

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: P635981

Luminaire Tested: GWS-SA3E-830-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635981  
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-SA3E-830-U-5NQ-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

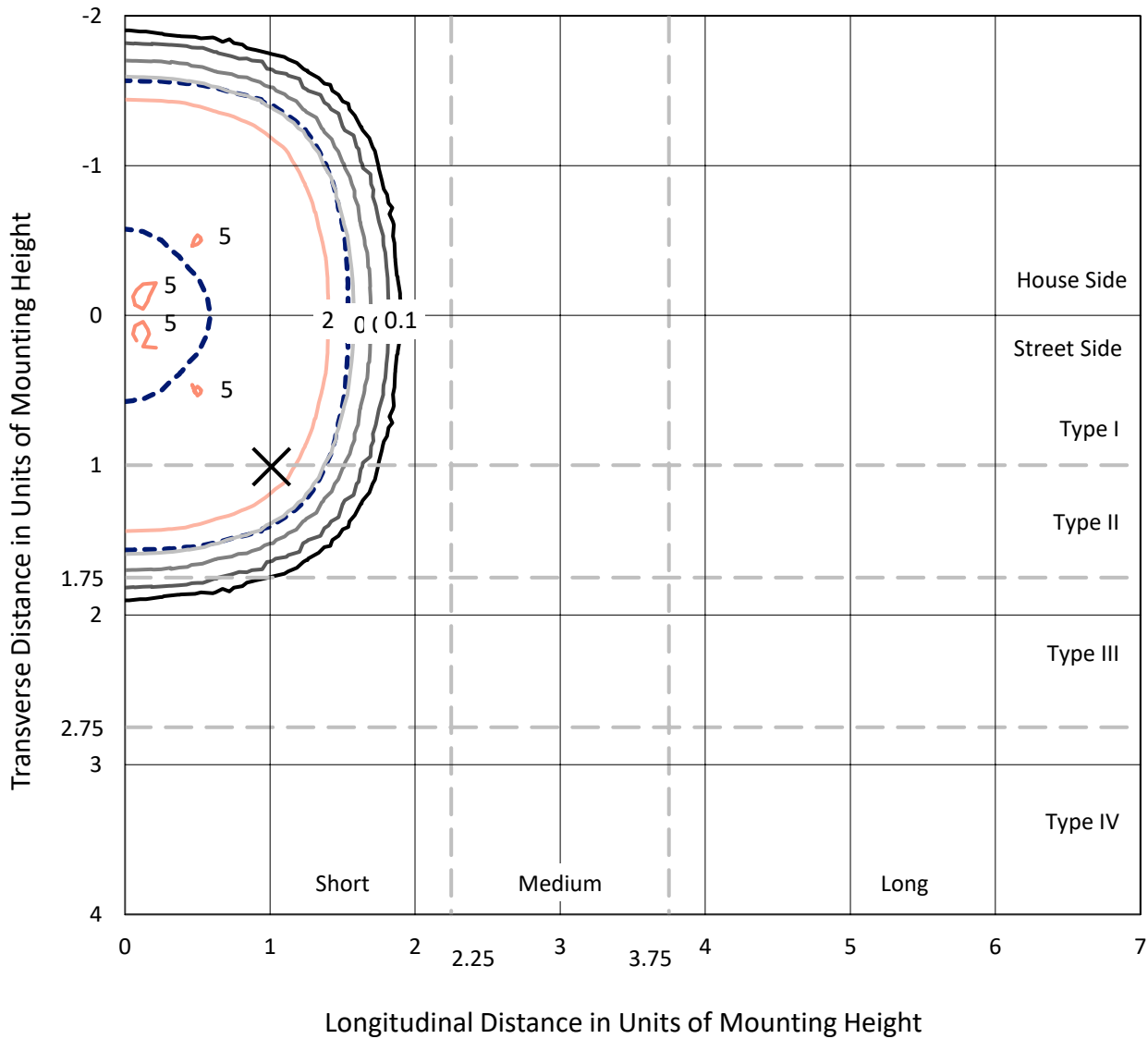
Lumens per Lamp: N/A  
Luminaire Lumens: 12293.2 lumens  
Efficiency: N/A  
Efficacy: 77.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0  
  
Input Watts (W): 159.2  
Input Voltage (V): 120  
Input Current (Ain): 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

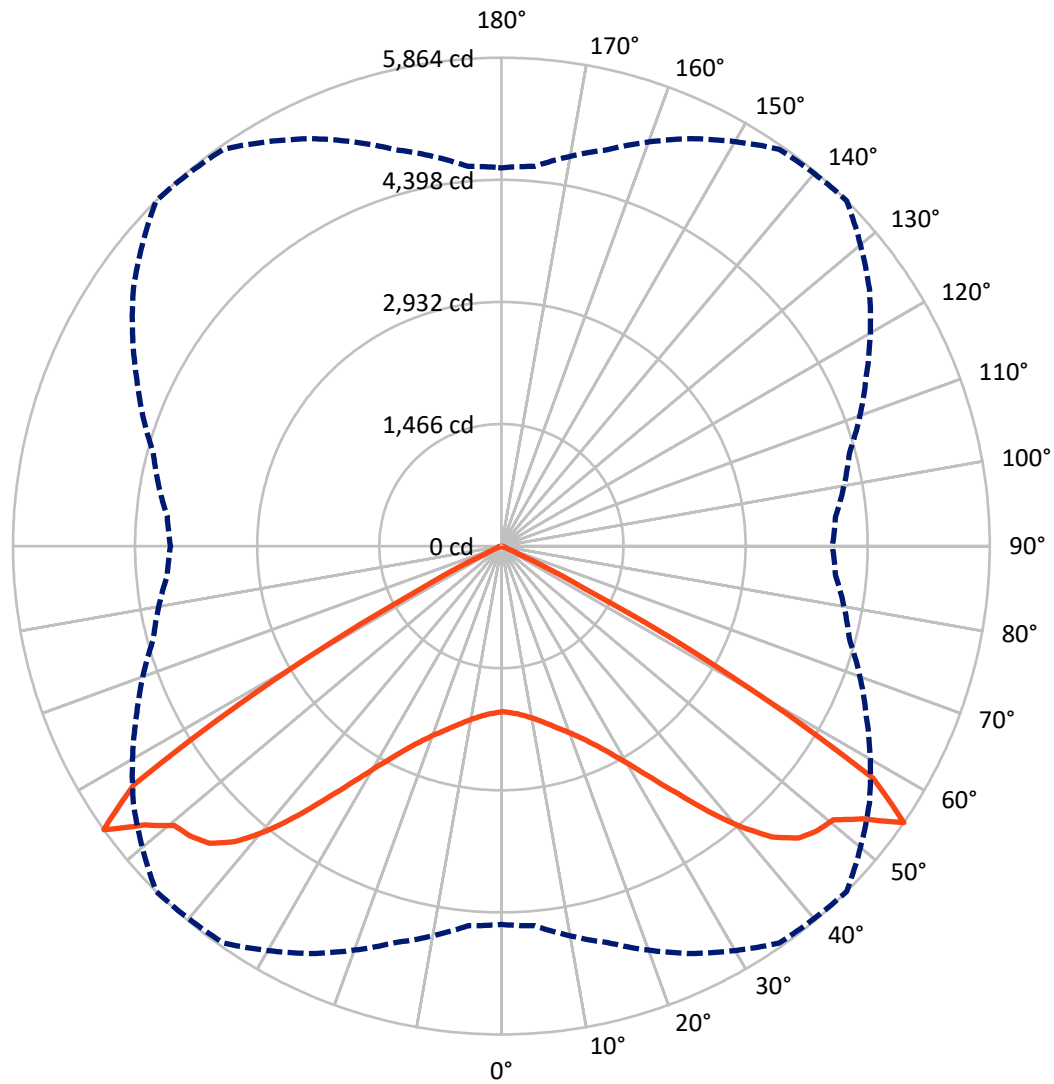
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6146.6	0.0	6146.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6146.6	0.0	6146.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12293.2	0.0	12293.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.7	1.6
10°-20°	631.2	5.1
20°-30°	1222.5	9.9
30°-40°	2190.2	17.8
40°-50°	3672.0	29.9
50°-60°	3930.7	32.0
60°-70°	431.9	3.5
70°-80°	19.0	0.2
80°-90°	0.9	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°	12293.2	100.0
0°-180°	12293.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P635981

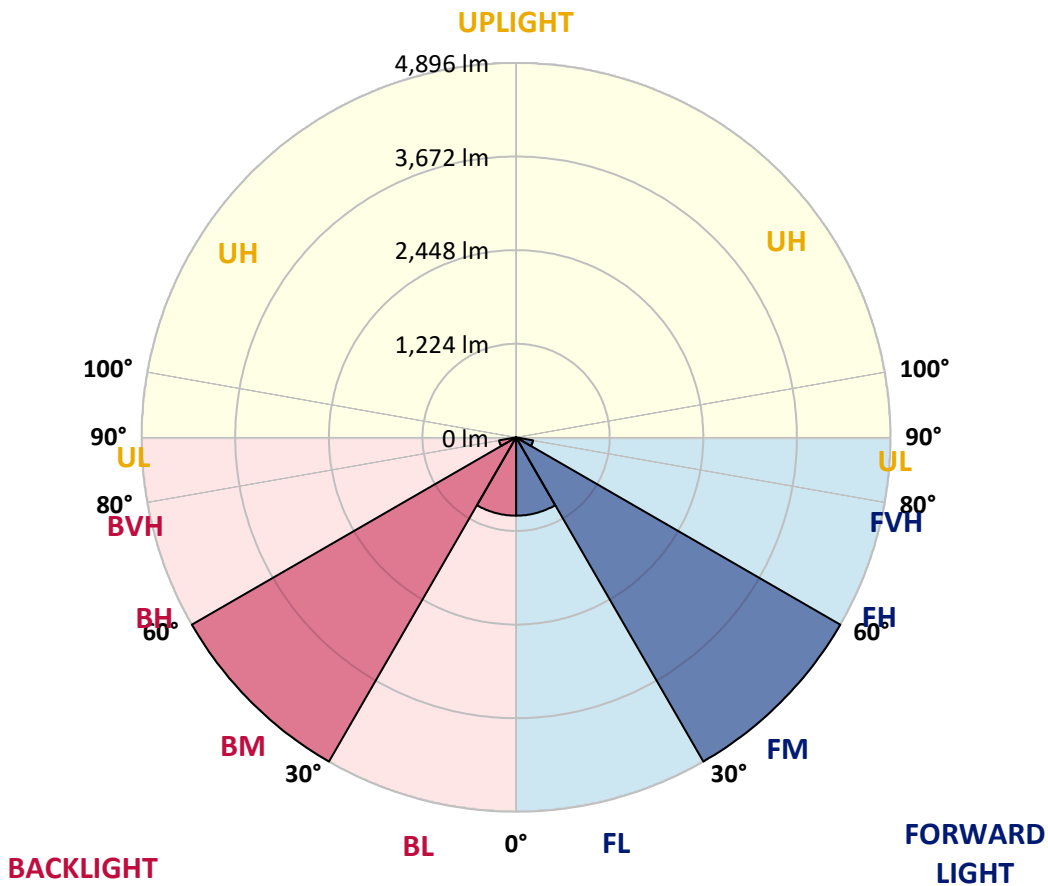
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1024.2	8.3			
FM (30°-60°)	4896.4	39.8			
FH (60°-80°)	225.5	1.8			G0/660
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	1024.2	8.3	B3/2500		
BM (30°-60°)	4896.4	39.8	B3/5000		
BH (60°-80°)	225.5	1.8	B1/500		G0/660
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1987.6	1987.6	1987.6	1987.6	1987.6	1987.6	1987.6	1987.6	1987.6	1987.6	1987.6
2.5°	1983.8	1983.8	1988.8	1992.6	1992.6	2002.6	1998.8	1995.1	1995.1	1990.1	2000.1
5°	2012.6	2011.4	2016.4	2018.9	2013.9	2023.9	2017.6	2013.9	2011.4	2006.4	2016.4
7.5°	2043.9	2045.2	2046.4	2051.4	2048.9	2059.0	2054.0	2046.4	2043.9	2036.4	2046.4
10°	2081.5	2081.5	2084.0	2090.3	2091.5	2104.0	2099.0	2090.3	2082.8	2075.2	2085.3
12.5°	2129.1	2130.3	2134.1	2142.9	2147.9	2161.7	2154.1	2136.6	2125.3	2116.6	2127.8
15°	2198.0	2196.7	2201.7	2214.3	2220.5	2230.5	2219.3	2195.5	2181.7	2171.7	2179.2
17.5°	2273.1	2273.1	2275.6	2288.2	2296.9	2311.9	2298.2	2269.4	2256.8	2243.1	2250.6
20°	2355.8	2359.5	2362.0	2370.8	2385.8	2400.9	2389.6	2360.8	2347.0	2329.5	2338.2
22.5°	2464.7	2461.0	2462.2	2477.3	2498.6	2513.6	2504.8	2471.0	2447.2	2433.4	2438.4
25°	2586.2	2585.0	2588.7	2611.3	2635.1	2651.4	2638.8	2595.0	2571.2	2547.4	2557.4
27.5°	2735.3	2736.5	2739.0	2766.6	2804.1	2827.9	2796.6	2752.8	2720.2	2688.9	2696.4
30°	2911.9	2909.3	2916.9	2954.4	3009.5	3047.1	3010.8	2949.4	2903.1	2873.0	2876.8
32.5°	3099.7	3102.2	3122.3	3182.4	3255.0	3321.4	3247.5	3166.1	3106.0	3049.6	3057.1
35°	3302.6	3308.9	3354.0	3442.9	3561.9	3650.8	3548.1	3414.1	3328.9	3256.3	3258.8
37.5°	3541.8	3556.8	3619.5	3752.2	3922.5	4041.5	3891.2	3713.4	3603.2	3513.0	3506.7
40°	3856.2	3873.7	3958.9	4116.7	4323.3	4432.3	4258.2	4075.3	3938.8	3841.1	3826.1
42.5°	4216.9	4239.4	4332.1	4493.6	4700.3	4774.2	4603.9	4449.8	4327.1	4211.9	4206.8
45°	4623.9	4636.4	4711.6	4835.6	4984.6	5002.1	4874.4	4789.2	4665.2	4557.5	4548.8
47.5°	5005.9	5018.4	5069.8	5133.6	5168.7	5106.1	5083.5	5046.0	4885.6	4752.9	4725.3
50°	5296.4	5306.5	5370.3	5395.4	5297.7	5164.9	5208.8	5128.6	4954.5	4805.5	4762.9
52.5°	5276.4	5301.4	5465.5	5608.3	5546.9	5439.2	5321.5	5148.7	4878.1	4674.0	4621.4
55°	4542.5	4576.3	4928.2	5397.9	5817.4	5863.8	5392.9	4835.6	4327.1	4027.7	3973.9
57.5°	2919.4	2928.1	3357.7	4016.5	4962.0	5260.1	4472.4	3645.8	3013.3	2683.9	2661.4
60°	1073.3	1055.8	1380.2	1926.2	2858.0	3173.6	2632.6	1843.5	1315.0	1082.1	1063.3
62.5°	258.0	260.5	323.1	484.7	896.7	1109.6	876.7	489.7	311.8	261.8	259.2
65°	130.3	127.7	129.0	139.0	191.6	229.2	187.9	132.8	127.7	129.0	127.7
67.5°	83.9	82.7	85.2	86.4	85.2	80.2	78.9	81.4	81.4	82.7	80.2
70°	51.3	50.1	52.6	56.4	53.9	47.6	50.1	52.6	50.1	48.8	48.8
72.5°	27.6	27.6	30.1	32.6	30.1	27.6	27.6	28.8	27.6	27.6	27.6
75°	12.5	12.5	13.8	15.0	12.5	12.5	12.5	12.5	12.5	12.5	12.5
77.5°	3.8	3.8	5.0	5.0	3.8	3.8	3.8	3.8	5.0	5.0	5.0
80°	1.3	2.5	2.5	1.3	1.3	1.3	1.3	1.3	2.5	2.5	2.5
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
85°	1.3	1.3	1.3	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
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)