

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: P455470

Luminaire Tested: **GALN-SA6C-830-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455470
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-SA6C-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34672 lumens
Efficiency: N/A
Efficacy: 108.0 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): 321
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



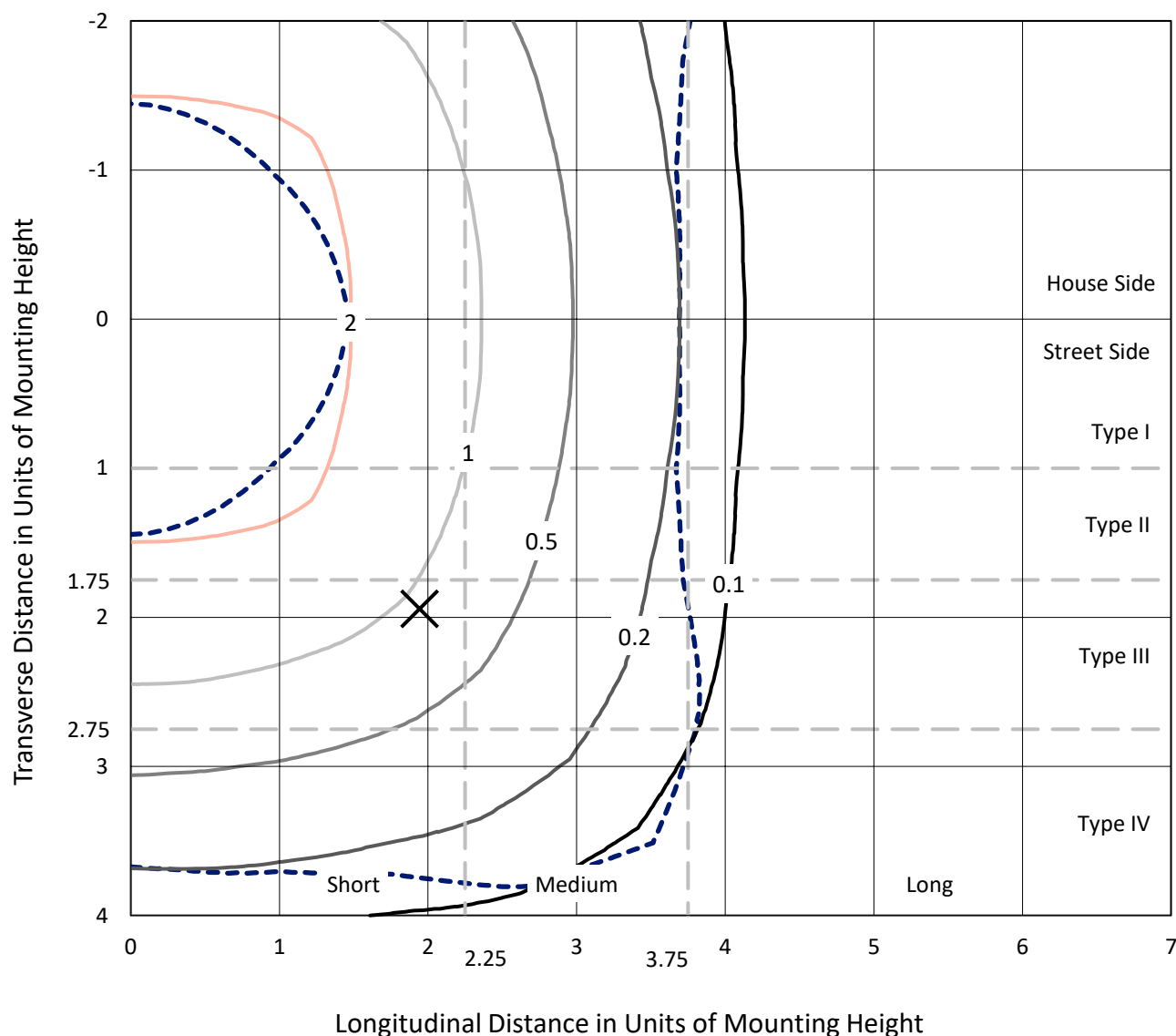
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



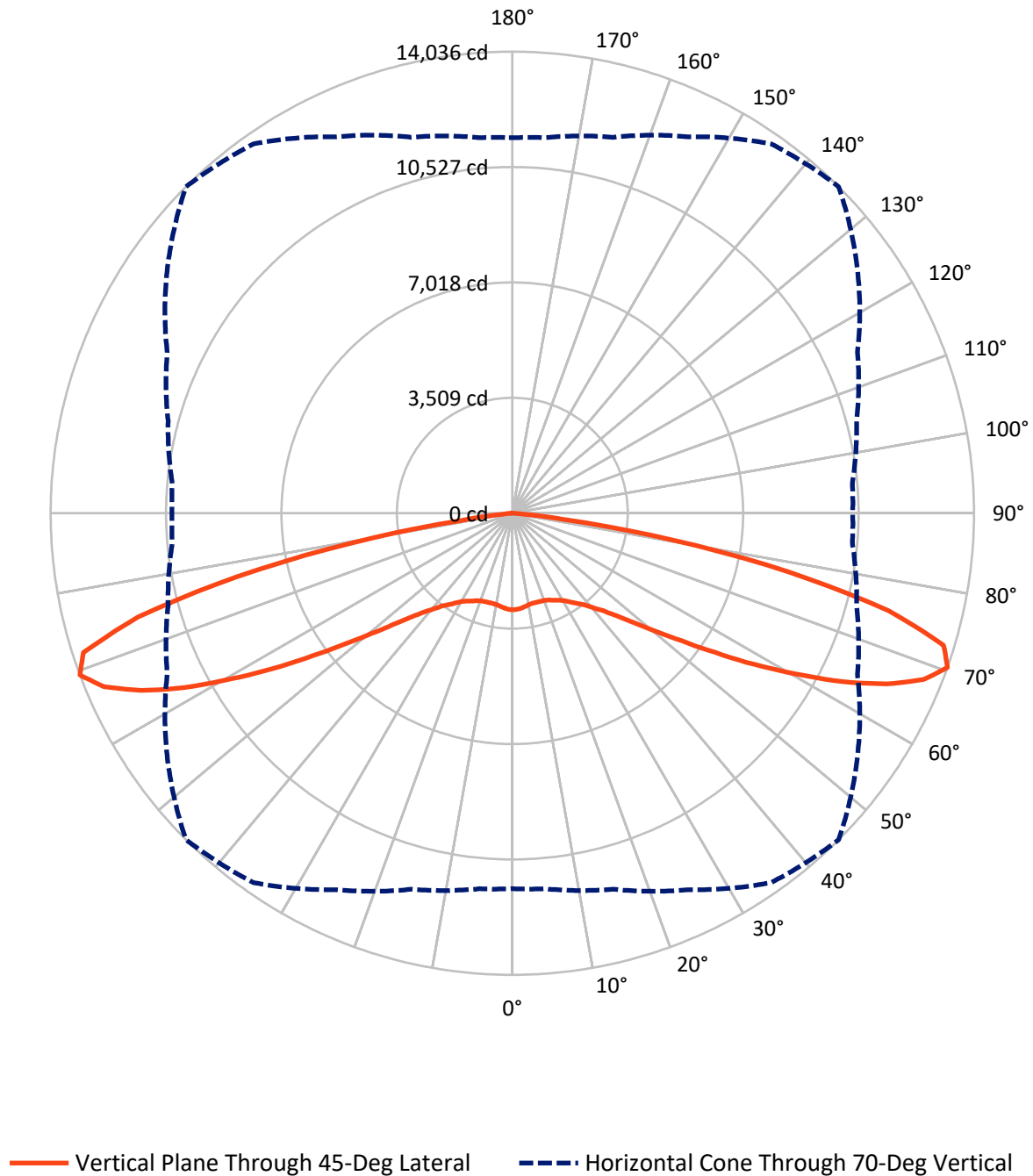
Based on 25 foot mounting height. Maximum calculated value = 4.7 fc

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	17336.0	0.0	17336.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17336.0	0.0	17336.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34672.0	0.0	34672.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.5	0.8
10°-20°	803.7	2.3
20°-30°	1369.3	3.9
30°-40°	2122.3	6.1
40°-50°	3572.2	10.3
50°-60°	6499.4	18.7
60°-70°	11003.3	31.7
70°-80°	8517.0	24.6
80°-90°	510.4	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°	34672.0	100.0
0°-180°	34672.0	100.0

Coefficient of Utilization



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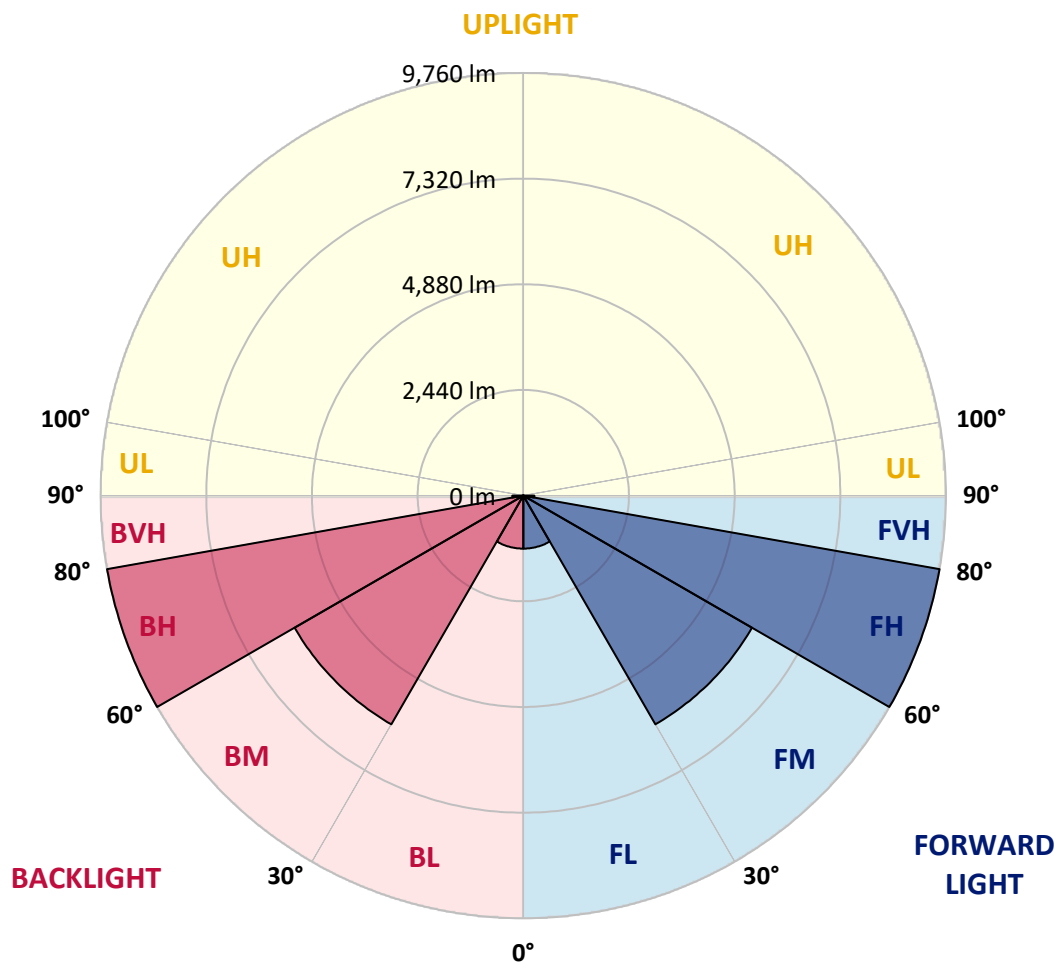
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1223.7	3.5			
FM	(30°-60°)	6096.9	17.6			
FH	(60°-80°)	9760.2	28.1			G4/12000
FVH	(80°-90°)	255.2	0.7			G3/500
BL	(0°-30°)	1223.7	3.5	B3/2500		
BM	(30°-60°)	6096.9	17.6	B4/8500		
BH	(60°-80°)	9760.2	28.1	B5		G4/12000
BVH	(80°-90°)	255.2	0.7			G3/500
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°	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4	2935.4
2.5°	2928.1	2929.9	2929.9	2926.3	2924.4	2924.4	2922.6	2922.6	2928.1	2929.9	2931.7
5°	2902.4	2902.4	2902.4	2900.6	2897.0	2897.0	2893.3	2893.3	2895.1	2900.6	2897.0
7.5°	2867.7	2871.3	2871.3	2864.0	2858.5	2858.5	2856.7	2858.5	2860.3	2865.8	2864.0
10°	2856.7	2858.5	2849.3	2836.5	2827.4	2821.9	2823.7	2827.4	2836.5	2840.2	2842.0
12.5°	2864.0	2864.0	2847.5	2829.2	2812.7	2805.4	2803.6	2816.4	2832.9	2843.8	2847.5
15°	2873.1	2869.5	2849.3	2825.5	2809.1	2807.2	2805.4	2814.6	2838.4	2860.3	2862.2
17.5°	2878.6	2876.8	2851.2	2821.9	2812.7	2812.7	2810.9	2818.2	2843.8	2871.3	2873.1
20°	2897.0	2891.5	2862.2	2831.0	2823.7	2827.4	2821.9	2831.0	2858.5	2891.5	2898.8
22.5°	2933.6	2928.1	2898.8	2867.7	2864.0	2864.0	2862.2	2871.3	2900.6	2935.4	2940.9
25°	2977.5	2972.0	2944.6	2922.6	2926.3	2933.6	2929.9	2931.7	2955.6	2984.9	2994.0
27.5°	3036.1	3027.0	3003.2	2984.9	2995.8	2995.8	2995.8	2994.0	3008.7	3036.1	3045.3
30°	3107.5	3103.9	3078.2	3076.4	3085.6	3076.4	3076.4	3078.2	3080.1	3105.7	3114.9
32.5°	3200.9	3193.6	3180.8	3177.1	3202.8	3210.1	3184.5	3160.6	3173.5	3199.1	3204.6
35°	3354.8	3343.8	3325.5	3305.3	3325.5	3360.2	3305.3	3287.0	3320.0	3354.8	3358.4
37.5°	3563.5	3558.0	3528.7	3492.1	3490.3	3526.9	3470.1	3468.3	3530.5	3572.7	3578.2
40°	3825.4	3830.9	3794.2	3759.4	3741.1	3770.4	3726.5	3743.0	3803.4	3851.0	3847.3
42.5°	4193.4	4173.3	4116.5	4083.6	4063.4	4052.4	4041.5	4067.1	4134.8	4186.1	4226.4
45°	4623.8	4616.4	4545.0	4504.7	4460.8	4444.3	4440.7	4486.4	4568.8	4631.1	4636.6
47.5°	5110.9	5094.4	5048.6	5006.5	4990.0	4969.9	4951.6	4986.4	5068.8	5112.7	5125.5
50°	5612.6	5616.3	5616.3	5609.0	5625.4	5629.1	5579.7	5592.5	5638.3	5634.6	5630.9
52.5°	6185.8	6205.9	6301.2	6310.3	6389.0	6442.2	6352.4	6299.3	6282.8	6184.0	6191.3
55°	6859.7	6878.0	7020.8	7163.6	7376.1	7465.8	7277.2	7112.4	6995.2	6845.0	6852.3
57.5°	7700.2	7709.3	7844.8	8119.5	8456.5	8667.1	8335.6	8009.7	7771.6	7628.8	7572.0
60°	8604.8	8614.0	8811.7	9146.8	9670.6	9926.9	9516.7	8983.9	8683.5	8465.6	8480.3
62.5°	9690.7	9727.3	9904.9	10366.4	11001.8	11289.3	10745.5	10033.1	9626.6	9355.6	9366.6
65°	10853.5	10915.8	11109.9	11617.1	12203.1	12512.6	11846.0	11023.8	10518.4	10187.0	10221.7
67.5°	11608.0	11662.9	11943.1	12503.4	13234.1	13490.4	12629.8	11672.1	11040.3	10644.8	10571.5
70°	11415.7	11461.5	11835.0	12629.8	13712.0	14036.1	12816.6	11576.8	10833.4	10377.4	10348.1
72.5°	10077.1	9981.9	10527.6	11668.4	13166.3	13710.2	12228.7	10573.3	9637.6	9168.8	9113.9
75°	6678.4	6885.3	7691.0	9035.1	11139.2	11813.1	10437.8	8489.4	7312.0	6921.9	6861.5
77.5°	2232.2	2391.5	3107.5	5121.9	7594.0	8606.6	7605.0	5552.2	3927.9	3164.3	3179.0
80°	591.5	584.2	756.3	1408.2	3281.5	4984.5	3819.9	1880.6	1029.1	745.3	706.8
82.5°	212.4	238.1	305.8	390.0	869.8	1549.2	1093.2	527.4	386.4	285.7	276.5
85°	93.4	91.6	131.8	155.7	217.9	289.3	256.4	223.4	195.9	130.0	120.9
87.5°	20.1	20.1	31.1	23.8	38.5	38.5	47.6	56.8	58.6	38.5	31.1
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)