

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: P531835

Luminaire Tested: **GALN-SA7A-830-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-830-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15191 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

Input Watts (W): 215
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



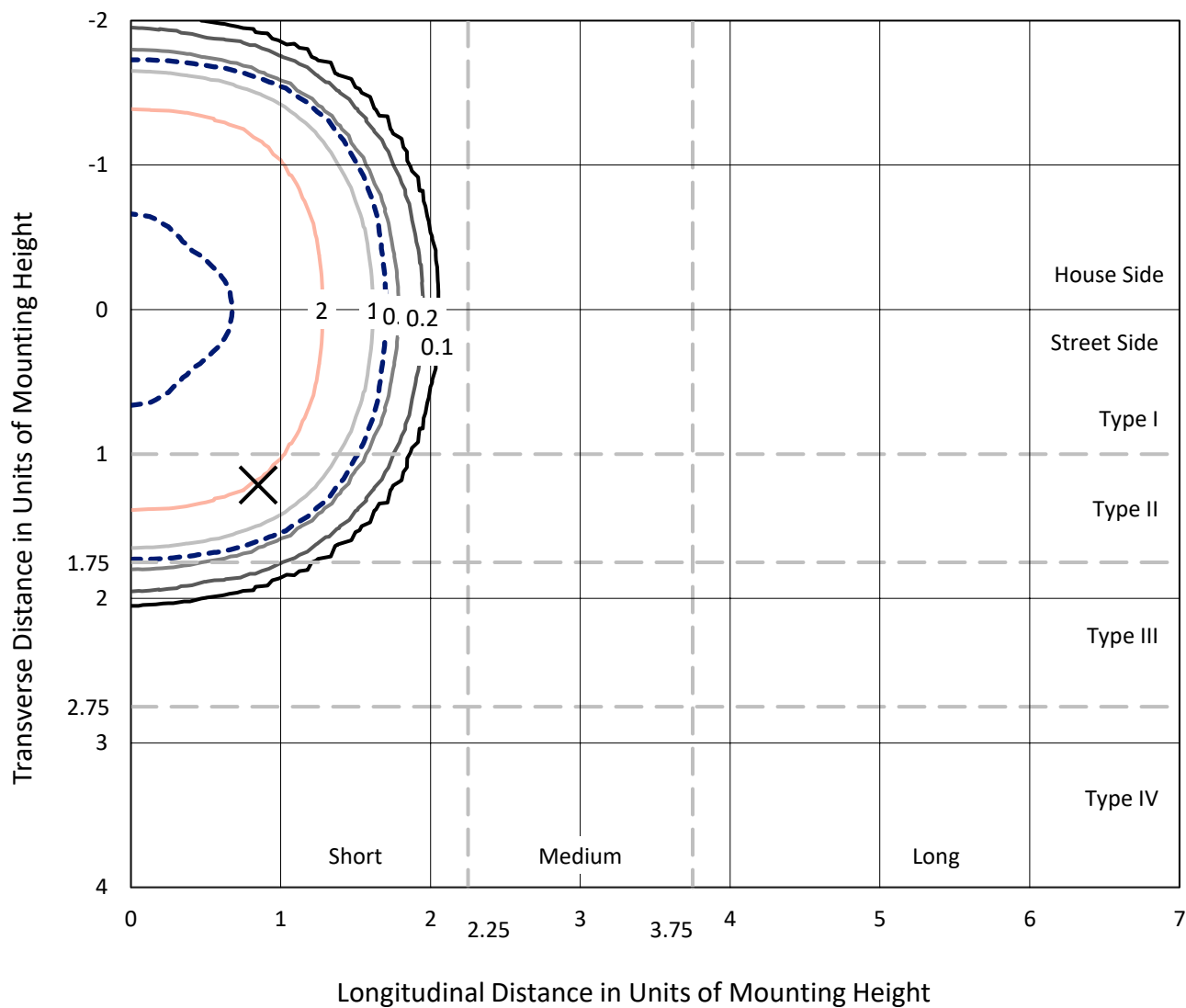
REPORT NUMBER: P531835

CATALOG NUMBER: GALN-SA7A-830-U-5MQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

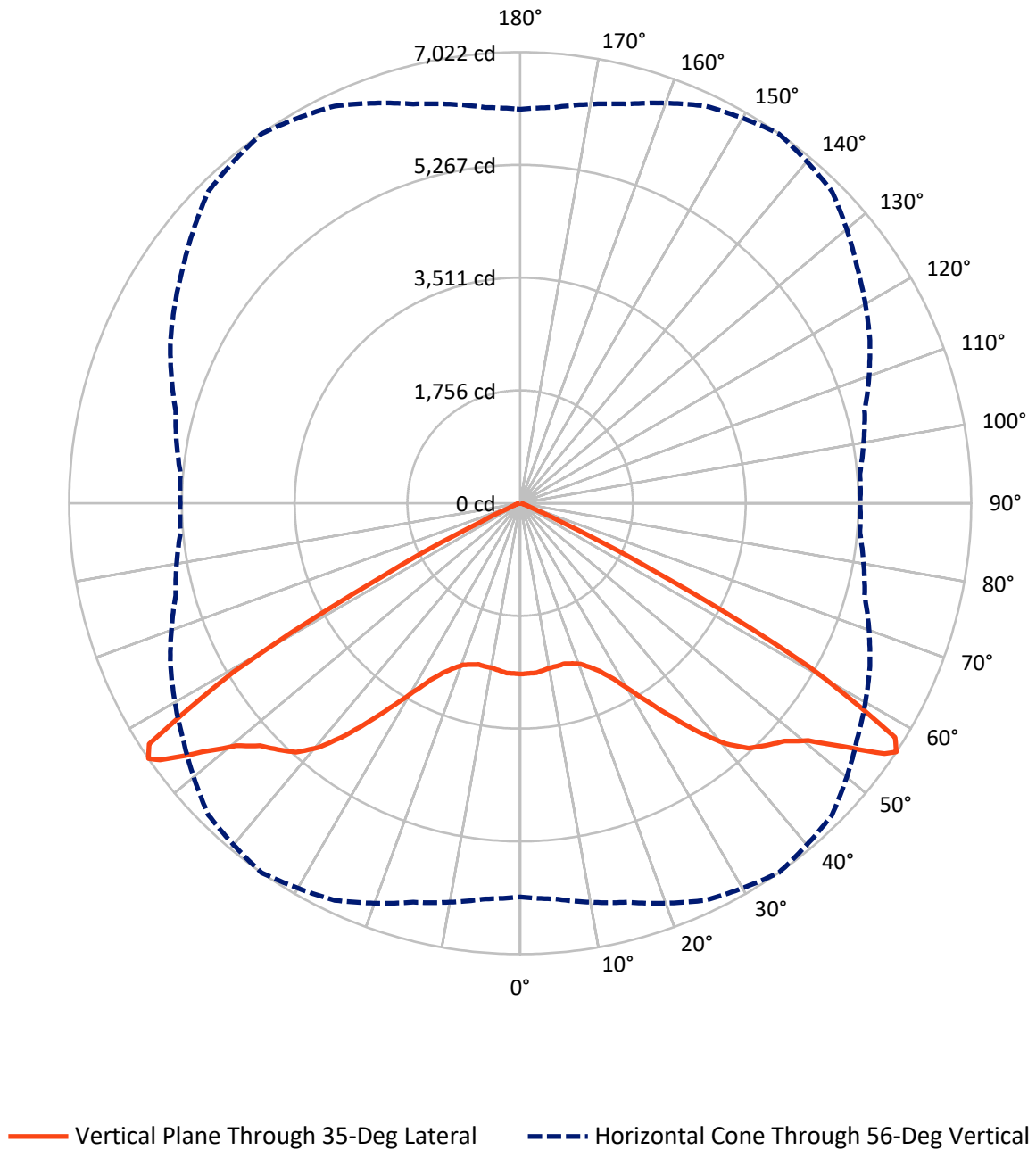


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc

Type V - Short - N/A

REPORT NUMBER: P531835
CATALOG NUMBER: GALN-SA7A-830-U-5MQ-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P531835

CATALOG NUMBER: GALN-SA7A-830-U-5MQ-GRSBK

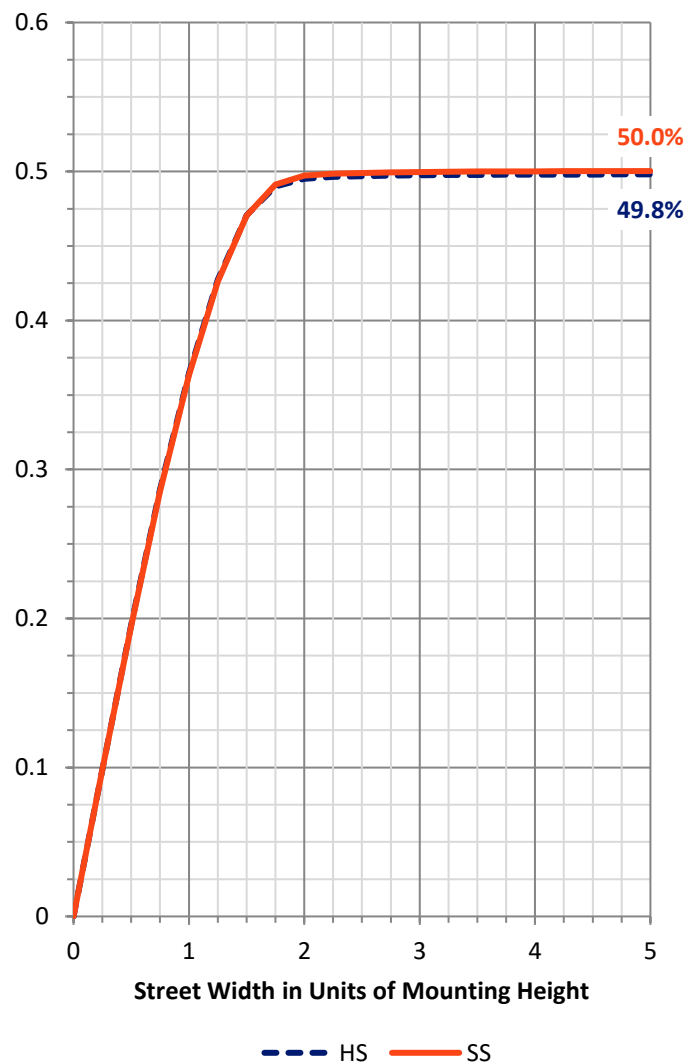
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7595.5	0.0	7595.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7595.5	0.0	7595.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15191.0	0.0	15191.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.2	1.6
10°-20°	730.4	4.8
20°-30°	1322.6	8.7
30°-40°	2452.6	16.1
40°-50°	4025.7	26.5
50°-60°	5186.3	34.1
60°-70°	1143.0	7.5
70°-80°	66.3	0.4
80°-90°	14.0	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°	15191.0	100.0
0°-180°	15191.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531835

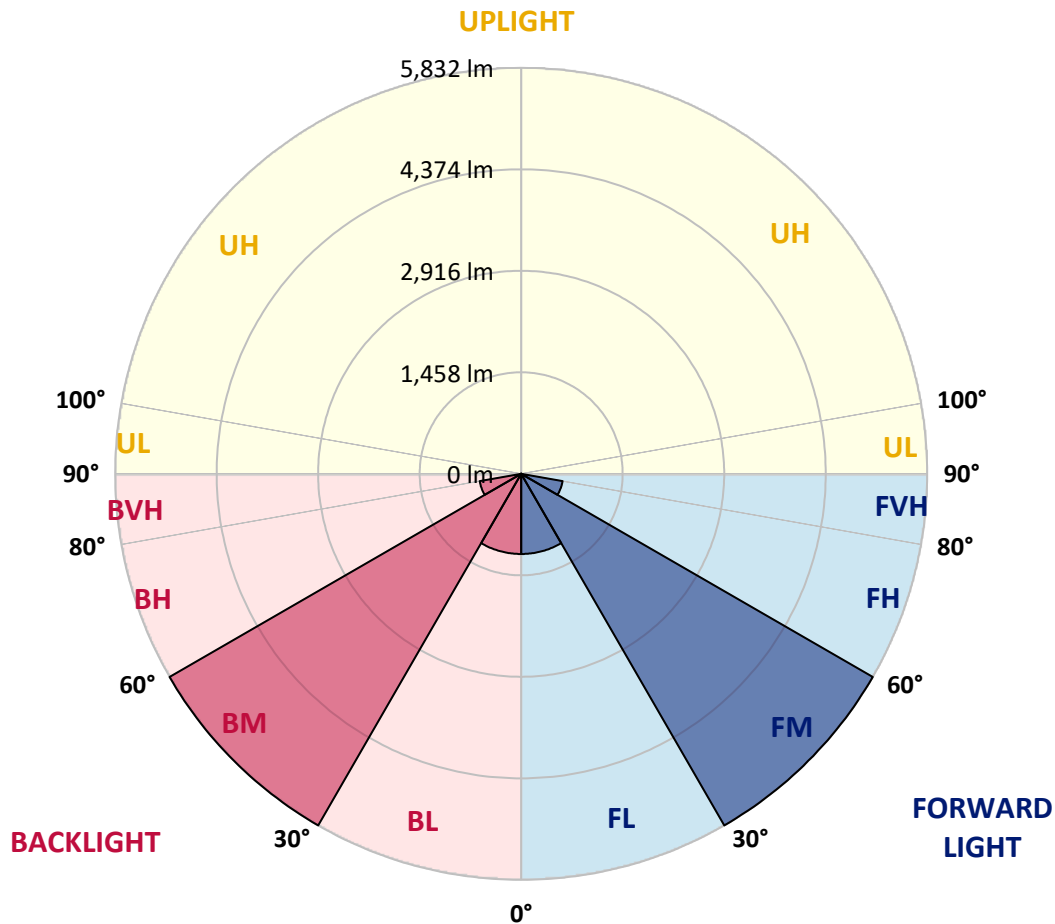
CATALOG NUMBER: GALN-SA7A-830-U-5MQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1151.6	7.6			
FM	(30°-60°)	5832.3	38.4			
FH	(60°-80°)	604.7	4.0			G0/660
FVH	(80°-90°)	7.0	0.0			G0/10
BL	(0°-30°)	1151.6	7.6	B3/2500		
BM	(30°-60°)	5832.3	38.4	B4/8500		
BH	(60°-80°)	604.7	4.0	B2/1000		G0/660
BVH	(80°-90°)	7.0	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°	2661.8	2661.8	2661.8	2661.8	2661.8	2661.8	2661.8	2661.8	2661.8	2661.8	2661.8
2.5°	2667.3	2667.3	2670.0	2672.8	2653.5	2645.3	2648.0	2642.5	2639.8	2648.0	2648.0
5°	2659.0	2659.0	2650.8	2653.5	2653.5	2628.8	2628.8	2634.3	2634.3	2617.7	2612.2
7.5°	2637.0	2631.5	2620.5	2634.3	2626.0	2626.0	2606.7	2593.0	2587.5	2598.5	2587.5
10°	2590.2	2593.0	2604.0	2609.5	2604.0	2620.5	2587.5	2568.2	2548.9	2540.7	2540.7
12.5°	2568.2	2584.7	2568.2	2582.0	2601.2	2587.5	2568.2	2554.4	2526.9	2515.9	2515.9
15°	2565.4	2576.5	2582.0	2601.2	2593.0	2598.5	2559.9	2543.4	2502.1	2482.9	2474.6
17.5°	2562.7	2576.5	2584.7	2620.5	2626.0	2628.8	2598.5	2548.9	2513.1	2493.9	2474.6
20°	2593.0	2598.5	2615.0	2650.8	2672.8	2711.3	2656.3	2604.0	2526.9	2504.9	2496.6
22.5°	2631.5	2659.0	2675.6	2714.1	2771.9	2804.9	2733.4	2667.3	2587.5	2559.9	2526.9
25°	2755.4	2749.9	2777.4	2857.2	2904.0	2928.8	2871.0	2774.6	2670.0	2637.0	2642.5
27.5°	2909.5	2915.0	2939.8	3027.9	3096.7	3135.2	3066.4	2939.8	2838.0	2782.9	2777.4
30°	3110.5	3105.0	3132.5	3250.9	3374.7	3432.5	3311.4	3162.8	3063.7	2992.1	3008.6
32.5°	3322.4	3325.2	3402.2	3509.6	3710.5	3823.4	3628.0	3446.3	3297.6	3248.1	3223.3
35°	3636.2	3650.0	3710.5	3875.7	4098.7	4244.6	4029.8	3812.4	3641.7	3550.9	3561.9
37.5°	4024.3	4010.6	4112.4	4291.3	4525.3	4632.7	4451.0	4203.3	4029.8	3969.3	4007.8
40°	4437.2	4451.0	4503.3	4665.7	4927.2	4998.8	4729.0	4594.1	4442.7	4412.5	4459.3
42.5°	4850.1	4841.9	4880.4	5026.3	5216.2	5166.7	5007.0	4927.2	4819.8	4759.3	4822.6
45°	5152.9	5139.2	5210.7	5309.8	5378.6	5285.0	5213.5	5185.9	5130.9	5064.8	5122.6
47.5°	5447.4	5436.4	5505.3	5532.8	5538.3	5414.4	5428.2	5477.7	5340.1	5202.5	5268.5
50°	5697.9	5678.7	5764.0	5824.6	5810.8	5612.6	5662.2	5612.6	5397.9	5235.5	5210.7
52.5°	6116.3	6124.6	6215.4	6325.5	6292.5	6127.3	6055.8	5830.1	5554.8	5408.9	5323.6
55°	6380.6	6339.3	6496.2	6845.8	6884.3	6713.7	6397.1	6064.0	5651.1	5472.2	5450.2
56°	6132.9	6185.2	6432.9	6823.8	7022.0	6865.1	6405.4	6006.2	5552.0	5309.8	5293.3
57.5°	5502.5	5475.0	5810.8	6344.8	6884.3	6818.3	6179.6	5593.3	5064.8	4792.3	4759.3
60°	3424.3	3504.1	3798.6	4459.3	5180.4	5213.5	4580.4	4076.6	3460.1	3217.8	3275.6
62.5°	1340.5	1271.7	1456.1	1948.9	2444.3	2554.4	2315.0	1924.1	1580.0	1340.5	1324.0
65°	311.0	302.8	341.3	470.7	657.9	762.5	723.9	520.2	382.6	363.3	335.8
67.5°	176.2	176.2	167.9	167.9	184.4	195.4	187.2	184.4	192.7	200.9	198.2
70°	123.9	121.1	115.6	118.4	112.9	112.9	121.1	134.9	145.9	145.9	148.6
72.5°	74.3	74.3	74.3	82.6	82.6	82.6	90.8	101.8	104.6	101.8	99.1
75°	33.0	33.0	38.5	46.8	52.3	55.1	63.3	68.8	74.3	68.8	63.3
77.5°	8.3	8.3	13.8	19.3	24.8	30.3	41.3	49.5	52.3	49.5	41.3
80°	2.8	2.8	5.5	13.8	24.8	30.3	41.3	44.0	46.8	41.3	33.0
82.5°	2.8	2.8	5.5	13.8	19.3	24.8	33.0	38.5	41.3	35.8	33.0
85°	0.0	2.8	5.5	11.0	16.5	22.0	22.0	16.5	13.8	8.3	11.0
87.5°	0.0	0.0	2.8	2.8	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)