

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: P530199

Luminaire Tested: **GALN-SA5B-830-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530199
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15556 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

Input Watts (W): 204
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



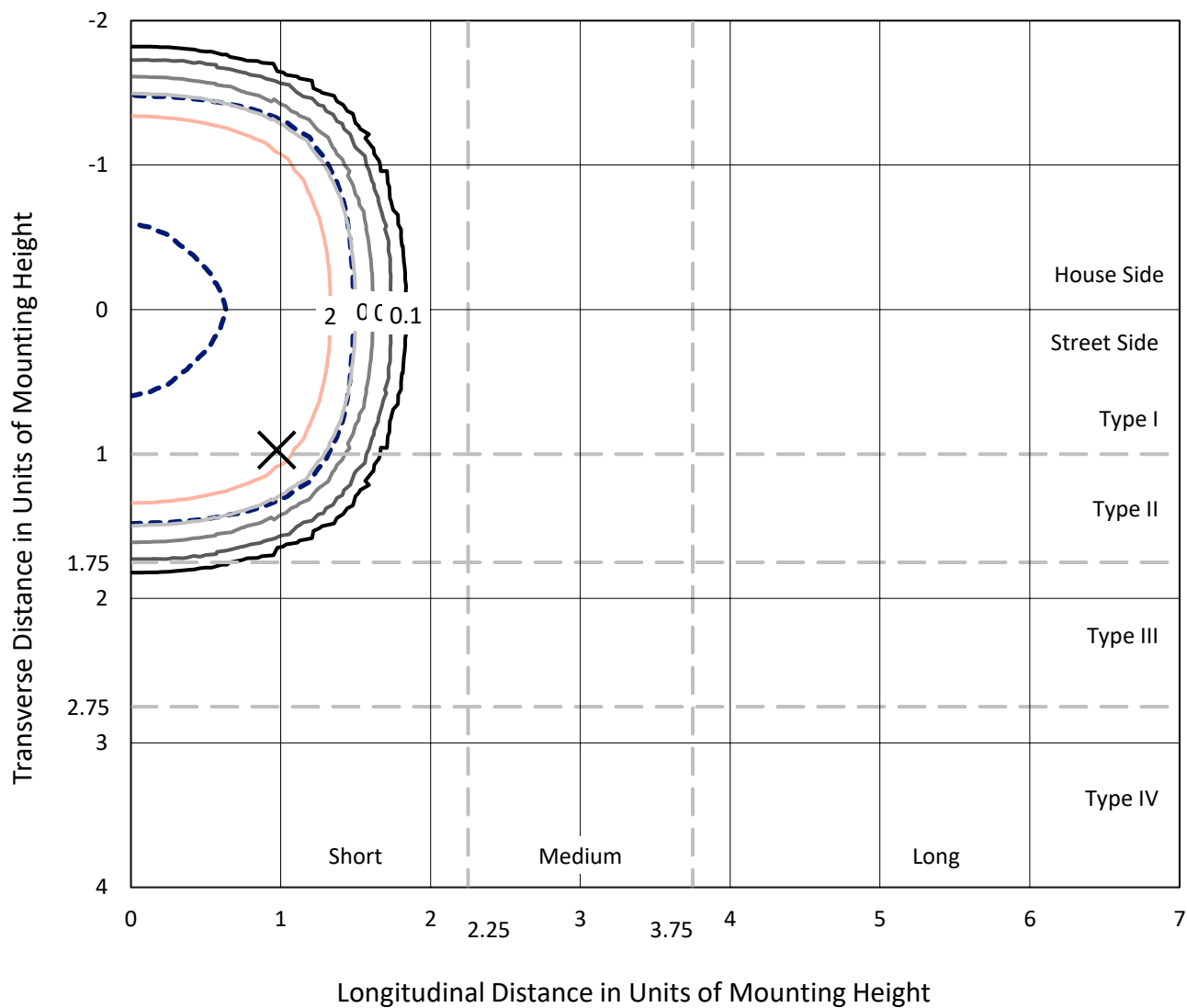
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

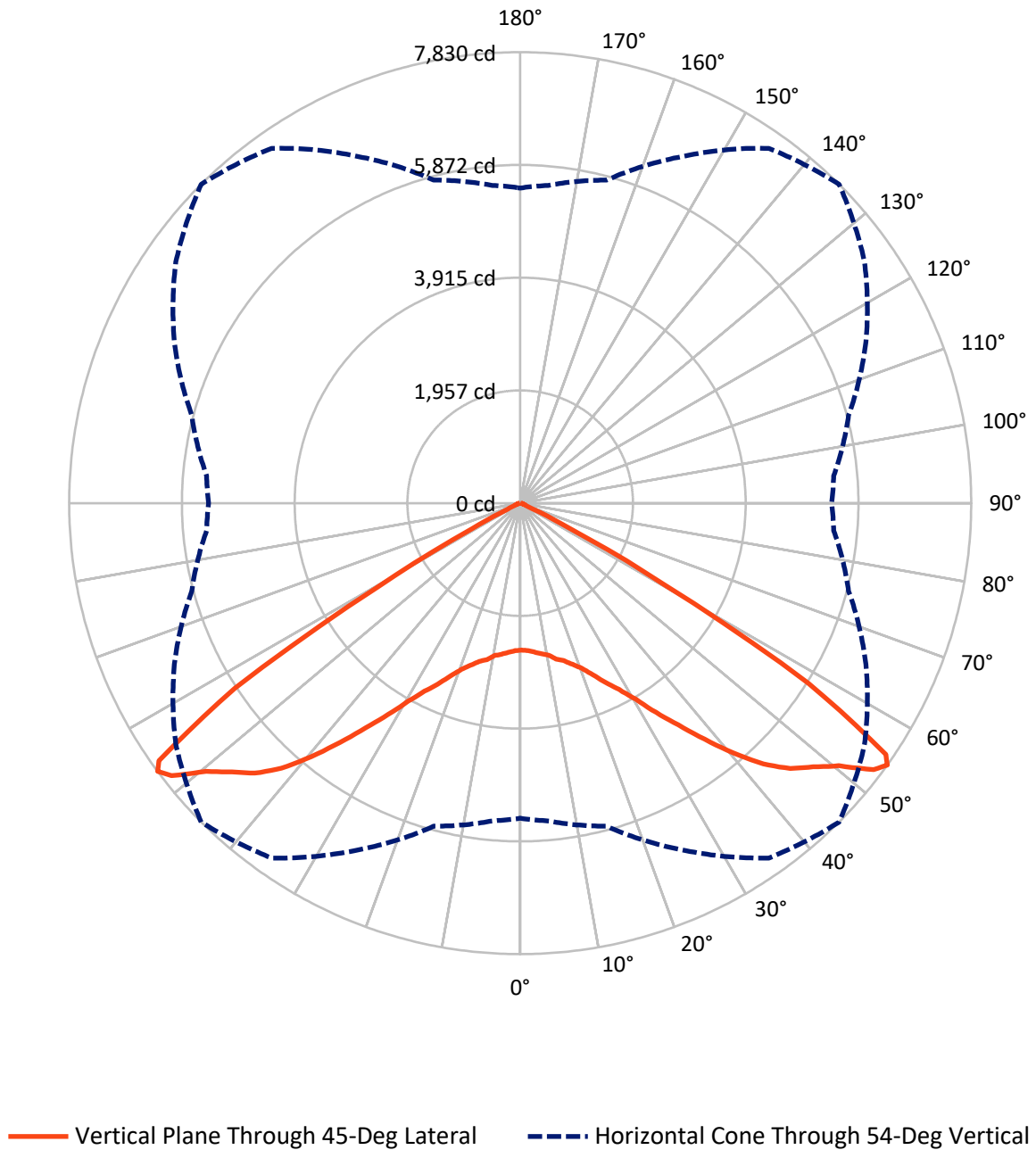


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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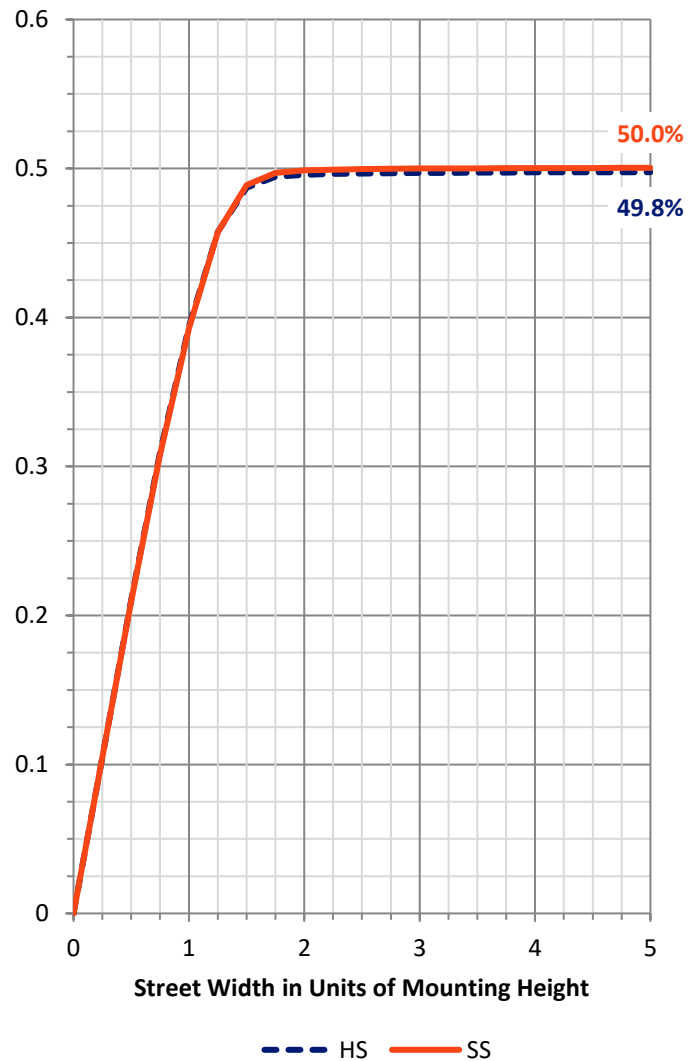
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7778.0	0.0	7778.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7778.0	0.0	7778.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15556.0	0.0	15556.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.7	1.6
10°-20°	808.5	5.2
20°-30°	1584.6	10.2
30°-40°	2849.4	18.3
40°-50°	4877.6	31.4
50°-60°	4719.5	30.3
60°-70°	404.0	2.6
70°-80°	47.9	0.3
80°-90°	15.0	0.1
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°	15556.0	100.0
0°-180°	15556.0	100.0

Coefficient of Utilization



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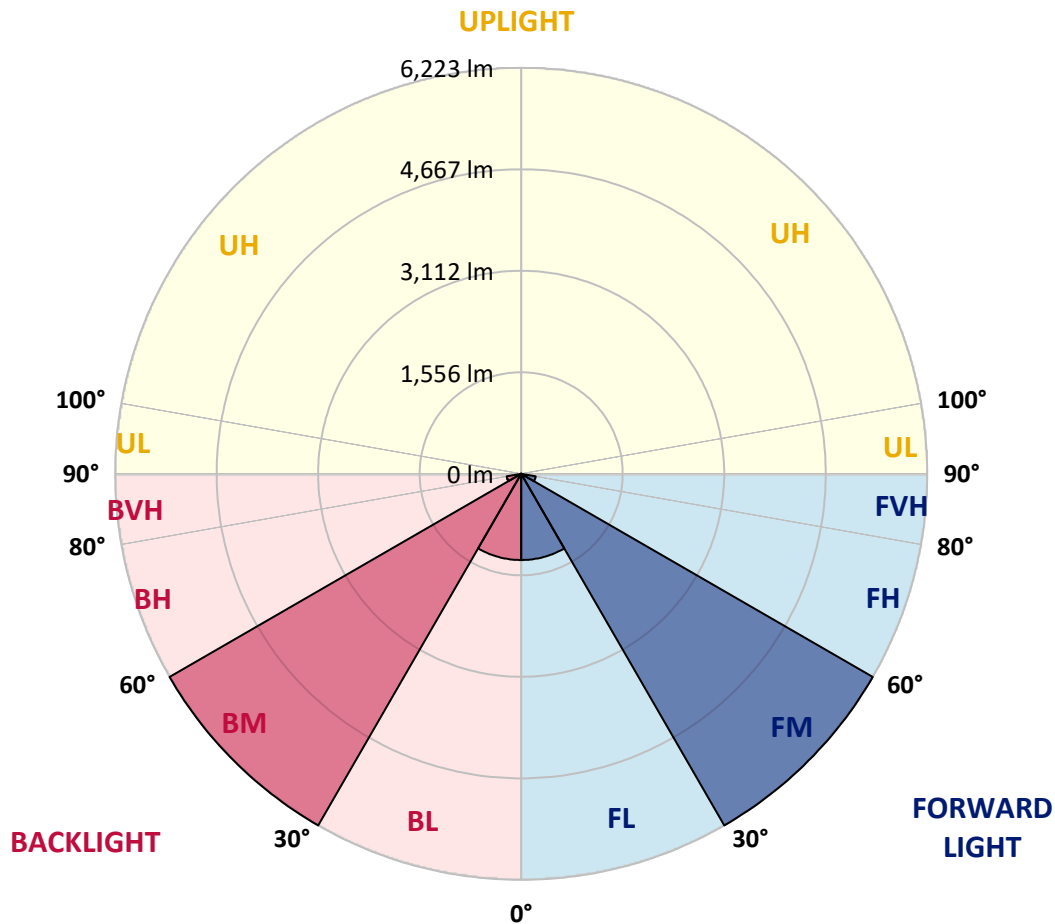
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1321.3	8.5			
FM	(30°-60°)	6223.2	40.0			
FH	(60°-80°)	225.9	1.5			G0/660
FVH	(80°-90°)	7.5	0.0			G0/10
BL	(0°-30°)	1321.3	8.5	B3/2500		
BM	(30°-60°)	6223.2	40.0	B4/8500		
BH	(60°-80°)	225.9	1.5	B1/500		G0/660
BVH	(80°-90°)	7.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2550.7	2550.7	2550.7	2550.7	2550.7	2550.7	2550.7	2550.7	2550.7	2550.7	2550.7
2.5°	2563.0	2577.8	2568.0	2575.3	2575.3	2563.0	2570.4	2540.8	2560.6	2545.8	2548.2
5°	2602.5	2600.0	2600.0	2602.5	2592.6	2597.5	2587.7	2577.8	2570.4	2560.6	2590.1
7.5°	2651.7	2651.7	2634.5	2639.4	2634.5	2641.9	2622.2	2602.5	2595.1	2587.7	2582.7
10°	2698.6	2693.6	2686.2	2708.4	2691.2	2681.3	2671.5	2659.1	2632.0	2622.2	2612.3
12.5°	2767.6	2765.1	2755.2	2777.4	2767.6	2777.4	2740.5	2708.4	2703.5	2671.5	2688.7
15°	2848.9	2871.1	2853.8	2853.8	2848.9	2836.6	2821.8	2807.0	2762.6	2750.3	2752.8
17.5°	2954.9	2947.5	2949.9	2949.9	2974.6	2942.5	2913.0	2876.0	2853.8	2846.4	2821.8
20°	3055.9	3065.8	3063.3	3080.6	3095.3	3060.8	3028.8	3023.9	2962.3	2972.1	2937.6
22.5°	3233.4	3226.0	3238.3	3250.6	3240.7	3235.8	3206.2	3169.3	3115.1	3090.4	3085.5
25°	3420.6	3408.3	3386.1	3415.7	3430.5	3452.7	3396.0	3376.3	3292.5	3255.5	3258.0
27.5°	3580.8	3598.1	3622.7	3635.1	3672.0	3664.6	3625.2	3561.1	3497.0	3455.2	3428.0
30°	3800.2	3810.0	3851.9	3869.2	3933.3	3950.5	3888.9	3815.0	3701.6	3647.4	3615.3
32.5°	4002.3	4071.3	4068.8	4155.1	4258.6	4330.0	4219.1	4105.8	3992.4	3928.3	3871.6
35°	4330.0	4317.7	4389.2	4480.4	4647.9	4729.3	4608.5	4477.9	4305.4	4201.9	4157.5
37.5°	4635.6	4640.5	4736.7	4882.1	5074.3	5200.0	5094.0	4879.6	4702.2	4569.1	4507.5
40°	5079.2	5089.1	5187.7	5352.8	5569.6	5705.2	5582.0	5365.1	5128.5	5025.0	5025.0
42.5°	5599.2	5641.1	5705.2	5848.1	6042.8	6193.1	6082.2	5912.2	5673.1	5540.1	5559.8
45°	6134.0	6153.7	6195.6	6407.6	6498.7	6572.7	6469.2	6390.3	6230.1	6067.5	6040.4
47.5°	6634.3	6641.7	6764.9	6831.4	6902.9	6841.3	6907.8	6804.3	6624.4	6466.7	6434.7
50°	6856.1	6843.8	7018.7	7220.8	7275.0	7166.6	7109.9	7040.9	6767.4	6577.6	6493.8
52.5°	6210.4	6281.9	6607.2	7169.1	7593.0	7684.1	7353.9	7036.0	6525.8	6156.2	6099.5
54°	5471.1	5537.6	5806.2	6639.2	7521.5	7829.5	7297.2	6622.0	5902.3	5463.7	5407.0
55°	4739.1	4665.2	5153.2	6003.4	7186.3	7701.4	7073.0	6087.2	5264.1	4862.3	4783.5
57.5°	2565.5	2577.8	2989.4	3792.8	5049.6	5904.8	5214.8	4118.1	3110.1	2659.1	2619.7
60°	813.3	833.0	1012.9	1532.9	2412.7	2880.9	2469.4	1653.6	1143.5	916.8	879.8
62.5°	253.8	263.7	288.3	428.8	660.5	943.9	739.3	443.6	330.2	303.1	308.1
65°	155.3	155.3	157.7	167.6	197.2	229.2	221.8	194.7	187.3	182.4	179.9
67.5°	101.0	98.6	103.5	110.9	115.8	118.3	125.7	133.1	130.6	125.7	125.7
70°	61.6	59.1	64.1	73.9	76.4	81.3	88.7	98.6	96.1	91.2	93.6
72.5°	34.5	34.5	37.0	44.4	51.8	56.7	64.1	71.5	73.9	71.5	71.5
75°	12.3	14.8	19.7	27.1	32.0	39.4	46.8	54.2	61.6	56.7	54.2
77.5°	4.9	4.9	9.9	17.3	24.6	32.0	44.4	51.8	56.7	51.8	46.8
80°	2.5	2.5	7.4	14.8	22.2	29.6	37.0	44.4	46.8	41.9	37.0
82.5°	2.5	2.5	7.4	14.8	22.2	27.1	39.4	44.4	49.3	44.4	37.0
85°	0.0	2.5	7.4	14.8	19.7	22.2	22.2	14.8	12.3	7.4	7.4
87.5°	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)