

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: P638948

Luminaire Tested: GWS-SA4F-830-U-5MQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-830-U-5MQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16514.3 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

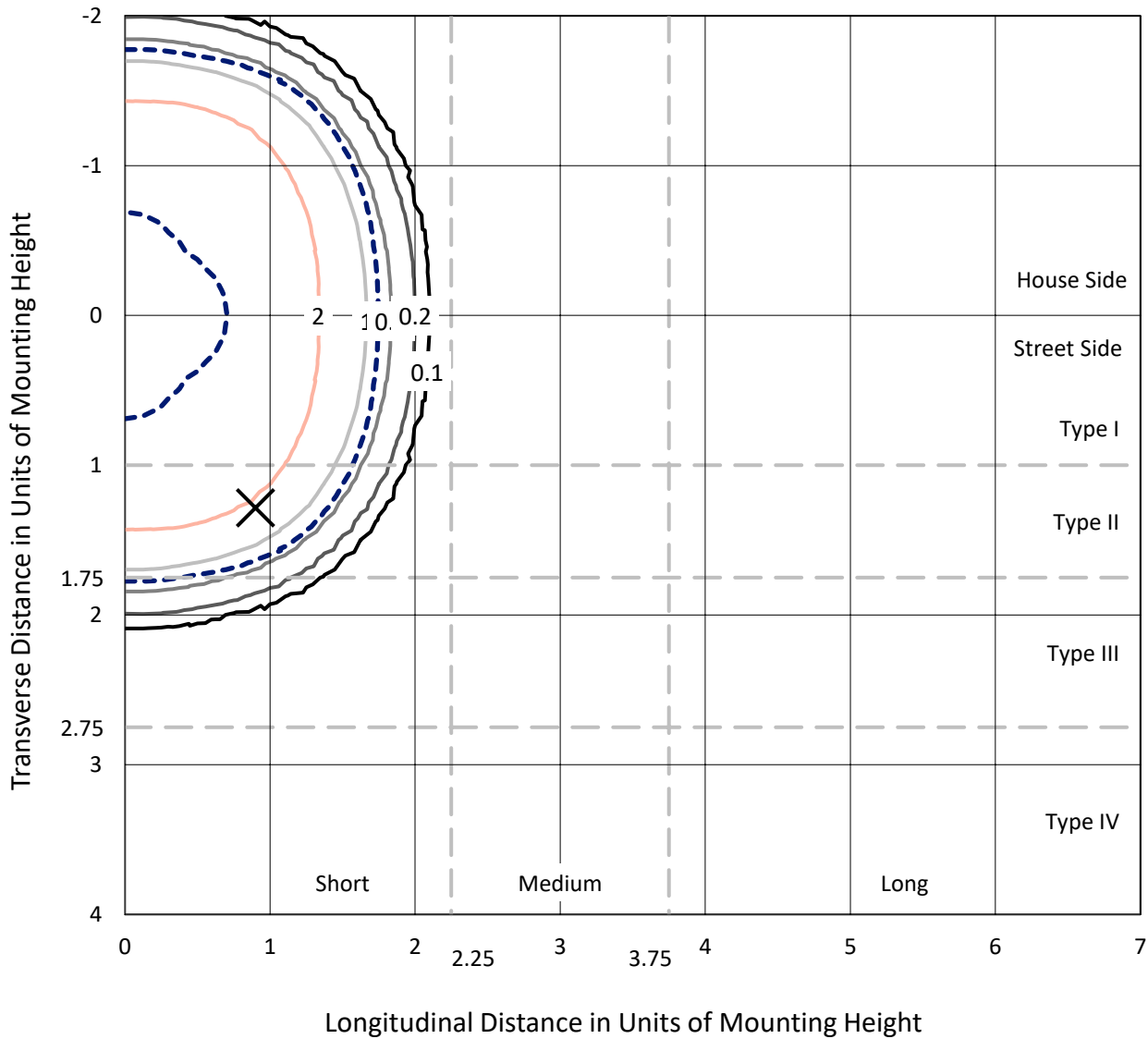
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638948
 CATALOG NUMBER: GWS-SA4F-830-U-5MQ-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

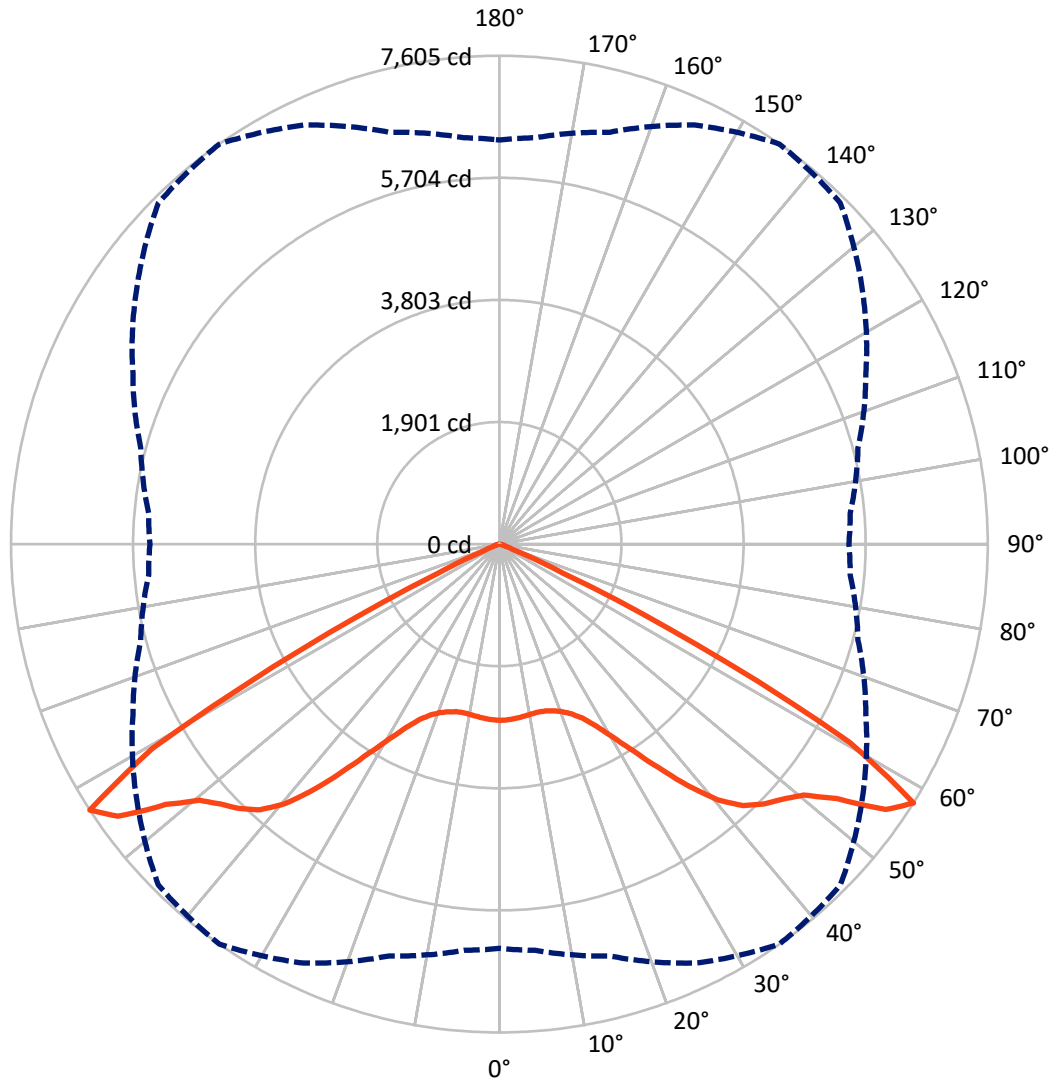
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

REPORT NUMBER: P638948
CATALOG NUMBER: GWS-SA4F-830-U-5MQ-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P638948

CATALOG NUMBER: GWS-SA4F-830-U-5MQ-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8257.1	0.0	8257.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8257.1	0.0	8257.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	16514.3	0.0	16514.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.7	1.6
10°-20°	760.9	4.6
20°-30°	1375.4	8.3
30°-40°	2566.0	15.5
40°-50°	4304.5	26.1
50°-60°	5684.5	34.4
60°-70°	1509.7	9.1
70°-80°	53.6	0.3
80°-90°	1.0	0.0
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°	16514.3	100.0
0°-180°	16514.3	100.0

Coefficient of Utilization



REPORT NUMBER: P638948

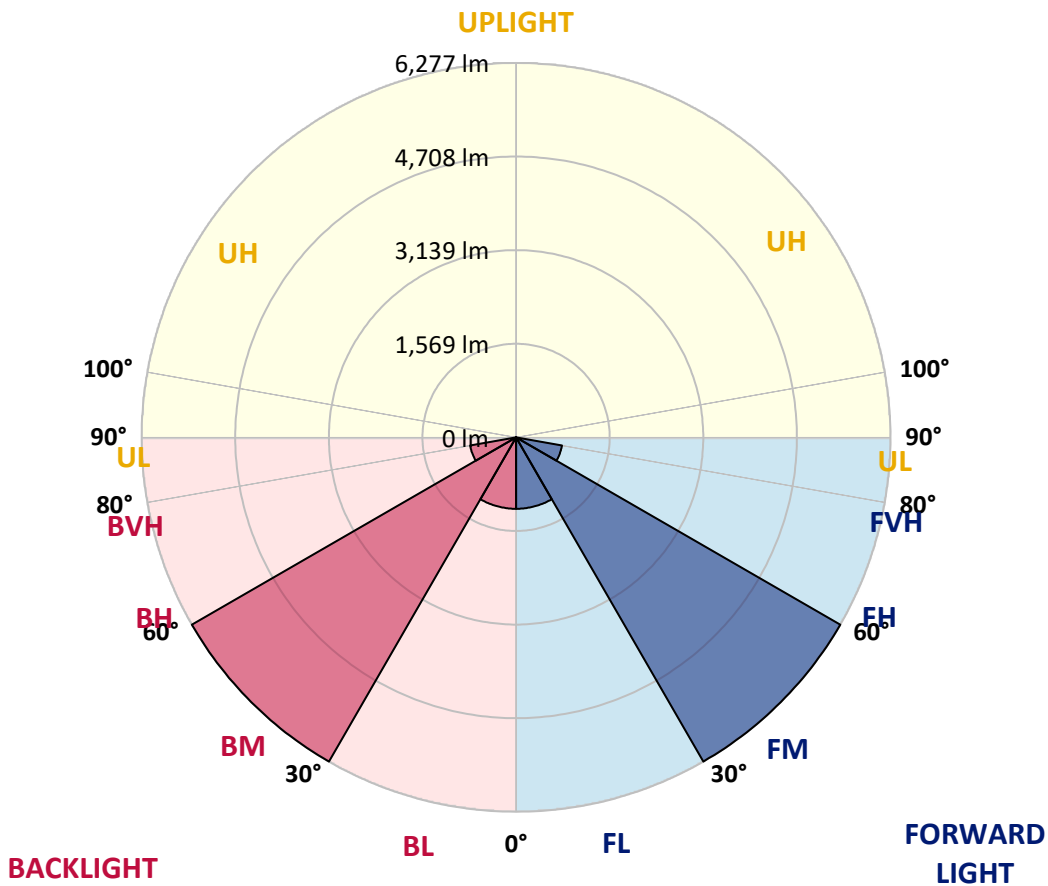
CATALOG NUMBER: GWS-SA4F-830-U-5MQ-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1197.5	7.3			
FM (30°-60°)	6277.5	38.0			
FH (60°-80°)	781.6	4.7			G1/1800
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	1197.5	7.3	B3/2500		
BM (30°-60°)	6277.5	38.0	B4/8500		
BH (60°-80°)	781.6	4.7	B2/1000		G1/1800
BVH (80°-90°)	0.5	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-G1

Type V Short





REPORT NUMBER: P638948

CATALOG NUMBER: GWS-SA4F-830-U-5MQ-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2745.7	2745.7	2745.7	2745.7	2745.7	2745.7	2745.7	2745.7	2745.7	2745.7	2745.7
2.5°	2726.3	2724.3	2732.1	2737.9	2737.9	2751.5	2747.6	2743.7	2739.8	2734.0	2747.6
5°	2722.4	2720.5	2726.3	2730.1	2726.3	2737.9	2730.1	2722.4	2718.5	2710.8	2726.3
7.5°	2705.0	2706.9	2710.8	2714.6	2708.8	2718.5	2708.8	2697.2	2687.5	2679.8	2693.3
10°	2677.8	2679.8	2683.6	2691.4	2693.3	2706.9	2693.3	2672.0	2658.5	2646.8	2660.4
12.5°	2664.3	2666.2	2672.0	2681.7	2683.6	2701.1	2683.6	2652.6	2633.3	2619.7	2633.3
15°	2668.1	2672.0	2679.8	2691.4	2695.3	2712.7	2689.5	2648.8	2621.6	2604.2	2615.8
17.5°	2681.7	2685.6	2697.2	2716.6	2730.1	2747.6	2718.5	2666.2	2629.4	2604.2	2615.8
20°	2699.1	2705.0	2724.3	2755.3	2784.4	2815.4	2778.6	2706.9	2658.5	2627.5	2637.1
22.5°	2747.6	2753.4	2780.5	2821.2	2869.7	2908.4	2863.8	2772.8	2706.9	2666.2	2675.9
25°	2846.4	2852.2	2887.1	2939.4	3001.4	3051.8	2995.6	2881.3	2796.0	2749.5	2753.4
27.5°	3001.4	3007.2	3047.9	3121.6	3204.9	3276.6	3195.2	3061.5	2964.6	2910.4	2910.4
30°	3197.1	3204.9	3259.1	3357.9	3487.8	3582.7	3472.3	3309.5	3185.5	3111.9	3113.8
32.5°	3449.0	3441.3	3518.8	3654.4	3838.5	3964.4	3801.7	3604.0	3451.0	3348.3	3357.9
35°	3772.6	3770.7	3857.9	4041.9	4282.2	4433.3	4239.6	3983.8	3799.7	3695.1	3697.0
37.5°	4189.2	4187.3	4288.0	4487.6	4776.3	4902.3	4685.2	4425.6	4228.0	4127.2	4138.8
40°	4677.5	4665.9	4755.0	4946.8	5235.5	5316.9	5080.5	4871.3	4681.4	4617.4	4648.4
42.5°	5142.5	5117.3	5169.7	5344.0	5566.9	5578.5	5400.2	5256.8	5127.0	5076.6	5096.0
45°	5516.5	5497.1	5545.6	5646.3	5774.2	5716.1	5630.8	5586.2	5481.6	5427.4	5444.8
47.5°	5795.5	5795.5	5853.6	5915.6	5935.0	5828.5	5842.0	5842.0	5737.4	5652.1	5630.8
50°	6035.8	6053.2	6140.4	6204.4	6140.4	6004.8	6082.3	6066.8	5853.6	5683.1	5638.6
52.5°	6419.4	6436.9	6570.6	6657.8	6586.1	6452.4	6462.1	6268.3	5954.4	5752.9	5683.1
55°	6826.3	6869.0	7062.7	7295.3	7297.2	7159.6	6903.8	6560.9	6179.2	5960.2	5888.5
57.5°	6293.5	6351.6	6640.3	7200.3	7605.3	7510.3	6900.0	6297.4	5781.9	5483.6	5442.9
60°	4330.6	4431.4	4720.1	5485.5	6266.4	6303.2	5582.4	4906.1	4315.1	3947.0	3954.7
62.5°	1829.1	1931.8	2094.6	2724.3	3441.3	3485.8	3137.1	2652.6	2170.2	1904.7	1945.4
65°	430.2	459.2	507.7	753.7	1092.8	1143.2	1054.1	821.6	606.5	513.5	523.2
67.5°	188.0	191.8	182.1	193.8	240.3	246.1	238.3	209.3	197.6	201.5	201.5
70°	131.8	133.7	125.9	120.1	114.3	106.6	110.4	122.1	131.8	139.5	137.6
72.5°	81.4	83.3	85.3	85.3	79.4	71.7	75.6	83.3	85.3	87.2	85.3
75°	40.7	42.6	46.5	48.4	46.5	44.6	44.6	46.5	46.5	44.6	44.6
77.5°	7.8	9.7	13.6	15.5	15.5	15.5	15.5	15.5	17.4	15.5	15.5
80°	1.9	1.9	3.9	1.9	1.9	1.9	1.9	1.9	1.9	3.9	3.9
82.5°	1.9	1.9	1.9	1.9	0.0	0.0	1.9	1.9	1.9	1.9	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9
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)