

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: P453588

Luminaire Tested: **GALN-SA4C-827-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453588
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-SA4C-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 21094 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

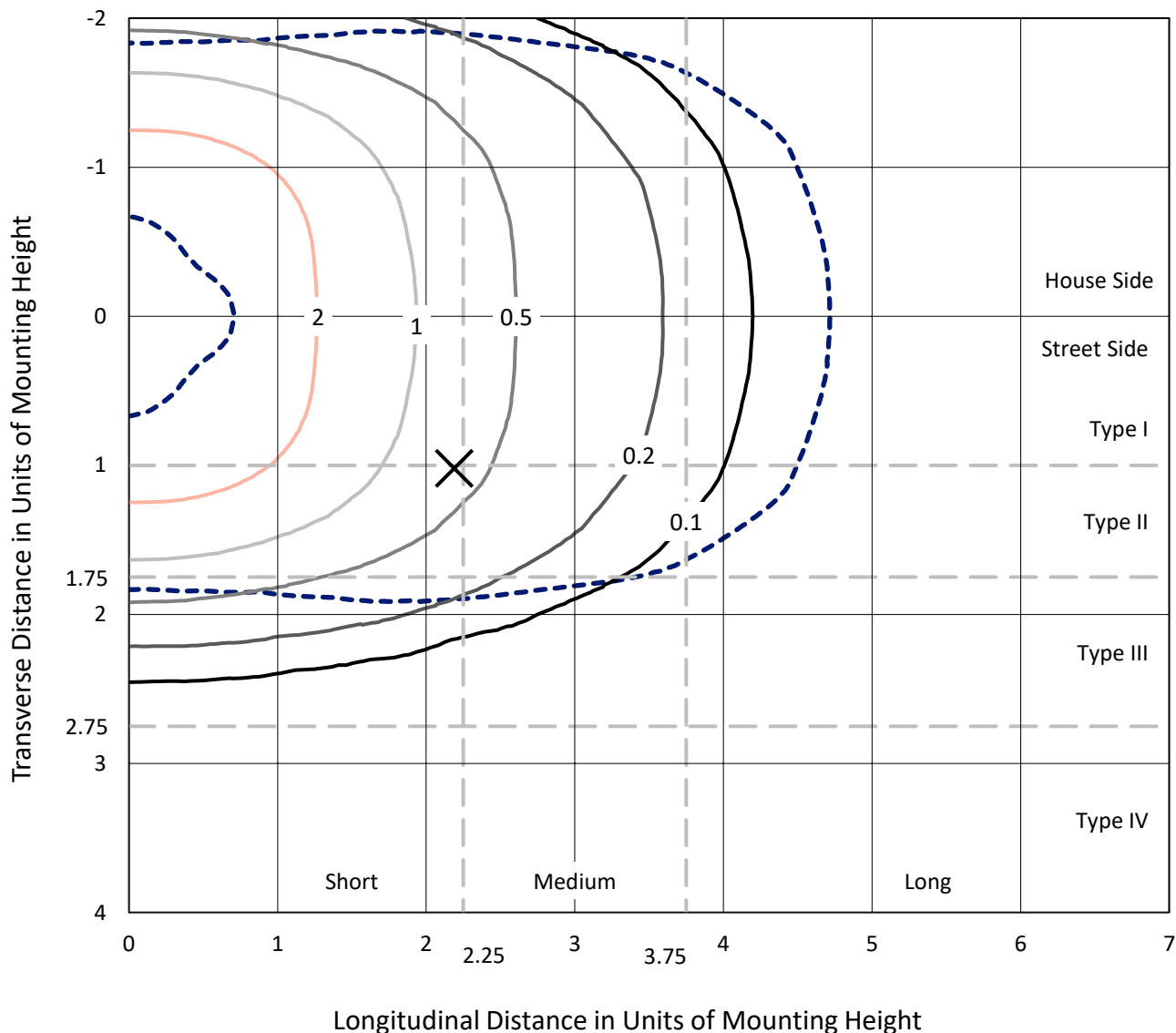
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

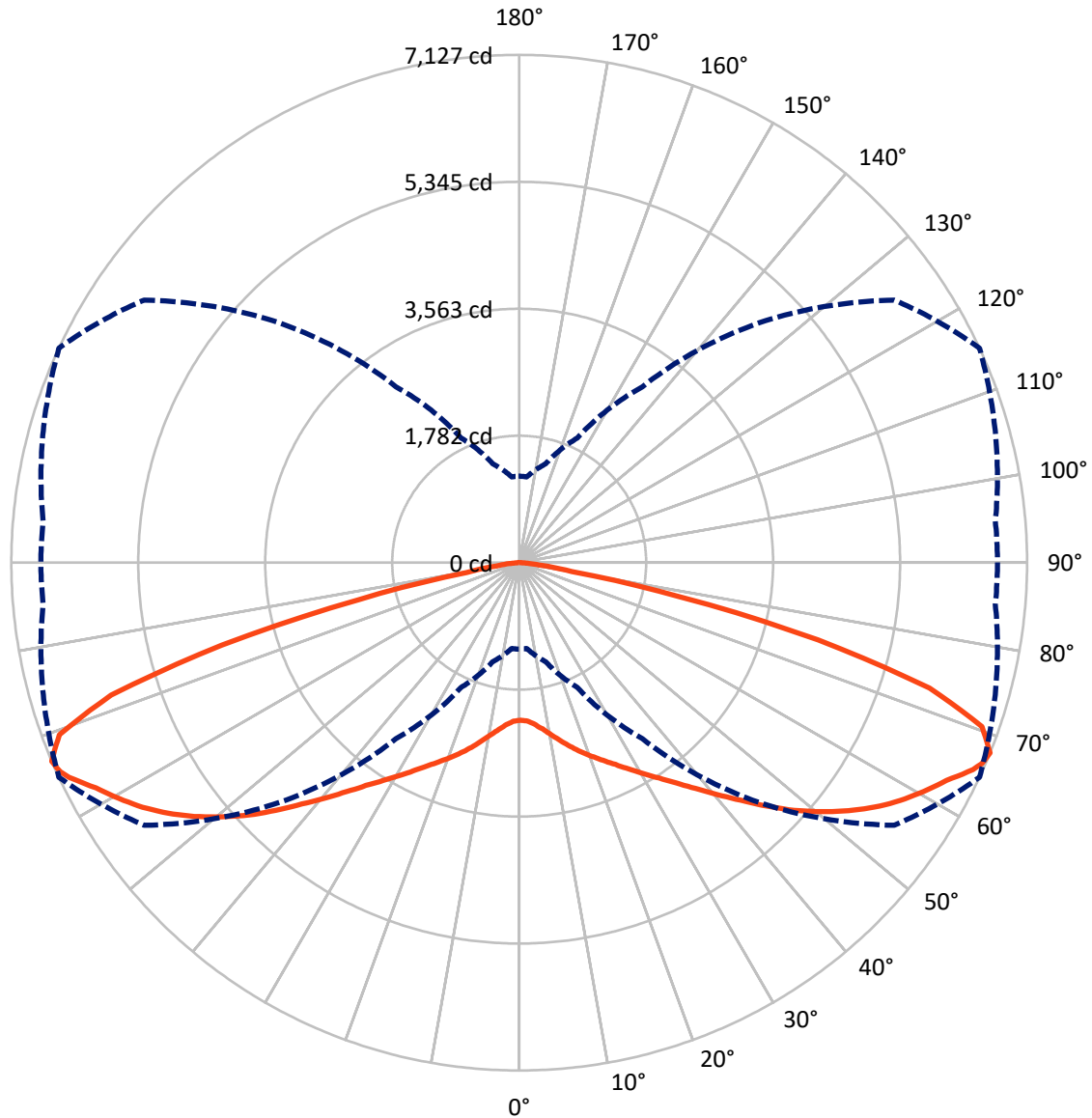
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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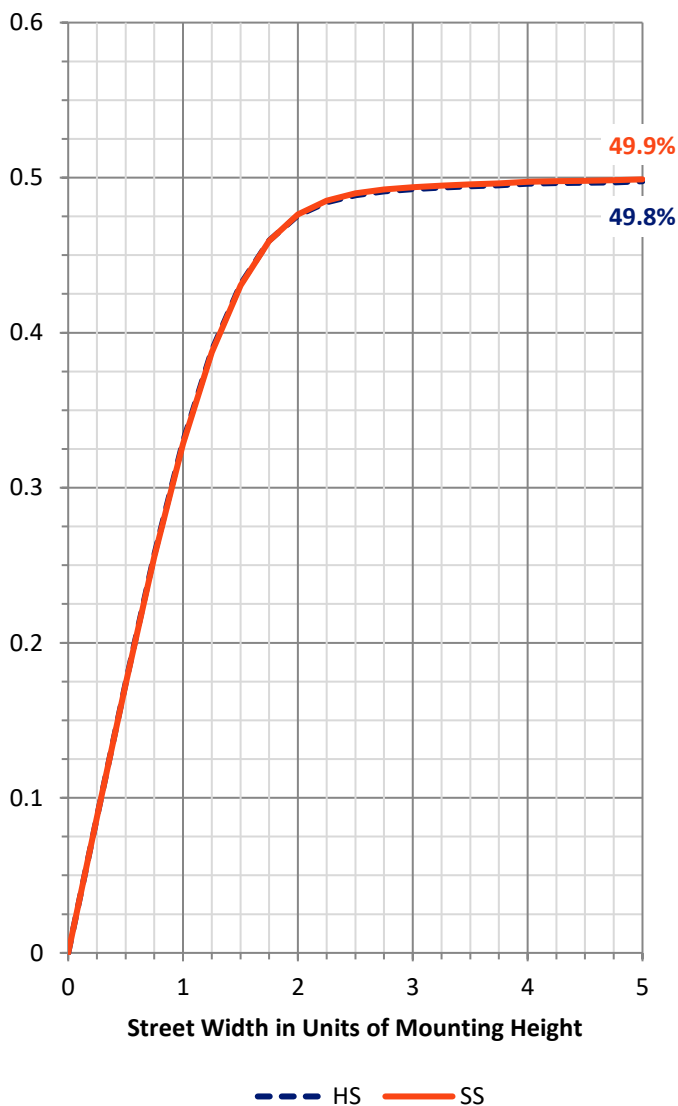
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10547.0	0.0	10547.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10547.0	0.0	10547.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21094.0	0.0	21094.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.9	1.0
10°-20°	729.3	3.5
20°-30°	1426.6	6.8
30°-40°	2426.5	11.5
40°-50°	3840.3	18.2
50°-60°	5092.2	24.1
60°-70°	4803.5	22.8
70°-80°	2374.6	11.3
80°-90°	183.0	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°	21094.0	100.0
0°-180°	21094.0	100.0

Coefficient of Utilization



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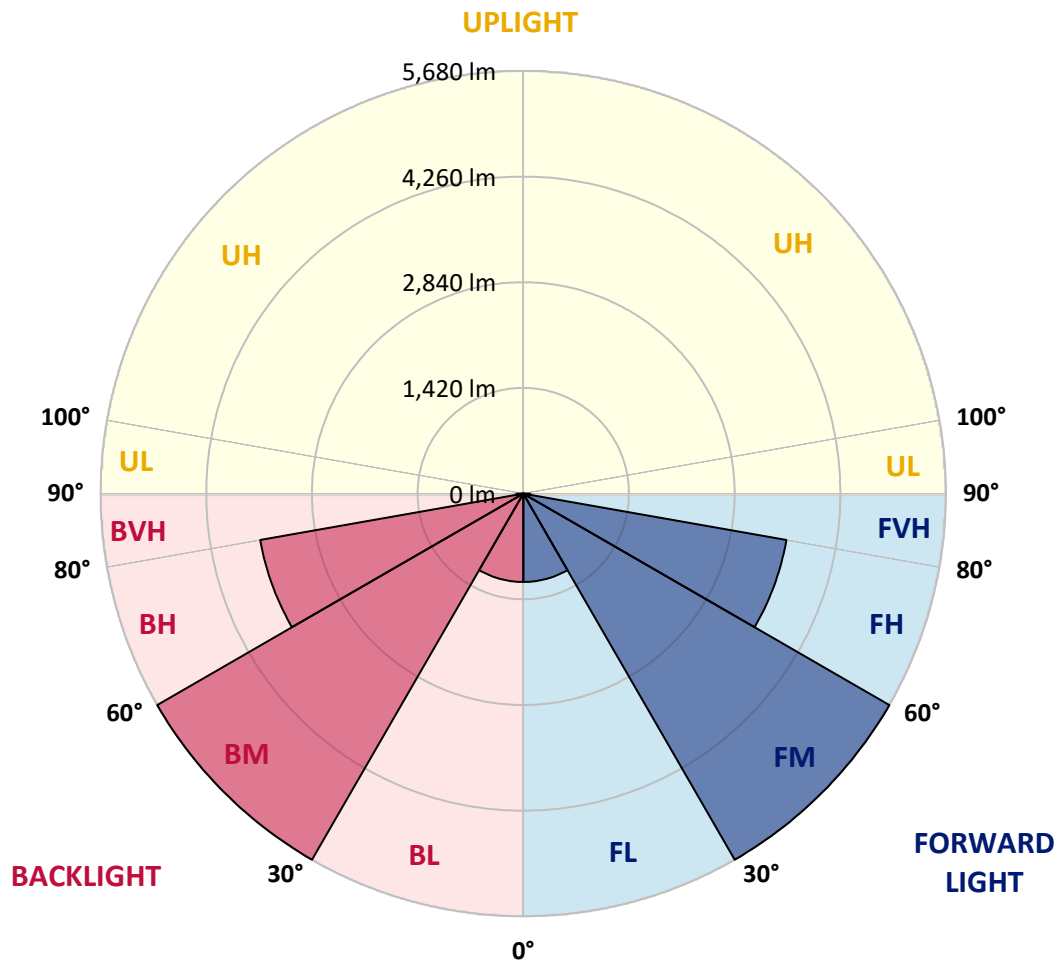
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1186.9	5.6			
FM	(30°-60°)	5679.5	26.9			
FH	(60°-80°)	3589.1	17.0			G2/5000
FVH	(80°-90°)	91.5	0.4			G1/100
BL	(0°-30°)	1186.9	5.6	B3/2500		
BM	(30°-60°)	5679.5	26.9	B4/8500		
BH	(60°-80°)	3589.1	17.0	B4/5000		G4/5000
BVH	(80°-90°)	91.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2209.4	2209.4	2209.4	2209.4	2209.4	2209.4	2209.4	2209.4	2209.4	2209.4	2209.4
2.5°	2198.1	2200.4	2202.6	2206.0	2210.5	2217.3	2221.8	2225.2	2234.3	2235.4	2234.3
5°	2190.2	2192.5	2198.1	2208.3	2223.0	2243.3	2259.1	2278.3	2293.0	2303.2	2301.0
7.5°	2189.1	2193.6	2202.6	2224.1	2252.4	2287.4	2323.6	2356.3	2384.6	2407.2	2403.8
10°	2207.2	2212.8	2227.5	2259.1	2303.2	2354.1	2404.9	2453.5	2494.2	2523.6	2533.8
12.5°	2237.7	2242.2	2269.3	2316.8	2380.1	2443.3	2501.0	2560.9	2617.4	2667.1	2667.1
15°	2290.8	2298.7	2332.6	2401.5	2479.5	2553.0	2611.7	2675.0	2736.1	2792.6	2809.5
17.5°	2364.2	2375.5	2426.4	2514.5	2614.0	2681.8	2737.2	2789.2	2842.3	2896.5	2904.4
20°	2464.8	2476.1	2543.9	2650.2	2767.7	2849.1	2886.4	2898.8	2924.8	2976.8	2983.6
22.5°	2601.6	2612.9	2688.6	2808.4	2939.5	3027.6	3043.4	3014.1	3007.3	3048.0	3052.5
25°	2756.4	2766.6	2853.6	2982.4	3118.0	3214.1	3209.6	3137.2	3096.6	3121.4	3128.2
27.5°	2930.4	2945.1	3033.3	3166.6	3313.6	3398.3	3384.7	3279.6	3192.6	3188.1	3190.4
30°	3153.1	3168.9	3252.5	3380.2	3524.9	3602.9	3574.6	3433.3	3298.9	3253.7	3253.7
32.5°	3388.1	3427.7	3512.5	3645.8	3758.8	3815.3	3772.4	3602.9	3424.3	3361.0	3357.6
35°	3694.4	3715.9	3799.5	3929.5	4014.2	4058.3	3975.8	3793.9	3588.2	3513.6	3503.4
37.5°	3993.9	4012.0	4109.2	4233.5	4336.3	4334.1	4222.2	4021.0	3791.6	3708.0	3701.2
40°	4300.2	4319.4	4430.1	4544.3	4647.1	4638.1	4502.5	4277.6	4033.4	3939.6	3957.7
42.5°	4565.7	4587.2	4712.7	4875.4	4968.1	4965.8	4808.7	4555.6	4301.3	4217.7	4233.5
45°	4807.6	4826.8	4972.6	5159.1	5294.7	5311.6	5139.8	4872.0	4610.9	4503.6	4508.1
47.5°	4978.2	5014.4	5167.0	5380.6	5564.8	5624.7	5456.3	5194.1	4893.5	4781.6	4788.4
50°	5108.2	5130.8	5296.9	5539.9	5772.7	5897.0	5761.4	5492.4	5176.0	5057.3	5073.2
52.5°	5124.0	5151.1	5332.0	5612.2	5910.6	6099.3	6032.7	5784.0	5464.2	5342.1	5376.0
55°	4995.2	5011.0	5226.9	5567.0	5964.8	6249.6	6266.6	6055.3	5738.8	5646.1	5668.7
57.5°	4627.9	4668.6	4942.1	5355.7	5890.3	6329.9	6441.8	6301.6	6016.8	5925.3	5961.5
60°	4025.5	4066.2	4340.8	4865.2	5608.9	6292.6	6586.4	6519.7	6268.8	6195.4	6214.6
62.5°	3154.2	3150.8	3491.0	4134.0	5049.4	6109.5	6693.8	6729.9	6517.5	6424.8	6454.2
65°	2044.4	2054.6	2383.5	3076.2	4205.2	5643.9	6717.5	6997.8	6761.6	6621.5	6642.9
66°	1644.3	1674.9	1954.0	2592.5	3774.6	5338.7	6646.3	7076.9	6836.2	6666.7	6676.8
67.5°	1213.8	1208.1	1437.5	1930.3	3014.1	4759.0	6423.7	7126.6	6920.9	6707.3	6711.9
70°	692.8	691.6	773.0	1060.1	1772.0	3350.8	5414.5	6888.2	7092.7	6854.3	6841.8
72.5°	506.3	502.9	514.2	585.4	864.6	1691.8	3735.1	6020.2	7004.6	6830.5	6795.5
75°	424.9	422.7	420.4	429.5	484.8	766.2	1982.3	4330.7	6077.9	6411.2	6375.1
77.5°	347.0	347.0	348.1	345.8	348.1	403.5	821.6	2321.3	3701.2	4131.8	4232.3
80°	271.2	270.1	289.3	281.4	263.3	258.8	363.9	747.0	1228.5	1221.7	1008.1
82.5°	200.0	186.5	220.4	214.7	194.4	165.0	212.5	318.7	410.2	266.7	197.8
85°	126.6	125.4	156.0	142.4	118.7	78.0	101.7	136.7	169.5	102.8	83.6
87.5°	22.6	21.5	49.7	36.2	36.2	22.6	28.3	37.3	55.4	38.4	28.3
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)