

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: P643409

Luminaire Tested: GWS-SA6E-830-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643409  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-830-U-5WQ-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18713.9 lumens  
Efficiency: N/A  
Efficacy: 57.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1  
  
Input Watts (W): 323.8  
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

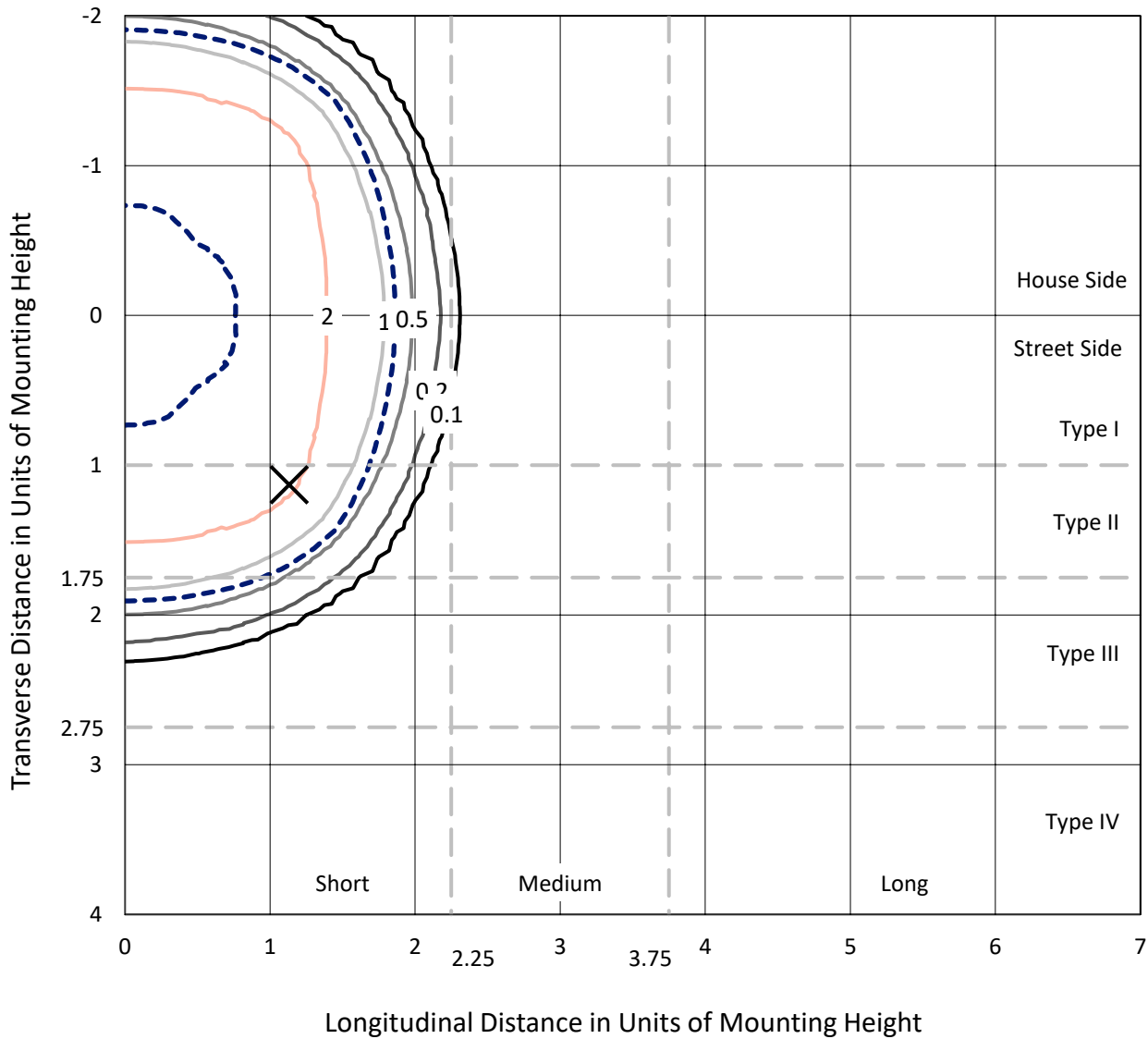


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### Iso-Footcandle Lines of Horizontal Illumination

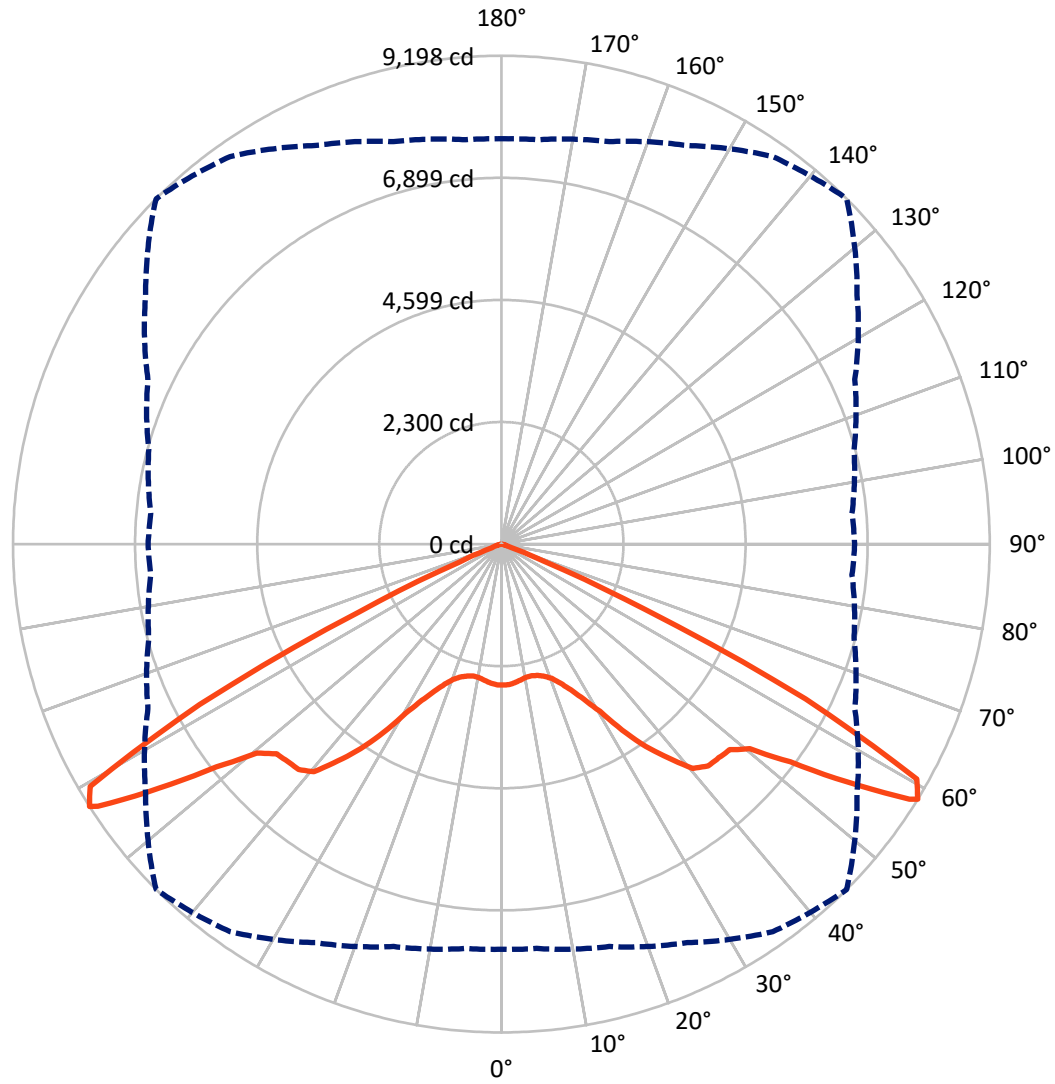
✕ Max cd  
 - - - 1/2 Max cd



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



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9356.9	0.0	9356.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9356.9	0.0	9356.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18713.9	0.0	18713.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.6	1.3
10°-20°	732.7	3.9
20°-30°	1385.7	7.4
30°-40°	2732.9	14.6
40°-50°	4324.7	23.1
50°-60°	6357.1	34.0
60°-70°	2837.5	15.2
70°-80°	95.1	0.5
80°-90°	0.8	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°	18713.9	100.0
0°-180°	18713.9	100.0

**Coefficient of Utilization**



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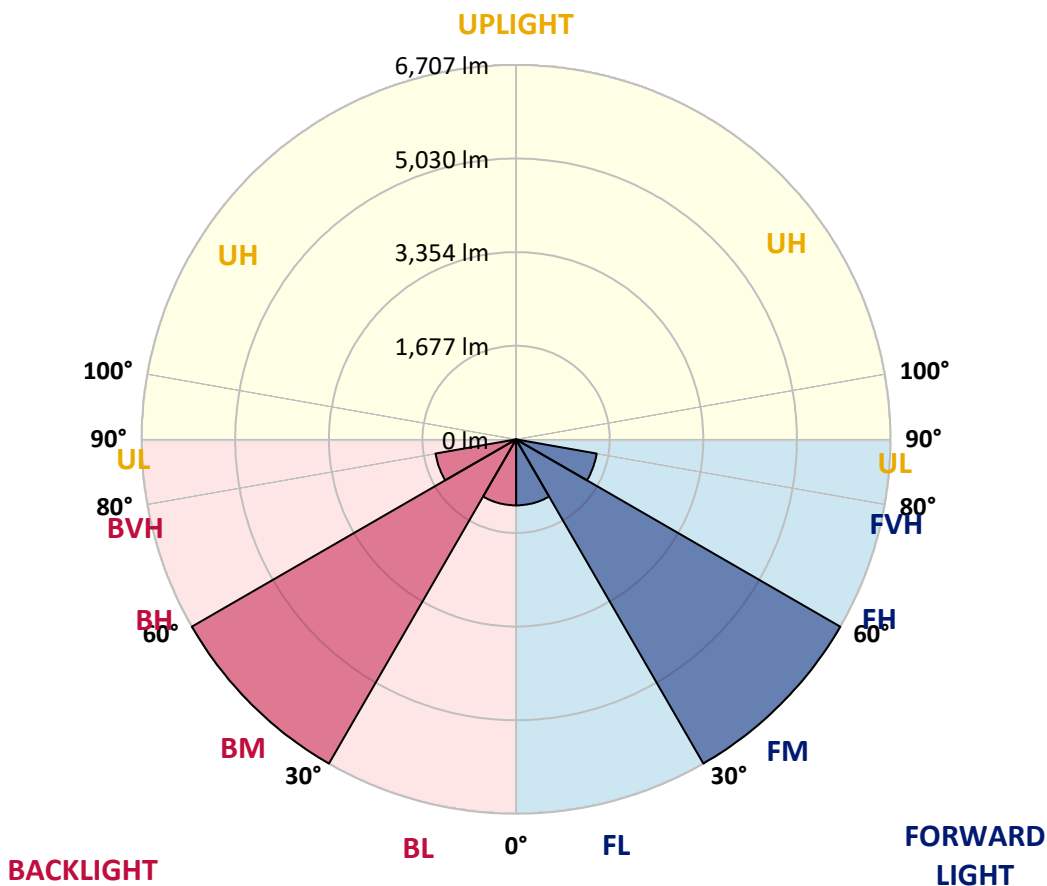
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1183.0	6.3			
FM (30°-60°)	6707.3	35.8			
FH (60°-80°)	1466.3	7.8			G1/1800
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	1183.0	6.3	B3/2500		
BM (30°-60°)	6707.3	35.8	B4/8500		
BH (60°-80°)	1466.3	7.8	B3/2500		G1/1800
BVH (80°-90°)	0.4	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2653.9	2653.9	2653.9	2653.9	2653.9	2653.9	2653.9	2653.9	2653.9	2653.9	2653.9
2.5°	2628.4	2633.5	2638.6	2641.1	2643.7	2651.3	2653.9	2646.2	2646.2	2630.9	2648.8
5°	2615.6	2620.7	2625.8	2623.3	2623.3	2623.3	2620.7	2610.5	2608.0	2592.7	2610.5
7.5°	2592.7	2597.8	2597.8	2590.1	2585.0	2585.0	2582.5	2569.8	2567.2	2551.9	2569.8
10°	2574.9	2577.4	2574.9	2559.6	2549.4	2549.4	2546.8	2541.7	2544.3	2534.1	2549.4
12.5°	2585.0	2587.6	2577.4	2557.0	2544.3	2541.7	2534.1	2526.4	2534.1	2531.5	2546.8
15°	2618.2	2620.7	2602.9	2577.4	2567.2	2567.2	2546.8	2526.4	2536.6	2539.2	2557.0
17.5°	2659.0	2659.0	2636.0	2613.1	2615.6	2615.6	2582.5	2546.8	2549.4	2559.6	2577.4
20°	2707.4	2707.4	2684.5	2679.4	2697.2	2699.8	2659.0	2602.9	2590.1	2597.8	2618.2
22.5°	2794.1	2794.1	2776.2	2789.0	2829.8	2842.5	2781.3	2702.3	2671.7	2676.8	2697.2
25°	2929.2	2929.2	2924.1	2954.7	3013.3	3041.4	2959.8	2855.3	2804.3	2796.6	2819.6
27.5°	3156.1	3158.7	3151.0	3196.9	3270.8	3304.0	3191.8	3054.1	2992.9	2980.2	3003.1
30°	3449.3	3449.3	3451.8	3515.6	3612.4	3655.8	3507.9	3347.3	3275.9	3235.1	3265.7
32.5°	3775.6	3780.7	3806.2	3913.3	4084.1	4173.3	3956.6	3732.3	3617.5	3574.2	3607.3
35°	4313.5	4265.1	4234.5	4313.5	4560.8	4678.1	4400.2	4137.6	4050.9	4045.8	4130.0
37.5°	4846.3	4818.3	4754.6	4836.1	5057.9	5111.5	4805.5	4586.3	4525.1	4558.2	4642.4
40°	5269.5	5218.5	5134.4	5210.9	5501.5	5555.0	5177.7	4961.0	4938.1	5012.0	5126.8
42.5°	5603.5	5532.1	5419.9	5437.8	5672.3	5710.6	5376.6	5213.4	5228.7	5320.5	5450.5
45°	5753.9	5697.8	5598.4	5590.7	5738.6	5741.2	5478.6	5394.4	5435.2	5506.6	5608.6
47.5°	5817.6	5792.1	5736.1	5723.3	5807.4	5787.0	5623.9	5588.2	5626.4	5646.8	5705.5
50°	5975.7	5975.7	5983.3	5993.5	6080.2	6059.8	5945.1	5904.3	5855.9	5784.5	5802.3
52.5°	6419.3	6437.1	6511.1	6592.6	6750.7	6817.0	6630.9	6393.8	6161.8	6006.3	6006.3
55°	7219.8	7237.6	7324.3	7462.0	7752.6	7910.7	7477.3	6954.6	6636.0	6424.4	6452.4
57.5°	7660.8	7681.2	7859.7	8231.9	8795.3	9063.0	8132.4	7357.4	6911.3	6669.1	6689.5
58°	7632.8	7645.5	7846.9	8282.9	8910.0	9198.1	8178.3	7344.7	6875.6	6628.3	6653.8
60°	6781.3	6763.4	7084.7	7706.7	8591.3	8989.0	7722.0	6704.8	6159.2	5906.9	5919.6
62.5°	4433.3	4443.5	4721.4	5371.5	6059.8	6434.6	5394.4	4637.3	4198.8	4045.8	4007.6
65°	1850.8	1817.7	1988.5	2350.5	2763.5	2972.5	2554.5	2161.9	1891.6	1789.6	1817.7
67.5°	476.7	464.0	474.2	594.0	726.6	859.1	721.5	550.7	479.3	484.4	484.4
70°	270.2	254.9	206.5	191.2	186.1	186.1	186.1	186.1	214.1	252.4	260.0
72.5°	203.9	191.2	150.4	130.0	114.7	107.1	112.2	130.0	155.5	188.7	193.8
75°	102.0	102.0	91.8	86.7	76.5	71.4	73.9	81.6	94.3	107.1	104.5
77.5°	20.4	22.9	25.5	30.6	25.5	25.5	25.5	30.6	30.6	33.1	30.6
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
82.5°	0.0	2.5	2.5	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5
87.5°	0.0	0.0	0.0	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)