

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: P457150

Luminaire Tested: **GALN-SA8C-727-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457150
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-SA8C-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49796 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

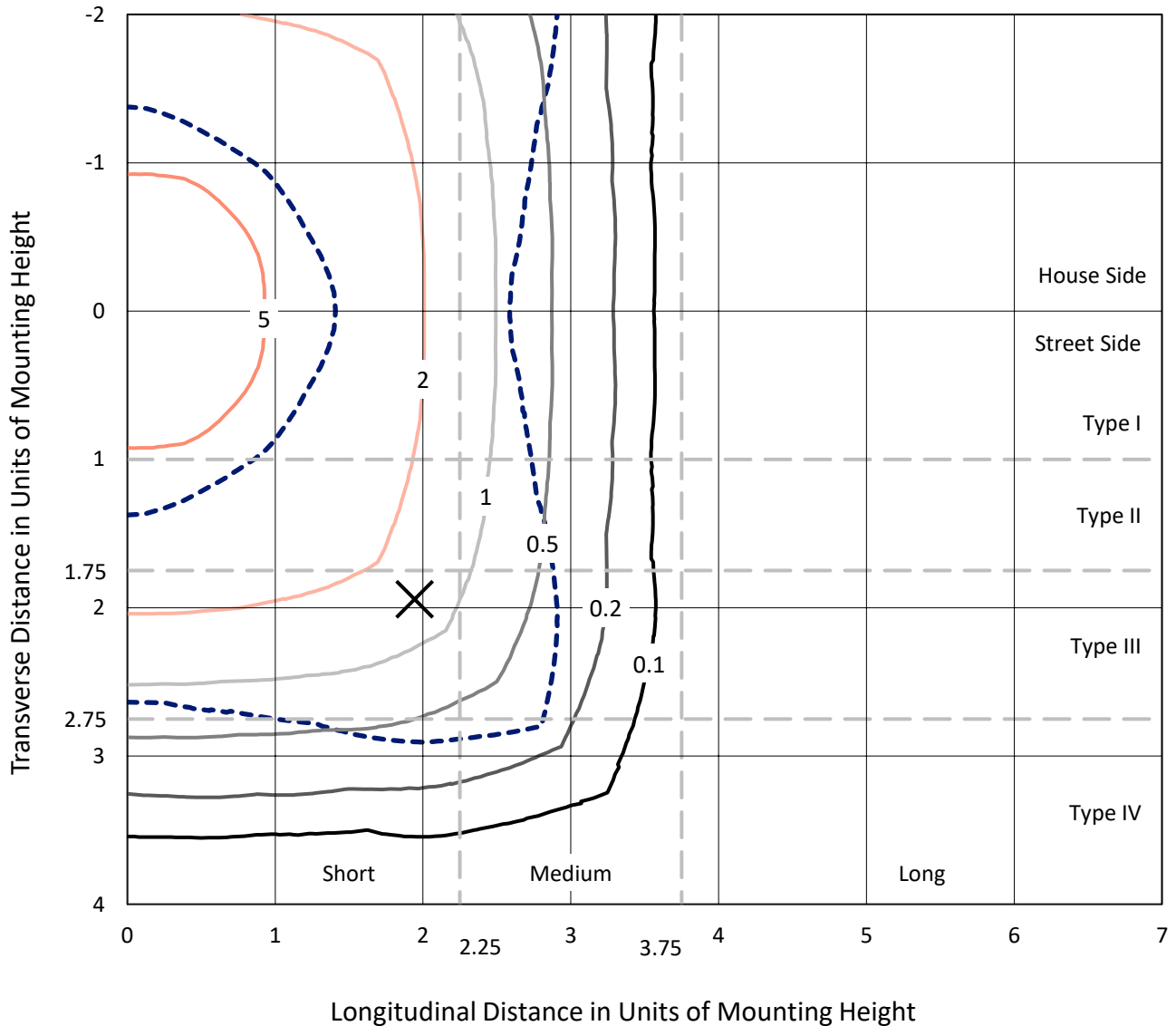
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

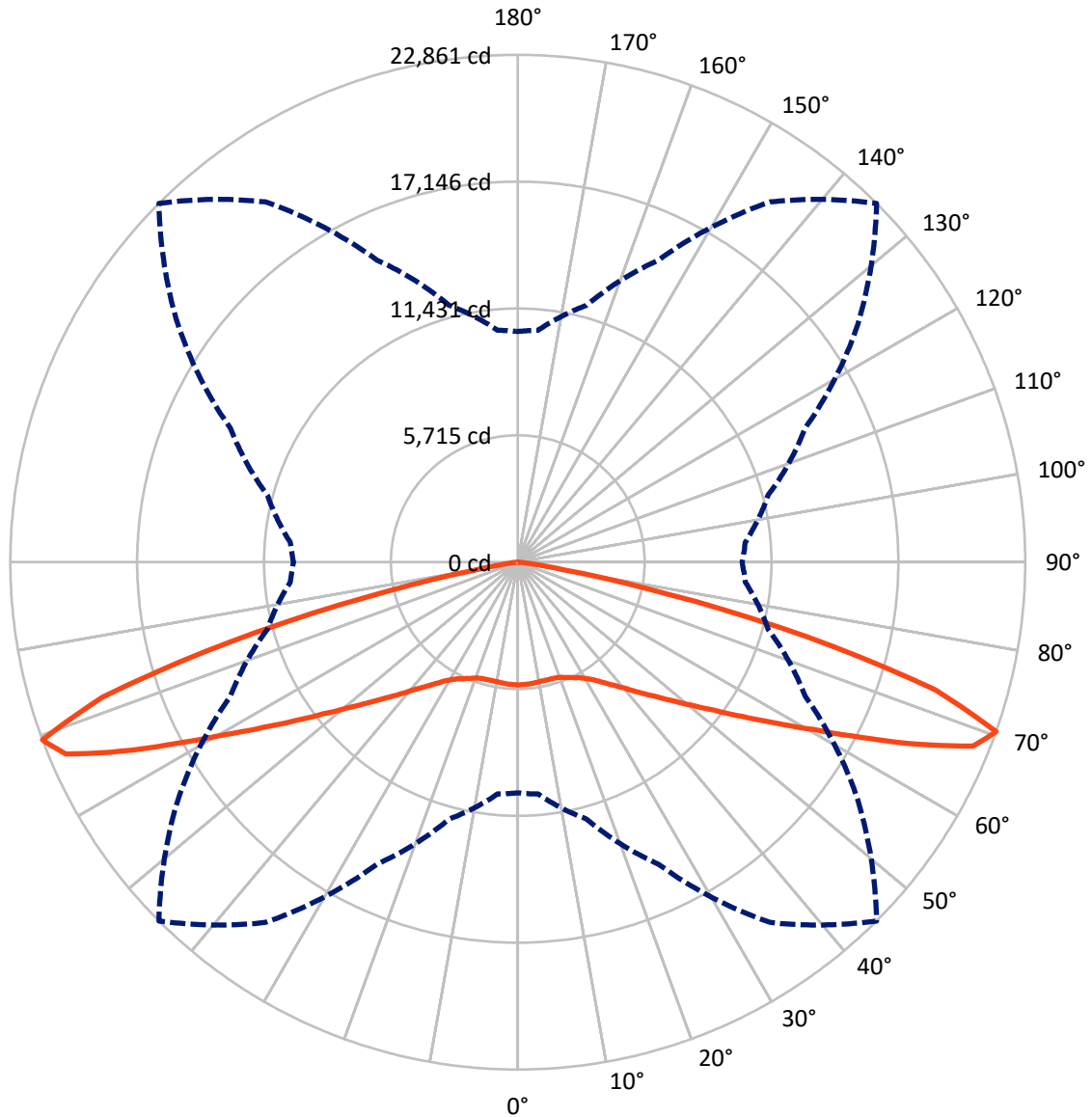
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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
House Side	Lumens	24898.0	0.0	24898.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24898.0	0.0	24898.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	49796.0	0.0	49796.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.4	1.1
10°-20°	1538.7	3.1
20°-30°	2631.7	5.3
30°-40°	4177.0	8.4
40°-50°	6738.6	13.5
50°-60°	10963.9	22.0
60°-70°	15893.7	31.9
70°-80°	7049.9	14.2
80°-90°	278.1	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°	49796.0	100.0
0°-180°	49796.0	100.0



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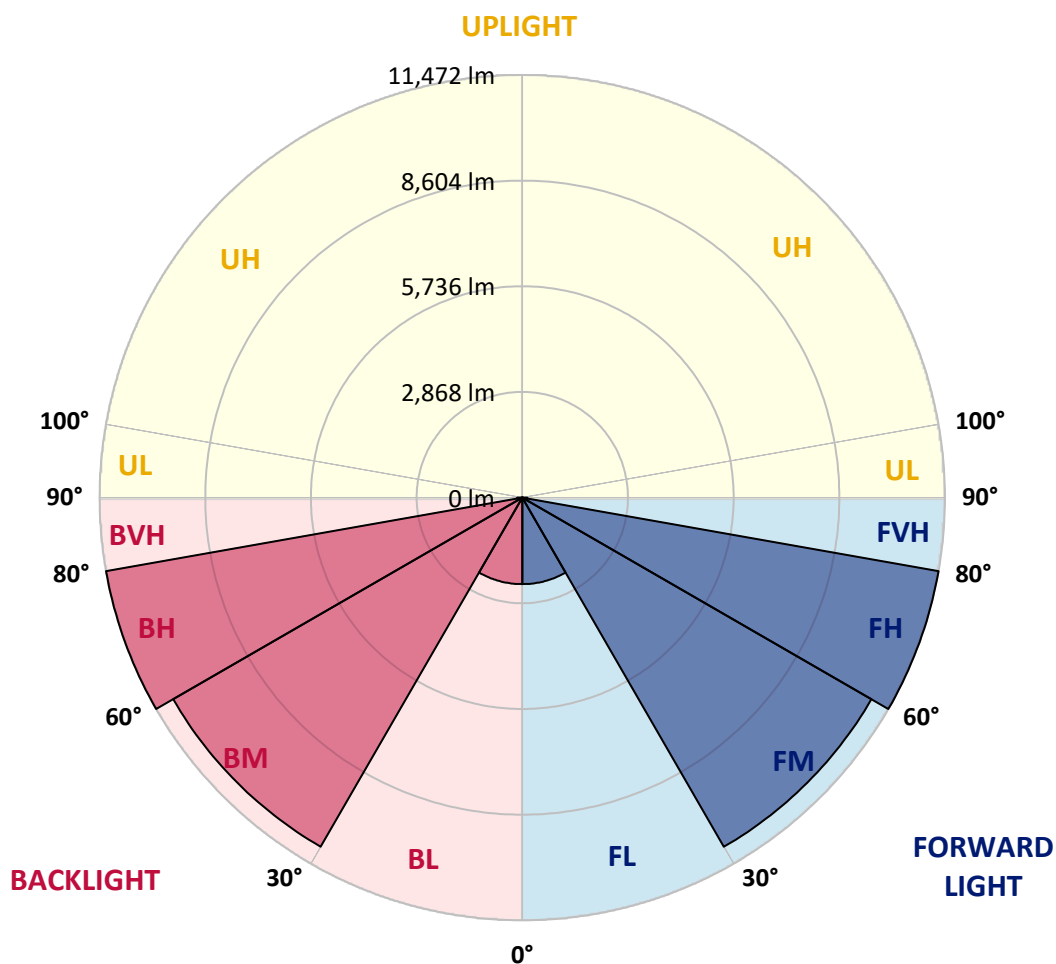
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2347.4	4.7			
FM	(30°-60°)	10939.8	22.0			
FH	(60°-80°)	11471.8	23.0			G4/12000
FVH	(80°-90°)	139.0	0.3			G2/225
BL	(0°-30°)	2347.4	4.7	B3/2500		
BM	(30°-60°)	10939.8	22.0	B5		
BH	(60°-80°)	11471.8	23.0	B5		G4/12000
BVH	(80°-90°)	139.0	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5529.6	5529.6	5529.6	5529.6	5529.6	5529.6	5529.6	5529.6	5529.6	5529.6	5529.6
2.5°	5529.6	5534.9	5527.0	5521.7	5519.1	5519.1	5516.5	5519.1	5534.9	5537.5	5529.6
5°	5513.9	5519.1	5516.5	5511.2	5508.6	5508.6	5506.0	5503.4	5516.5	5521.7	5519.1
7.5°	5492.9	5495.5	5492.9	5490.2	5492.9	5490.2	5482.4	5477.1	5487.6	5487.6	5485.0
10°	5456.1	5461.4	5458.8	5461.4	5466.6	5466.6	5456.1	5445.6	5448.3	5443.0	5443.0
12.5°	5411.5	5419.4	5422.0	5432.5	5445.6	5461.4	5437.8	5414.1	5408.9	5406.3	5403.6
15°	5382.6	5390.5	5401.0	5411.5	5435.1	5469.2	5435.1	5398.4	5387.9	5377.4	5372.1
17.5°	5374.8	5385.3	5401.0	5416.8	5448.3	5482.4	5453.5	5416.8	5390.5	5374.8	5369.5
20°	5395.8	5403.6	5427.3	5456.1	5500.7	5534.9	5506.0	5466.6	5427.3	5403.6	5395.8
22.5°	5437.8	5450.9	5479.7	5532.2	5595.2	5645.1	5605.7	5540.1	5477.1	5445.6	5435.1
25°	5529.6	5540.1	5574.2	5645.1	5718.6	5765.8	5723.8	5647.7	5561.1	5519.1	5506.0
27.5°	5668.7	5684.5	5721.2	5805.2	5865.5	5891.8	5862.9	5810.4	5747.4	5702.8	5692.3
30°	5865.5	5883.9	5939.0	6028.2	6067.6	6083.4	6070.2	6036.1	5991.5	5944.3	5933.8
32.5°	6130.6	6141.1	6204.1	6288.1	6324.8	6330.1	6314.3	6298.6	6225.1	6146.3	6141.1
35°	6427.2	6445.5	6521.6	6621.4	6655.5	6658.1	6626.6	6603.0	6516.4	6453.4	6453.4
37.5°	6820.8	6828.7	6902.2	7015.0	7051.8	7041.3	7025.5	7004.5	6912.7	6831.3	6833.9
40°	7282.7	7298.5	7361.4	7492.7	7492.7	7479.5	7490.0	7474.3	7382.4	7303.7	7306.3
42.5°	7831.2	7839.1	7915.2	8054.3	8043.8	8017.5	8028.0	8007.0	7949.3	7860.1	7828.6
45°	8416.5	8447.9	8579.2	8713.0	8692.0	8608.0	8650.0	8644.8	8592.3	8458.4	8466.3
47.5°	9122.4	9174.9	9300.9	9461.0	9437.3	9306.1	9353.4	9384.9	9311.4	9164.4	9138.2
50°	9917.6	9951.7	10138.1	10287.6	10266.7	10127.6	10235.2	10240.4	10056.7	9849.4	9849.4
52.5°	10765.3	10799.4	11051.3	11284.9	11298.0	11096.0	11182.6	11177.3	10878.1	10605.2	10552.7
55°	11715.3	11731.1	12056.5	12400.3	12473.8	12276.9	12287.4	12182.5	11794.1	11476.5	11447.6
57.5°	12696.8	12754.6	13114.1	13560.3	13778.1	13657.4	13602.3	13321.5	12946.2	12581.4	12563.0
60°	13783.3	13786.0	14253.1	14780.6	15221.5	15302.9	15077.2	14701.9	14216.4	13733.5	13712.5
62.5°	14536.6	14649.4	15239.9	16132.2	16922.1	17378.8	16783.0	15995.7	15040.4	14261.0	14182.3
65°	14691.4	14767.5	15667.7	17179.3	18793.3	19777.5	18399.7	16725.3	15095.5	14056.3	14003.8
67.5°	13439.6	13520.9	14733.4	17053.4	20105.5	22123.7	19449.4	16373.6	14161.3	12875.3	12773.0
70°	10395.2	10487.1	11985.6	15011.6	19814.2	22861.1	18701.5	14282.0	11678.6	10290.3	10103.9
72.5°	5527.0	5865.5	7146.2	10303.4	16082.3	19683.0	15334.4	10421.5	7532.0	6156.8	5910.1
75°	2018.2	2060.2	2774.0	4569.1	9356.0	13497.3	9715.5	4970.6	2858.0	2207.1	2094.3
77.5°	834.6	831.9	913.3	1380.4	3398.6	6912.7	3792.3	1459.2	910.7	842.4	831.9
80°	493.4	493.4	543.3	574.7	894.9	2086.4	999.9	650.9	545.9	498.6	506.5
82.5°	220.4	233.6	343.8	362.2	433.0	572.1	482.9	414.7	356.9	246.7	223.1
85°	120.7	105.0	181.1	189.0	207.3	212.6	228.3	225.7	207.3	120.7	123.3
87.5°	23.6	28.9	52.5	39.4	44.6	39.4	52.5	73.5	76.1	42.0	34.1
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)