

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: P638456

Luminaire Tested: GWS-SA4E-830-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638456  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-830-U-5NQ-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

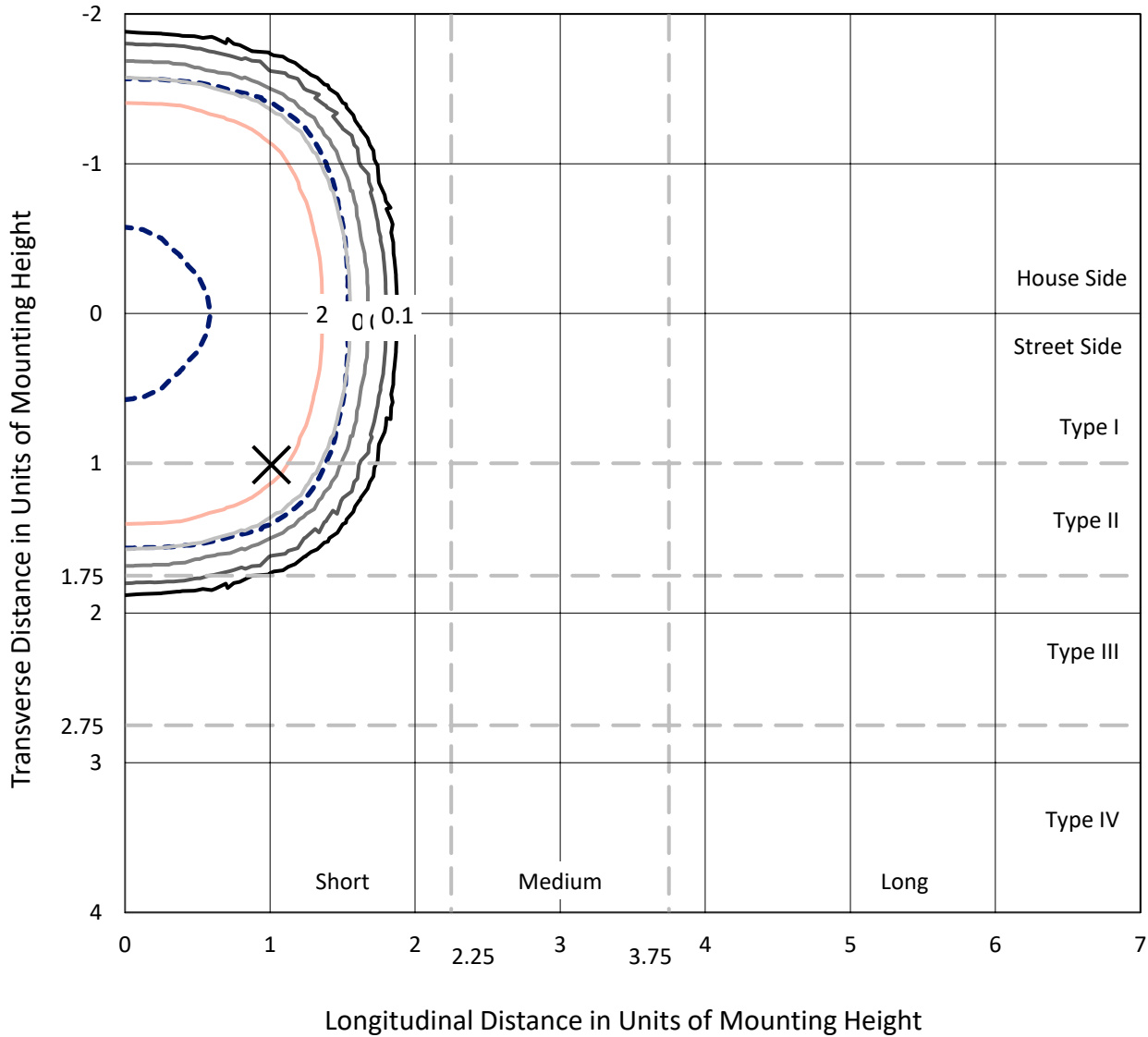
Lumens per Lamp: N/A  
Luminaire Lumens: 17106.7 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P638456  
 CATALOG NUMBER: GWS-SA4E-830-U-5NQ-W-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

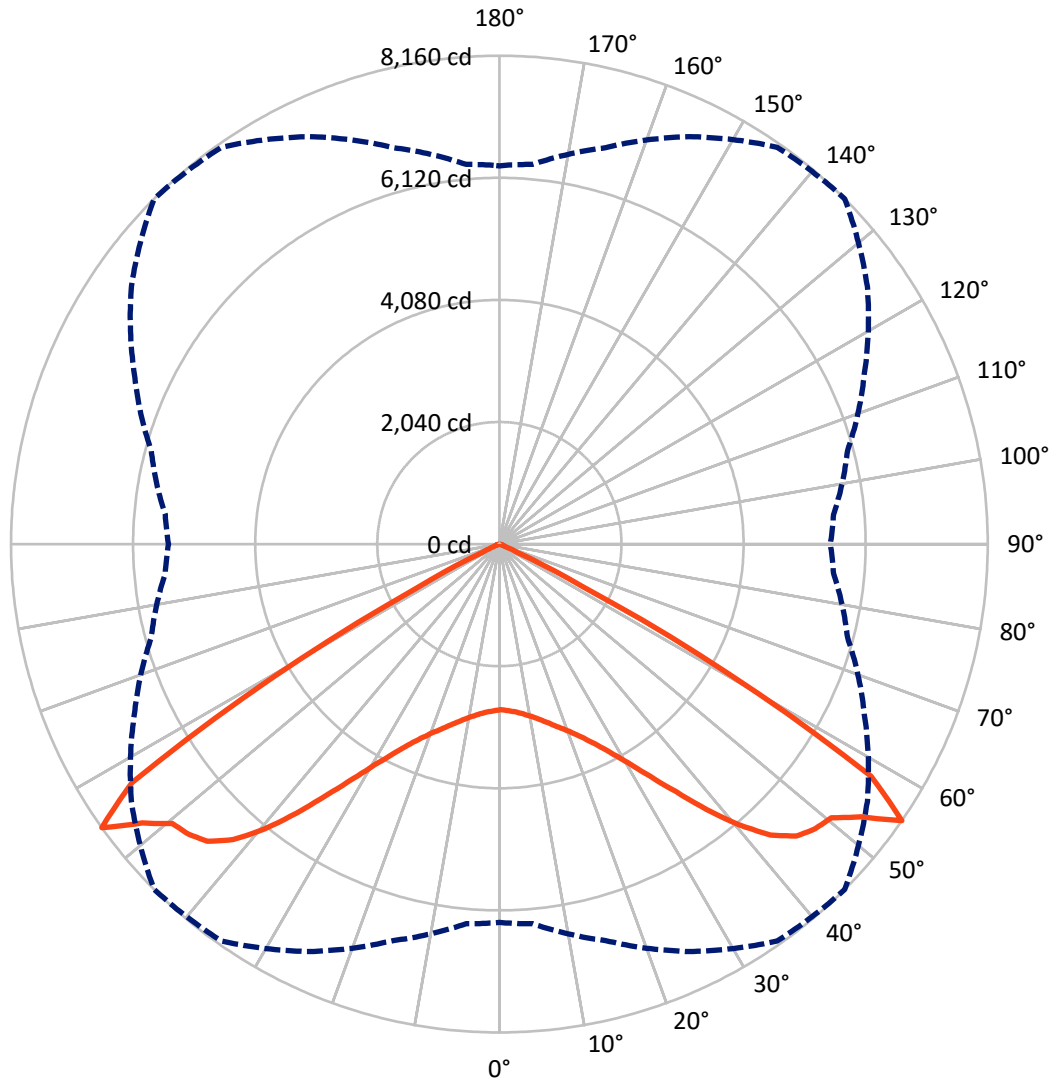
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type V - Short - N/A

REPORT NUMBER: P638456  
CATALOG NUMBER: GWS-SA4E-830-U-5NQ-W-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P638456

CATALOG NUMBER: GWS-SA4E-830-U-5NQ-W-GRSBK

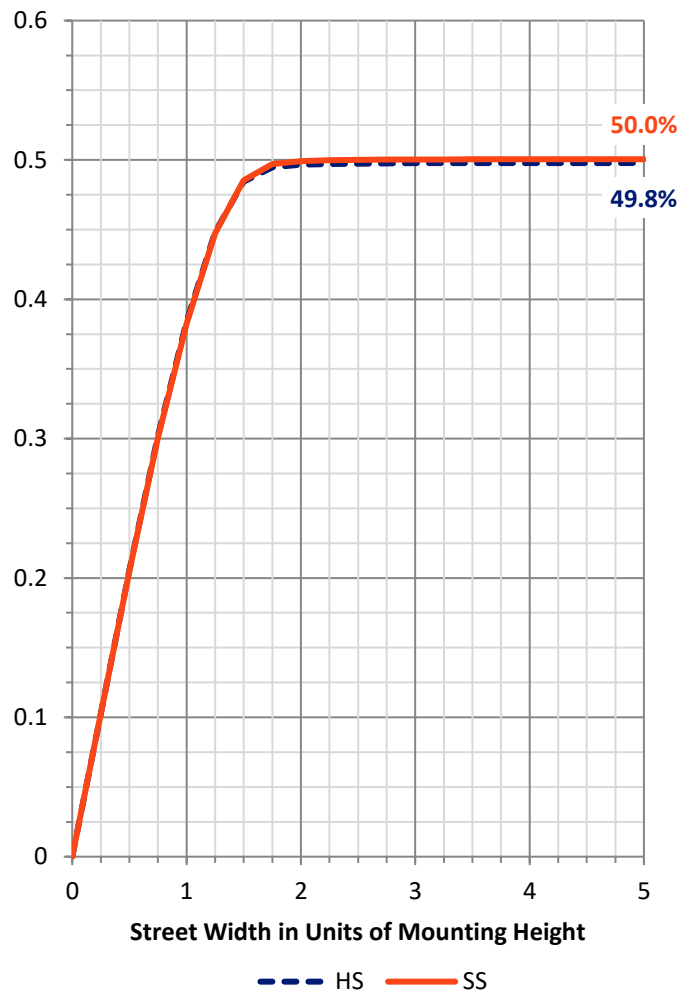
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8553.3	0.0	8553.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8553.3	0.0	8553.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17106.7	0.0	17106.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.0	1.6
10°-20°	878.4	5.1
20°-30°	1701.2	9.9
30°-40°	3047.8	17.8
40°-50°	5109.8	29.9
50°-60°	5469.8	32.0
60°-70°	601.1	3.5
70°-80°	26.4	0.2
80°-90°	1.2	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°	17106.7	100.0
0°-180°	17106.7	100.0

**Coefficient of Utilization**



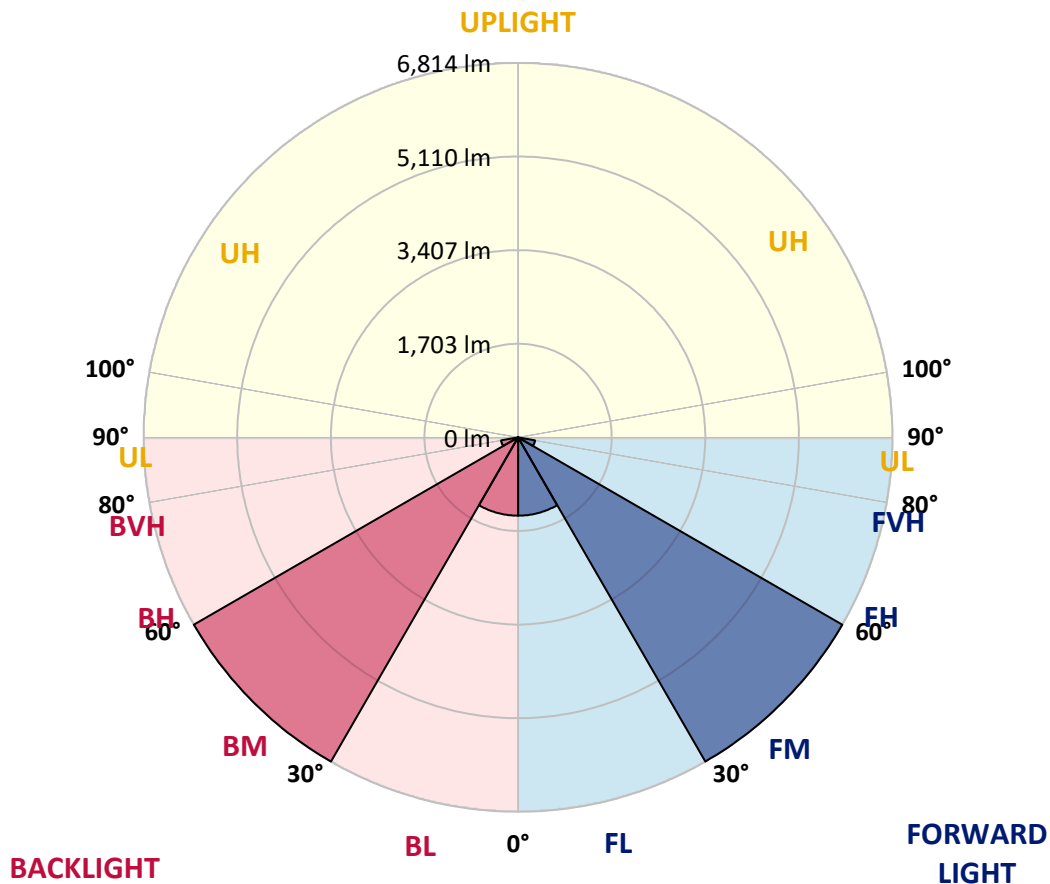
REPORT NUMBER: P638456

CATALOG NUMBER: GWS-SA4E-830-U-5NQ-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1425.3	8.3			
FM (30°-60°)	6813.7	39.8			
FH (60°-80°)	313.8	1.8			G0/660
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	1425.3	8.3	B3/2500		
BM (30°-60°)	6813.7	39.8	B4/8500		
BH (60°-80°)	313.8	1.8	B1/500		G0/660
BVH (80°-90°)	0.6	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





REPORT NUMBER: P638456

CATALOG NUMBER: GWS-SA4E-830-U-5NQ-W-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2765.8	2765.8	2765.8	2765.8	2765.8	2765.8	2765.8	2765.8	2765.8	2765.8	2765.8
2.5°	2760.6	2760.6	2767.6	2772.8	2772.8	2786.7	2781.5	2776.3	2776.3	2769.3	2783.3
5°	2800.7	2798.9	2805.9	2809.4	2802.4	2816.4	2807.7	2802.4	2798.9	2792.0	2805.9
7.5°	2844.2	2846.0	2847.7	2854.7	2851.2	2865.2	2858.2	2847.7	2844.2	2833.8	2847.7
10°	2896.5	2896.5	2900.0	2908.7	2910.5	2927.9	2920.9	2908.7	2898.3	2887.8	2901.8
12.5°	2962.8	2964.5	2969.7	2981.9	2988.9	3008.1	2997.6	2973.2	2957.5	2945.3	2961.0
15°	3058.6	3056.9	3063.8	3081.3	3090.0	3103.9	3088.2	3055.1	3036.0	3022.0	3032.5
17.5°	3163.2	3163.2	3166.7	3184.1	3196.3	3217.2	3198.0	3158.0	3140.5	3121.4	3131.8
20°	3278.2	3283.4	3286.9	3299.1	3320.0	3340.9	3325.3	3285.2	3266.0	3241.6	3253.8
22.5°	3429.8	3424.6	3426.3	3447.3	3476.9	3497.8	3485.6	3438.5	3405.4	3386.3	3393.2
25°	3598.9	3597.1	3602.4	3633.7	3666.9	3689.5	3672.1	3611.1	3578.0	3544.9	3558.8
27.5°	3806.3	3808.0	3811.5	3849.8	3902.1	3935.2	3891.7	3830.7	3785.4	3741.8	3752.2
30°	4052.0	4048.5	4059.0	4111.3	4187.9	4240.2	4189.7	4104.3	4039.8	3998.0	4003.2
32.5°	4313.4	4316.9	4344.8	4428.5	4529.5	4621.9	4519.1	4405.8	4322.1	4243.7	4254.2
35°	4595.8	4604.5	4667.2	4791.0	4956.5	5080.3	4937.4	4750.9	4632.4	4531.3	4534.8
37.5°	4928.6	4949.6	5036.7	5221.4	5458.4	5624.0	5414.9	5167.4	5014.0	4888.6	4879.8
40°	5366.1	5390.5	5509.0	5728.6	6016.1	6167.8	5925.5	5671.1	5481.1	5345.2	5324.3
42.5°	5868.0	5899.4	6028.3	6253.2	6540.7	6643.6	6406.5	6192.2	6021.4	5861.0	5854.1
45°	6434.4	6451.8	6556.4	6729.0	6936.3	6960.7	6783.0	6664.5	6491.9	6342.0	6329.8
47.5°	6966.0	6983.4	7054.9	7143.7	7192.5	7105.4	7074.0	7021.7	6798.7	6613.9	6575.6
50°	7370.3	7384.2	7473.1	7508.0	7372.0	7187.3	7248.3	7136.8	6894.5	6687.1	6627.9
52.5°	7342.4	7377.3	7605.6	7804.3	7718.9	7569.0	7405.2	7164.7	6788.2	6504.1	6430.9
55°	6321.1	6368.2	6857.9	7511.5	8095.3	8159.8	7504.5	6729.0	6021.4	5604.8	5529.9
57.5°	4062.5	4074.7	4672.4	5589.2	6905.0	7319.8	6223.5	5073.3	4193.2	3734.8	3703.5
60°	1493.6	1469.2	1920.6	2680.4	3977.1	4416.3	3663.4	2565.4	1829.9	1505.8	1479.6
62.5°	359.0	362.5	449.6	674.5	1247.8	1544.1	1220.0	681.4	434.0	364.2	360.8
65°	181.3	177.8	179.5	193.5	266.6	318.9	261.4	184.7	177.8	179.5	177.8
67.5°	116.8	115.0	118.5	120.3	118.5	111.5	109.8	113.3	113.3	115.0	111.5
70°	71.5	69.7	73.2	78.4	74.9	66.2	69.7	73.2	69.7	68.0	68.0
72.5°	38.3	38.3	41.8	45.3	41.8	38.3	38.3	40.1	38.3	38.3	38.3
75°	17.4	17.4	19.2	20.9	17.4	17.4	17.4	17.4	17.4	17.4	17.4
77.5°	5.2	5.2	7.0	7.0	5.2	5.2	5.2	5.2	7.0	7.0	7.0
80°	1.7	3.5	3.5	1.7	1.7	1.7	1.7	1.7	3.5	3.5	3.5
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	1.7	1.7	1.7	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
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)