

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P637467

Luminaire Tested: GWS-SA4C-830-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637467  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-830-U-5NQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13979.4 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

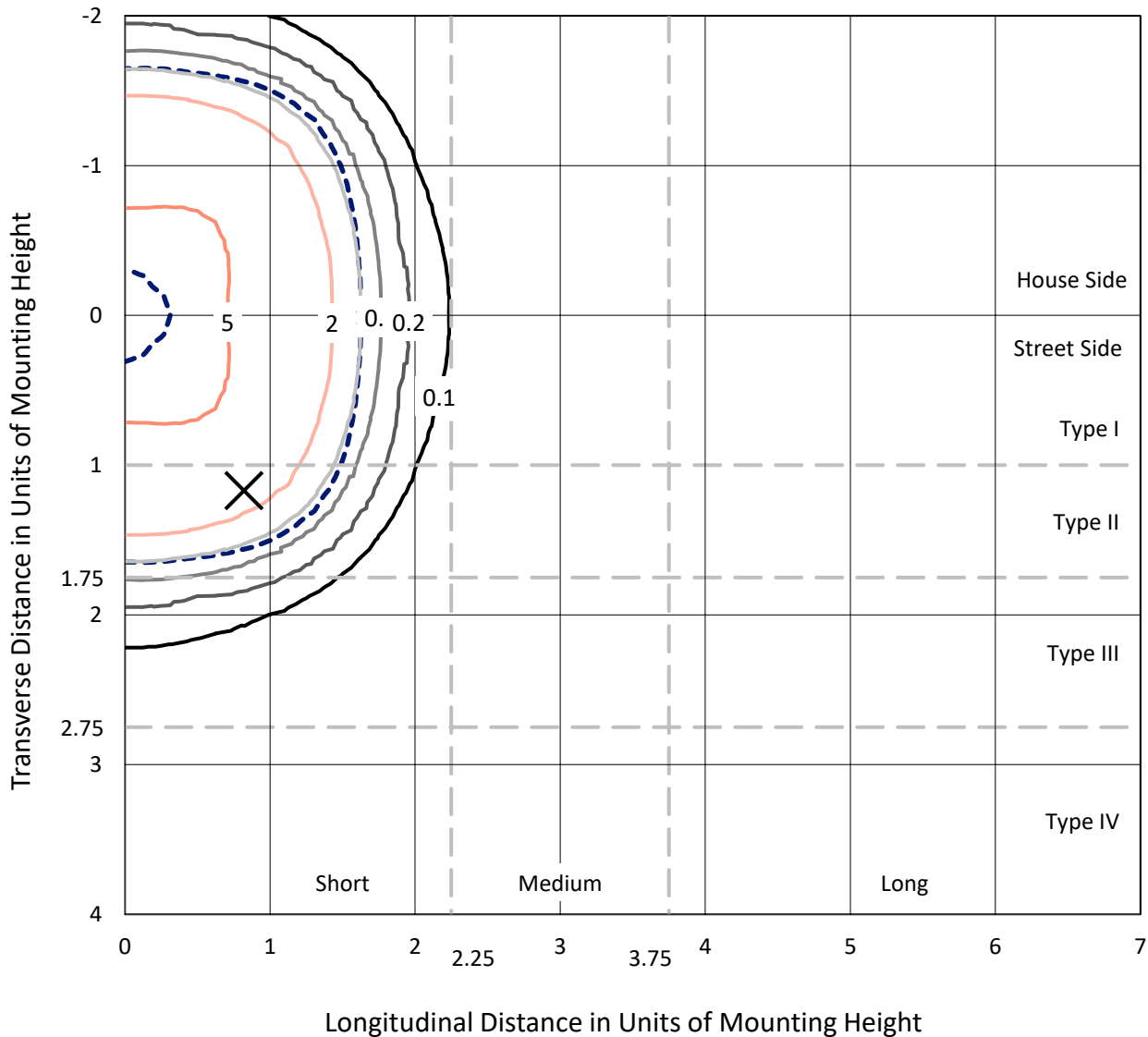


REPORT NUMBER: P637467

CATALOG NUMBER: GWS-SA4C-830-U-5NQ-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

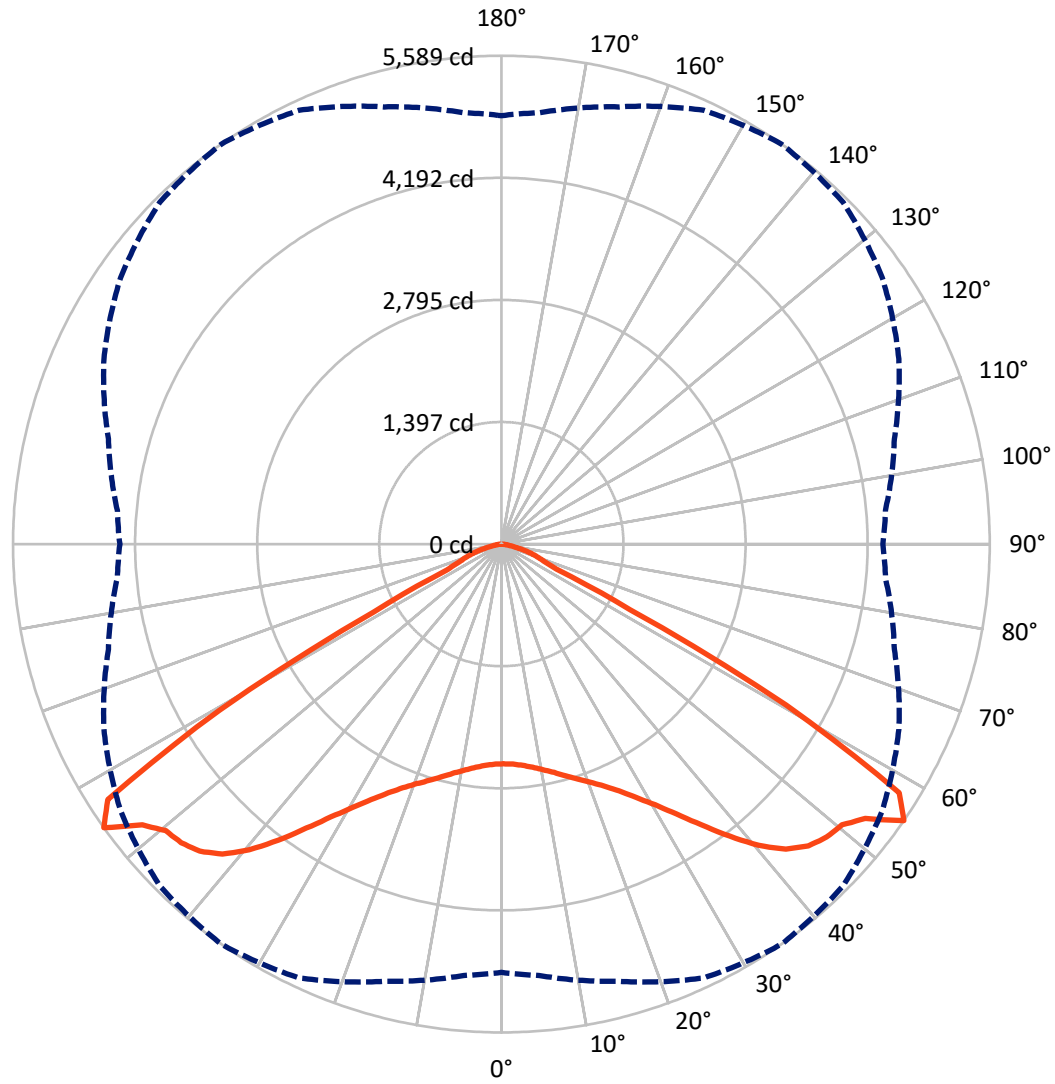
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 fc  
 Type V - Short - N/A

REPORT NUMBER: P637467  
CATALOG NUMBER: GWS-SA4C-830-U-5NQ-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6989.7	0.0	6989.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6989.7	0.0	6989.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13979.4	0.0	13979.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.3	1.8
10°-20°	781.0	5.6
20°-30°	1445.4	10.3
30°-40°	2417.9	17.3
40°-50°	3684.5	26.4
50°-60°	4127.4	29.5
60°-70°	976.6	7.0
70°-80°	263.3	1.9
80°-90°	37.9	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°	13979.4	100.0
0°-180°	13979.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P637467

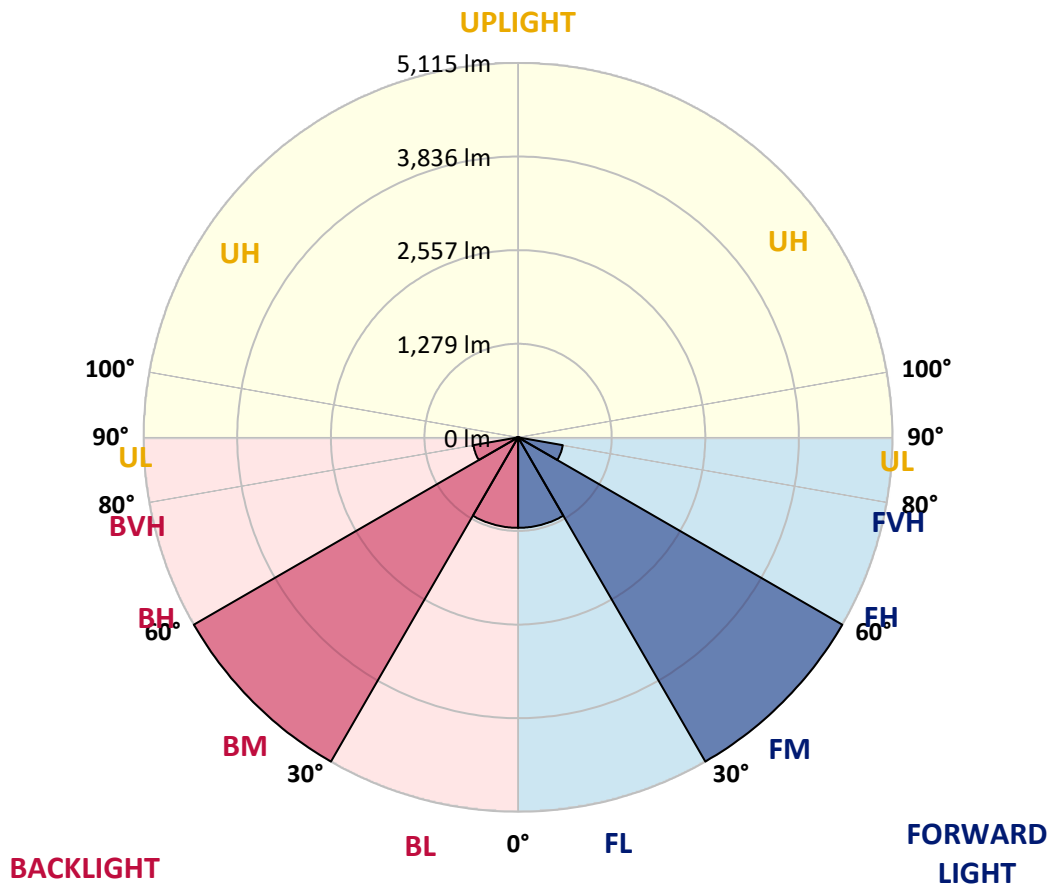
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1235.9	8.8			
FM (30°-60°)	5115.0	36.6			
FH (60°-80°)	619.9	4.4			G0/660
FVH (80°-90°)	18.9	0.1			G1/100
BL (0°-30°)	1235.9	8.8	B3/2500		
BM (30°-60°)	5115.0	36.6	B4/8500		
BH (60°-80°)	619.9	4.4	B2/1000		G0/660
BVH (80°-90°)	18.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type V Short





REPORT NUMBER: P637467

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2514.9	2514.9	2514.9	2514.9	2514.9	2514.9	2514.9	2514.9	2514.9	2514.9	2514.9
2.5°	2509.4	2509.4	2513.8	2519.4	2520.5	2531.5	2529.3	2524.9	2522.7	2518.2	2528.2
5°	2537.0	2538.1	2541.5	2544.8	2542.6	2551.4	2548.1	2542.6	2539.3	2533.7	2543.7
7.5°	2573.5	2573.5	2576.8	2581.3	2579.0	2592.3	2585.7	2577.9	2572.4	2565.8	2574.6
10°	2606.7	2608.9	2612.2	2621.1	2625.5	2639.8	2635.4	2624.4	2615.5	2607.8	2617.7
12.5°	2656.4	2658.6	2662.0	2674.1	2681.9	2696.2	2689.6	2674.1	2660.9	2649.8	2660.9
15°	2720.5	2718.3	2727.2	2742.7	2752.6	2765.9	2758.1	2731.6	2713.9	2699.5	2710.6
17.5°	2785.8	2784.7	2793.5	2813.4	2827.8	2845.5	2832.2	2801.2	2782.5	2764.8	2775.8
20°	2856.5	2859.8	2868.7	2887.5	2908.5	2931.7	2920.6	2887.5	2866.5	2846.6	2855.4
22.5°	2943.9	2945.0	2954.9	2979.2	3006.9	3029.0	3022.3	2981.4	2954.9	2933.9	2945.0
25°	3048.9	3047.8	3061.0	3089.8	3128.5	3150.6	3136.2	3090.9	3062.1	3037.8	3046.7
27.5°	3169.4	3168.3	3188.2	3225.7	3281.0	3312.0	3282.1	3225.7	3185.9	3151.7	3159.4
30°	3320.8	3317.5	3339.6	3390.5	3462.3	3514.3	3470.1	3391.6	3339.6	3303.1	3310.9
32.5°	3488.8	3493.3	3520.9	3589.4	3680.1	3747.5	3681.2	3593.9	3524.2	3471.2	3480.0
35°	3673.5	3673.5	3729.8	3815.0	3944.3	4033.8	3931.0	3805.0	3712.1	3639.2	3641.4
37.5°	3879.1	3881.3	3955.4	4072.5	4241.7	4346.7	4207.4	4051.5	3938.8	3860.3	3855.9
40°	4130.0	4136.6	4212.9	4343.4	4533.5	4629.7	4480.4	4327.9	4212.9	4120.1	4111.2
42.5°	4413.0	4415.2	4495.9	4613.1	4773.4	4830.9	4713.7	4588.8	4494.8	4410.8	4402.0
45°	4682.7	4677.2	4746.9	4834.2	4927.1	4932.6	4867.4	4816.5	4734.7	4662.8	4649.6
47.5°	4892.8	4888.4	4951.4	4998.9	5010.0	4955.8	4976.8	4984.5	4889.5	4792.2	4766.8
50°	5021.0	5029.9	5089.6	5116.1	5050.9	4962.4	5042.0	5022.1	4886.2	4759.0	4718.1
52.5°	5098.4	5111.7	5215.6	5283.0	5215.6	5131.6	5142.6	5025.4	4829.8	4661.7	4608.7
55°	4902.7	4955.8	5180.2	5478.7	5589.2	5530.6	5320.6	5018.8	4656.2	4411.9	4366.6
57.5°	3633.7	3717.7	4050.4	4697.1	5369.2	5582.6	4969.1	4207.4	3658.0	3344.0	3317.5
60°	1855.0	1948.9	2215.4	2879.7	3744.2	4044.9	3461.2	2694.0	2141.3	1887.0	1858.3
62.5°	757.2	772.7	860.1	1116.5	1654.9	1909.1	1677.0	1177.3	884.4	814.7	815.8
65°	595.8	599.2	594.7	610.2	693.1	769.4	710.8	624.6	609.1	616.8	611.3
67.5°	519.6	520.7	517.4	517.4	520.7	517.4	524.0	527.3	529.5	538.4	532.8
70°	434.4	435.6	435.6	437.8	436.7	431.1	441.1	445.5	446.6	452.1	448.8
72.5°	336.1	339.4	341.6	342.7	341.6	338.3	343.8	351.5	350.4	356.0	350.4
75°	227.7	232.1	234.4	238.8	237.7	237.7	244.3	247.6	244.3	248.7	244.3
77.5°	129.3	132.7	139.3	143.7	148.1	151.4	155.9	158.1	157.0	159.2	157.0
80°	75.2	76.3	81.8	84.0	89.5	95.1	99.5	101.7	102.8	103.9	102.8
82.5°	43.1	44.2	46.4	48.6	53.1	57.5	61.9	65.2	65.2	66.3	65.2
85°	21.0	21.0	22.1	23.2	25.4	28.7	32.1	35.4	36.5	36.5	36.5
87.5°	3.3	3.3	4.4	4.4	5.5	6.6	8.8	11.1	12.2	12.2	12.2
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)