

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: P639945

Luminaire Tested: GWS-SA5C-830-U-5WQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639945  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-830-U-5WQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

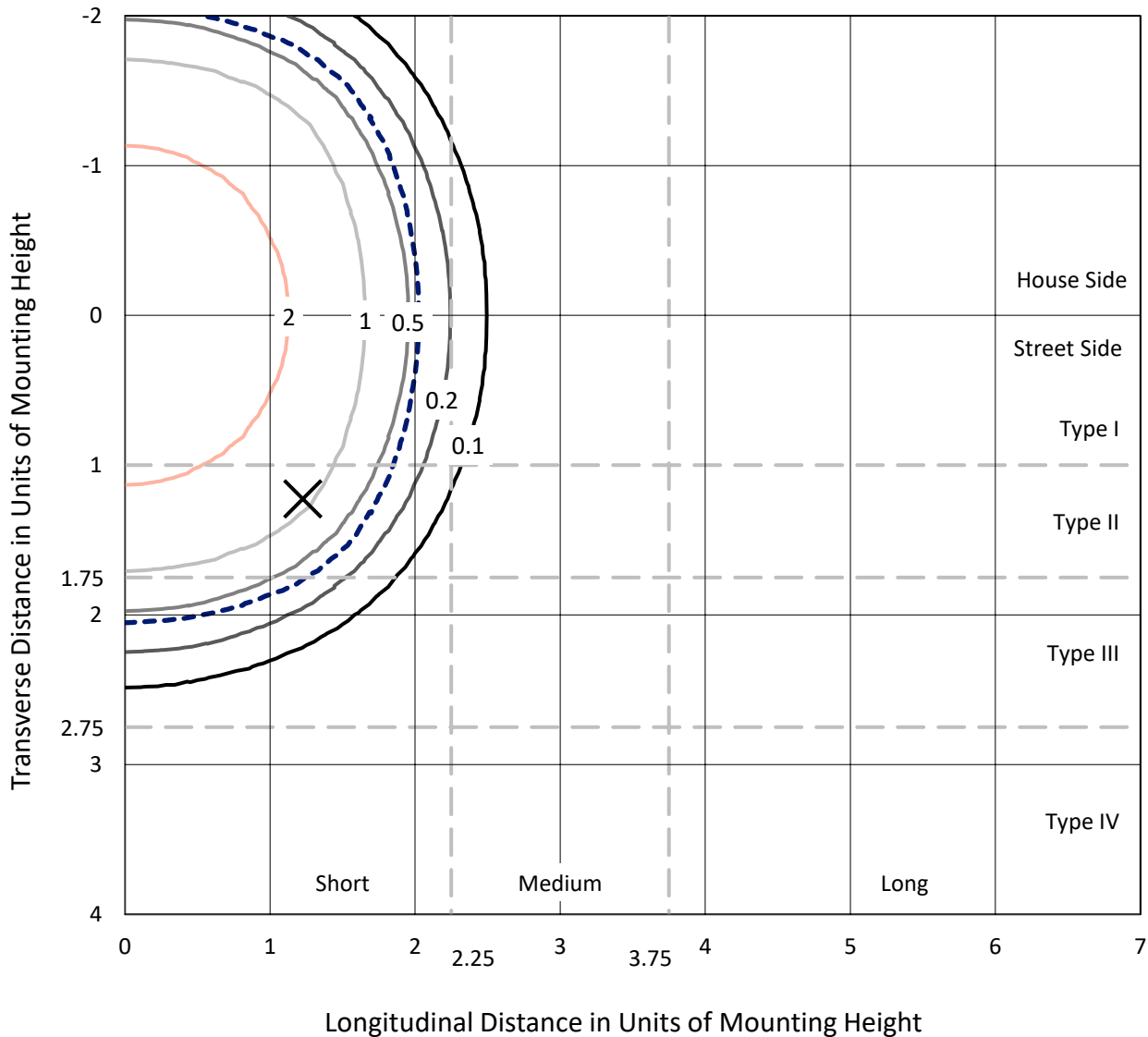
Lumens per Lamp: N/A  
Luminaire Lumens: 15975.7 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

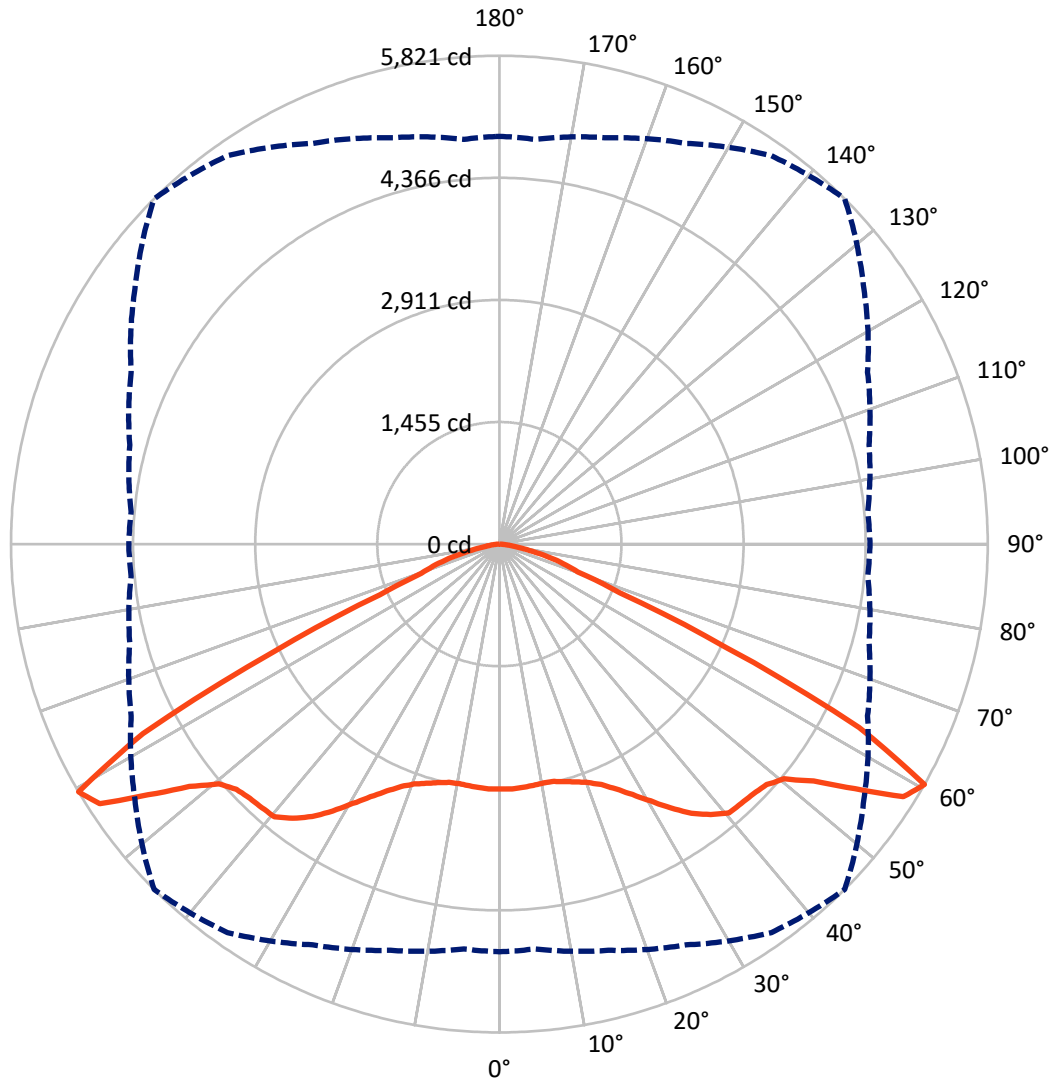
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7987.8	0.0	7987.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7987.8	0.0	7987.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15975.7	0.0	15975.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.9	1.7
10°-20°	832.8	5.2
20°-30°	1473.4	9.2
30°-40°	2372.1	14.8
40°-50°	3260.5	20.4
50°-60°	4344.9	27.2
60°-70°	2707.9	17.0
70°-80°	622.7	3.9
80°-90°	84.5	0.5
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°	15975.7	100.0
0°-180°	15975.7	100.0

**Coefficient of Utilization**



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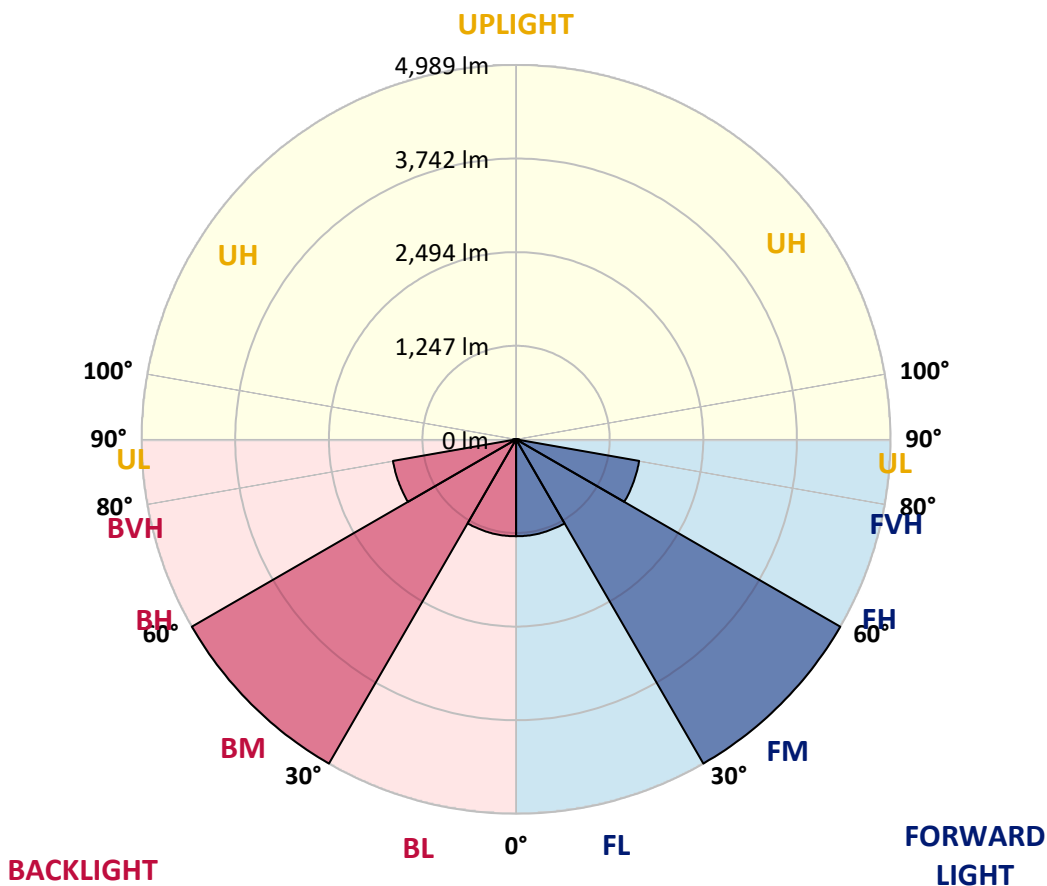
CATALOG NUMBER: GWS-SA5C-830-U-5WQ-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1291.5	8.1			
FM (30°-60°)	4988.8	31.2			
FH (60°-80°)	1665.3	10.4			G1/1800
FVH (80°-90°)	42.2	0.3			G1/100
BL (0°-30°)	1291.5	8.1	B3/2500		
BM (30°-60°)	4988.8	31.2	B3/5000		
BH (60°-80°)	1665.3	10.4	B3/2500		G1/1800
BVH (80°-90°)	42.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2919.5	2919.5	2919.5	2919.5	2919.5	2919.5	2919.5	2919.5	2919.5	2919.5	2919.5
2.5°	2899.2	2901.9	2907.3	2911.4	2916.8	2922.2	2925.0	2919.5	2916.8	2906.0	2918.2
5°	2901.9	2904.6	2908.7	2908.7	2910.0	2914.1	2914.1	2907.3	2900.6	2888.3	2901.9
7.5°	2897.8	2900.6	2901.9	2900.6	2901.9	2903.3	2900.6	2892.4	2885.6	2874.8	2885.6
10°	2891.1	2893.8	2896.5	2893.8	2891.1	2895.1	2895.1	2889.7	2885.6	2874.8	2887.0
12.5°	2906.0	2910.0	2911.4	2904.6	2901.9	2903.3	2903.3	2897.8	2897.8	2888.3	2901.9
15°	2941.2	2943.9	2939.9	2931.7	2933.1	2937.2	2927.7	2914.1	2911.4	2907.3	2918.2
17.5°	2968.4	2971.1	2967.0	2961.6	2971.1	2980.6	2962.9	2937.2	2929.0	2926.3	2938.5
20°	2998.2	3002.3	2996.8	3003.6	3022.6	3033.4	3011.7	2976.5	2960.2	2956.1	2971.1
22.5°	3047.0	3052.4	3052.4	3067.3	3095.8	3113.4	3086.3	3038.9	3014.5	3007.7	3022.6
25°	3124.3	3128.4	3132.4	3162.3	3208.4	3232.8	3189.4	3124.3	3090.4	3079.5	3087.7
27.5°	3231.4	3238.2	3245.0	3288.4	3345.3	3380.6	3318.2	3236.8	3194.8	3173.1	3189.4
30°	3358.9	3368.4	3384.7	3433.5	3513.5	3552.8	3472.8	3373.8	3326.3	3303.3	3325.0
32.5°	3532.5	3533.8	3546.0	3600.3	3706.0	3750.8	3650.4	3540.6	3491.8	3464.7	3476.9
35°	3738.6	3739.9	3721.0	3776.5	3890.5	3940.6	3822.7	3711.5	3670.8	3662.6	3693.8
37.5°	3950.1	3937.9	3918.9	3943.3	4058.6	4091.1	3966.4	3871.5	3853.8	3868.8	3914.9
40°	4100.6	4080.3	4042.3	4060.0	4176.6	4214.5	4081.7	3992.2	3986.7	4023.3	4078.9
42.5°	4198.3	4176.6	4131.8	4131.8	4211.8	4228.1	4125.0	4077.6	4089.8	4131.8	4184.7
45°	4245.7	4233.5	4207.8	4194.2	4239.0	4245.7	4167.1	4148.1	4171.2	4191.5	4232.2
47.5°	4282.3	4282.3	4274.2	4260.7	4281.0	4285.1	4226.8	4221.3	4251.2	4251.2	4278.3
50°	4347.4	4354.2	4365.1	4362.4	4384.1	4397.6	4354.2	4346.1	4358.3	4319.0	4332.5
52.5°	4518.3	4535.9	4567.1	4591.5	4647.1	4689.2	4611.9	4546.8	4483.0	4396.3	4399.0
55°	4824.8	4832.9	4893.9	4965.8	5059.4	5144.8	4986.1	4784.1	4645.8	4544.1	4545.4
57.5°	5083.8	5096.0	5185.5	5336.0	5546.2	5679.1	5327.8	4990.2	4794.9	4670.2	4674.2
60°	4860.0	4843.7	5013.2	5270.9	5651.9	5821.4	5303.4	4842.4	4561.7	4407.1	4418.0
62.5°	3760.3	3729.1	3917.6	4187.4	4644.4	4813.9	4336.6	3894.5	3628.7	3508.1	3490.4
65°	2289.0	2260.5	2396.1	2561.5	2870.7	2977.8	2759.5	2524.9	2293.0	2219.8	2199.5
67.5°	1246.2	1242.1	1278.7	1360.1	1495.7	1545.9	1503.8	1392.6	1333.0	1281.4	1281.4
70°	988.5	980.4	973.6	975.0	987.2	994.0	995.3	989.9	996.7	998.0	992.6
72.5°	819.0	816.3	802.8	804.1	798.7	796.0	805.5	810.9	821.8	823.1	823.1
75°	593.9	587.2	593.9	595.3	589.9	589.9	596.7	595.3	600.7	603.4	588.5
77.5°	337.7	337.7	347.1	358.0	366.1	366.1	372.9	372.9	379.7	378.3	375.6
80°	185.8	185.8	191.2	198.0	206.1	214.3	221.0	222.4	226.5	225.1	221.0
82.5°	105.8	107.1	109.8	113.9	122.0	128.8	135.6	137.0	141.0	141.0	137.0
85°	50.2	48.8	50.2	52.9	57.0	62.4	69.2	73.2	75.9	75.9	73.2
87.5°	9.5	10.8	9.5	10.8	12.2	16.3	19.0	21.7	25.8	27.1	24.4
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)