

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: P640930

Luminaire Tested: GWS-SA5E-830-U-5MQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640930  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-830-U-5MQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

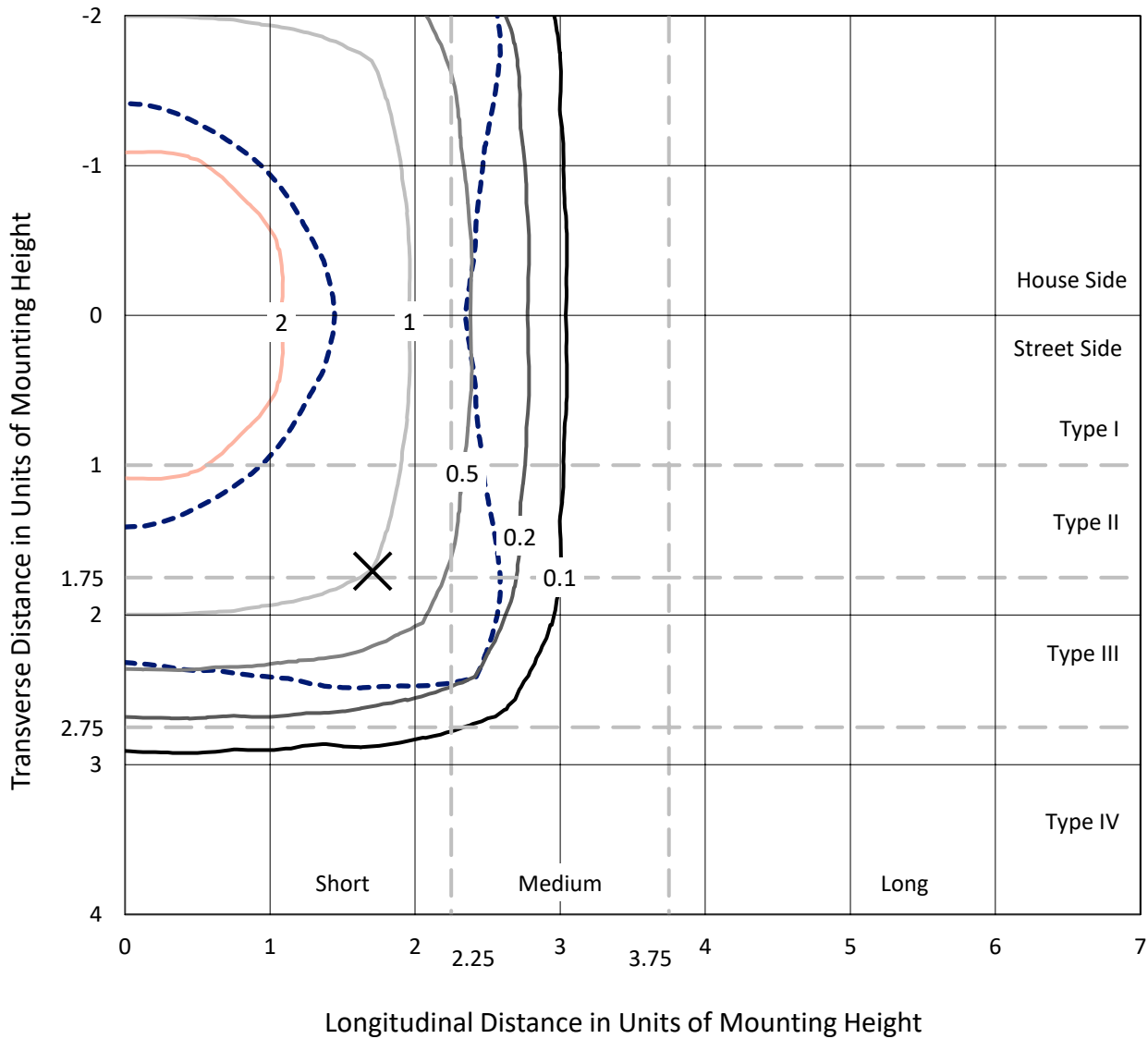
Lumens per Lamp: N/A  
Luminaire Lumens: 30883.3 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

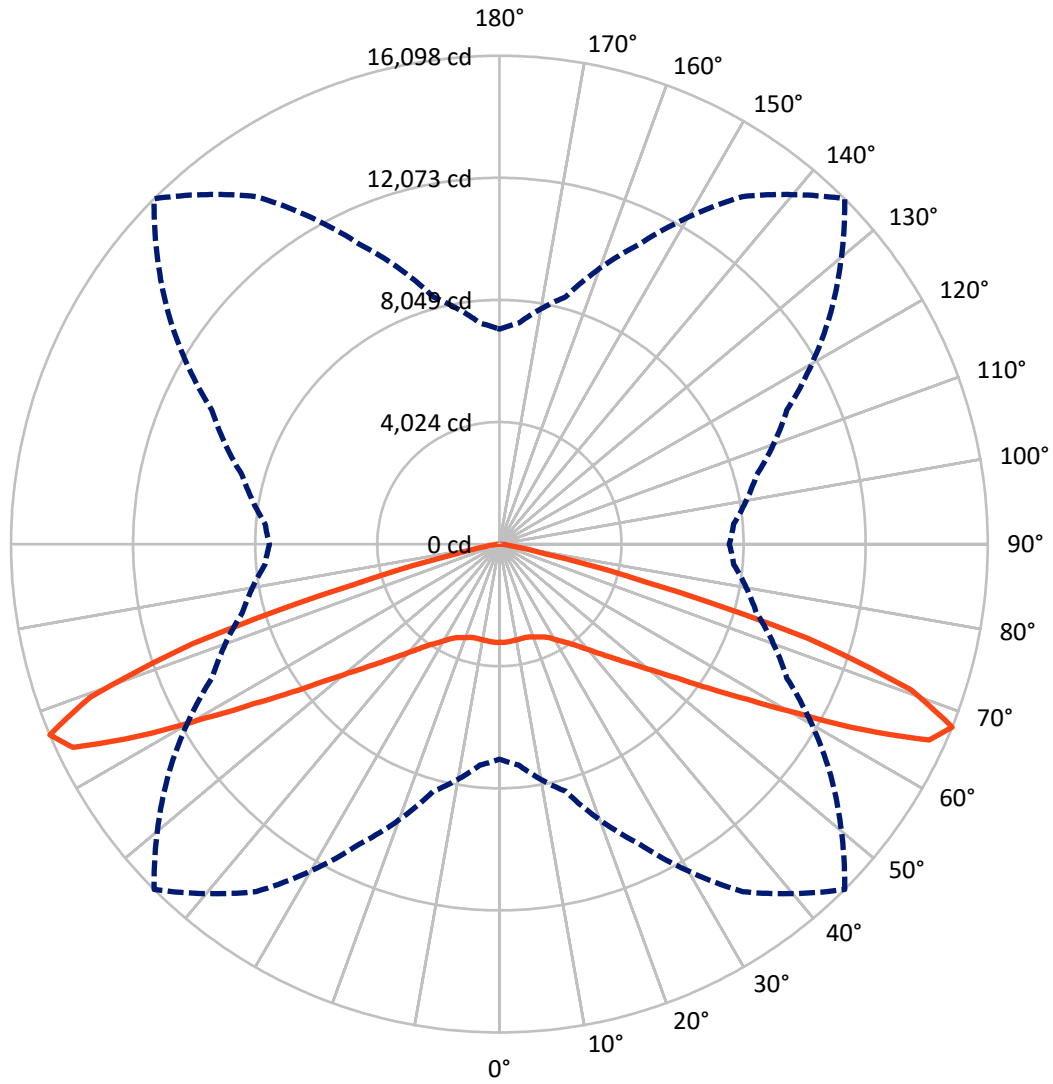
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15441.7	0.0	15441.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15441.7	0.0	15441.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30883.3	0.0	30883.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.1	1.0
10°-20°	899.1	2.9
20°-30°	1550.8	5.0
30°-40°	2521.6	8.2
40°-50°	4245.9	13.7
50°-60°	7522.8	24.4
60°-70°	10753.4	34.8
70°-80°	2951.4	9.6
80°-90°	132.2	0.4
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°	30883.3	100.0
0°-180°	30883.3	100.0

**Coefficient of Utilization**



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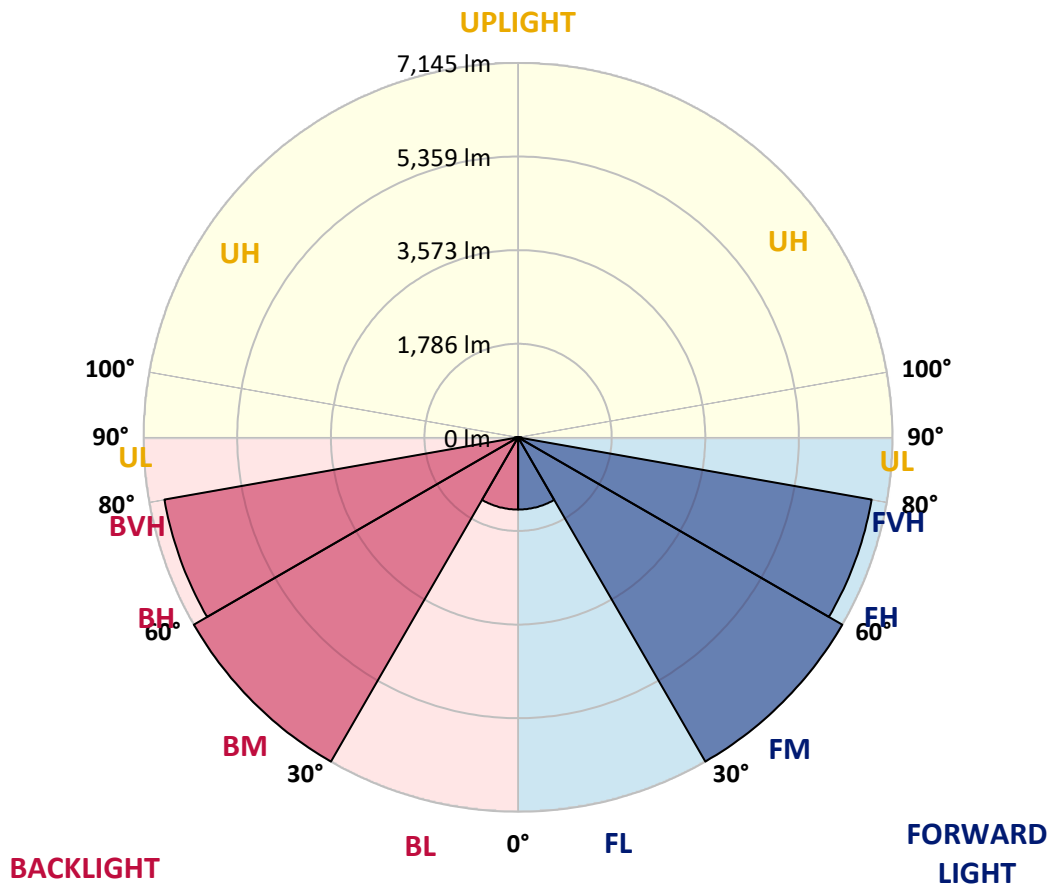
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1378.0	4.5			
FM (30°-60°)	7145.1	23.1			
FH (60°-80°)	6852.4	22.2			G3/7500
FVH (80°-90°)	66.1	0.2			G1/100
BL (0°-30°)	1378.0	4.5	B3/2500		
BM (30°-60°)	7145.1	23.1	B4/8500		
BH (60°-80°)	6852.4	22.2	B5		G3/7500
BVH (80°-90°)	66.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3234.5	3234.5	3234.5	3234.5	3234.5	3234.5	3234.5	3234.5	3234.5	3234.5	3234.5
2.5°	3213.1	3211.0	3221.7	3228.1	3225.9	3240.9	3238.8	3234.5	3234.5	3228.1	3245.2
5°	3213.1	3211.0	3219.5	3221.7	3217.4	3230.2	3225.9	3221.7	3221.7	3213.1	3228.1
7.5°	3196.0	3198.1	3204.6	3208.8	3204.6	3215.2	3208.8	3200.3	3198.1	3189.6	3204.6
10°	3163.9	3166.1	3172.5	3183.2	3185.3	3204.6	3193.9	3178.9	3172.5	3163.9	3178.9
12.5°	3144.7	3146.8	3153.2	3166.1	3170.3	3196.0	3185.3	3161.8	3151.1	3142.6	3157.5
15°	3140.4	3142.6	3151.1	3163.9	3170.3	3196.0	3185.3	3157.5	3142.6	3131.9	3144.7
17.5°	3140.4	3144.7	3157.5	3176.8	3189.6	3215.2	3202.4	3170.3	3149.0	3129.7	3142.6
20°	3142.6	3149.0	3168.2	3196.0	3228.1	3264.4	3247.3	3204.6	3174.6	3151.1	3159.7
22.5°	3161.8	3172.5	3196.0	3232.3	3279.4	3322.1	3307.2	3249.4	3206.7	3174.6	3183.2
25°	3228.1	3232.3	3262.3	3309.3	3354.2	3390.5	3375.6	3322.1	3268.7	3230.2	3240.9
27.5°	3345.6	3356.3	3382.0	3431.2	3469.6	3488.9	3486.7	3450.4	3397.0	3362.7	3371.3
30°	3486.7	3497.4	3531.6	3587.2	3625.7	3647.1	3640.7	3612.9	3563.7	3516.7	3525.2
32.5°	3651.4	3655.6	3696.2	3758.2	3798.9	3830.9	3809.5	3779.6	3717.6	3662.0	3666.3
35°	3860.9	3867.3	3910.0	3967.7	3999.8	4025.5	4021.2	3991.3	3925.0	3865.1	3880.1
37.5°	4123.8	4128.1	4166.6	4239.2	4264.9	4284.1	4288.4	4273.4	4205.0	4128.1	4143.0
40°	4450.9	4453.0	4495.8	4559.9	4587.7	4600.5	4602.7	4604.8	4534.3	4476.5	4472.3
42.5°	4831.4	4842.1	4902.0	4964.0	4976.8	4970.4	4991.7	5013.1	4944.7	4865.6	4872.0
45°	5286.8	5293.2	5374.4	5442.8	5419.3	5397.9	5438.5	5481.3	5419.3	5316.7	5286.8
47.5°	5825.5	5838.3	5926.0	5994.4	5955.9	5917.4	5983.7	6028.6	5928.1	5819.1	5791.3
50°	6434.8	6443.3	6567.3	6652.8	6607.9	6537.4	6620.7	6667.8	6533.1	6398.4	6338.6
52.5°	7155.2	7138.1	7302.7	7452.3	7424.6	7332.6	7401.0	7409.6	7208.6	7018.4	6958.5
55°	8033.8	8016.7	8181.3	8345.9	8414.4	8390.8	8358.8	8307.5	8010.3	7807.2	7751.6
57.5°	9057.8	9004.4	9235.3	9457.6	9607.2	9650.0	9513.2	9393.5	9158.3	8908.2	8844.1
60°	10009.1	10007.0	10372.6	10757.4	11167.8	11338.9	10992.5	10667.6	10139.6	9684.2	9592.3
62.5°	10276.4	10321.3	10919.8	11873.3	12886.6	13491.6	12578.8	11503.5	10483.7	9797.5	9675.7
65°	9617.9	9729.1	10579.9	12084.9	14085.9	15565.3	13504.4	11522.7	10101.1	9246.0	9117.7
67.5°	7088.9	7311.3	8437.9	10904.9	13983.3	16097.6	13339.8	10455.9	8773.5	7755.9	7578.5
70°	3497.4	3709.1	4602.7	7174.4	11505.6	14389.5	11541.9	7879.9	5926.0	4946.9	4784.4
72.5°	1287.0	1372.5	1723.1	3069.9	6349.2	10629.1	7892.7	4401.7	2871.1	2285.3	2176.3
75°	630.6	645.6	699.1	1030.4	2343.0	5002.4	3709.1	1688.9	1056.1	919.3	889.3
77.5°	401.9	408.3	434.0	491.7	752.5	1575.6	1124.5	667.0	517.3	496.0	496.0
80°	224.5	230.9	265.1	305.7	352.7	540.9	404.0	399.8	339.9	297.2	290.7
82.5°	106.9	117.6	168.9	166.7	186.0	271.5	237.3	215.9	218.1	164.6	156.1
85°	49.2	49.2	66.3	79.1	83.4	91.9	109.0	124.0	121.9	83.4	89.8
87.5°	23.5	23.5	23.5	21.4	19.2	17.1	23.5	38.5	55.6	38.5	36.3
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)