

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: P531817

Luminaire Tested: **GALN-SA7A-827-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-827-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15132 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

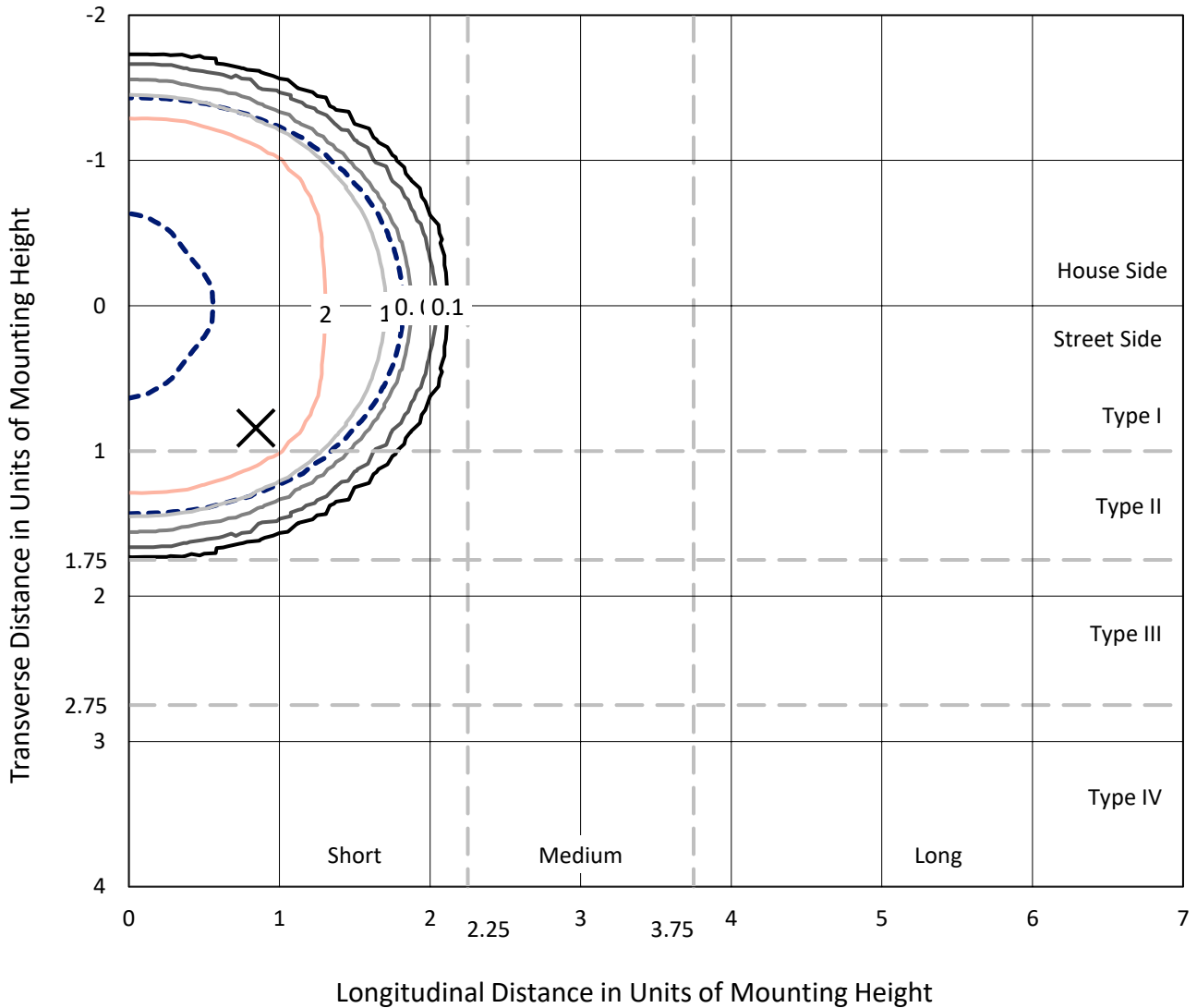
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

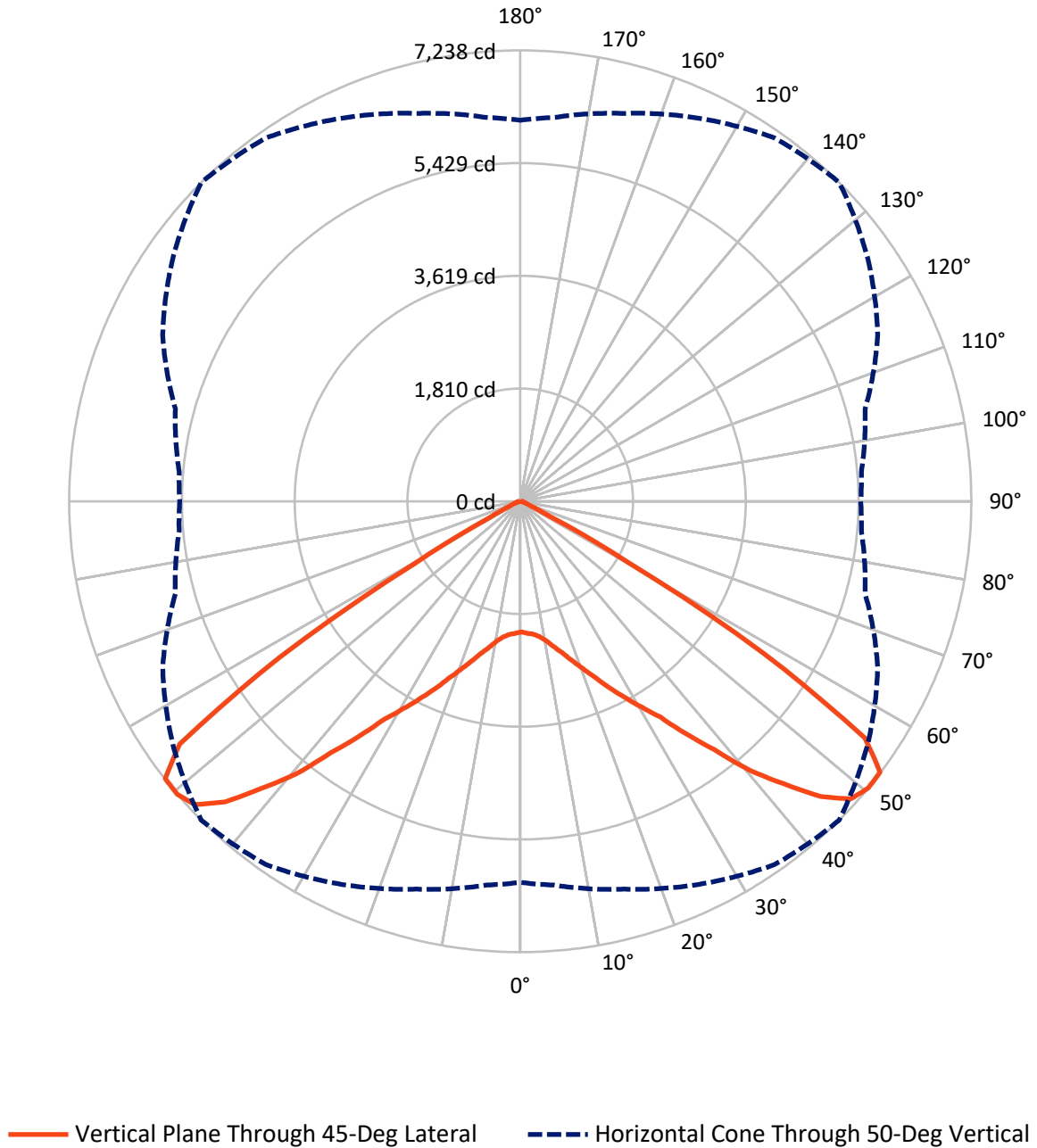
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7566.0	0.0	7566.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7566.0	0.0	7566.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15132.0	0.0	15132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.7	1.4
10°-20°	719.3	4.8
20°-30°	1469.2	9.7
30°-40°	2801.7	18.5
40°-50°	4721.2	31.2
50°-60°	4502.5	29.8
60°-70°	628.5	4.2
70°-80°	60.1	0.4
80°-90°	20.8	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°	15132.0	100.0
0°-180°	15132.0	100.0

Coefficient of Utilization



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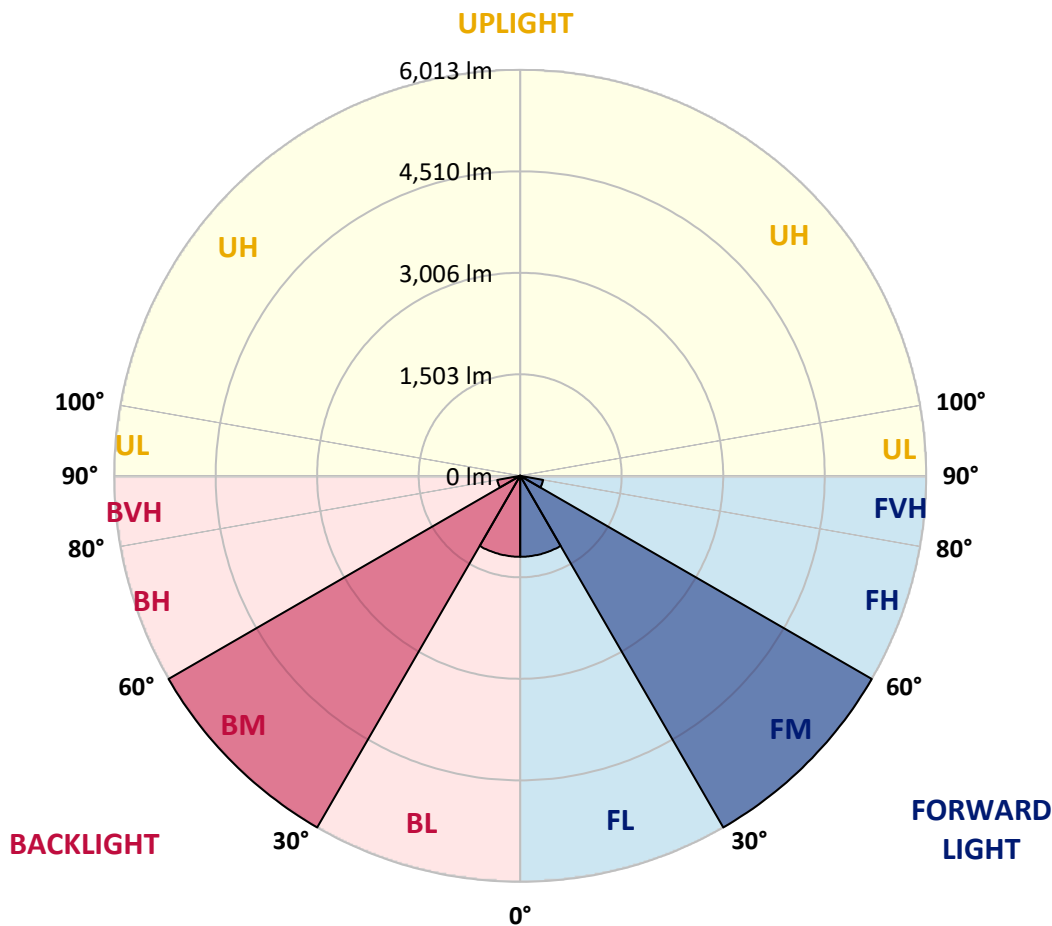
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1198.6	7.9			
FM (30°-60°)	6012.7	39.7			
FH (60°-80°)	344.3	2.3			G0/660
FVH (80°-90°)	10.4	0.1			G1/100
BL (0°-30°)	1198.6	7.9	B3/2500		
BM (30°-60°)	6012.7	39.7	B4/8500		
BH (60°-80°)	344.3	2.3	B1/500		G0/660
BVH (80°-90°)	10.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2097.9	2097.9	2097.9	2097.9	2097.9	2097.9	2097.9	2097.9	2097.9	2097.9	2097.9
2.5°	2090.2	2090.2	2087.7	2108.1	2097.9	2120.8	2118.3	2125.9	2133.5	2131.0	2151.4
5°	2072.4	2069.9	2069.9	2092.8	2115.7	2141.2	2164.1	2179.4	2204.8	2204.8	2230.3
7.5°	2090.2	2077.5	2095.3	2105.5	2148.8	2192.1	2230.3	2260.8	2319.4	2339.8	2332.1
10°	2095.3	2110.6	2123.3	2153.9	2207.4	2273.6	2306.7	2383.0	2449.2	2495.1	2505.2
12.5°	2128.4	2151.4	2187.0	2260.8	2309.2	2395.8	2441.6	2515.4	2607.1	2658.0	2693.6
15°	2192.1	2199.7	2245.6	2339.8	2444.1	2523.1	2594.4	2647.8	2736.9	2795.5	2798.0
17.5°	2273.6	2306.7	2370.3	2459.4	2568.9	2686.0	2742.0	2800.6	2833.7	2912.6	2930.4
20°	2436.5	2441.6	2502.7	2619.8	2757.3	2864.2	2905.0	2935.5	2922.8	3004.3	3019.5
22.5°	2589.3	2594.4	2670.7	2828.6	2976.2	3067.9	3085.7	3067.9	3029.7	3088.3	3093.4
25°	2744.6	2790.4	2846.4	3004.3	3187.6	3309.8	3312.3	3263.9	3185.0	3195.2	3220.7
27.5°	2986.4	3019.5	3078.1	3223.2	3424.3	3561.8	3538.9	3480.4	3378.5	3386.1	3378.5
30°	3269.0	3299.6	3348.0	3533.8	3681.5	3831.7	3864.8	3808.8	3656.0	3622.9	3661.1
32.5°	3610.2	3653.5	3742.6	3913.2	4037.9	4129.6	4152.5	4132.1	3989.5	3976.8	4002.3
35°	4025.2	4083.7	4165.2	4315.4	4417.3	4582.8	4582.8	4514.0	4384.2	4399.4	4396.9
37.5°	4463.1	4549.7	4677.0	4829.7	4967.2	5056.3	5028.3	4969.7	4839.9	4806.8	4839.9
40°	5013.0	5056.3	5216.7	5415.3	5583.3	5685.2	5565.5	5438.2	5127.6	5176.0	5265.1
42.5°	5514.6	5583.3	5705.5	5924.5	6115.4	6199.5	6056.9	5804.8	5430.6	5392.4	5458.6
45°	5942.3	6016.1	6176.5	6489.7	6690.8	6764.7	6449.0	6041.6	5613.9	5517.1	5545.1
47.5°	6227.5	6265.7	6489.7	6787.6	6970.9	7138.9	6685.7	6204.5	5700.4	5517.1	5506.9
50°	6118.0	6184.2	6446.4	6785.0	7118.6	7238.2	6805.4	6329.3	5728.4	5494.2	5463.7
52.5°	5433.1	5547.7	5840.5	6296.2	6800.3	7228.0	6970.9	6288.6	5718.3	5517.1	5563.0
55°	3780.8	3783.3	4139.8	4811.9	5703.0	6711.2	6729.0	6334.4	5784.5	5659.7	5662.3
57.5°	1519.9	1596.3	1868.7	2543.4	3365.8	4608.2	5478.9	5876.1	5792.1	5761.5	5840.5
60°	384.4	387.0	471.0	718.0	1183.9	1975.7	2869.3	3882.6	4470.7	4671.9	4699.9
62.5°	196.0	198.6	219.0	254.6	323.3	529.6	942.0	1494.5	2125.9	2446.7	2530.7
65°	160.4	160.4	173.1	190.9	193.5	203.7	244.4	348.8	506.6	575.4	583.0
67.5°	122.2	122.2	132.4	142.6	147.7	145.1	140.0	145.1	175.7	168.0	162.9
70°	76.4	78.9	84.0	94.2	99.3	101.8	104.4	109.5	124.8	129.8	124.8
72.5°	45.8	45.8	48.4	56.0	63.6	68.7	76.4	81.5	89.1	101.8	99.3
75°	20.4	20.4	25.5	33.1	40.7	48.4	56.0	63.6	68.7	76.4	78.9
77.5°	5.1	7.6	12.7	22.9	30.6	40.7	50.9	58.6	63.6	63.6	61.1
80°	2.5	2.5	10.2	17.8	33.1	43.3	56.0	61.1	68.7	63.6	56.0
82.5°	2.5	2.5	10.2	17.8	30.6	43.3	58.6	66.2	71.3	63.6	53.5
85°	0.0	2.5	7.6	15.3	25.5	30.6	25.5	17.8	10.2	10.2	7.6
87.5°	0.0	0.0	2.5	2.5	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)