

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: P458804

Luminaire Tested: **GALN-SA3C-735-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-735-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20404 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

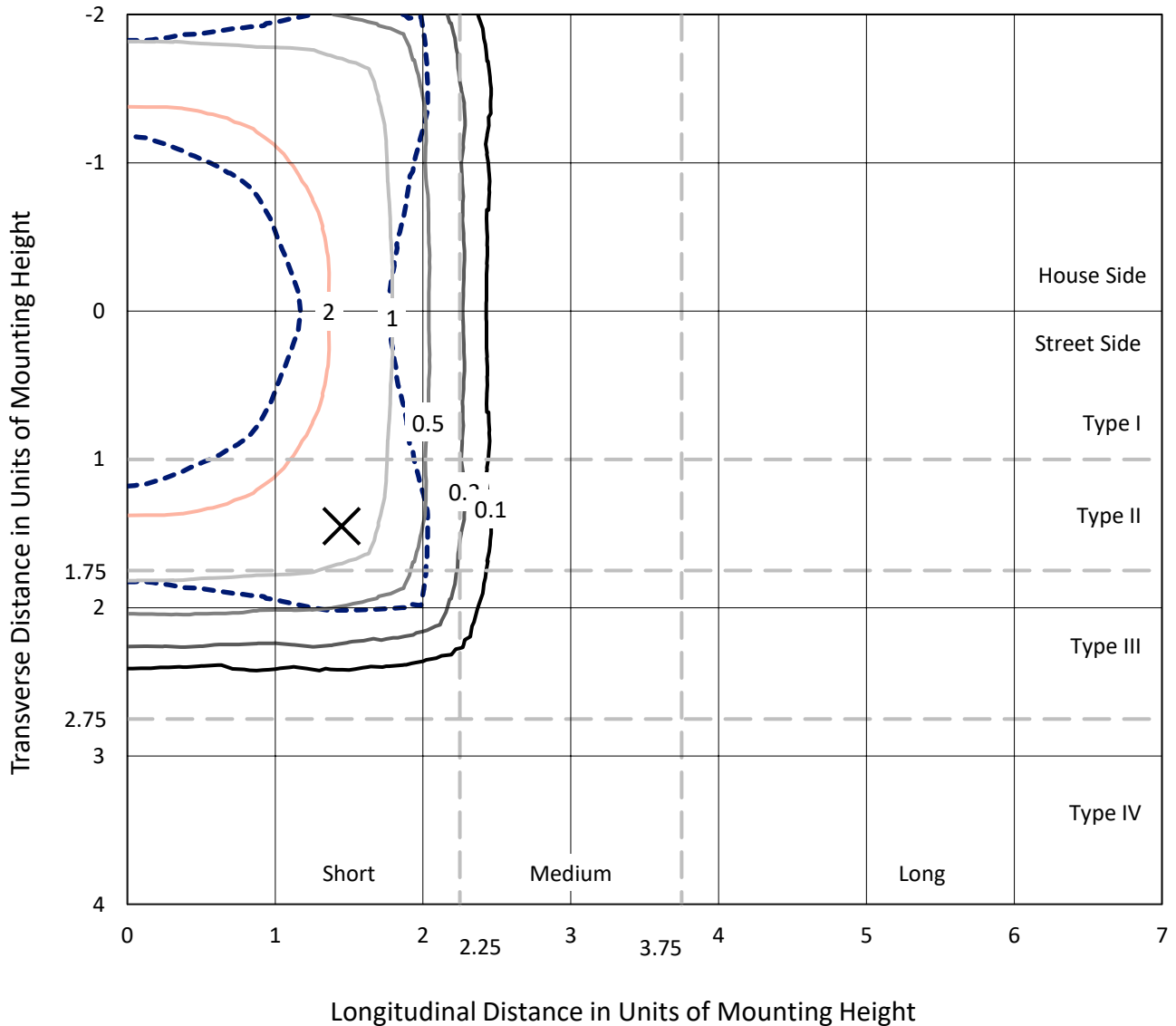
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

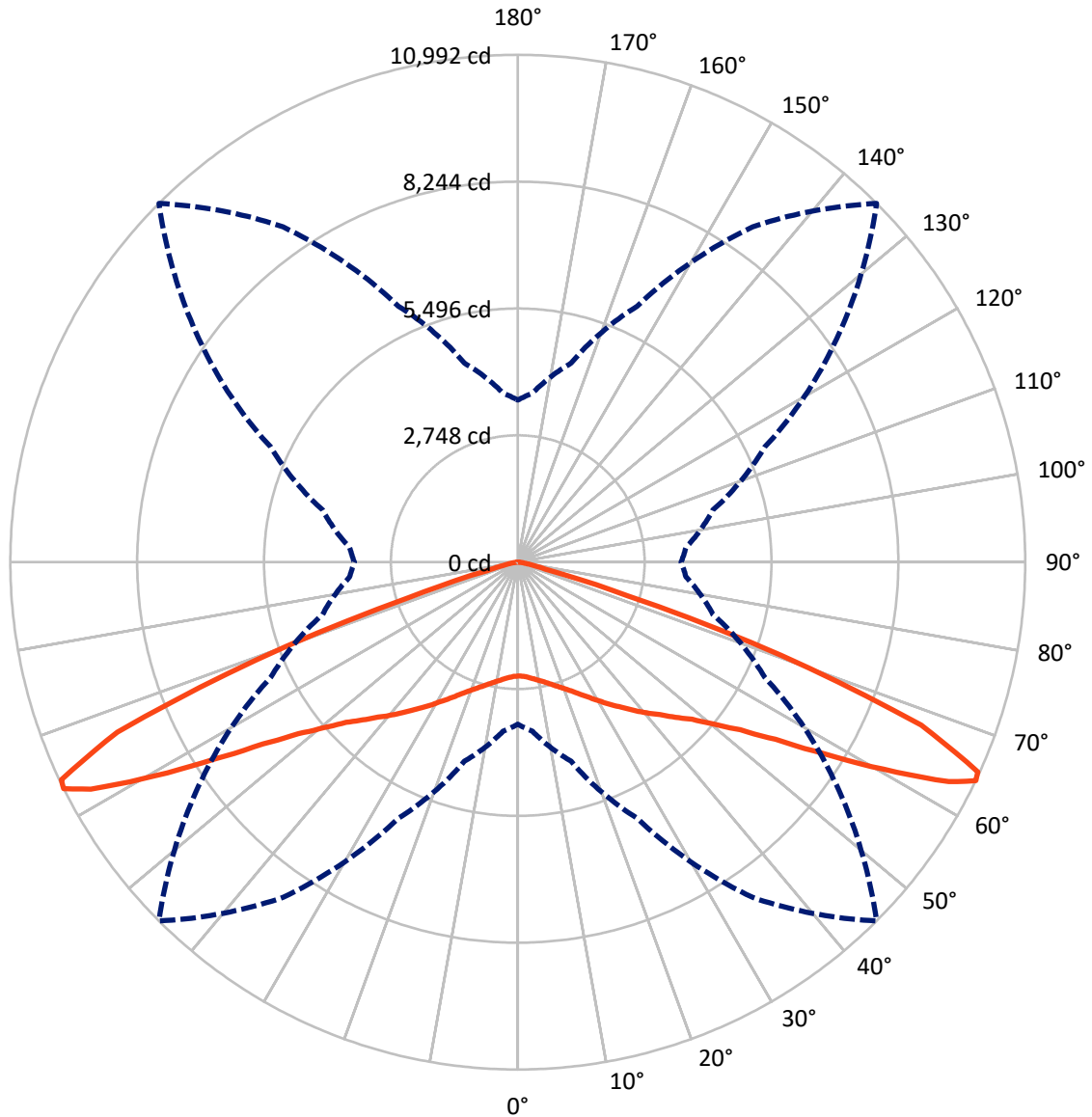
✕ Max cd
 - - - 1/2 Max cd



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 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10202.0	0.0	10202.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10202.0	0.0	10202.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20404.0	0.0	20404.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.3	1.2
10°-20°	781.5	3.8
20°-30°	1476.9	7.2
30°-40°	2445.8	12.0
40°-50°	3818.3	18.7
50°-60°	5903.1	28.9
60°-70°	5090.1	24.9
70°-80°	576.8	2.8
80°-90°	69.1	0.3
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°	20404.0	100.0
0°-180°	20404.0	100.0

Coefficient of Utilization



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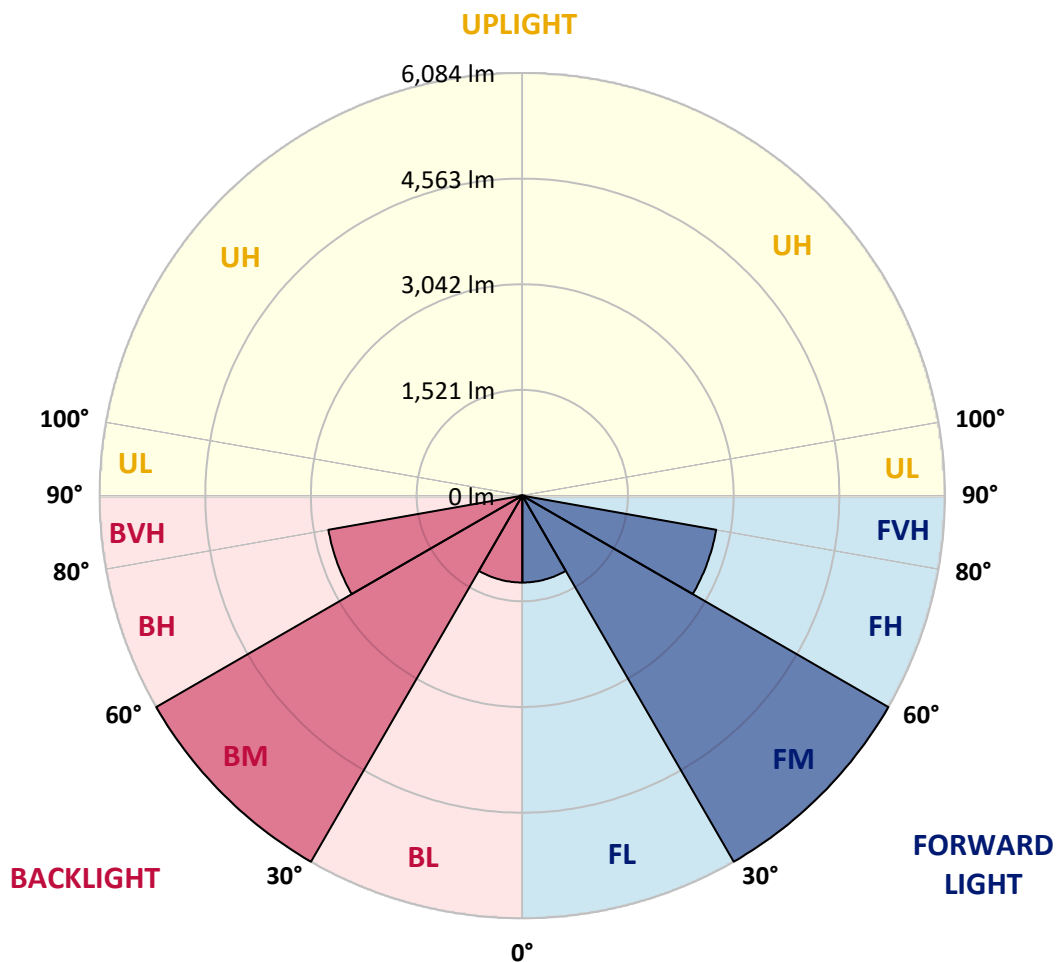
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1250.3	6.1			
FM	(30°-60°)	6083.6	29.8			
FH	(60°-80°)	2833.5	13.9			G2/5000
FVH	(80°-90°)	34.6	0.2			G1/100
BL	(0°-30°)	1250.3	6.1	B3/2500		
BM	(30°-60°)	6083.6	29.8	B4/8500		
BH	(60°-80°)	2833.5	13.9	B4/5000		G2/5000
BVH	(80°-90°)	34.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2466.2	2466.2	2466.2	2466.2	2466.2	2466.2	2466.2	2466.2	2466.2	2466.2	2466.2
2.5°	2475.9	2481.3	2477.0	2475.9	2474.8	2474.8	2474.8	2475.9	2480.2	2483.5	2481.3
5°	2507.2	2511.6	2509.4	2508.3	2507.2	2508.3	2506.2	2505.1	2508.3	2508.3	2507.2
7.5°	2546.1	2551.5	2549.4	2551.5	2552.6	2553.7	2548.3	2544.0	2542.9	2546.1	2544.0
10°	2599.1	2603.4	2604.5	2605.6	2607.7	2606.7	2600.2	2592.6	2591.5	2590.4	2589.4
12.5°	2658.5	2661.8	2662.9	2667.2	2670.4	2671.5	2663.9	2657.5	2646.6	2648.8	2644.5
15°	2725.5	2732.0	2730.9	2737.4	2746.1	2748.2	2740.7	2729.9	2720.1	2714.7	2711.5
17.5°	2807.7	2812.0	2809.8	2816.3	2827.1	2832.5	2826.0	2812.0	2802.3	2790.4	2783.9
20°	2904.9	2912.5	2914.7	2914.7	2924.4	2929.8	2920.1	2915.7	2900.6	2892.0	2886.6
22.5°	3015.2	3018.4	3024.9	3031.4	3041.1	3038.9	3035.7	3029.2	3015.2	3007.6	2999.0
25°	3139.4	3142.7	3158.9	3172.9	3176.2	3174.0	3169.7	3166.5	3153.5	3136.2	3129.7
27.5°	3284.3	3290.7	3312.4	3325.3	3325.3	3326.4	3317.8	3328.6	3300.5	3279.9	3277.8
30°	3465.8	3470.1	3488.5	3501.5	3495.0	3489.6	3487.4	3498.2	3468.0	3431.2	3422.6
32.5°	3645.2	3660.3	3676.6	3704.7	3682.0	3672.2	3670.1	3677.6	3643.1	3602.0	3590.1
35°	3837.6	3848.4	3878.6	3902.4	3881.9	3859.2	3868.9	3892.7	3851.6	3796.5	3794.4
37.5°	4050.5	4060.2	4099.1	4124.0	4108.8	4069.9	4086.1	4114.2	4073.2	4005.1	3991.0
40°	4272.0	4292.6	4341.2	4367.1	4342.3	4290.4	4320.7	4350.9	4314.2	4235.3	4203.9
42.5°	4520.6	4553.0	4623.3	4636.2	4588.7	4518.4	4571.4	4620.0	4594.1	4503.3	4491.4
45°	4811.3	4830.7	4917.2	4945.3	4879.4	4791.8	4857.8	4946.4	4926.9	4822.1	4799.4
47.5°	5136.6	5155.0	5244.7	5286.8	5203.6	5085.8	5204.7	5320.3	5308.4	5196.0	5185.2
50°	5521.3	5525.6	5649.9	5697.5	5614.3	5512.7	5618.6	5762.3	5714.8	5571.0	5568.9
52.5°	5942.8	5948.2	6104.9	6196.8	6150.3	6035.7	6161.1	6248.6	6127.6	5939.5	5925.5
55°	6308.1	6335.1	6549.1	6793.3	6857.1	6773.9	6811.7	6770.6	6472.3	6208.6	6167.6
57.5°	6457.2	6510.2	6835.5	7291.5	7706.5	7829.7	7537.9	7146.7	6609.6	6236.7	6196.8
60°	6093.0	6150.3	6655.0	7520.6	8579.7	9114.7	8294.4	7210.5	6297.3	5773.1	5710.4
62.5°	4879.4	4895.6	5638.0	6981.3	9088.7	10474.2	8613.2	6666.9	5388.4	4676.2	4651.3
64°	3511.2	3677.6	4464.4	6121.1	8866.1	10991.8	8429.5	5905.0	4376.9	3656.0	3539.3
65°	2626.1	2671.5	3598.7	5227.4	8473.8	10952.9	8072.9	5176.6	3624.7	2797.9	2668.3
67.5°	992.1	997.5	1328.2	2605.6	6032.5	9423.7	6161.1	2816.3	1527.0	1104.5	1064.5
70°	411.7	419.3	487.4	876.5	2592.6	6050.9	2970.9	1015.9	558.7	452.8	446.3
72.5°	301.5	305.8	326.4	389.1	797.6	2484.5	977.0	431.2	327.5	292.9	289.6
75°	236.7	238.8	254.0	286.4	371.8	688.4	406.3	296.1	249.6	224.8	222.6
77.5°	180.5	185.9	196.7	218.3	249.6	326.4	269.1	221.5	192.4	171.8	168.6
80°	124.3	130.8	151.3	159.9	167.5	211.8	183.7	167.5	150.2	125.4	117.8
82.5°	76.7	81.1	101.6	109.2	105.9	118.9	117.8	120.0	107.0	77.8	72.4
85°	40.0	42.1	55.1	57.3	53.0	48.6	60.5	70.2	65.9	44.3	43.2
87.5°	8.6	9.7	11.9	10.8	11.9	11.9	15.1	22.7	23.8	15.1	14.0
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)