

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: P450335

Luminaire Tested: **GALN-SA1A-827-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450335  
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-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 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: 3568 lumens  
Efficiency: N/A  
Efficacy: 108.1 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

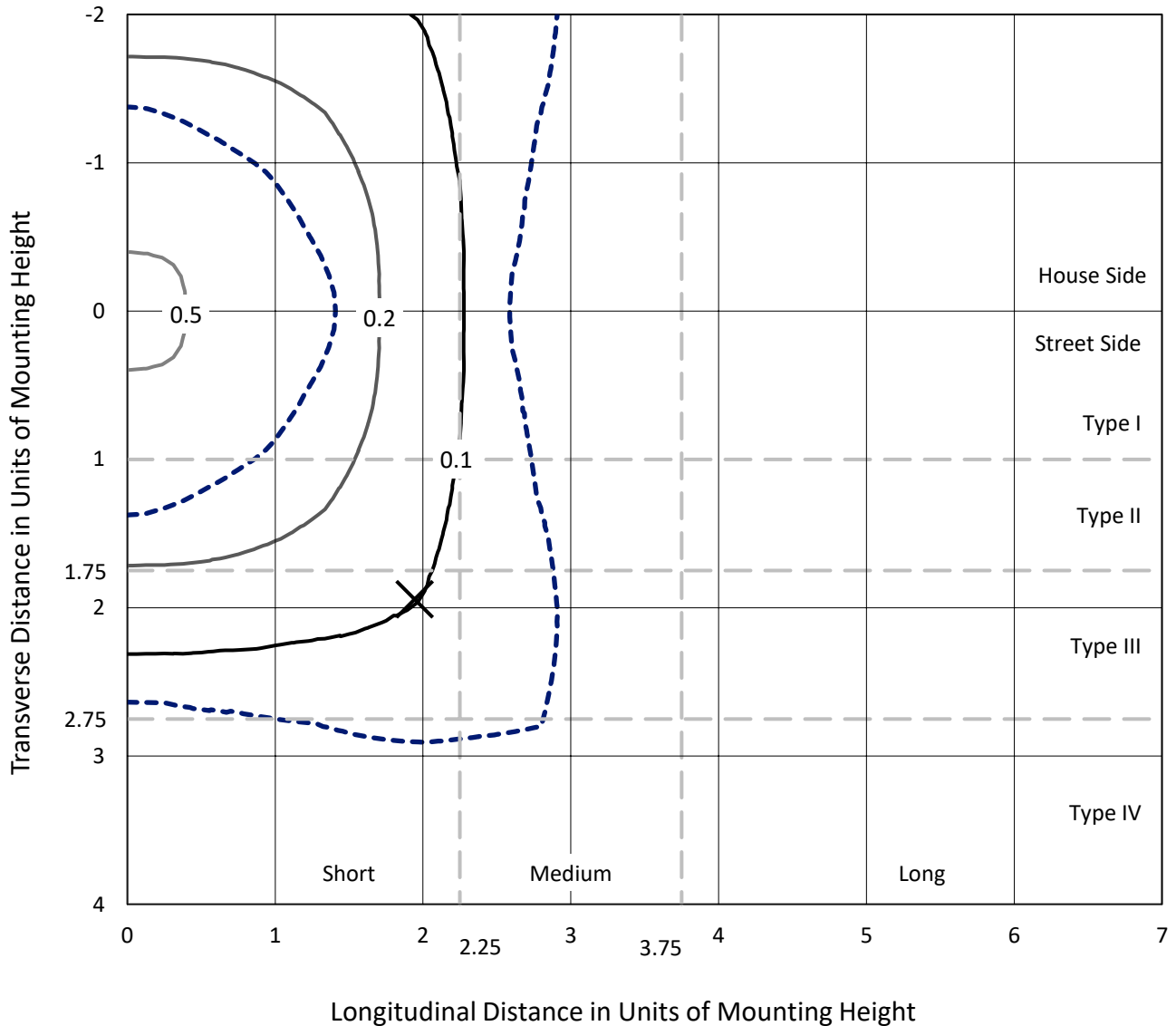
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

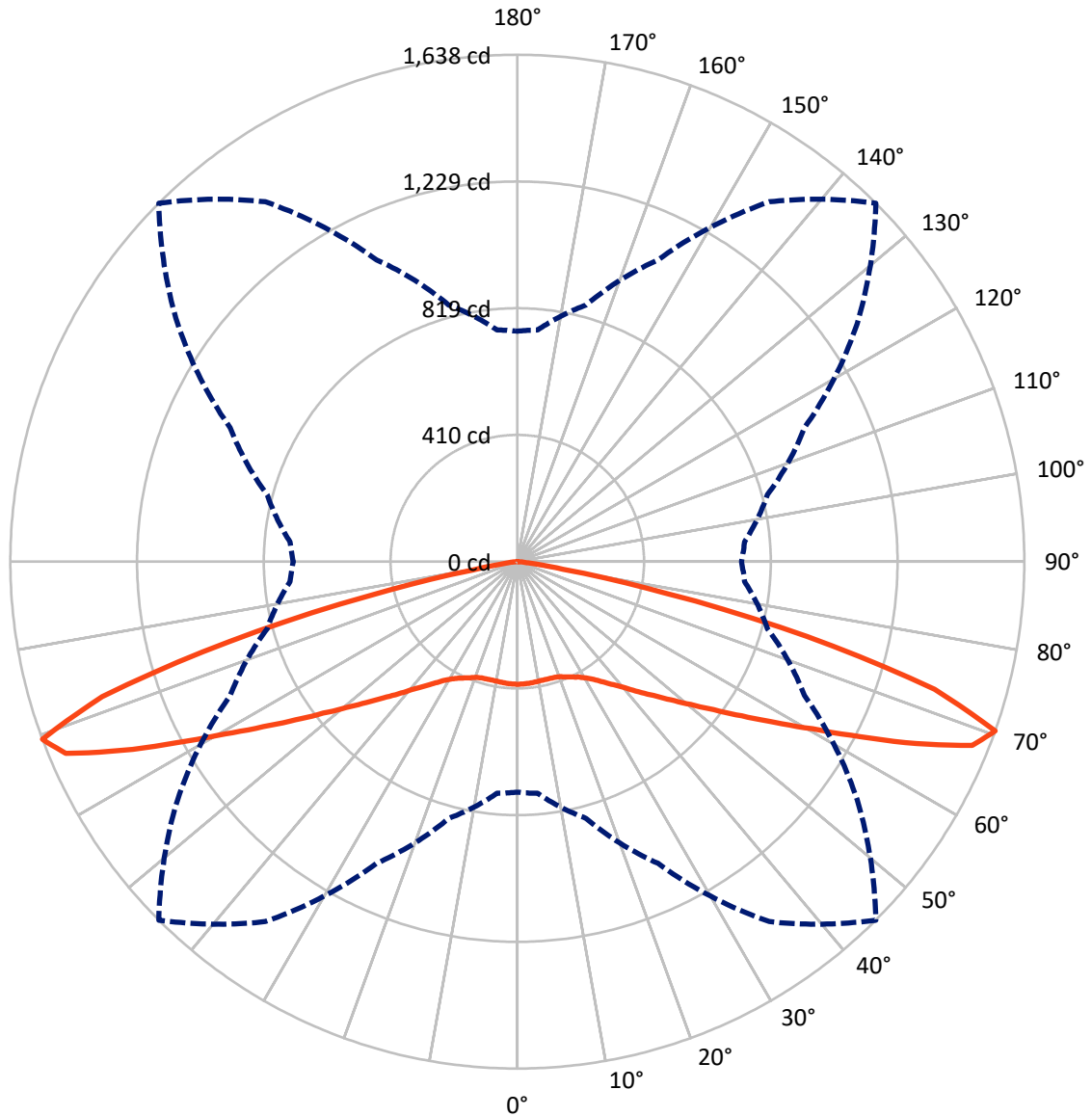
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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	1784.0	0.0	1784.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1784.0	0.0	1784.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3568.0	0.0	3568.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.6	1.1
10°-20°	110.3	3.1
20°-30°	188.6	5.3
30°-40°	299.3	8.4
40°-50°	482.8	13.5
50°-60°	785.6	22.0
60°-70°	1138.8	31.9
70°-80°	505.1	14.2
80°-90°	19.9	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°	3568.0	100.0
0°-180°	3568.0	100.0

**Coefficient of Utilization**



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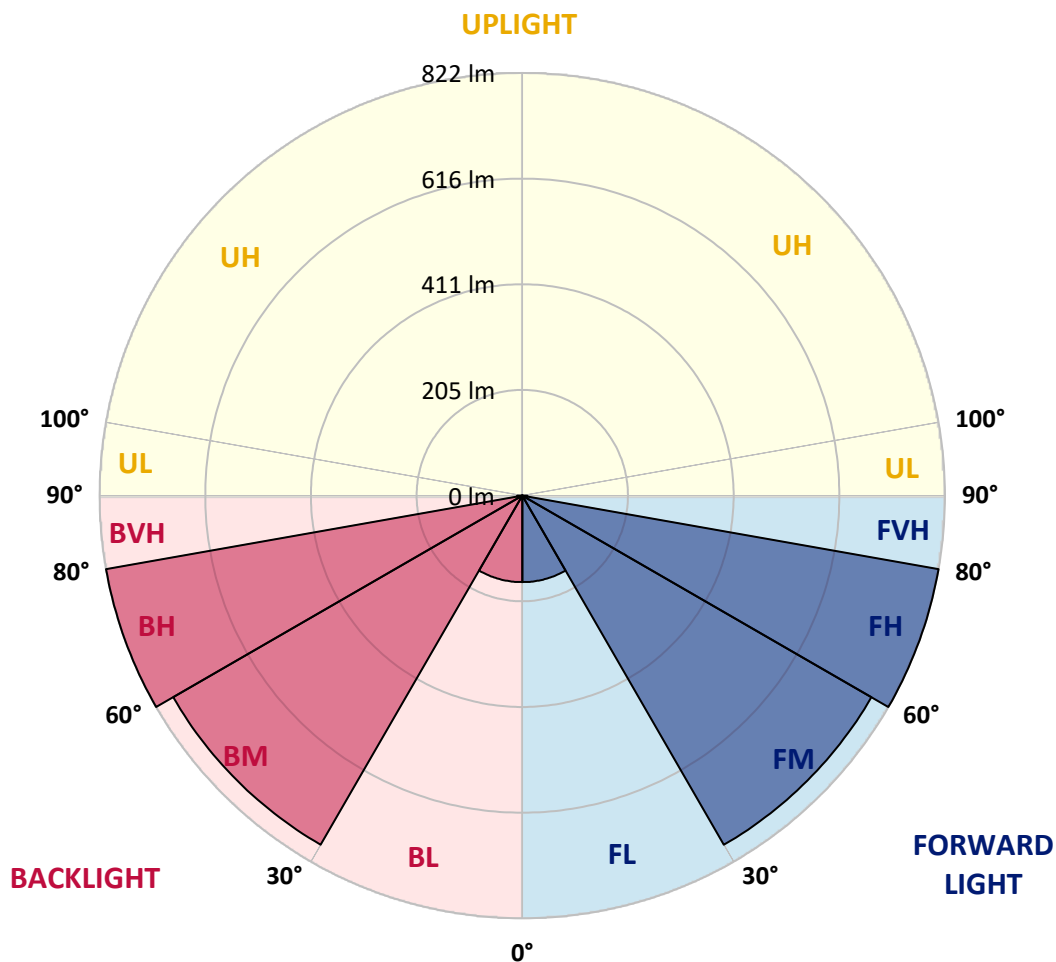
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	168.2	4.7			
FM (30°-60°)	783.9	22.0			
FH (60°-80°)	822.0	23.0			G1/1800
FVH (80°-90°)	10.0	0.3			G0/10
BL (0°-30°)	168.2	4.7	B1/500		
BM (30°-60°)	783.9	22.0	B1/1000		
BH (60°-80°)	822.0	23.0	B2/1000		G1/1800
BVH (80°-90°)	10.0	0.3			G0/10
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°	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2	396.2
2.5°	396.2	396.6	396.0	395.6	395.5	395.5	395.3	395.5	396.6	396.8	396.2
5°	395.1	395.5	395.3	394.9	394.7	394.7	394.5	394.3	395.3	395.6	395.5
7.5°	393.6	393.8	393.6	393.4	393.6	393.4	392.8	392.4	393.2	393.2	393.0
10°	390.9	391.3	391.1	391.3	391.7	391.7	390.9	390.2	390.4	390.0	390.0
12.5°	387.7	388.3	388.5	389.3	390.2	391.3	389.6	387.9	387.6	387.4	387.2
15°	385.7	386.2	387.0	387.7	389.4	391.9	389.4	386.8	386.1	385.3	384.9
17.5°	385.1	385.9	387.0	388.1	390.4	392.8	390.8	388.1	386.2	385.1	384.7
20°	386.6	387.2	388.9	390.9	394.1	396.6	394.5	391.7	388.9	387.2	386.6
22.5°	389.6	390.6	392.6	396.4	400.9	404.5	401.7	397.0	392.4	390.2	389.4
25°	396.2	397.0	399.4	404.5	409.7	413.1	410.1	404.7	398.5	395.5	394.5
27.5°	406.2	407.3	409.9	416.0	420.3	422.2	420.1	416.3	411.8	408.6	407.9
30°	420.3	421.6	425.5	431.9	434.8	435.9	434.9	432.5	429.3	425.9	425.2
32.5°	439.3	440.0	444.5	450.6	453.2	453.6	452.4	451.3	446.0	440.4	440.0
35°	460.5	461.8	467.3	474.4	476.9	477.1	474.8	473.1	466.9	462.4	462.4
37.5°	488.7	489.3	494.6	502.6	505.3	504.5	503.4	501.9	495.3	489.5	489.7
40°	521.8	523.0	527.5	536.9	536.9	535.9	536.7	535.6	529.0	523.3	523.5
42.5°	561.1	561.7	567.1	577.1	576.4	574.5	575.2	573.7	569.6	563.2	560.9
45°	603.1	605.3	614.7	624.3	622.8	616.8	619.8	619.4	615.7	606.1	606.6
47.5°	653.6	657.4	666.4	677.9	676.2	666.8	670.2	672.4	667.2	656.7	654.8
50°	710.6	713.1	726.4	737.1	735.6	725.7	733.4	733.7	720.6	705.7	705.7
52.5°	771.4	773.8	791.9	808.6	809.5	795.1	801.3	800.9	779.4	759.9	756.1
55°	839.4	840.6	863.9	888.5	893.8	879.7	880.4	872.9	845.1	822.3	820.2
57.5°	909.8	913.9	939.7	971.6	987.2	978.6	974.6	954.5	927.6	901.5	900.2
60°	987.6	987.8	1021.3	1059.1	1090.7	1096.5	1080.3	1053.4	1018.6	984.0	982.5
62.5°	1041.6	1049.7	1092.0	1155.9	1212.5	1245.2	1202.5	1146.1	1077.7	1021.8	1016.2
65°	1052.7	1058.1	1122.6	1230.9	1346.6	1417.1	1318.4	1198.4	1081.6	1007.2	1003.4
67.5°	963.0	968.8	1055.7	1221.9	1440.6	1585.2	1393.6	1173.2	1014.7	922.5	915.2
70°	744.8	751.4	858.8	1075.6	1419.7	1638.1	1340.0	1023.3	836.8	737.3	724.0
72.5°	396.0	420.3	512.0	738.3	1152.3	1410.3	1098.7	746.7	539.7	441.2	423.5
75°	144.6	147.6	198.8	327.4	670.4	967.1	696.1	356.2	204.8	158.1	150.1
77.5°	59.8	59.6	65.4	98.9	243.5	495.3	271.7	104.6	65.3	60.4	59.6
80°	35.4	35.4	38.9	41.2	64.1	149.5	71.6	46.6	39.1	35.7	36.3
82.5°	15.8	16.7	24.6	26.0	31.0	41.0	34.6	29.7	25.6	17.7	16.0
85°	8.7	7.5	13.0	13.5	14.9	15.2	16.4	16.2	14.9	8.7	8.8
87.5°	1.7	2.1	3.8	2.8	3.2	2.8	3.8	5.3	5.5	3.0	2.4
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)