

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: P637962

Luminaire Tested: GWS-SA4D-830-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637962  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-830-U-5NQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

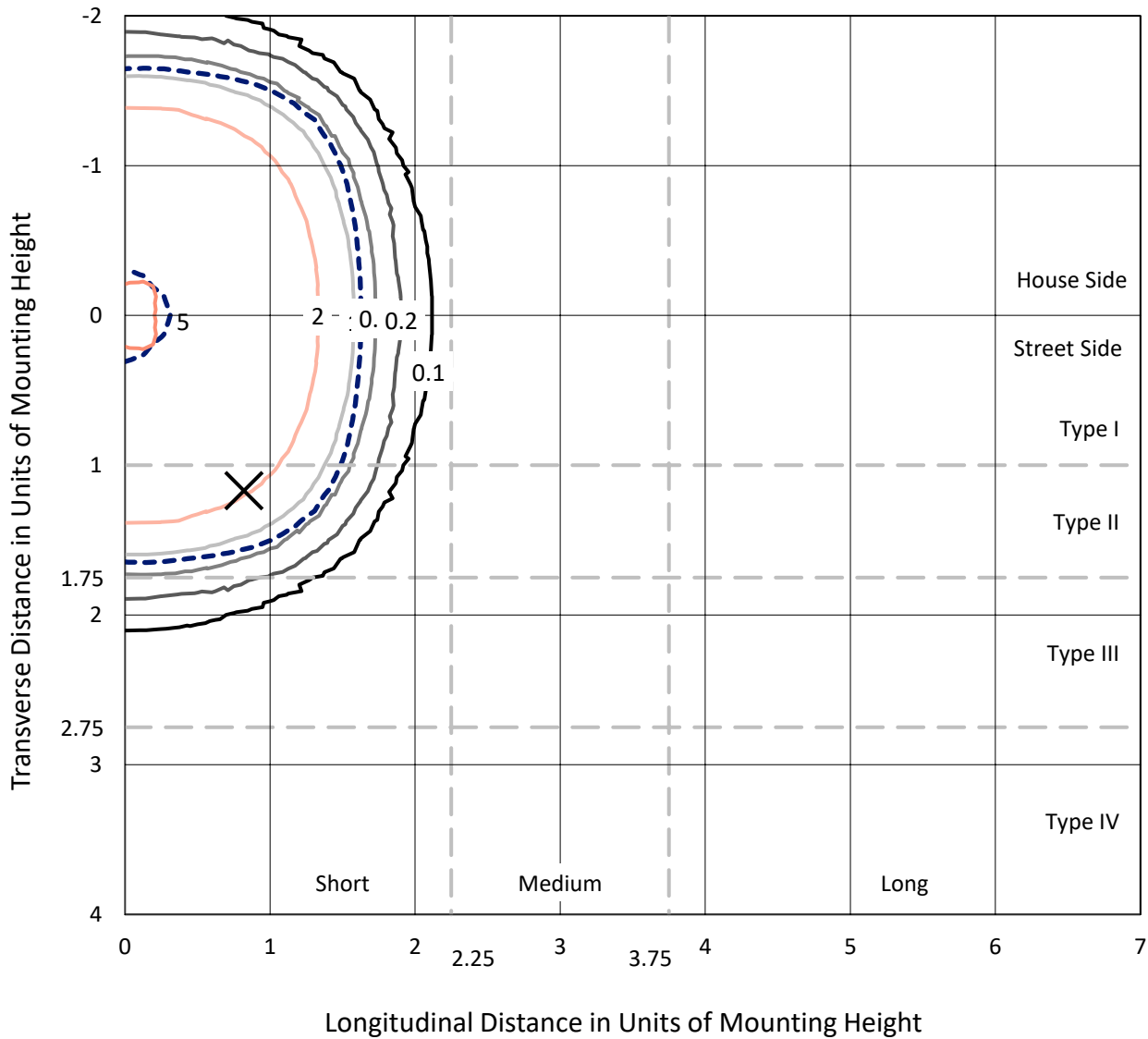
Lumens per Lamp: N/A  
Luminaire Lumens: 17635.9 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P637962  
 CATALOG NUMBER: GWS-SA4D-830-U-5NQ-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

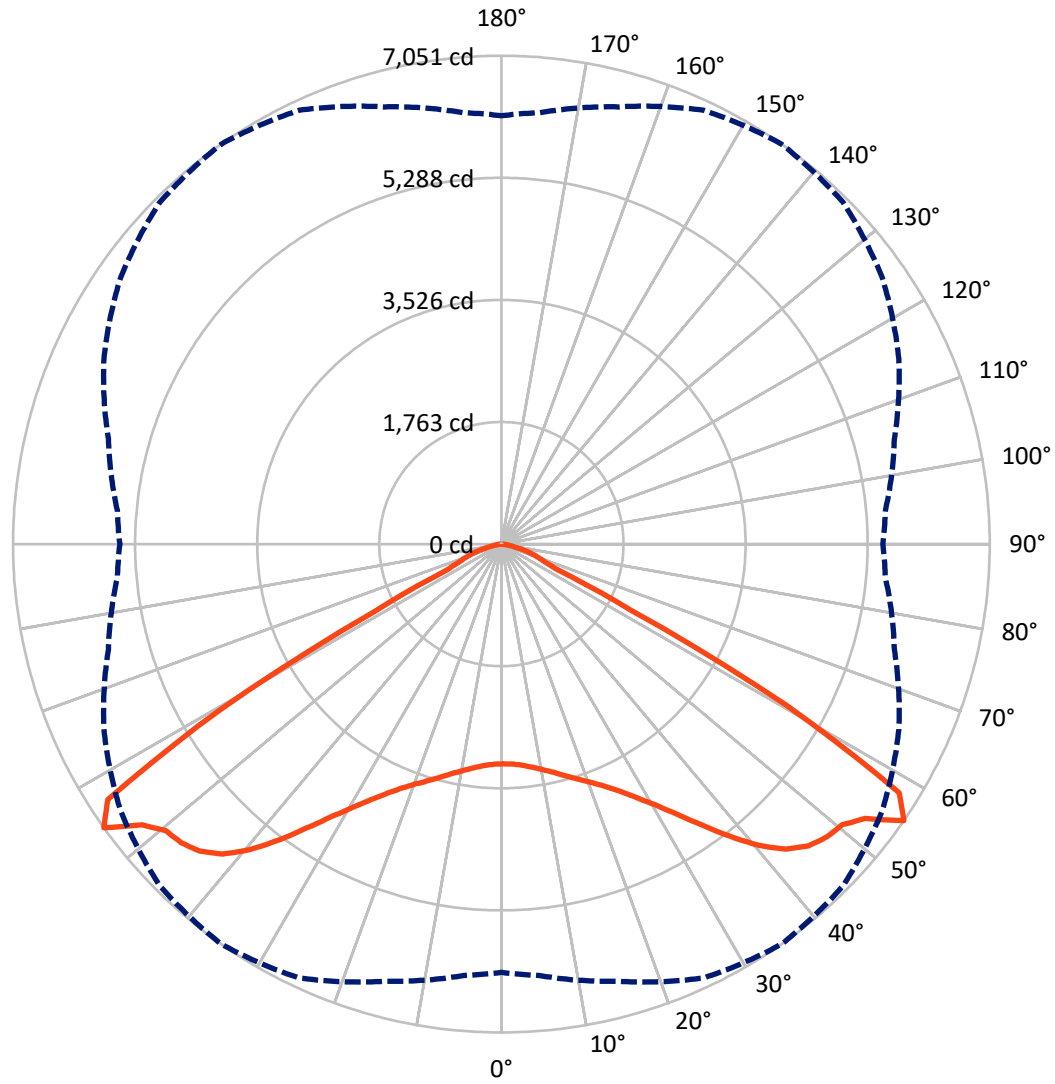
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type V - Short - N/A

REPORT NUMBER: P637962  
CATALOG NUMBER: GWS-SA4D-830-U-5NQ-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P637962

CATALOG NUMBER: GWS-SA4D-830-U-5NQ-W-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8818.0	0.0	8818.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8818.0	0.0	8818.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17635.9	0.0	17635.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.5	1.8
10°-20°	985.3	5.6
20°-30°	1823.5	10.3
30°-40°	3050.4	17.3
40°-50°	4648.3	26.4
50°-60°	5207.0	29.5
60°-70°	1232.0	7.0
70°-80°	332.2	1.9
80°-90°	47.8	0.3
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°	17635.9	100.0
0°-180°	17635.9	100.0

**Coefficient of Utilization**



REPORT NUMBER: P637962

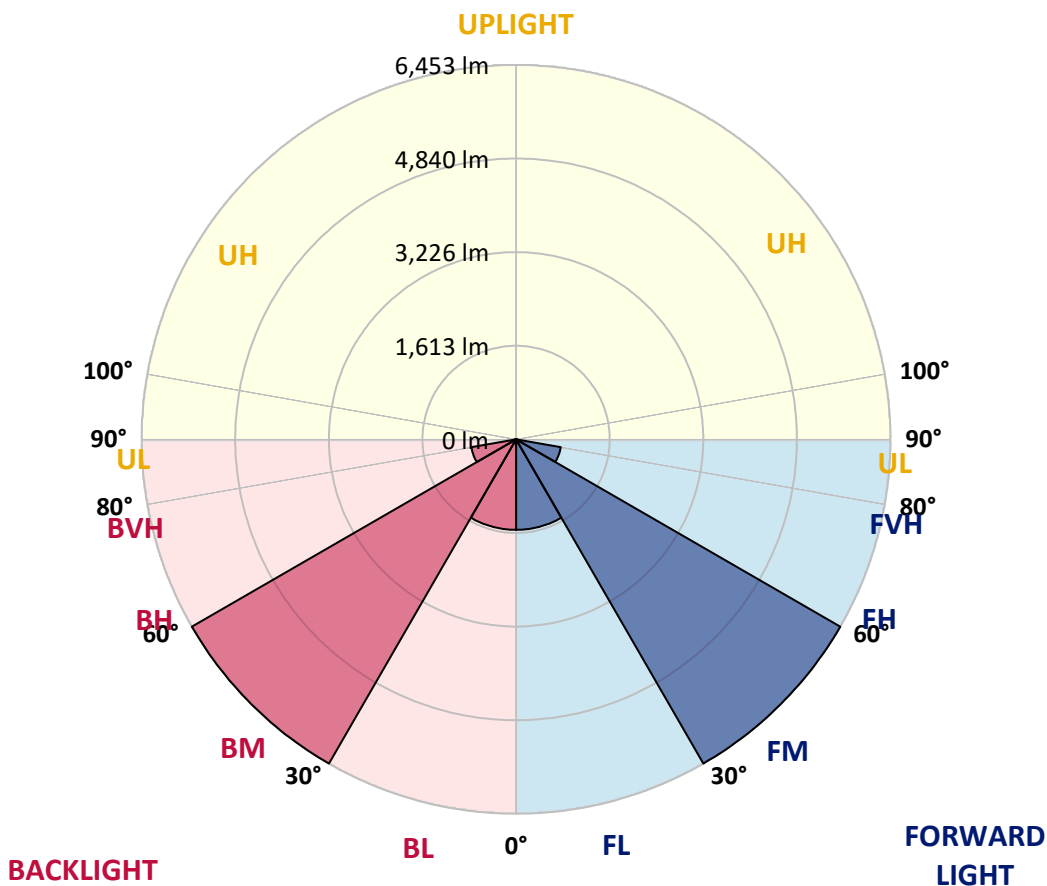
CATALOG NUMBER: GWS-SA4D-830-U-5NQ-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1559.1	8.8			
FM (30°-60°)	6452.8	36.6			
FH (60°-80°)	782.1	4.4			G1/1800
FVH (80°-90°)	23.9	0.1			G1/100
BL (0°-30°)	1559.1	8.8	B3/2500		
BM (30°-60°)	6452.8	36.6	B4/8500		
BH (60°-80°)	782.1	4.4	B2/1000		G1/1800
BVH (80°-90°)	23.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 </tr			

**BUG Rating: B4-U0-G1**

Type V Short





REPORT NUMBER: P637962

CATALOG NUMBER: GWS-SA4D-830-U-5NQ-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3172.7	3172.7	3172.7	3172.7	3172.7	3172.7	3172.7	3172.7	3172.7	3172.7	3172.7
2.5°	3165.8	3165.8	3171.4	3178.3	3179.7	3193.7	3190.9	3185.3	3182.5	3176.9	3189.5
5°	3200.6	3202.0	3206.2	3210.4	3207.6	3218.8	3214.6	3207.6	3203.4	3196.5	3209.0
7.5°	3246.7	3246.7	3250.8	3256.4	3253.6	3270.4	3262.0	3252.2	3245.3	3236.9	3248.1
10°	3288.5	3291.3	3295.5	3306.6	3312.2	3330.3	3324.8	3310.8	3299.7	3289.9	3302.4
12.5°	3351.3	3354.0	3358.2	3373.6	3383.3	3401.5	3393.1	3373.6	3356.8	3342.9	3356.8
15°	3432.1	3429.4	3440.5	3460.0	3472.6	3489.3	3479.6	3446.1	3423.8	3405.6	3419.6
17.5°	3514.4	3513.0	3524.2	3549.3	3567.4	3589.7	3573.0	3534.0	3510.2	3487.9	3501.9
20°	3603.7	3607.9	3619.0	3642.7	3669.2	3698.5	3684.6	3642.7	3616.2	3591.1	3602.3
22.5°	3713.9	3715.3	3727.8	3758.5	3793.3	3821.2	3812.9	3761.3	3727.8	3701.3	3715.3
25°	3846.3	3844.9	3861.7	3897.9	3946.8	3974.6	3956.5	3899.3	3863.1	3832.4	3843.6
27.5°	3998.4	3997.0	4022.1	4069.5	4139.2	4178.3	4140.6	4069.5	4019.3	3976.0	3985.8
30°	4189.4	4185.2	4213.1	4277.3	4367.9	4433.5	4377.7	4278.7	4213.1	4167.1	4176.9
32.5°	4401.4	4407.0	4441.8	4528.3	4642.7	4727.7	4644.1	4533.9	4446.0	4379.1	4390.2
35°	4634.3	4634.3	4705.4	4812.8	4976.0	5088.9	4959.2	4800.3	4683.1	4591.1	4593.9
37.5°	4893.7	4896.5	4989.9	5137.8	5351.1	5483.6	5307.9	5111.3	4969.0	4870.0	4864.4
40°	5210.3	5218.6	5314.9	5479.4	5719.3	5840.6	5652.4	5459.9	5314.9	5197.7	5186.6
42.5°	5567.3	5570.1	5671.9	5819.7	6021.9	6094.5	5946.6	5789.0	5670.5	5564.5	5553.4
45°	5907.6	5900.6	5988.5	6098.6	6215.8	6222.8	6140.5	6076.3	5973.1	5882.5	5865.7
47.5°	6172.6	6167.0	6246.5	6306.4	6320.4	6252.1	6278.6	6288.3	6168.4	6045.6	6013.6
50°	6334.3	6345.5	6420.8	6454.3	6372.0	6260.4	6360.8	6335.7	6164.2	6003.8	5952.2
52.5°	6432.0	6448.7	6579.8	6664.9	6579.8	6473.8	6487.7	6339.9	6093.1	5881.1	5814.1
55°	6185.1	6252.1	6535.2	6911.7	7051.2	6977.3	6712.3	6331.5	5874.1	5565.9	5508.7
57.5°	4584.1	4690.1	5109.9	5925.7	6773.6	7042.8	6268.8	5307.9	4614.8	4218.7	4185.2
60°	2340.2	2458.7	2794.8	3633.0	4723.6	5102.9	4366.5	3398.7	2701.4	2380.6	2344.3
62.5°	955.3	974.8	1085.0	1408.6	2087.7	2408.5	2115.6	1485.3	1115.7	1027.8	1029.2
65°	751.7	755.9	750.3	769.8	874.4	970.7	896.7	788.0	768.4	778.2	771.2
67.5°	655.5	656.9	652.7	652.7	656.9	652.7	661.0	665.2	668.0	679.2	672.2
70°	548.1	549.5	549.5	552.3	550.9	543.9	556.5	562.0	563.4	570.4	566.2
72.5°	424.0	428.1	430.9	432.3	430.9	426.8	433.7	443.5	442.1	449.1	442.1
75°	287.3	292.9	295.7	301.2	299.8	299.8	308.2	312.4	308.2	313.8	308.2
77.5°	163.2	167.4	175.7	181.3	186.9	191.1	196.6	199.4	198.0	200.8	198.0
80°	94.8	96.2	103.2	106.0	113.0	119.9	125.5	128.3	129.7	131.1	129.7
82.5°	54.4	55.8	58.6	61.4	66.9	72.5	78.1	82.3	82.3	83.7	82.3
85°	26.5	26.5	27.9	29.3	32.1	36.3	40.4	44.6	46.0	46.0	46.0
87.5°	4.2	4.2	5.6	5.6	7.0	8.4	11.2	13.9	15.3	15.3	15.3
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)