

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: P455064

Luminaire Tested: **GALN-SA6B-727-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29534 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

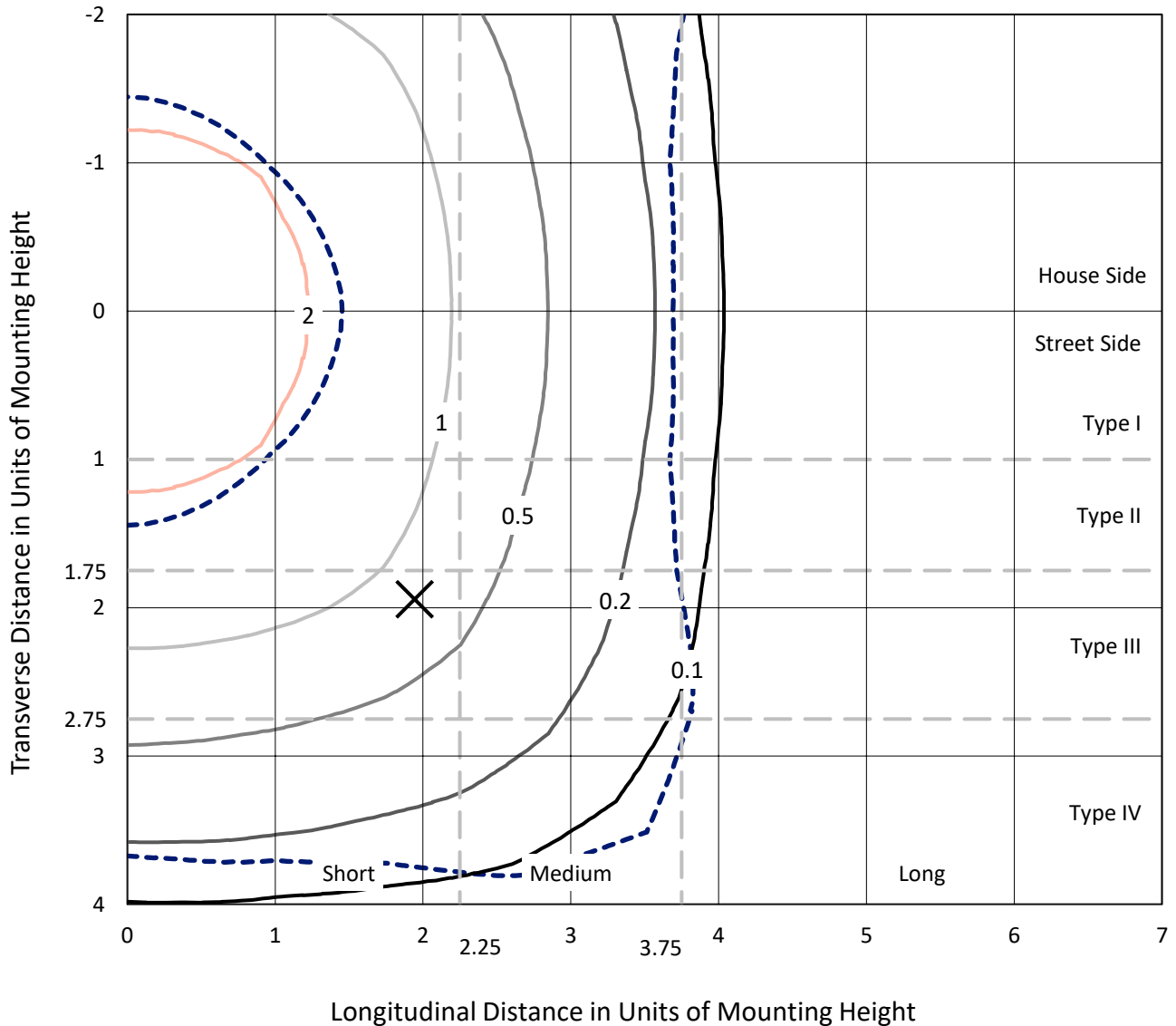
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

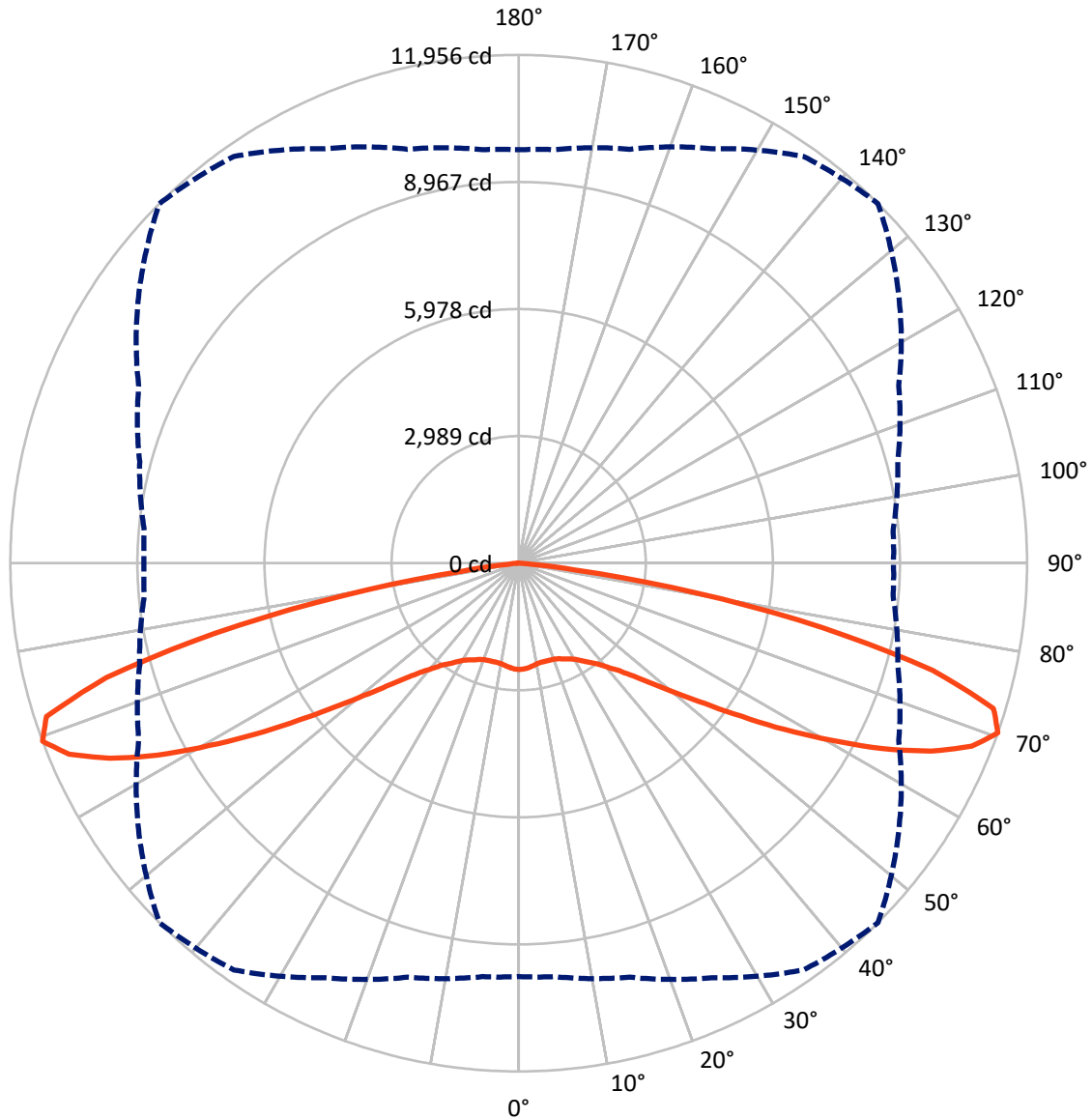
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14767.0	0.0	14767.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14767.0	0.0	14767.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29534.0	0.0	29534.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.8	0.8
10°-20°	684.6	2.3
20°-30°	1166.3	3.9
30°-40°	1807.8	6.1
40°-50°	3042.8	10.3
50°-60°	5536.3	18.7
60°-70°	9372.8	31.7
70°-80°	7254.9	24.6
80°-90°	434.7	1.5
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°	29534.0	100.0
0°-180°	29534.0	100.0



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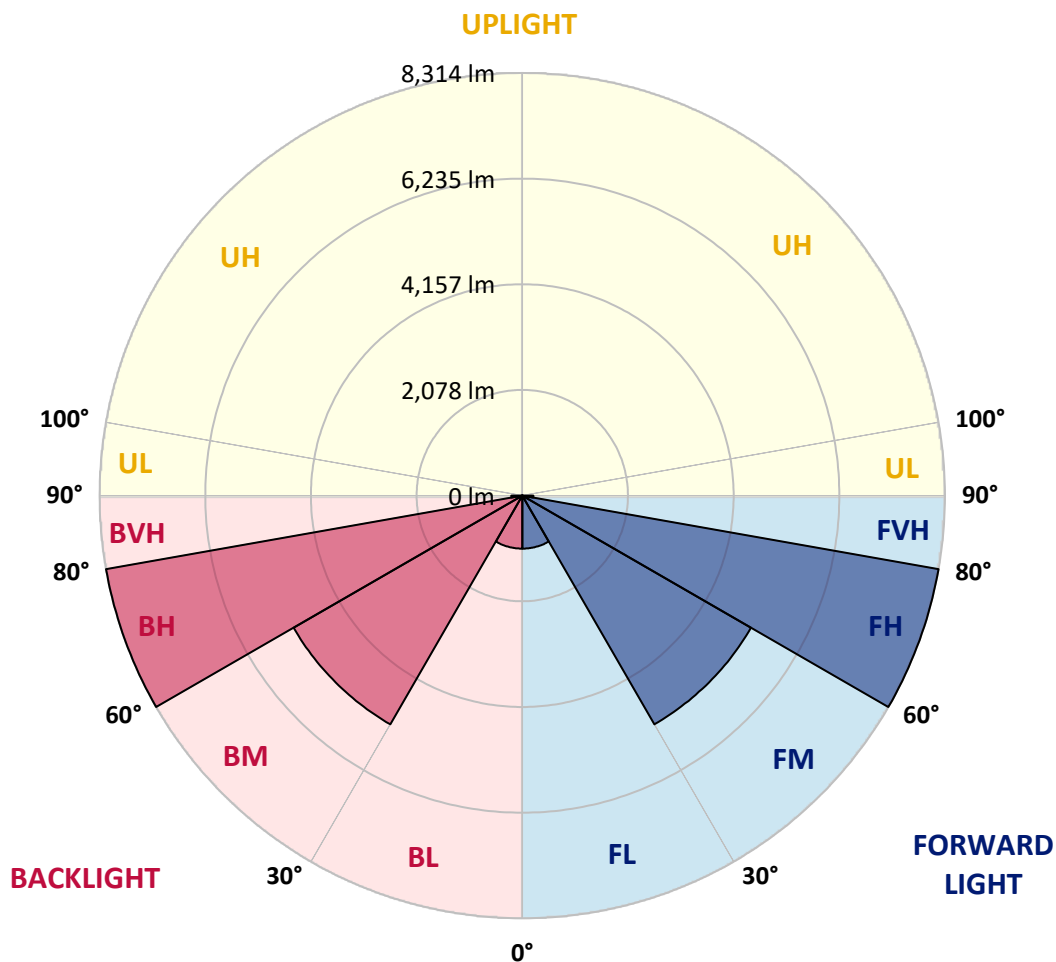
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1042.4	3.5			
FM (30°-60°)	5193.4	17.6			
FH (60°-80°)	8313.8	28.1			G4/12000
FVH (80°-90°)	217.4	0.7			G2/225
BL (0°-30°)	1042.4	3.5	B3/2500		
BM (30°-60°)	5193.4	17.6	B4/8500		
BH (60°-80°)	8313.8	28.1	B5		G4/12000
BVH (80°-90°)	217.4	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4	2500.4
2.5°	2494.2	2495.7	2495.7	2492.6	2491.1	2491.1	2489.5	2489.5	2494.2	2495.7	2497.3
5°	2472.3	2472.3	2472.3	2470.8	2467.7	2467.7	2464.5	2464.5	2466.1	2470.8	2467.7
7.5°	2442.7	2445.8	2445.8	2439.6	2434.9	2434.9	2433.3	2434.9	2436.5	2441.1	2439.6
10°	2433.3	2434.9	2427.1	2416.2	2408.4	2403.7	2405.3	2408.4	2416.2	2419.3	2420.9
12.5°	2439.6	2439.6	2425.5	2409.9	2395.9	2389.7	2388.1	2399.0	2413.1	2422.4	2425.5
15°	2447.4	2444.3	2427.1	2406.8	2392.8	2391.2	2389.7	2397.5	2417.7	2436.5	2438.0
17.5°	2452.1	2450.5	2428.7	2403.7	2395.9	2395.9	2394.3	2400.6	2422.4	2445.8	2447.4
20°	2467.7	2463.0	2438.0	2411.5	2405.3	2408.4	2403.7	2411.5	2434.9	2463.0	2469.2
22.5°	2498.9	2494.2	2469.2	2442.7	2439.6	2439.6	2438.0	2445.8	2470.8	2500.4	2505.1
25°	2536.3	2531.6	2508.2	2489.5	2492.6	2498.9	2495.7	2497.3	2517.6	2542.5	2550.3
27.5°	2586.2	2578.4	2558.1	2542.5	2551.9	2551.9	2551.9	2550.3	2562.8	2586.2	2594.0
30°	2647.0	2643.9	2622.1	2620.5	2628.3	2620.5	2620.5	2622.1	2623.6	2645.5	2653.3
32.5°	2726.6	2720.4	2709.4	2706.3	2728.2	2734.4	2712.6	2692.3	2703.2	2725.0	2729.7
35°	2857.6	2848.3	2832.7	2815.5	2832.7	2862.3	2815.5	2799.9	2828.0	2857.6	2860.7
37.5°	3035.4	3030.8	3005.8	2974.6	2973.0	3004.2	2955.9	2954.3	3007.4	3043.2	3047.9
40°	3258.5	3263.2	3232.0	3202.3	3186.7	3211.7	3174.3	3188.3	3239.8	3280.3	3277.2
42.5°	3572.0	3554.9	3506.5	3478.4	3461.3	3451.9	3442.6	3464.4	3522.1	3565.8	3600.1
45°	3938.6	3932.3	3871.5	3837.2	3799.8	3785.7	3782.6	3821.6	3891.8	3944.8	3949.5
47.5°	4353.5	4339.5	4300.5	4264.6	4250.5	4233.4	4217.8	4247.4	4317.6	4355.1	4366.0
50°	4780.9	4784.0	4784.0	4777.8	4791.8	4794.9	4752.8	4763.7	4802.7	4799.6	4796.5
52.5°	5269.1	5286.3	5367.4	5375.2	5442.3	5487.5	5411.1	5365.8	5351.8	5267.6	5273.8
55°	5843.1	5858.7	5980.4	6102.1	6283.0	6359.4	6198.8	6058.4	5958.6	5830.7	5836.9
57.5°	6559.1	6566.9	6682.3	6916.3	7203.3	7382.7	7100.4	6822.7	6619.9	6498.3	6449.9
60°	7329.7	7337.5	7505.9	7791.4	8237.5	8455.9	8106.5	7652.5	7396.7	7211.1	7223.6
62.5°	8254.6	8285.8	8437.1	8830.2	9371.5	9616.4	9153.1	8546.3	8200.1	7969.2	7978.6
65°	9245.1	9298.2	9463.5	9895.6	10394.7	10658.3	10090.6	9390.2	8959.7	8677.4	8707.0
67.5°	9887.8	9934.6	10173.2	10650.6	11272.9	11491.3	10758.2	9942.4	9404.2	9067.3	9004.9
70°	9724.0	9763.0	10081.2	10758.2	11680.0	11956.1	10917.3	9861.3	9228.0	8839.6	8814.6
72.5°	8583.8	8502.7	8967.5	9939.3	11215.2	11678.5	10416.6	9006.5	8209.4	7810.1	7763.3
75°	5688.7	5865.0	6551.3	7696.2	9488.5	10062.5	8891.1	7231.4	6228.4	5896.2	5844.7
77.5°	1901.4	2037.1	2647.0	4362.9	6468.6	7331.2	6478.0	4729.4	3345.8	2695.4	2707.9
80°	503.8	497.6	644.2	1199.5	2795.2	4245.9	3253.8	1602.0	876.6	634.9	602.1
82.5°	180.9	202.8	260.5	332.2	740.9	1319.6	931.2	449.2	329.1	243.3	235.5
85°	79.6	78.0	112.3	132.6	185.6	246.5	218.4	190.3	166.9	110.7	102.9
87.5°	17.2	17.2	26.5	20.3	32.8	32.8	40.6	48.4	49.9	32.8	26.5
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)