

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: P458832

Luminaire Tested: **GALN-SA3D-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22563 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

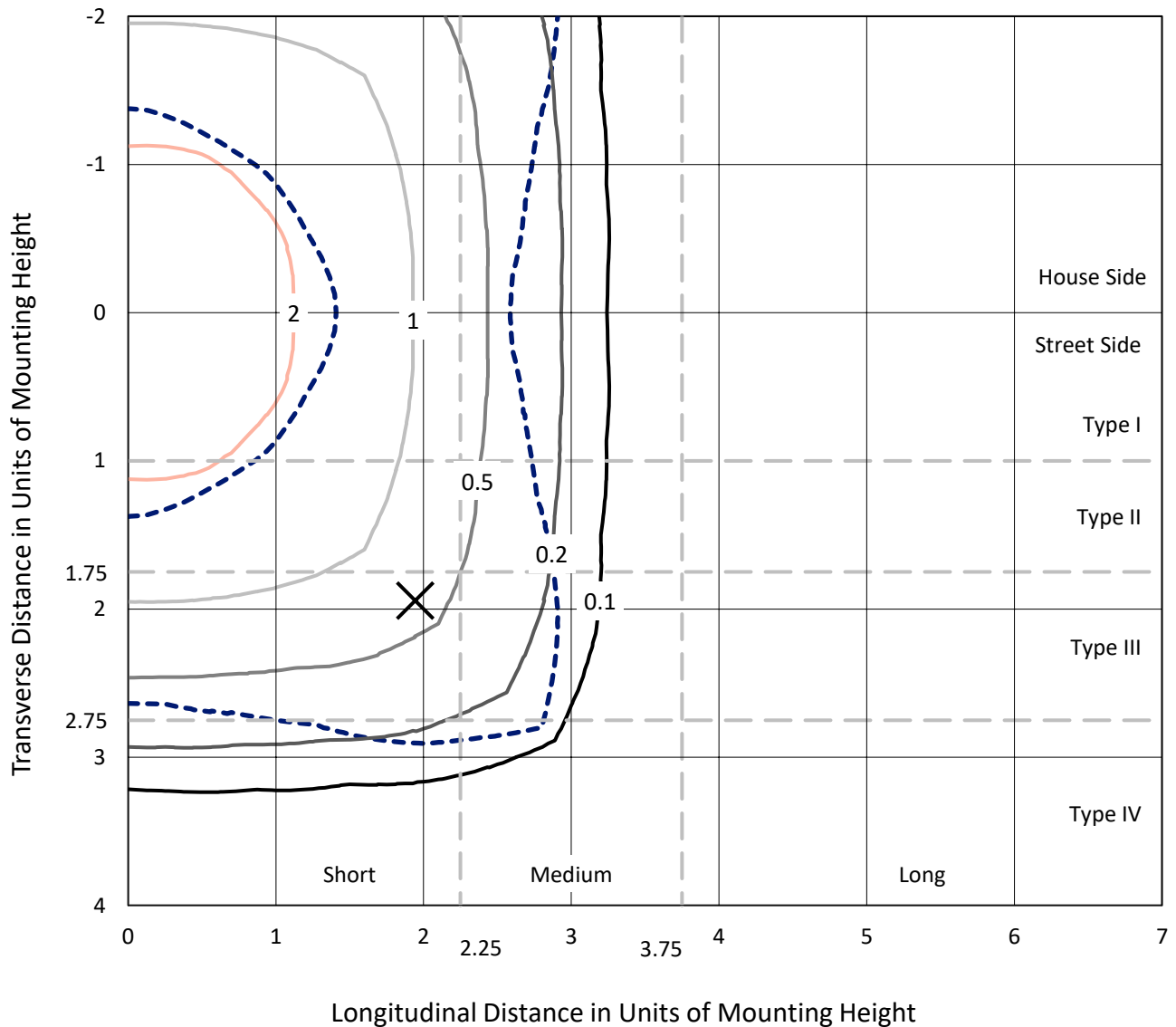
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

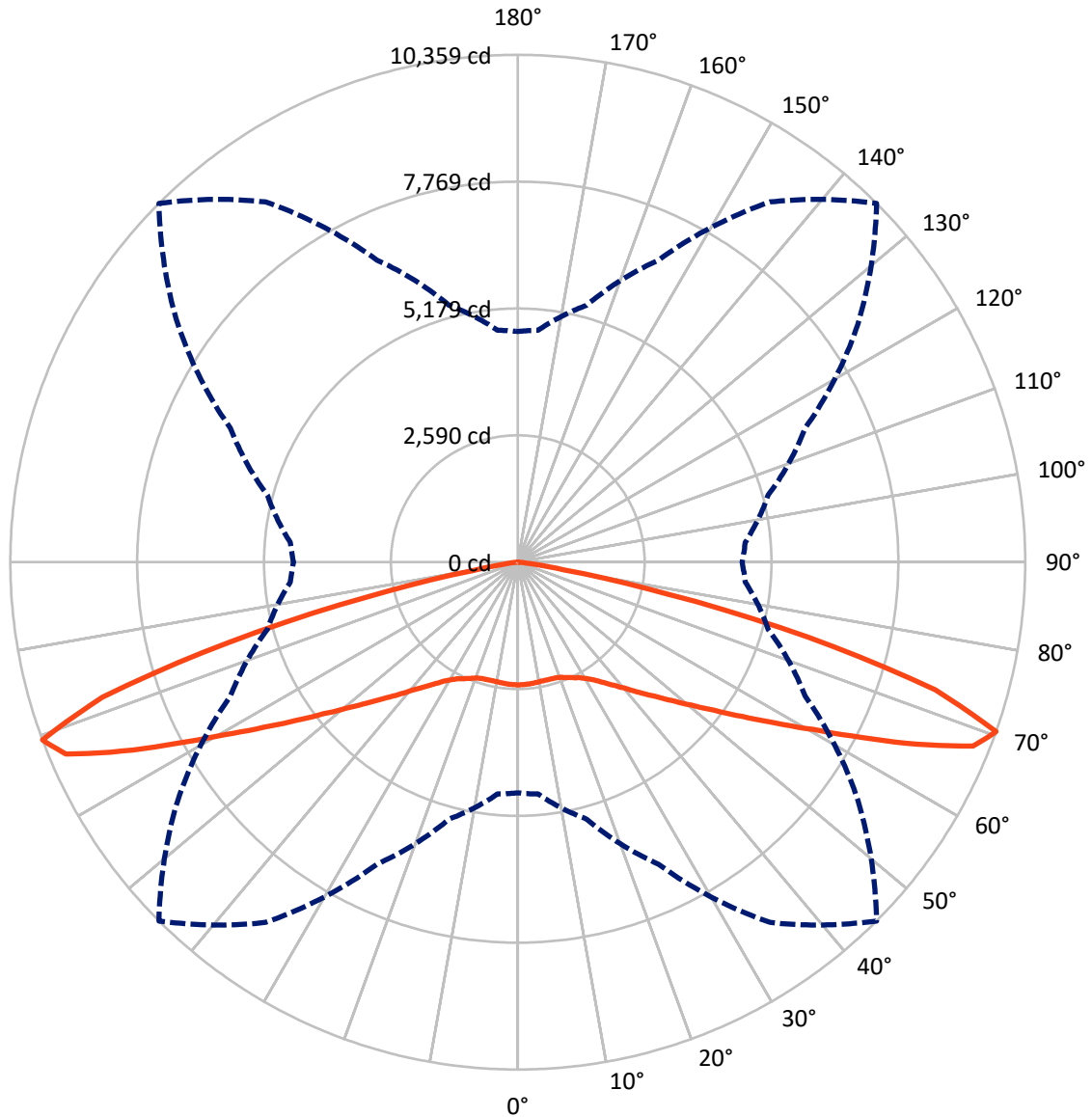
× Max cd
 - - - 1/2 Max cd



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	11281.5	0.0	11281.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11281.5	0.0	11281.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22563.0	0.0	22563.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.6	1.1
10°-20°	697.2	3.1
20°-30°	1192.4	5.3
30°-40°	1892.6	8.4
40°-50°	3053.3	13.5
50°-60°	4967.8	22.0
60°-70°	7201.6	31.9
70°-80°	3194.4	14.2
80°-90°	126.0	0.6
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°	22563.0	100.0
0°-180°	22563.0	100.0

Coefficient of Utilization



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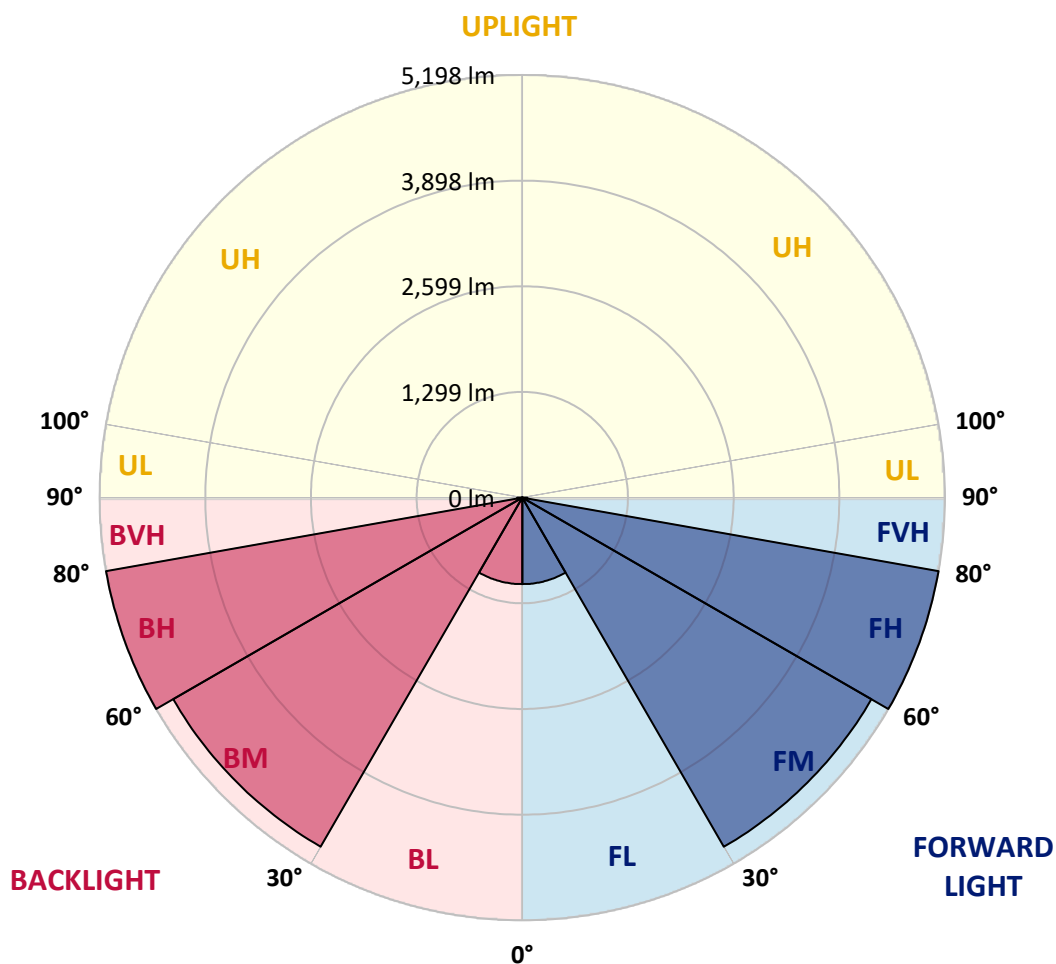
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1063.6	4.7			
FM (30°-60°)	4956.9	22.0			
FH (60°-80°)	5198.0	23.0			G3/7500
FVH (80°-90°)	63.0	0.3			G1/100
BL (0°-30°)	1063.6	4.7	B3/2500		
BM (30°-60°)	4956.9	22.0	B3/5000		
BH (60°-80°)	5198.0	23.0	B5		G3/7500
BVH (80°-90°)	63.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2505.5	2505.5	2505.5	2505.5	2505.5	2505.5	2505.5	2505.5	2505.5	2505.5	2505.5
2.5°	2505.5	2507.9	2504.3	2501.9	2500.8	2500.8	2499.6	2500.8	2507.9	2509.1	2505.5
5°	2498.4	2500.8	2499.6	2497.2	2496.0	2496.0	2494.8	2493.6	2499.6	2501.9	2500.8
7.5°	2488.9	2490.1	2488.9	2487.7	2488.9	2487.7	2484.1	2481.7	2486.5	2486.5	2485.3
10°	2472.2	2474.6	2473.4	2474.6	2477.0	2477.0	2472.2	2467.5	2468.7	2466.3	2466.3
12.5°	2452.0	2455.6	2456.8	2461.5	2467.5	2474.6	2463.9	2453.2	2450.8	2449.6	2448.4
15°	2438.9	2442.5	2447.2	2452.0	2462.7	2478.2	2462.7	2446.1	2441.3	2436.5	2434.2
17.5°	2435.4	2440.1	2447.2	2454.4	2468.7	2484.1	2471.0	2454.4	2442.5	2435.4	2433.0
20°	2444.9	2448.4	2459.1	2472.2	2492.4	2507.9	2494.8	2477.0	2459.1	2448.4	2444.9
22.5°	2463.9	2469.8	2482.9	2506.7	2535.2	2557.8	2540.0	2510.3	2481.7	2467.5	2462.7
25°	2505.5	2510.3	2525.7	2557.8	2591.1	2612.5	2593.5	2559.0	2519.8	2500.8	2494.8
27.5°	2568.5	2575.7	2592.3	2630.4	2657.7	2669.6	2656.5	2632.8	2604.2	2584.0	2579.2
30°	2657.7	2666.0	2691.0	2731.5	2749.3	2756.4	2750.5	2735.0	2714.8	2693.4	2688.6
32.5°	2777.8	2782.6	2811.1	2849.2	2865.8	2868.2	2861.1	2853.9	2820.6	2785.0	2782.6
35°	2912.2	2920.5	2955.0	3000.2	3015.7	3016.8	3002.6	2991.9	2952.6	2924.1	2924.1
37.5°	3090.6	3094.1	3127.4	3178.6	3195.2	3190.5	3183.3	3173.8	3132.2	3095.3	3096.5
40°	3299.9	3307.0	3335.5	3395.0	3395.0	3389.0	3393.8	3386.7	3345.0	3309.4	3310.6
42.5°	3548.4	3552.0	3586.4	3649.5	3644.7	3632.8	3637.6	3628.1	3601.9	3561.5	3547.2
45°	3813.6	3827.8	3887.3	3947.9	3938.4	3900.4	3919.4	3917.0	3893.2	3832.6	3836.2
47.5°	4133.4	4157.2	4214.3	4286.8	4276.1	4216.7	4238.1	4252.4	4219.1	4152.5	4140.6
50°	4493.8	4509.2	4593.6	4661.4	4651.9	4588.9	4637.6	4640.0	4556.8	4462.8	4462.8
52.5°	4877.8	4893.3	5007.5	5113.3	5119.2	5027.7	5066.9	5064.5	4929.0	4805.3	4781.5
55°	5308.3	5315.4	5462.9	5618.7	5652.0	5562.8	5567.5	5520.0	5344.0	5200.1	5187.0
57.5°	5753.1	5779.2	5942.1	6144.3	6243.0	6188.3	6163.3	6036.1	5866.0	5700.7	5692.4
60°	6245.4	6246.5	6458.2	6697.2	6897.0	6933.9	6831.6	6661.6	6441.6	6222.8	6213.2
62.5°	6586.6	6637.8	6905.3	7309.6	7667.6	7874.5	7604.5	7247.8	6815.0	6461.8	6426.1
65°	6656.8	6691.3	7099.2	7784.1	8515.4	8961.3	8337.1	7578.4	6839.9	6369.0	6345.2
67.5°	6089.6	6126.4	6675.8	7727.0	9110.0	10024.4	8812.7	7419.0	6416.6	5833.9	5787.5
70°	4710.2	4751.8	5430.8	6801.9	8978.0	10358.6	8473.8	6471.3	5291.7	4662.6	4578.2
72.5°	2504.3	2657.7	3238.0	4668.6	7287.0	8918.5	6948.1	4722.1	3412.8	2789.7	2677.9
75°	914.4	933.5	1256.9	2070.3	4239.3	6115.7	4402.2	2252.2	1295.0	1000.1	948.9
77.5°	378.1	377.0	413.8	625.5	1539.9	3132.2	1718.3	661.2	412.6	381.7	377.0
80°	223.6	223.6	246.2	260.4	405.5	945.4	453.1	294.9	247.3	225.9	229.5
82.5°	99.9	105.8	155.8	164.1	196.2	259.2	218.8	187.9	161.7	111.8	101.1
85°	54.7	47.6	82.1	85.6	93.9	96.3	103.5	102.3	93.9	54.7	55.9
87.5°	10.7	13.1	23.8	17.8	20.2	17.8	23.8	33.3	34.5	19.0	15.5
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)