

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: P457166

Luminaire Tested: **GALN-SA8C-727-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457166  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-727-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47394 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

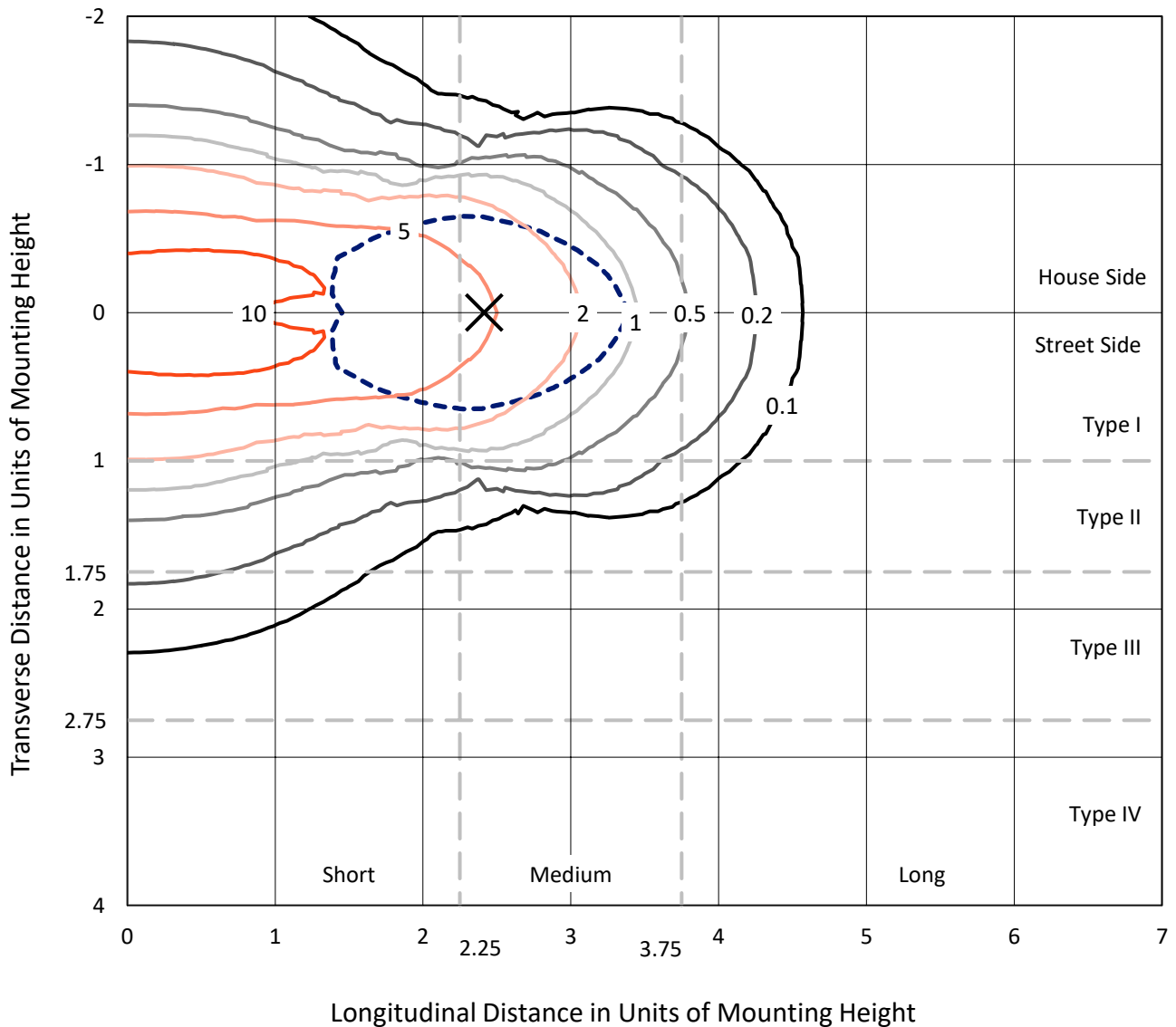
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

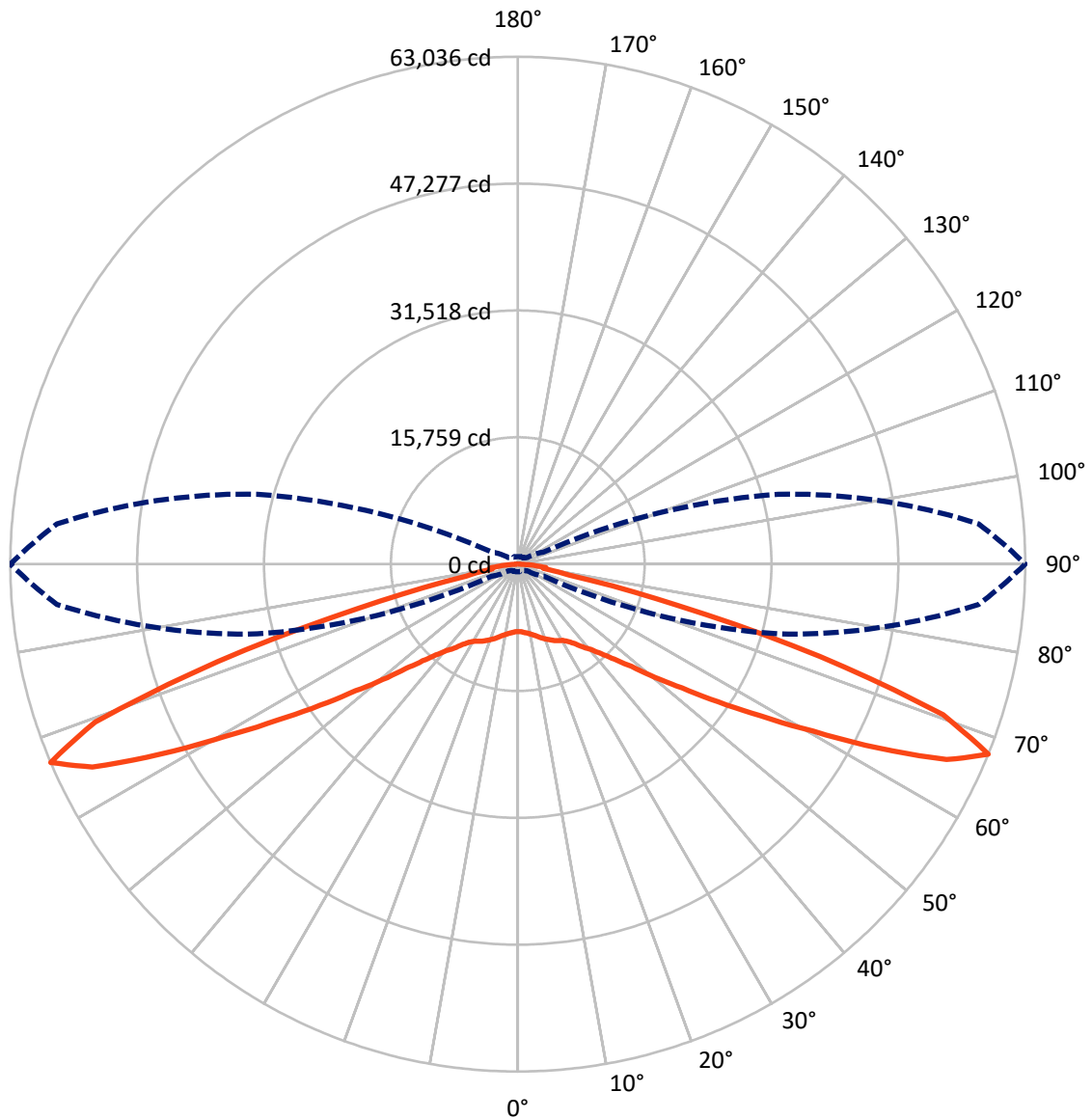
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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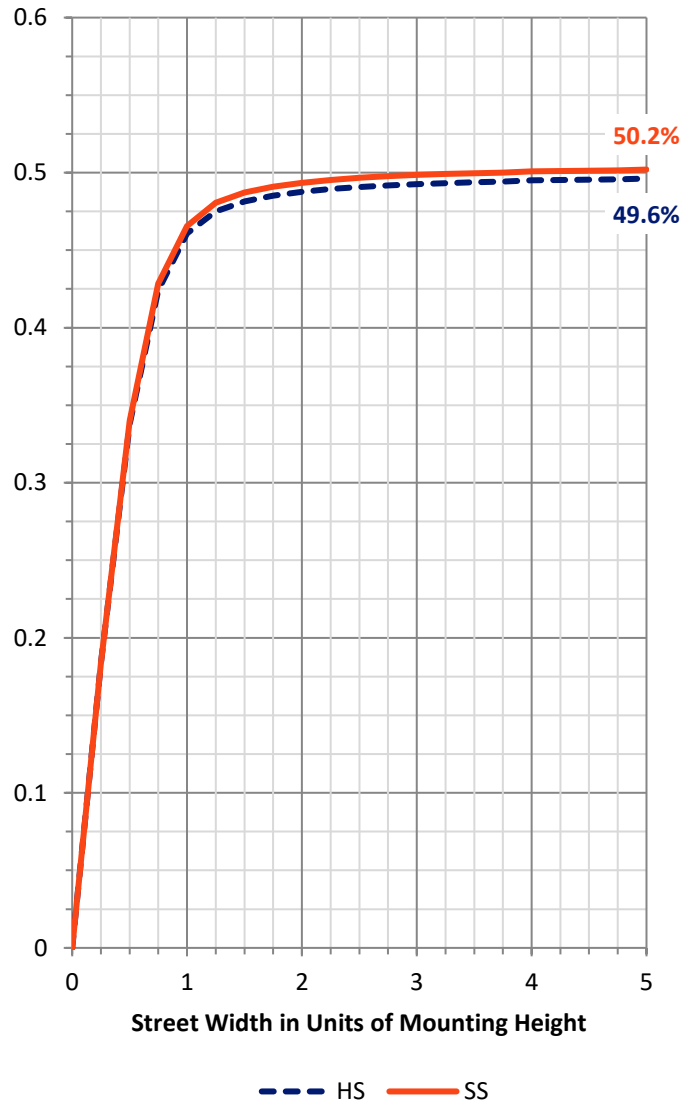
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23697.0	0.0	23697.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23697.0	0.0	23697.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	47394.0	0.0	47394.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	836.5	1.8
10°-20°	2676.4	5.6
20°-30°	4479.5	9.5
30°-40°	6068.6	12.8
40°-50°	7686.9	16.2
50°-60°	9602.8	20.3
60°-70°	11287.7	23.8
70°-80°	4318.1	9.1
80°-90°	437.5	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°	47394.0	100.0
0°-180°	47394.0	100.0

**Coefficient of Utilization**



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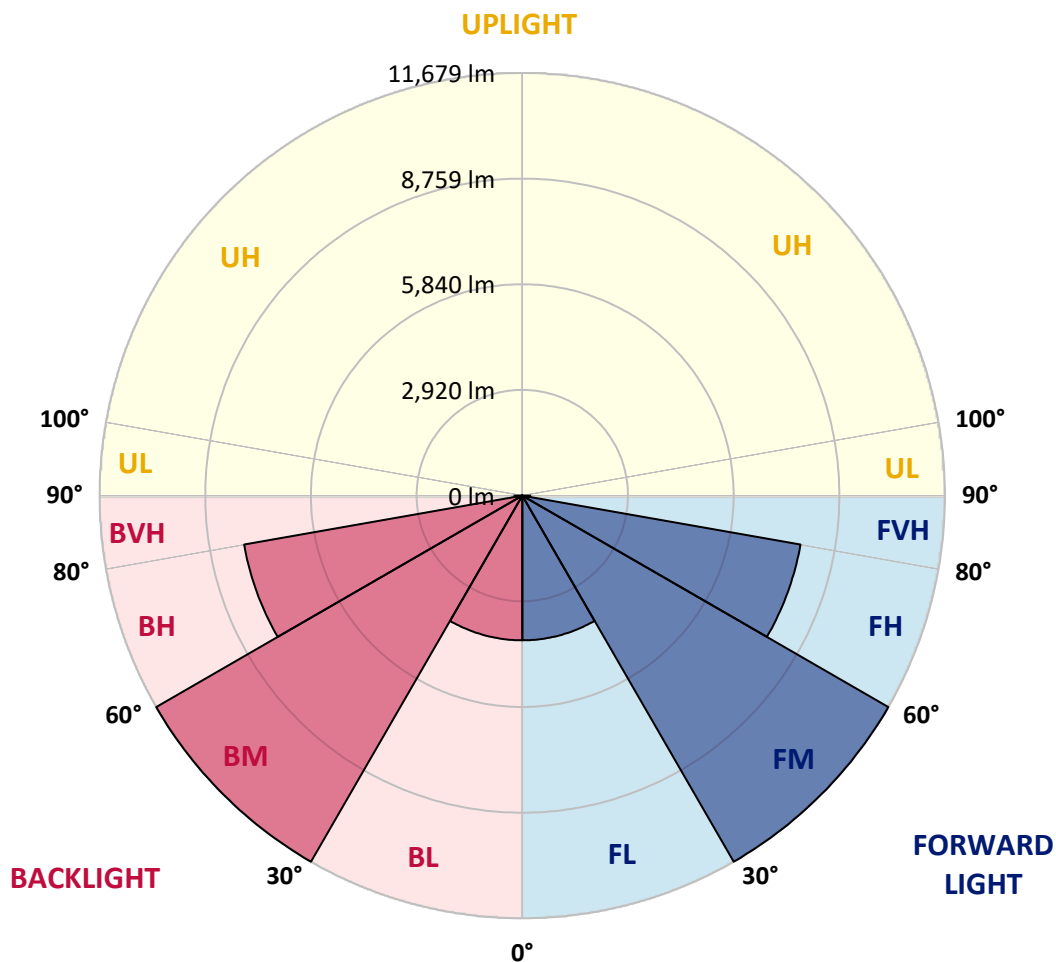
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3996.2	8.4			
FM	(30°-60°)	11679.2	24.6			
FH	(60°-80°)	7802.9	16.5			G4/12000
FVH	(80°-90°)	218.7	0.5			G2/225
BL	(0°-30°)	3996.2	8.4	B4/5000		
BM	(30°-60°)	11679.2	24.6	B5		
BH	(60°-80°)	7802.9	16.5	B5		G5
BVH	(80°-90°)	218.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8390.2	8390.2	8390.2	8390.2	8390.2	8390.2	8390.2	8390.2	8390.2	8390.2	8390.2
2.5°	8497.8	8492.6	8495.2	8492.6	8500.4	8495.2	8463.7	8437.5	8416.5	8419.1	8411.2
5°	8678.9	8681.5	8684.1	8671.0	8689.4	8678.9	8629.0	8587.0	8545.1	8529.3	8524.1
7.5°	8828.5	8841.6	8849.5	8862.6	8894.1	8894.1	8867.9	8807.5	8715.6	8663.2	8660.5
10°	8978.1	8988.6	9012.2	9054.2	9106.7	9156.5	9146.0	9064.7	8946.6	8857.4	8836.4
12.5°	9030.6	9043.7	9122.4	9243.1	9361.2	9458.3	9458.3	9392.7	9240.5	9104.1	9064.7
15°	8846.9	8870.5	9012.2	9269.4	9579.1	9791.6	9838.9	9747.0	9584.3	9374.4	9327.1
17.5°	8482.1	8539.8	8747.1	9127.7	9642.1	10083.0	10219.4	10174.8	9964.9	9697.2	9642.1
20°	8091.0	8154.0	8374.5	8878.4	9589.6	10253.5	10649.8	10660.3	10400.5	10012.1	9930.7
22.5°	7660.6	7707.9	7991.3	8581.8	9432.1	10292.9	11019.9	11200.9	10849.3	10327.0	10211.5
25°	7177.7	7230.2	7526.8	8164.5	9135.5	10248.3	11358.4	11757.3	11319.0	10662.9	10516.0
27.5°	6715.8	6736.8	7054.4	7702.6	8744.5	10132.8	11607.7	12269.1	11838.7	10941.1	10754.8
30°	6272.3	6322.2	6603.0	7243.3	8295.7	9907.1	11822.9	12851.7	12397.7	11232.4	10993.6
32.5°	5802.6	5862.9	6167.3	6815.6	7847.0	9568.6	11954.2	13489.4	13177.1	11704.8	11450.3
35°	5351.2	5390.5	5697.6	6327.4	7408.7	9174.9	11977.8	14208.5	14182.3	12421.3	12082.7
37.5°	4889.3	4947.0	5256.7	5860.3	6944.2	8757.6	11859.7	14972.2	15394.7	13415.9	13051.2
40°	4445.7	4495.6	4800.0	5408.9	6416.7	8248.5	11578.9	15670.3	16809.3	14439.5	13922.5
42.5°	3962.8	3976.0	4309.3	4928.6	5899.7	7658.0	11174.7	16292.3	18386.6	15812.0	15169.0
45°	3414.3	3448.5	3758.1	4367.0	5306.5	6996.7	10626.2	16806.7	20386.4	17714.7	16838.2
47.5°	2865.8	2894.7	3178.2	3779.1	4658.3	6238.2	9781.1	17258.1	22438.6	20131.8	18982.3
50°	2330.5	2346.2	2577.2	3109.9	3928.7	5440.4	8734.0	17402.4	24758.6	23554.0	22087.0
52.5°	1842.3	1865.9	2041.8	2459.1	3149.3	4498.2	7602.9	17045.5	27467.0	27611.3	25543.3
55°	1493.3	1501.2	1632.4	1939.4	2461.7	3511.5	6238.2	16050.8	30380.1	32810.3	30172.8
57.5°	1286.0	1291.2	1364.7	1535.3	1894.8	2648.0	4839.4	14169.1	32996.6	38901.5	35510.8
60°	1167.9	1170.5	1212.5	1312.2	1501.2	2031.3	3466.8	11513.3	35579.0	45680.3	42145.3
62.5°	1094.4	1094.4	1123.2	1178.4	1270.2	1558.9	2511.6	8306.2	37347.9	52558.9	50322.9
65°	1023.5	1023.5	1044.5	1083.9	1133.7	1275.5	1855.5	5416.8	37303.3	57568.9	58547.8
67.5°	942.2	942.2	957.9	997.3	1026.1	1097.0	1432.9	3548.2	33508.4	57458.7	63035.5
70°	845.1	845.1	866.1	900.2	923.8	968.4	1131.1	2427.6	24616.9	49060.6	56059.9
72.5°	748.0	750.6	763.7	797.8	816.2	842.4	939.5	1700.6	15100.8	33406.0	39198.1
75°	640.4	645.6	658.7	692.8	708.6	719.1	792.6	1212.5	7639.6	18011.3	20507.1
77.5°	517.0	527.5	535.4	572.1	582.6	598.4	653.5	876.6	3354.0	6471.8	6529.5
80°	377.9	391.0	414.7	448.8	456.6	467.1	498.6	622.0	1519.5	2955.1	3209.6
82.5°	278.2	296.6	267.7	312.3	312.3	299.2	351.7	417.3	698.1	2926.2	3501.0
85°	152.2	154.8	139.1	160.1	170.6	168.0	186.3	204.7	338.5	1952.6	2012.9
87.5°	36.7	39.4	42.0	49.9	60.4	60.4	65.6	57.7	110.2	632.5	362.2
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)