

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: P458228

Luminaire Tested: **GALN-SA9C-827-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458228
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
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-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48340 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

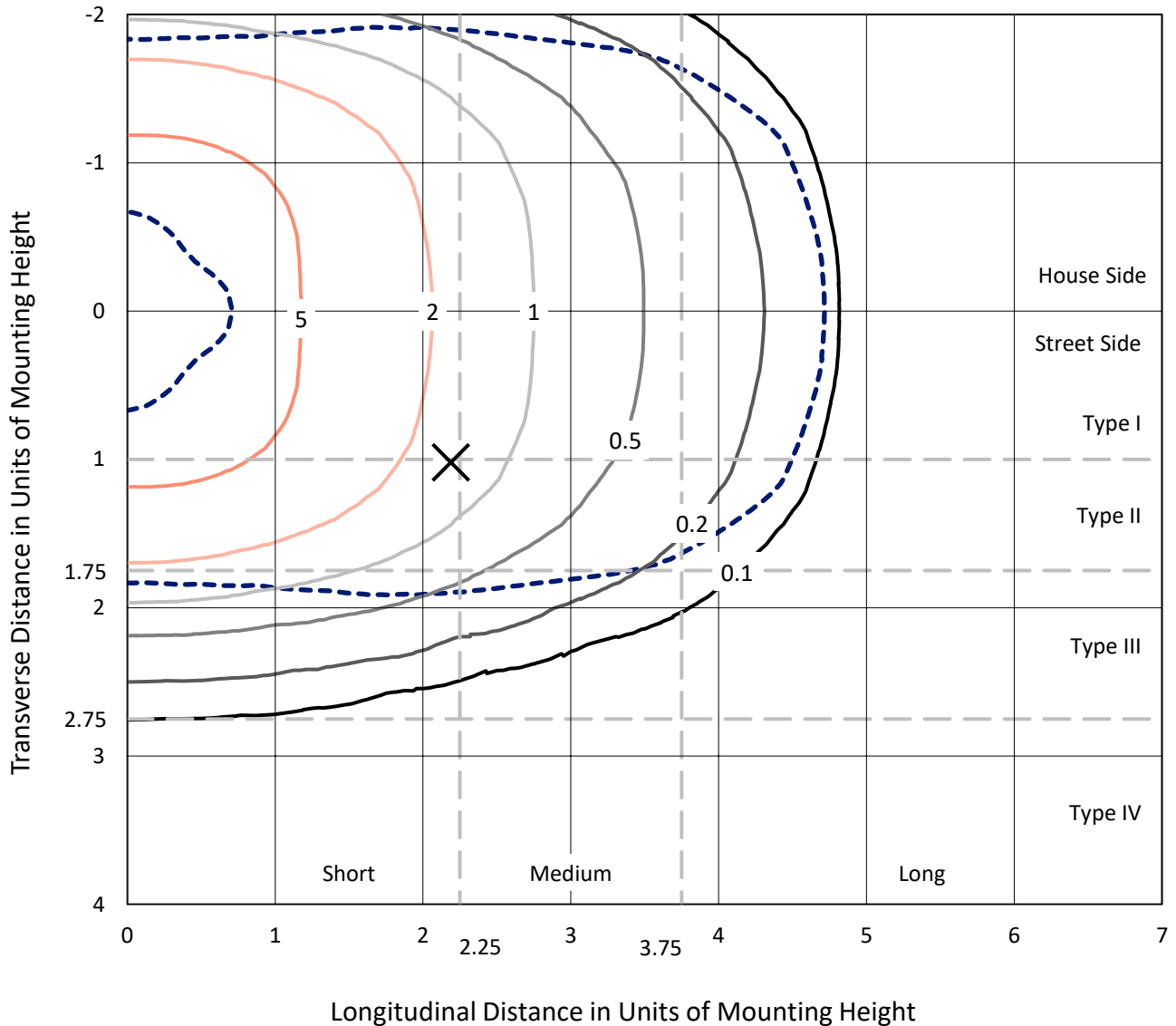
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

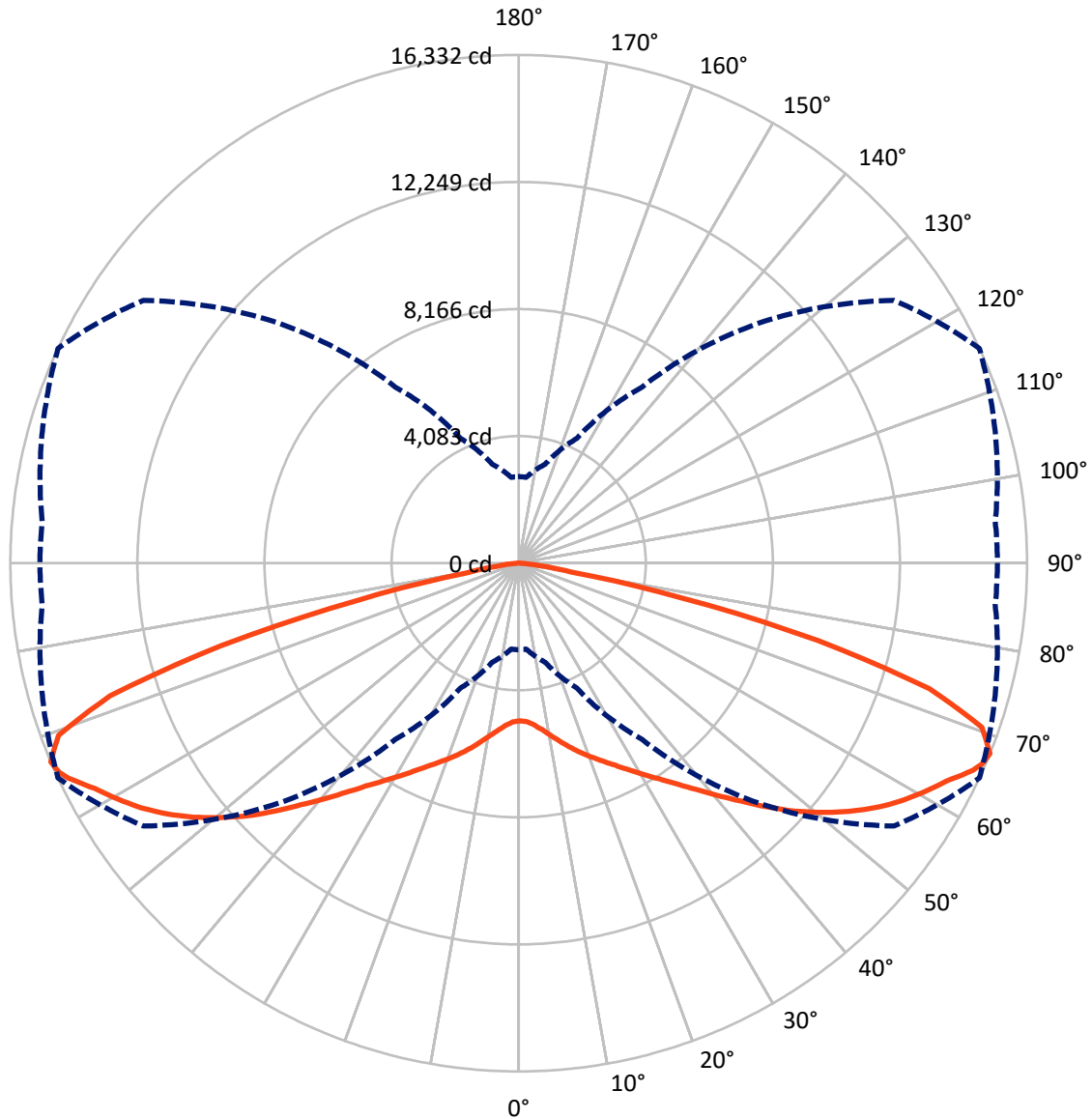
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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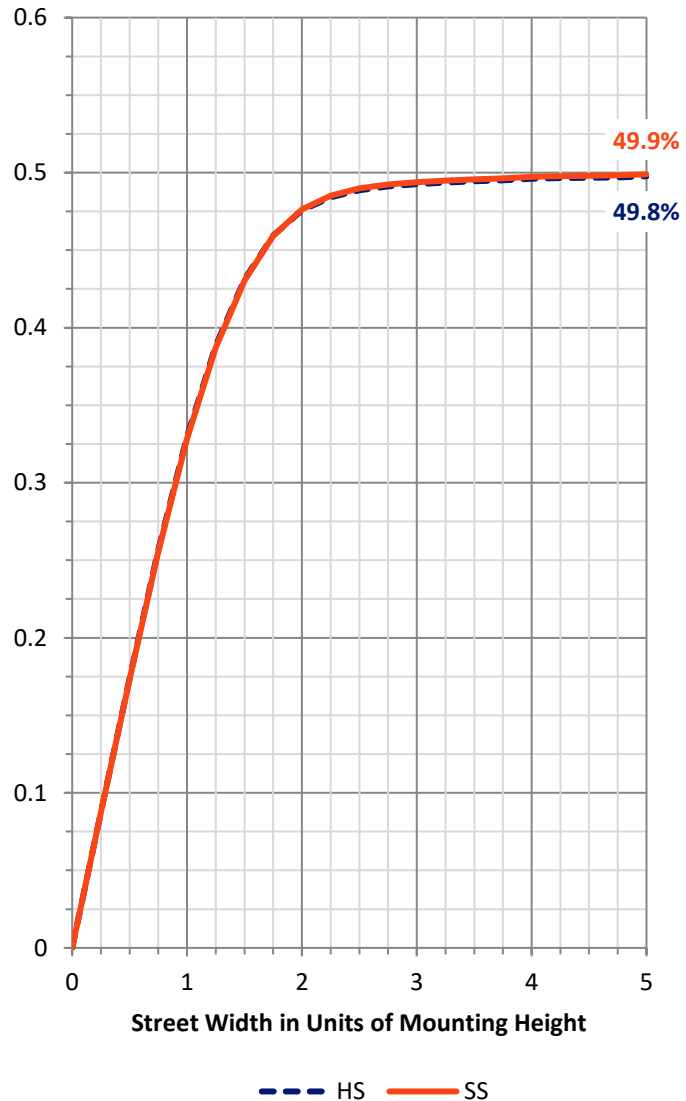
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24170.0	0.0	24170.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24170.0	0.0	24170.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	48340.0	0.0	48340.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.4	1.0
10°-20°	1671.3	3.5
20°-30°	3269.3	6.8
30°-40°	5560.6	11.5
40°-50°	8800.7	18.2
50°-60°	11669.6	24.1
60°-70°	11008.0	22.8
70°-80°	5441.8	11.3
80°-90°	419.4	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°	48340.0	100.0
0°-180°	48340.0	100.0



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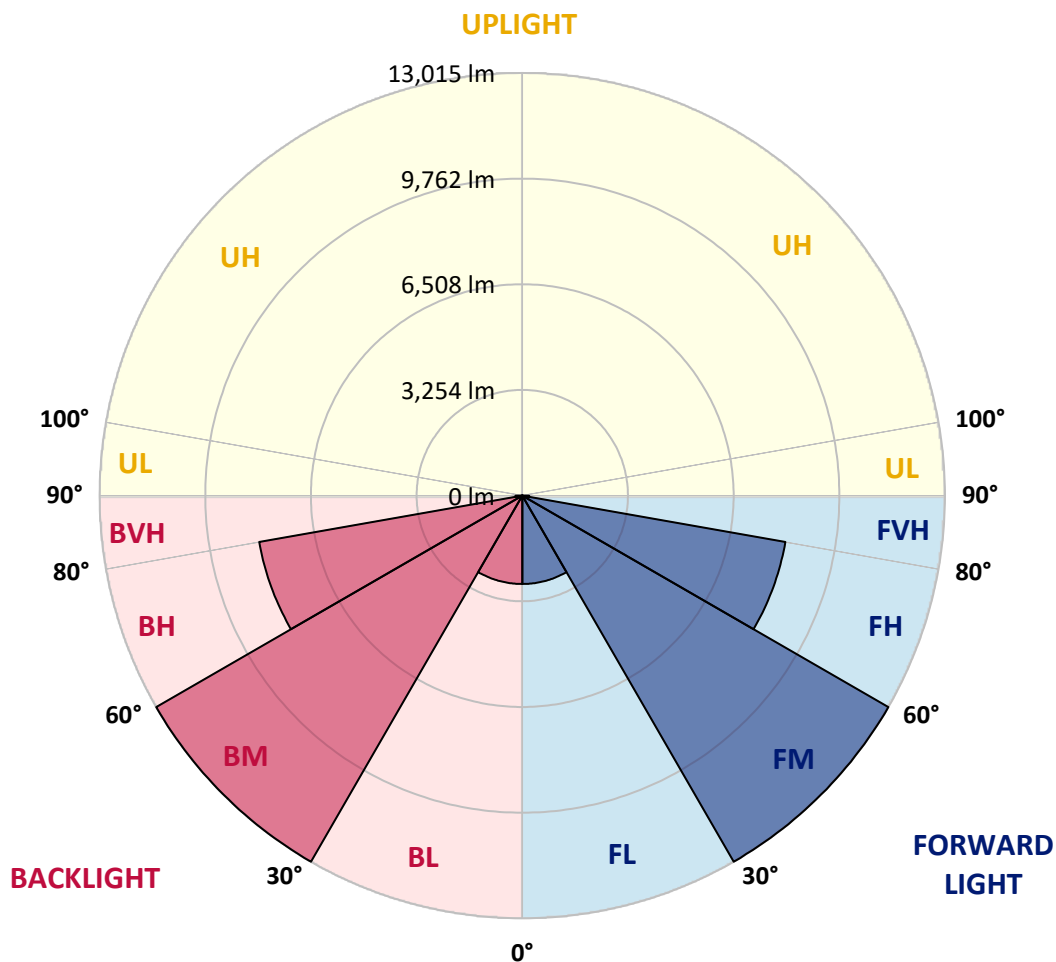
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2720.0	5.6			
FM	(30°-60°)	13015.4	26.9			
FH	(60°-80°)	8224.9	17.0			G4/12000
FVH	(80°-90°)	209.7	0.4			G2/225
BL	(0°-30°)	2720.0	5.6	B4/5000		
BM	(30°-60°)	13015.4	26.9	B5		
BH	(60°-80°)	8224.9	17.0	B5		G5
BVH	(80°-90°)	209.7	0.4			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5063.2	5063.2	5063.2	5063.2	5063.2	5063.2	5063.2	5063.2	5063.2	5063.2	5063.2
2.5°	5037.3	5042.5	5047.6	5055.4	5065.8	5081.3	5091.7	5099.4	5120.2	5122.8	5120.2
5°	5019.2	5024.3	5037.3	5060.6	5094.3	5140.9	5177.1	5221.2	5254.8	5278.1	5273.0
7.5°	5016.6	5026.9	5047.6	5096.9	5161.6	5241.9	5324.8	5399.9	5464.6	5516.4	5508.6
10°	5058.0	5071.0	5104.6	5177.1	5278.1	5394.7	5511.2	5622.6	5715.8	5783.2	5806.5
12.5°	5127.9	5138.3	5200.5	5309.2	5454.3	5599.3	5731.4	5868.6	5998.1	6112.1	6112.1
15°	5249.7	5267.8	5345.5	5503.5	5682.2	5850.5	5985.2	6130.2	6270.1	6399.6	6438.4
17.5°	5418.0	5443.9	5560.4	5762.5	5990.4	6145.8	6272.7	6391.8	6513.5	6637.8	6656.0
20°	5648.5	5674.4	5829.8	6073.2	6342.6	6529.1	6614.5	6643.0	6702.6	6821.7	6837.2
22.5°	5961.9	5987.8	6161.3	6435.8	6736.2	6938.3	6974.5	6907.2	6891.6	6984.9	6995.2
25°	6316.7	6340.0	6539.4	6834.7	7145.4	7365.6	7355.2	7189.5	7096.2	7153.2	7168.7
27.5°	6715.5	6749.2	6951.2	7256.8	7593.5	7787.7	7756.6	7515.8	7316.4	7306.0	7311.2
30°	7225.7	7262.0	7453.6	7746.3	8077.8	8256.5	8191.7	7868.0	7559.8	7456.2	7456.2
32.5°	7764.4	7855.1	8049.3	8354.9	8613.9	8743.4	8645.0	8256.5	7847.3	7702.3	7694.5
35°	8466.3	8515.5	8707.1	9005.0	9199.2	9300.2	9111.1	8694.2	8222.8	8051.9	8028.6
37.5°	9152.6	9194.0	9416.8	9701.6	9937.3	9932.1	9675.7	9214.7	8689.0	8497.4	8481.8
40°	9854.4	9898.5	10152.3	10413.9	10649.5	10628.8	10318.0	9802.6	9243.2	9028.3	9069.7
42.5°	10463.1	10512.3	10799.7	11172.7	11385.1	11379.9	11019.9	10439.8	9857.0	9665.4	9701.6
45°	11017.3	11061.3	11395.4	11822.7	12133.5	12172.4	11778.7	11164.9	10566.7	10320.6	10331.0
47.5°	11408.4	11491.2	11840.9	12330.4	12752.5	12889.8	12503.9	11903.0	11214.1	10957.7	10973.3
50°	11706.2	11758.0	12138.7	12695.5	13229.0	13513.9	13203.1	12586.8	11861.6	11589.7	11625.9
52.5°	11742.5	11804.6	12219.0	12861.3	13545.0	13977.5	13824.7	13254.9	12522.0	12242.3	12320.0
55°	11447.2	11483.5	11978.1	12757.7	13669.3	14322.0	14360.8	13876.5	13151.3	12939.0	12990.8
57.5°	10605.5	10698.7	11325.5	12273.4	13498.4	14505.8	14762.2	14441.1	13788.4	13578.7	13661.5
60°	9225.1	9318.3	9947.7	11149.4	12853.5	14420.4	15093.7	14940.9	14366.0	14197.6	14241.7
62.5°	7228.3	7220.5	8000.1	9473.7	11571.5	14000.8	15339.8	15422.7	14935.8	14723.4	14790.7
65°	4685.1	4708.4	5462.0	7049.6	9636.9	12933.8	15394.2	16036.5	15495.2	15174.0	15223.2
66°	3768.3	3838.2	4477.9	5941.2	8650.2	12234.5	15231.0	16217.7	15666.1	15277.6	15300.9
67.5°	2781.5	2768.6	3294.3	4423.5	6907.2	10905.9	14720.8	16331.7	15860.3	15370.9	15381.2
70°	1587.6	1585.0	1771.5	2429.3	4060.9	7679.0	12408.0	15785.2	16254.0	15707.5	15679.1
72.5°	1160.3	1152.5	1178.4	1341.6	1981.2	3877.0	8559.5	13796.2	16052.0	15653.2	15572.9
75°	973.8	968.6	963.4	984.1	1111.1	1755.9	4542.6	9924.4	13928.3	14692.3	14609.4
77.5°	795.1	795.1	797.7	792.5	797.7	924.6	1882.8	5319.6	8481.8	9468.6	9699.0
80°	621.6	619.0	663.0	644.9	603.4	593.1	833.9	1711.9	2815.2	2799.6	2310.2
82.5°	458.4	427.3	505.0	492.1	445.5	378.1	486.9	730.3	940.1	611.2	453.2
85°	290.1	287.5	357.4	326.3	271.9	178.7	233.1	313.4	388.5	235.7	191.7
87.5°	51.8	49.2	114.0	82.9	82.9	51.8	64.7	85.5	126.9	88.1	64.7
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)