

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: P458224

Luminaire Tested: **GALN-SA9C-827-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48896 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

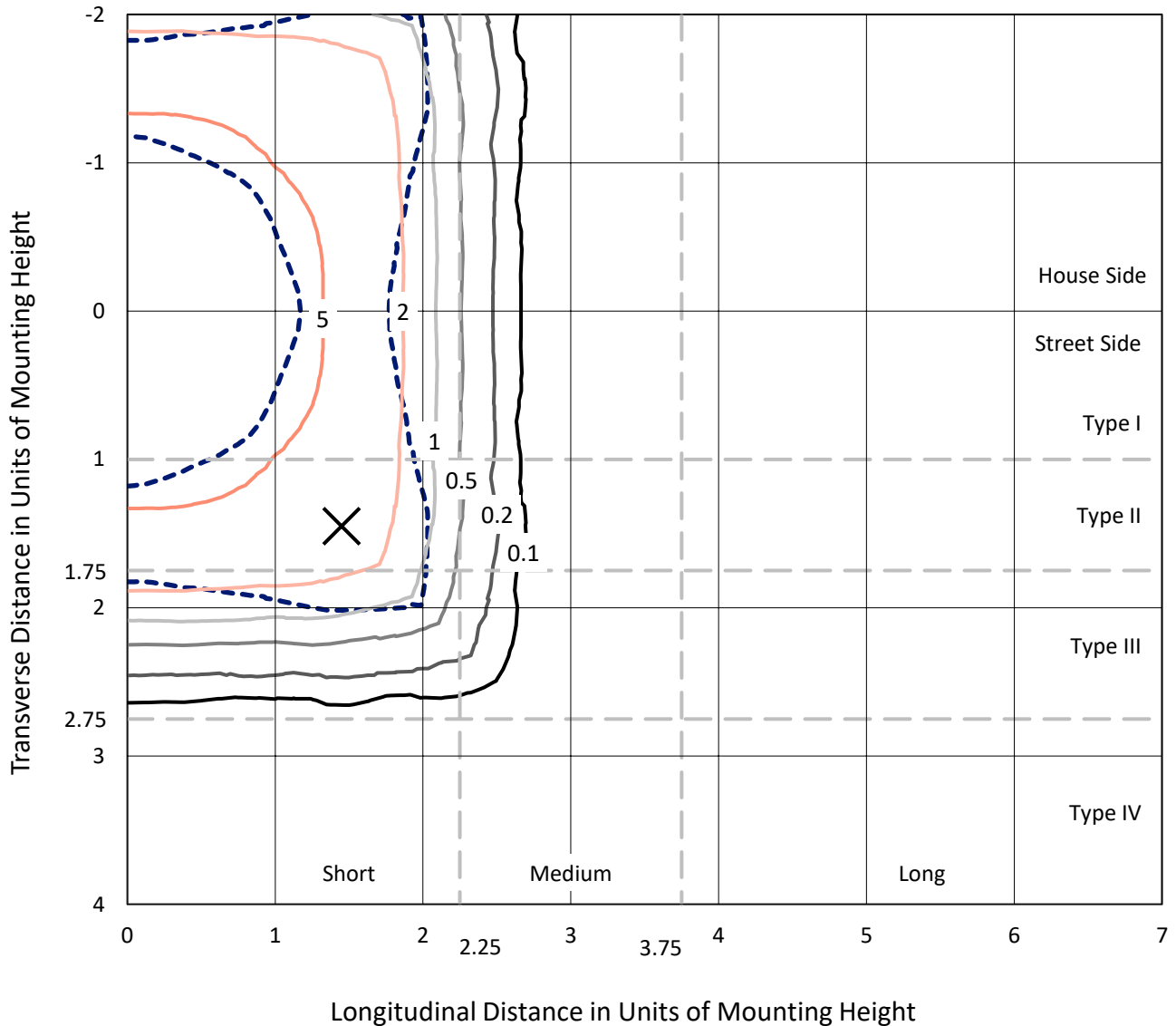
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

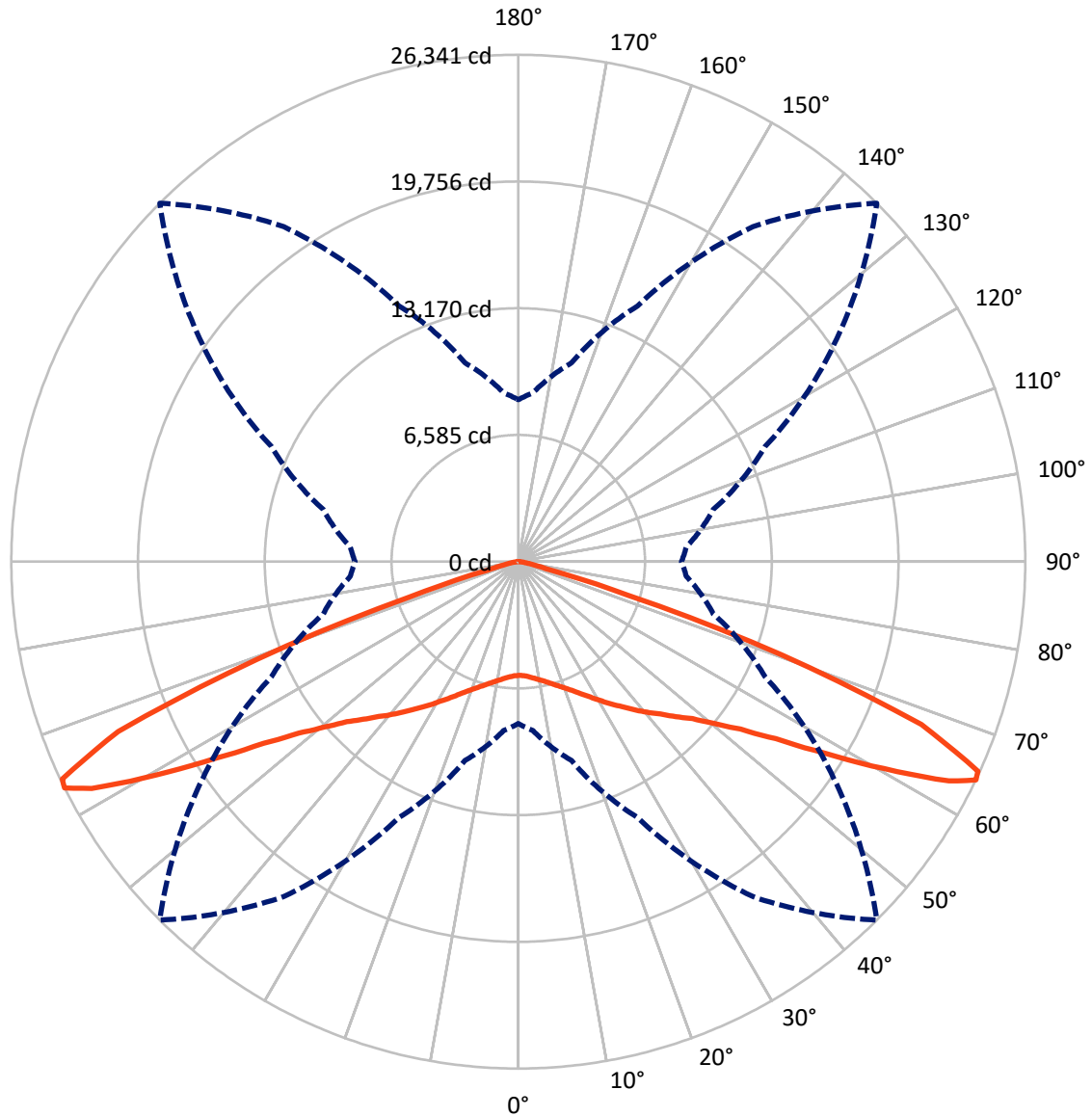
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24448.0	0.0	24448.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24448.0	0.0	24448.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	48896.0	0.0	48896.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.6	1.2
10°-20°	1872.8	3.8
20°-30°	3539.1	7.2
30°-40°	5861.2	12.0
40°-50°	9150.3	18.7
50°-60°	14146.1	28.9
60°-70°	12198.0	24.9
70°-80°	1382.3	2.8
80°-90°	165.6	0.3
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°	48896.0	100.0
0°-180°	48896.0	100.0

Coefficient of Utilization



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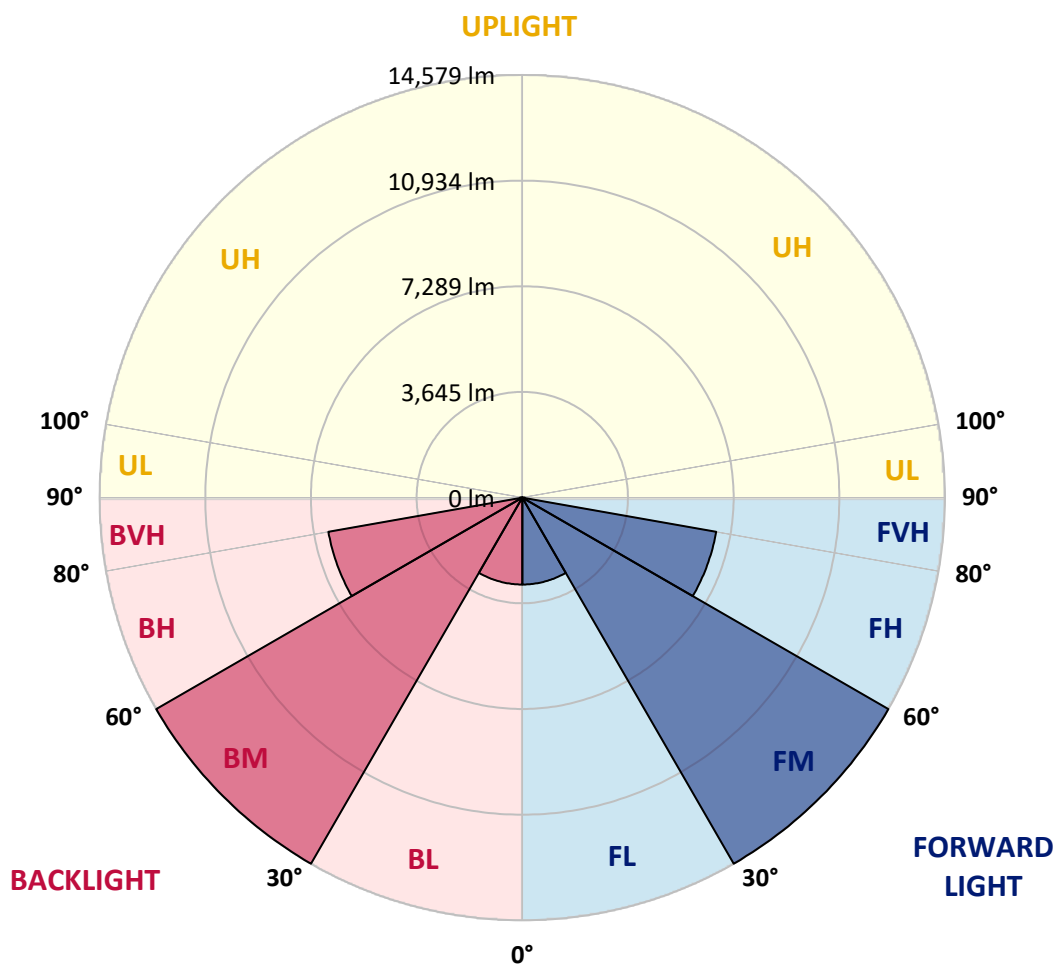
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2996.3	6.1			
FM (30°-60°)	14578.8	29.8			
FH (60°-80°)	6790.2	13.9			G3/7500
FVH (80°-90°)	82.8	0.2			G1/100
BL (0°-30°)	2996.3	6.1	B4/5000		
BM (30°-60°)	14578.8	29.8	B5		
BH (60°-80°)	6790.2	13.9	B5		G3/7500
BVH (80°-90°)	82.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5909.9	5909.9	5909.9	5909.9	5909.9	5909.9	5909.9	5909.9	5909.9	5909.9	5909.9
2.5°	5933.2	5946.2	5935.8	5933.2	5930.6	5930.6	5930.6	5933.2	5943.6	5951.3	5946.2
5°	6008.3	6018.7	6013.5	6010.9	6008.3	6010.9	6005.7	6003.1	6010.9	6010.9	6008.3
7.5°	6101.5	6114.5	6109.3	6114.5	6117.1	6119.7	6106.7	6096.4	6093.8	6101.5	6096.4
10°	6228.4	6238.8	6241.4	6244.0	6249.2	6246.6	6231.0	6212.9	6210.3	6207.7	6205.1
12.5°	6370.9	6378.7	6381.2	6391.6	6399.4	6402.0	6383.8	6368.3	6342.4	6347.6	6337.2
15°	6531.5	6547.0	6544.4	6559.9	6580.7	6585.8	6567.7	6541.8	6518.5	6505.6	6497.8
17.5°	6728.3	6738.6	6733.5	6749.0	6774.9	6787.8	6772.3	6738.6	6715.3	6686.8	6671.3
20°	6961.4	6979.5	6984.7	6984.7	7008.0	7020.9	6997.6	6987.3	6951.0	6930.3	6917.3
22.5°	7225.5	7233.3	7248.8	7264.4	7287.7	7282.5	7274.7	7259.2	7225.5	7207.4	7186.7
25°	7523.3	7531.1	7570.0	7603.6	7611.4	7606.2	7595.9	7588.1	7557.0	7515.6	7500.0
27.5°	7870.4	7885.9	7937.7	7968.8	7968.8	7971.4	7950.7	7976.6	7909.2	7860.0	7854.8
30°	8305.5	8315.8	8359.8	8390.9	8375.4	8362.4	8357.3	8383.2	8310.6	8222.6	8201.9
32.5°	8735.4	8771.6	8810.5	8877.8	8823.4	8800.1	8794.9	8813.1	8730.2	8631.8	8603.3
35°	9196.3	9222.2	9294.8	9351.7	9302.5	9248.1	9271.5	9328.4	9230.0	9097.9	9092.8
37.5°	9706.5	9729.8	9823.1	9882.6	9846.4	9753.2	9792.0	9859.3	9760.9	9597.8	9564.1
40°	10237.4	10286.7	10403.2	10465.3	10405.8	10281.5	10354.0	10426.5	10338.4	10149.4	10074.3
42.5°	10833.1	10910.8	11079.1	11110.2	10996.3	10827.9	10954.8	11071.4	11009.2	10791.7	10763.2
45°	11529.8	11576.4	11783.6	11850.9	11692.9	11483.1	11641.1	11853.5	11806.9	11555.6	11501.3
47.5°	12309.3	12353.3	12568.3	12669.3	12469.8	12187.6	12472.4	12749.5	12721.1	12451.7	12425.8
50°	13231.2	13241.6	13539.4	13653.4	13454.0	13210.5	13464.3	13808.8	13694.8	13350.4	13345.2
52.5°	14241.3	14254.2	14629.7	14849.9	14738.5	14464.0	14764.4	14974.2	14684.1	14233.5	14199.8
55°	15116.6	15181.4	15694.1	16279.4	16432.2	16232.8	16323.5	16225.0	15510.3	14878.4	14779.9
57.5°	15474.0	15600.9	16380.4	17473.3	18467.8	18763.0	18063.8	17126.3	15839.2	14945.7	14849.9
60°	14601.2	14738.5	15947.9	18022.4	20560.4	21842.3	19876.6	17279.1	15090.7	13834.7	13684.5
62.5°	11692.9	11731.8	13510.9	16730.1	21780.1	25100.3	20640.6	15976.4	12912.7	11206.0	11146.5
64°	8414.2	8813.1	10698.4	14668.6	21246.6	26340.8	20200.4	14150.6	10488.7	8761.3	8481.6
65°	6293.2	6402.0	8624.0	12526.8	20306.6	26247.5	19345.7	12405.1	8686.2	6705.0	6394.2
67.5°	2377.4	2390.4	3182.9	6244.0	14456.2	22583.0	14764.4	6749.0	3659.4	2646.8	2550.9
70°	986.7	1004.8	1168.0	2100.3	6212.9	14500.2	7119.3	2434.4	1338.9	1085.1	1069.6
72.5°	722.6	732.9	782.1	932.3	1911.3	5953.9	2341.2	1033.3	784.7	701.8	694.1
75°	567.2	572.3	608.6	686.3	890.9	1649.7	973.8	709.6	598.2	538.7	533.5
77.5°	432.5	445.4	471.3	523.1	598.2	782.1	644.9	530.9	461.0	411.8	404.0
80°	297.8	313.4	362.6	383.3	401.4	507.6	440.3	401.4	360.0	300.4	282.3
82.5°	183.9	194.2	243.4	261.6	253.8	284.9	282.3	287.5	256.4	186.5	173.5
85°	95.8	101.0	132.1	137.3	126.9	116.5	145.0	168.3	158.0	106.2	103.6
87.5°	20.7	23.3	28.5	25.9	28.5	28.5	36.3	54.4	57.0	36.3	33.7
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)