

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: P528144

Luminaire Tested: **GALN-SA3B-727-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-727-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12539 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

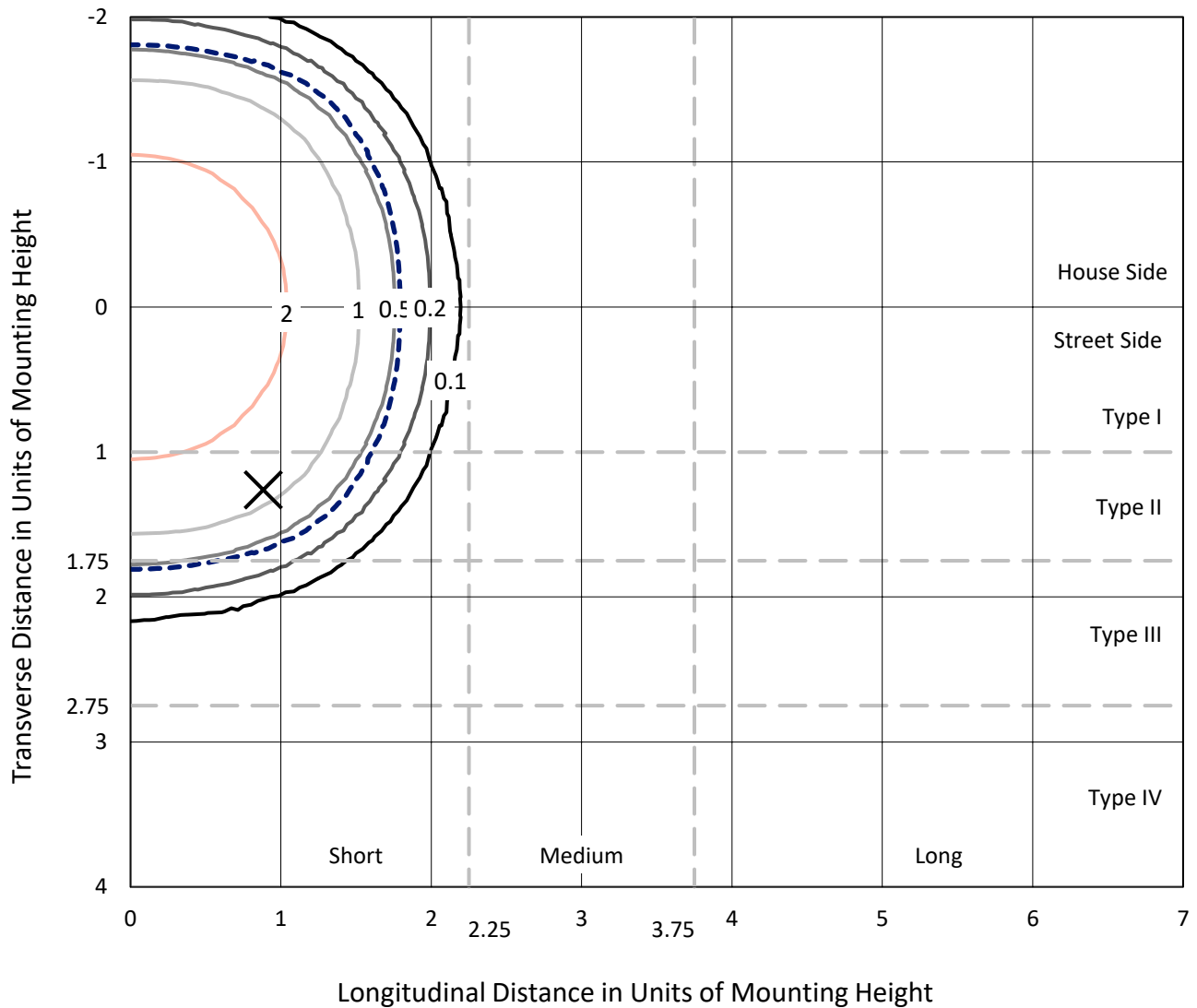
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

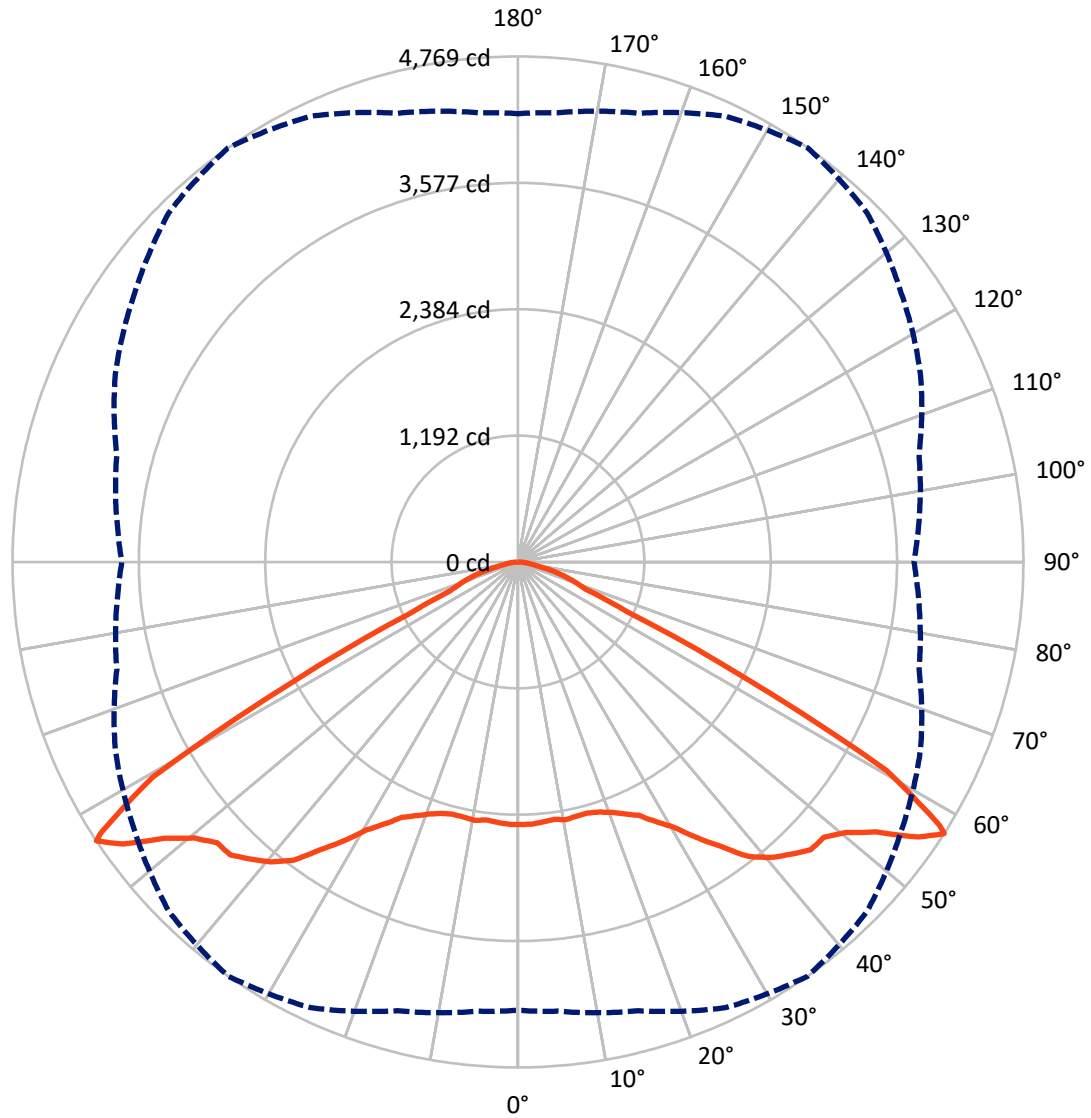
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6269.5	0.0	6269.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6269.5	0.0	6269.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12539.0	0.0	12539.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.8	1.9
10°-20°	695.3	5.5
20°-30°	1214.4	9.7
30°-40°	1989.8	15.9
40°-50°	2917.5	23.3
50°-60°	3674.8	29.3
60°-70°	1382.0	11.0
70°-80°	367.5	2.9
80°-90°	63.0	0.5
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°	12539.0	100.0
0°-180°	12539.0	100.0

Coefficient of Utilization



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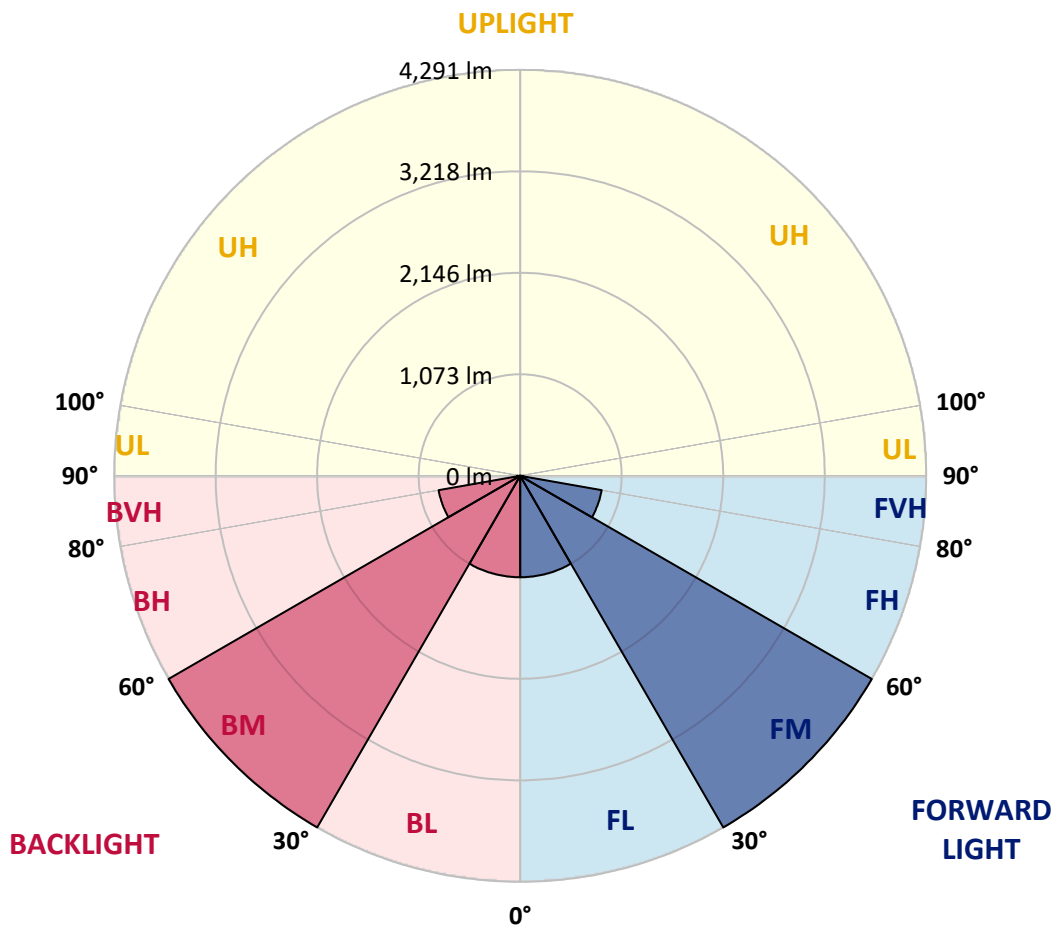
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1072.2	8.6			
FM (30°-60°)	4291.0	34.2			
FH (60°-80°)	874.8	7.0			G1/1800
FVH (80°-90°)	31.5	0.3			G1/100
BL (0°-30°)	1072.2	8.6	B3/2500		
BM (30°-60°)	4291.0	34.2	B3/5000		
BH (60°-80°)	874.8	7.0	B2/1000		G1/1800
BVH (80°-90°)	31.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2476.4	2476.4	2476.4	2476.4	2476.4	2476.4	2476.4	2476.4	2476.4	2476.4	2476.4
2.5°	2464.0	2488.7	2477.9	2471.7	2476.4	2468.6	2456.3	2470.2	2467.1	2454.7	2450.1
5°	2457.8	2476.4	2464.0	2476.4	2464.0	2485.6	2479.4	2456.3	2484.1	2457.8	2467.1
7.5°	2453.2	2459.4	2462.5	2456.3	2451.6	2477.9	2464.0	2453.2	2437.7	2433.1	2440.8
10°	2442.4	2457.8	2434.6	2465.5	2471.7	2453.2	2453.2	2433.1	2420.7	2413.0	2439.3
12.5°	2470.2	2443.9	2440.8	2456.3	2460.9	2468.6	2447.0	2436.2	2413.0	2416.1	2411.5
15°	2437.7	2448.6	2450.1	2453.2	2457.8	2476.4	2456.3	2433.1	2423.8	2391.4	2394.5
17.5°	2450.1	2439.3	2450.1	2485.6	2479.4	2493.4	2471.7	2436.2	2414.6	2396.0	2420.7
20°	2471.7	2467.1	2471.7	2515.0	2522.7	2535.1	2516.5	2484.1	2442.4	2420.7	2433.1
22.5°	2494.9	2491.8	2494.9	2536.6	2581.4	2596.9	2578.3	2502.6	2481.0	2440.8	2426.9
25°	2536.6	2539.7	2572.1	2618.5	2647.8	2677.2	2643.2	2589.1	2519.6	2494.9	2465.5
27.5°	2629.3	2637.0	2655.6	2723.5	2774.5	2800.8	2752.9	2678.7	2635.5	2584.5	2576.8
30°	2743.6	2743.6	2776.1	2834.8	2904.3	2944.4	2885.7	2797.7	2745.2	2717.4	2700.4
32.5°	2895.0	2878.0	2890.4	2993.9	3102.0	3136.0	3057.2	2949.1	2865.7	2828.6	2816.2
35°	3024.8	3035.6	3063.4	3174.6	3295.1	3373.9	3250.3	3109.7	3024.8	2990.8	2984.6
37.5°	3193.2	3211.7	3225.6	3378.5	3523.8	3553.1	3434.2	3321.4	3217.9	3190.1	3174.6
40°	3431.1	3418.7	3423.3	3536.1	3667.4	3686.0	3568.6	3488.2	3403.3	3386.3	3386.3
42.5°	3627.3	3613.4	3628.8	3670.5	3770.9	3757.0	3692.1	3633.4	3597.9	3579.4	3597.9
45°	3746.2	3743.1	3770.9	3801.8	3872.9	3826.5	3775.6	3784.8	3750.8	3719.9	3718.4
47.5°	3876.0	3855.9	3889.9	3936.2	3882.2	3860.5	3857.4	3877.5	3866.7	3812.6	3795.6
50°	3939.3	3931.6	3985.7	4039.7	4010.4	3960.9	3971.8	4004.2	3865.2	3792.6	3750.8
52.5°	4109.2	4110.8	4214.3	4243.6	4231.3	4158.7	4181.9	4093.8	3930.0	3828.1	3832.7
55°	4376.5	4365.7	4481.5	4568.1	4582.0	4489.3	4378.0	4254.5	4049.0	3945.5	3914.6
57°	4229.7	4254.5	4382.7	4639.1	4768.9	4659.2	4416.7	4191.1	3917.7	3792.6	3736.9
57.5°	4033.5	4073.7	4296.2	4554.2	4690.1	4680.8	4368.8	4073.7	3829.6	3635.0	3639.6
60°	2955.3	2963.0	3163.8	3573.2	3998.0	4007.3	3627.3	3236.4	2964.5	2752.9	2782.2
62.5°	1558.7	1594.3	1674.6	2003.6	2371.3	2460.9	2230.7	2029.9	1795.1	1634.4	1649.9
65°	824.9	820.3	858.9	951.6	1132.4	1178.7	1147.8	988.7	906.8	880.6	882.1
67.5°	670.5	678.2	673.5	678.2	690.5	710.6	706.0	712.2	716.8	724.5	723.0
70°	568.5	568.5	571.6	573.1	573.1	582.4	593.2	613.3	614.8	622.6	625.7
72.5°	448.0	444.9	449.5	460.4	461.9	469.6	485.1	497.4	502.1	502.1	492.8
75°	304.3	307.4	313.6	322.9	332.1	346.0	358.4	366.1	369.2	364.6	359.9
77.5°	171.5	174.6	179.2	193.1	203.9	216.3	230.2	237.9	245.6	247.2	237.9
80°	102.0	102.0	109.7	120.5	132.9	145.2	157.6	166.8	169.9	169.9	165.3
82.5°	61.8	63.3	69.5	80.3	91.1	98.9	109.7	117.4	123.6	122.0	119.0
85°	32.4	32.4	38.6	47.9	55.6	63.3	63.3	58.7	55.6	47.9	44.8
87.5°	10.8	9.3	12.4	12.4	10.8	12.4	12.4	13.9	13.9	13.9	13.9
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)