3.8	3.6	8.3	6.0	6.0	3.8	4.7	6.2	9.2	6.4	4.7
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)