

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: P533993

Luminaire Tested: **GALN-SA9C-727-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-727-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31989 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

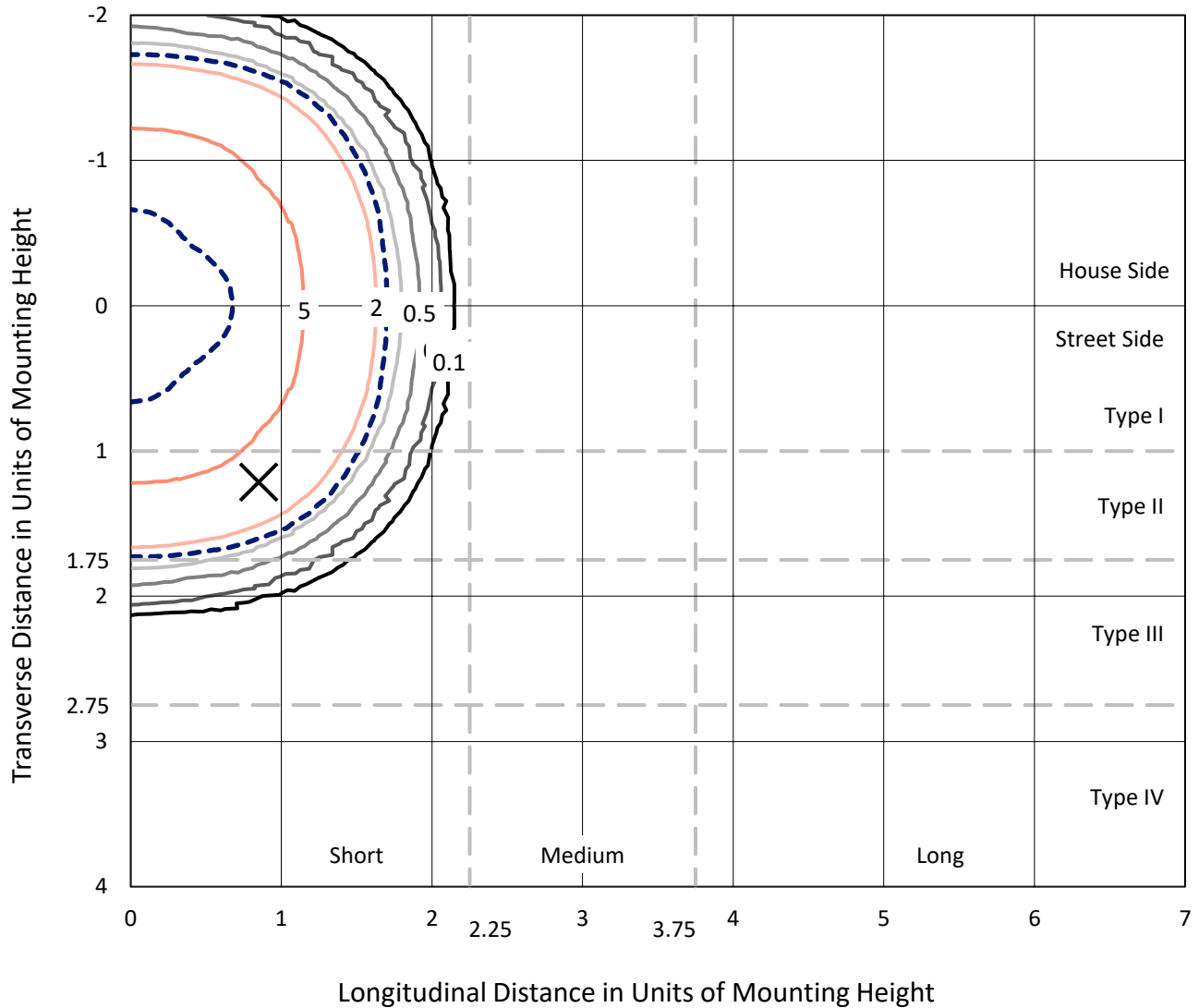
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

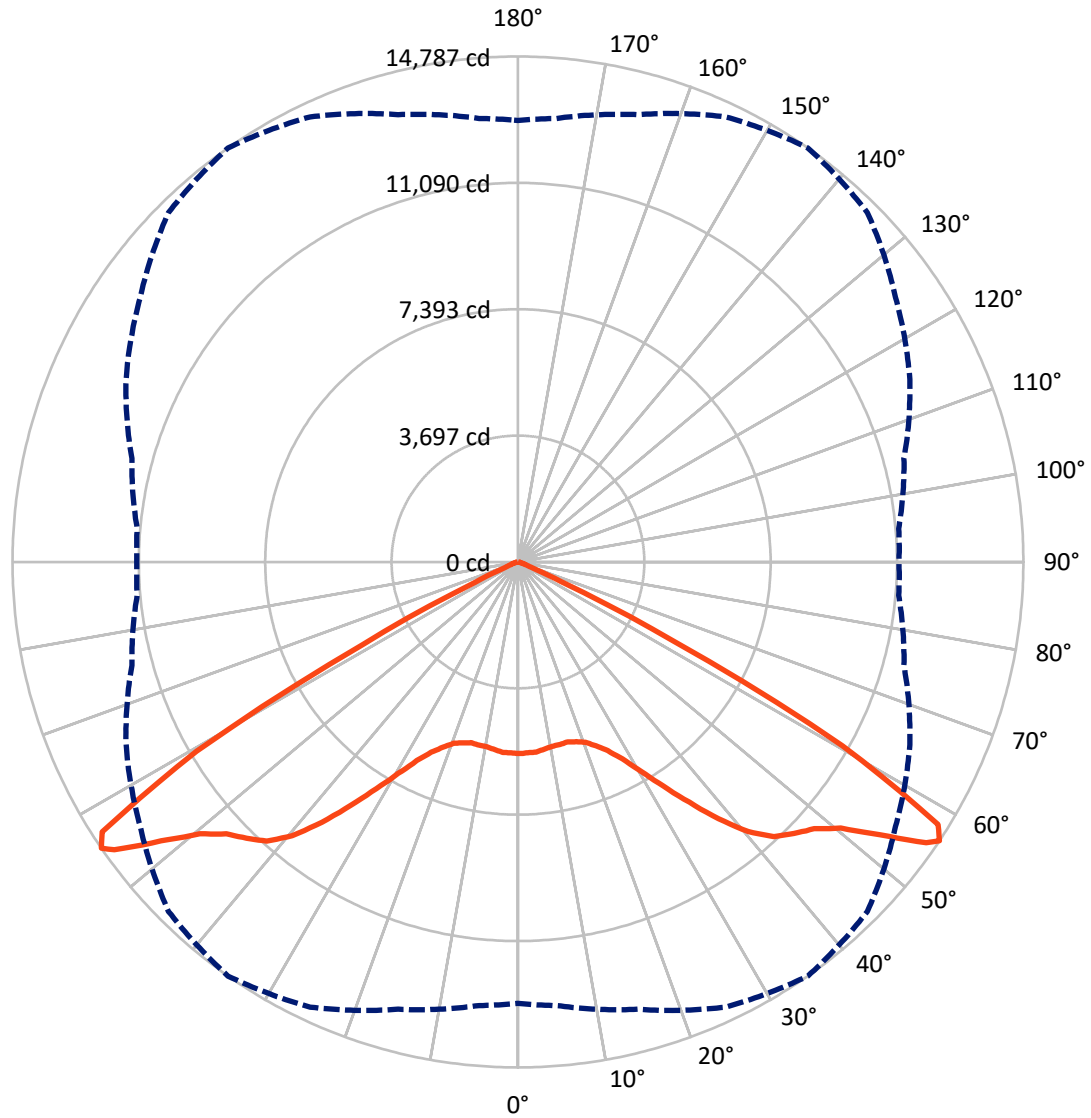
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15994.5	0.0	15994.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15994.5	0.0	15994.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31989.0	0.0	31989.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.8	1.6
10°-20°	1538.0	4.8
20°-30°	2785.1	8.7
30°-40°	5164.6	16.1
40°-50°	8477.3	26.5
50°-60°	10921.3	34.1
60°-70°	2406.9	7.5
70°-80°	139.6	0.4
80°-90°	29.4	0.1
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°	31989.0	100.0
0°-180°	31989.0	100.0



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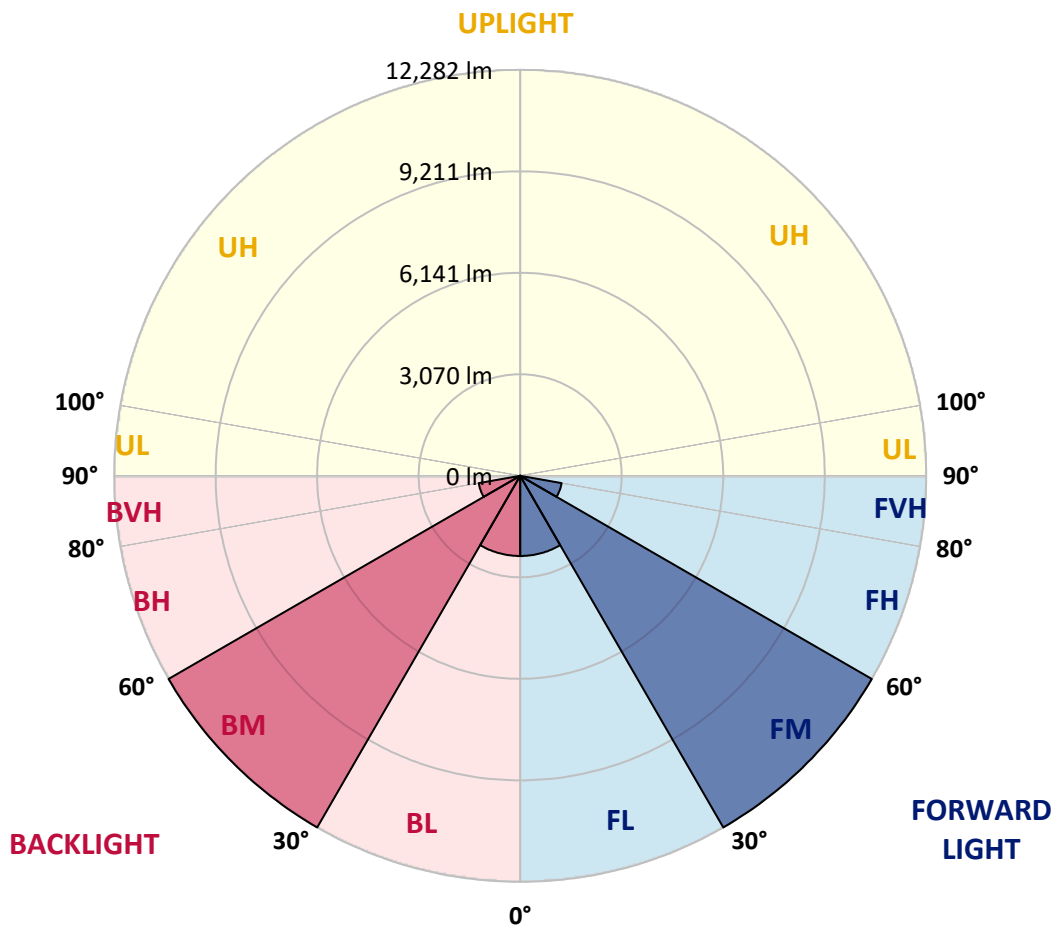
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2424.9	7.6			
FM (30°-60°)	12281.6	38.4			
FH (60°-80°)	1273.3	4.0			G1/1800
FVH (80°-90°)	14.7	0.0			G1/100
BL (0°-30°)	2424.9	7.6	B3/2500		
BM (30°-60°)	12281.6	38.4	B5		
BH (60°-80°)	1273.3	4.0	B3/2500		G1/1800
BVH (80°-90°)	14.7	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5605.2	5605.2	5605.2	5605.2	5605.2	5605.2	5605.2	5605.2	5605.2	5605.2	5605.2
2.5°	5616.8	5616.8	5622.6	5628.3	5587.8	5570.4	5576.2	5564.6	5558.8	5576.2	5576.2
5°	5599.4	5599.4	5582.0	5587.8	5587.8	5535.6	5535.6	5547.2	5547.2	5512.4	5500.8
7.5°	5553.0	5541.4	5518.2	5547.2	5529.8	5529.8	5489.2	5460.2	5448.7	5471.8	5448.7
10°	5454.5	5460.2	5483.4	5495.0	5483.4	5518.2	5448.7	5408.1	5367.5	5350.1	5350.1
12.5°	5408.1	5442.9	5408.1	5437.1	5477.6	5448.7	5408.1	5379.1	5321.1	5297.9	5297.9
15°	5402.3	5425.5	5437.1	5477.6	5460.2	5471.8	5390.7	5355.9	5269.0	5228.4	5211.0
17.5°	5396.5	5425.5	5442.9	5518.2	5529.8	5535.6	5471.8	5367.5	5292.2	5251.6	5211.0
20°	5460.2	5471.8	5506.6	5582.0	5628.3	5709.5	5593.6	5483.4	5321.1	5274.8	5257.4
22.5°	5541.4	5599.4	5634.1	5715.3	5837.0	5906.6	5755.9	5616.8	5448.7	5390.7	5321.1
25°	5802.2	5790.6	5848.6	6016.7	6115.2	6167.4	6045.7	5842.8	5622.6	5553.0	5564.6
27.5°	6126.8	6138.4	6190.6	6376.1	6521.0	6602.1	6457.2	6190.6	5976.1	5860.2	5848.6
30°	6550.0	6538.4	6596.4	6845.6	7106.4	7228.2	6973.1	6660.1	6451.4	6300.7	6335.5
32.5°	6996.3	7002.1	7164.4	7390.5	7813.6	8051.3	7639.7	7257.1	6944.1	6839.8	6787.6
35°	7657.1	7686.1	7813.6	8161.4	8630.9	8938.1	8486.0	8028.1	7668.7	7477.4	7500.6
37.5°	8474.4	8445.4	8659.9	9036.7	9529.4	9755.4	9372.8	8851.2	8486.0	8358.5	8439.6
40°	9343.9	9372.8	9483.0	9825.0	10375.6	10526.3	9958.3	9674.3	9355.5	9291.7	9390.2
42.5°	10213.3	10195.9	10277.1	10584.3	10984.3	10879.9	10543.7	10375.6	10149.6	10022.1	10155.4
45°	10850.9	10822.0	10972.7	11181.3	11326.3	11129.2	10978.5	10920.5	10804.6	10665.5	10787.2
47.5°	11471.2	11448.0	11592.9	11650.9	11662.4	11401.6	11430.6	11534.9	11245.1	10955.3	11094.4
50°	11998.6	11958.1	12137.8	12265.3	12236.3	11818.9	11923.3	11818.9	11366.8	11024.8	10972.7
52.5°	12879.7	12897.1	13088.4	13320.2	13250.7	12902.9	12752.2	12276.9	11697.2	11390.0	11210.3
55°	13436.2	13349.2	13679.6	14415.8	14496.9	14137.5	13470.9	12769.6	11900.1	11523.3	11477.0
56°	12914.5	13024.6	13546.3	14369.4	14786.7	14456.3	13488.3	12647.8	11691.4	11181.3	11146.6
57.5°	11587.1	11529.1	12236.3	13360.8	14496.9	14357.8	13013.0	11778.4	10665.5	10091.6	10022.1
60°	7210.8	7378.9	7999.1	9390.2	10908.9	10978.5	9645.3	8584.5	7286.1	6776.0	6897.8
62.5°	2822.9	2678.0	3066.3	4103.9	5147.2	5379.1	4874.8	4051.7	3327.2	2822.9	2788.1
65°	655.0	637.6	718.8	991.2	1385.3	1605.6	1524.5	1095.5	805.7	765.1	707.2
67.5°	371.0	371.0	353.6	353.6	388.4	411.5	394.2	388.4	405.8	423.1	417.3
70°	260.8	255.0	243.5	249.2	237.7	237.7	255.0	284.0	307.2	307.2	313.0
72.5°	156.5	156.5	156.5	173.9	173.9	173.9	191.3	214.5	220.3	214.5	208.7
75°	69.6	69.6	81.2	98.5	110.1	115.9	133.3	144.9	156.5	144.9	133.3
77.5°	17.4	17.4	29.0	40.6	52.2	63.8	86.9	104.3	110.1	104.3	86.9
80°	5.8	5.8	11.6	29.0	52.2	63.8	86.9	92.7	98.5	86.9	69.6
82.5°	5.8	5.8	11.6	29.0	40.6	52.2	69.6	81.2	86.9	75.4	69.6
85°	0.0	5.8	11.6	23.2	34.8	46.4	46.4	34.8	29.0	17.4	23.2
87.5°	0.0	0.0	5.8	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)