

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: P636972

Luminaire Tested: GWS-SA4B-830-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636972  
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-SA4B-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**

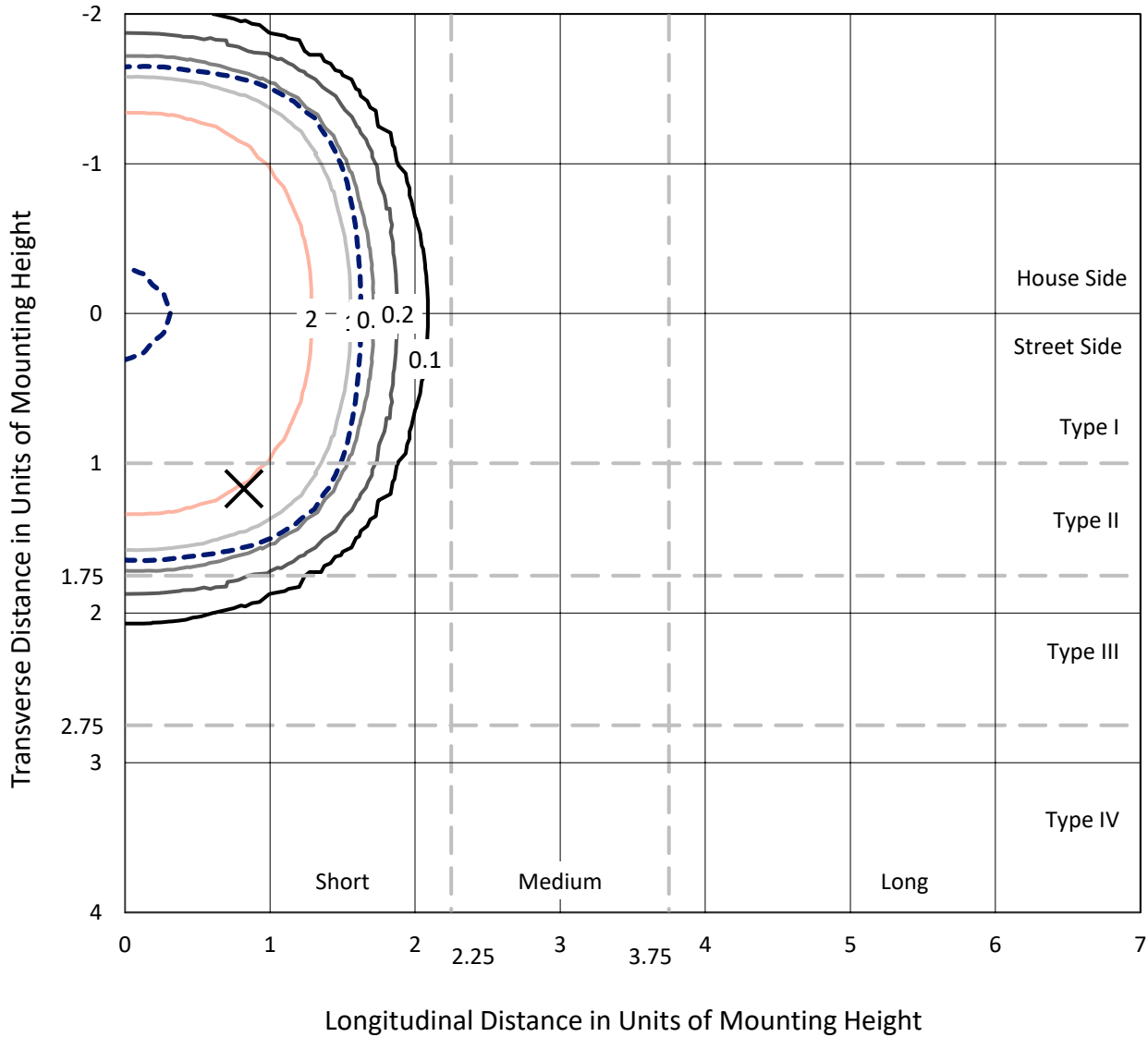
Lumens per Lamp: N/A  
Luminaire Lumens: 10423.8 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

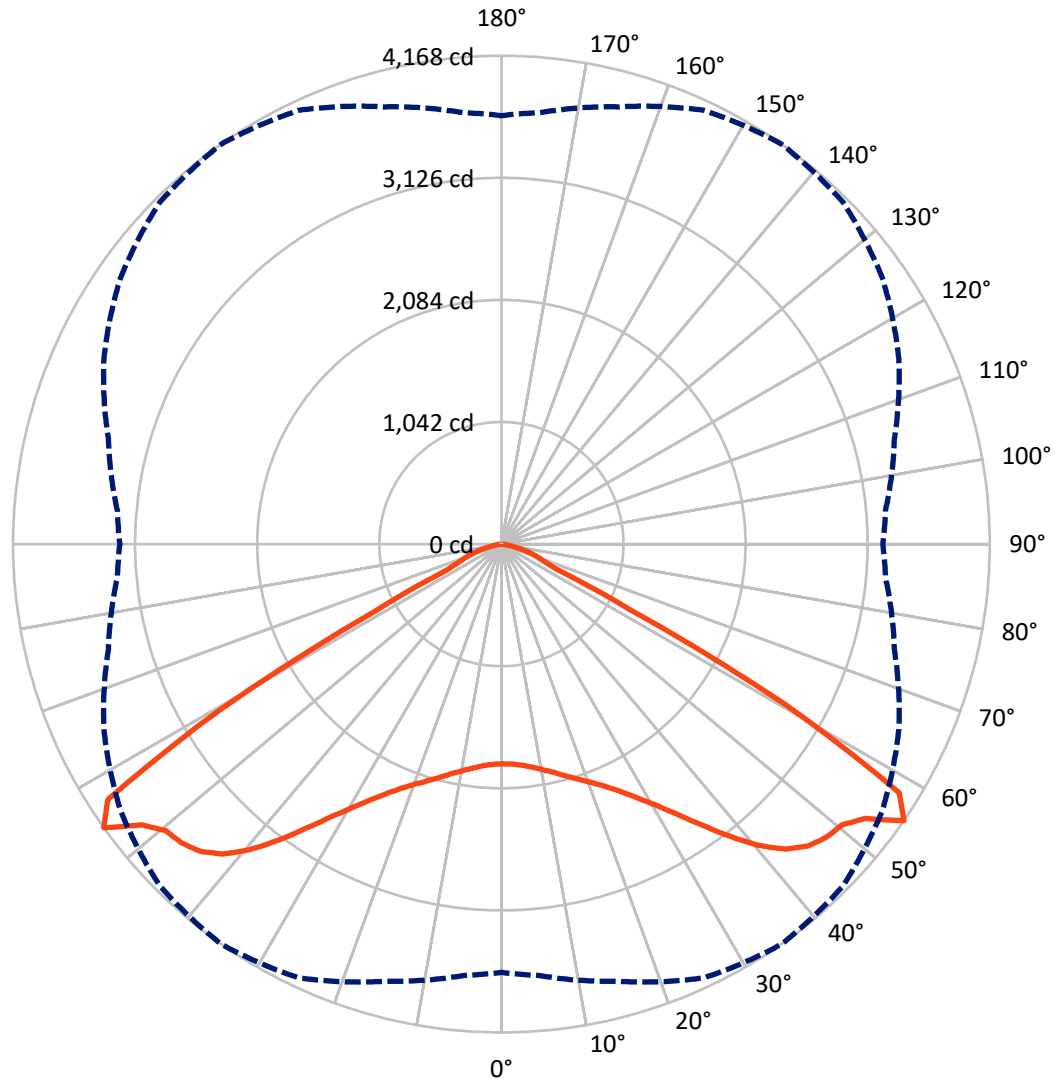
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5211.9	0.0	5211.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5211.9	0.0	5211.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10423.8	0.0	10423.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.9	1.8
10°-20°	582.3	5.6
20°-30°	1077.8	10.3
30°-40°	1802.9	17.3
40°-50°	2747.4	26.4
50°-60°	3077.6	29.5
60°-70°	728.2	7.0
70°-80°	196.3	1.9
80°-90°	28.3	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°	10423.8	100.0
0°-180°	10423.8	100.0

**Coefficient of Utilization**



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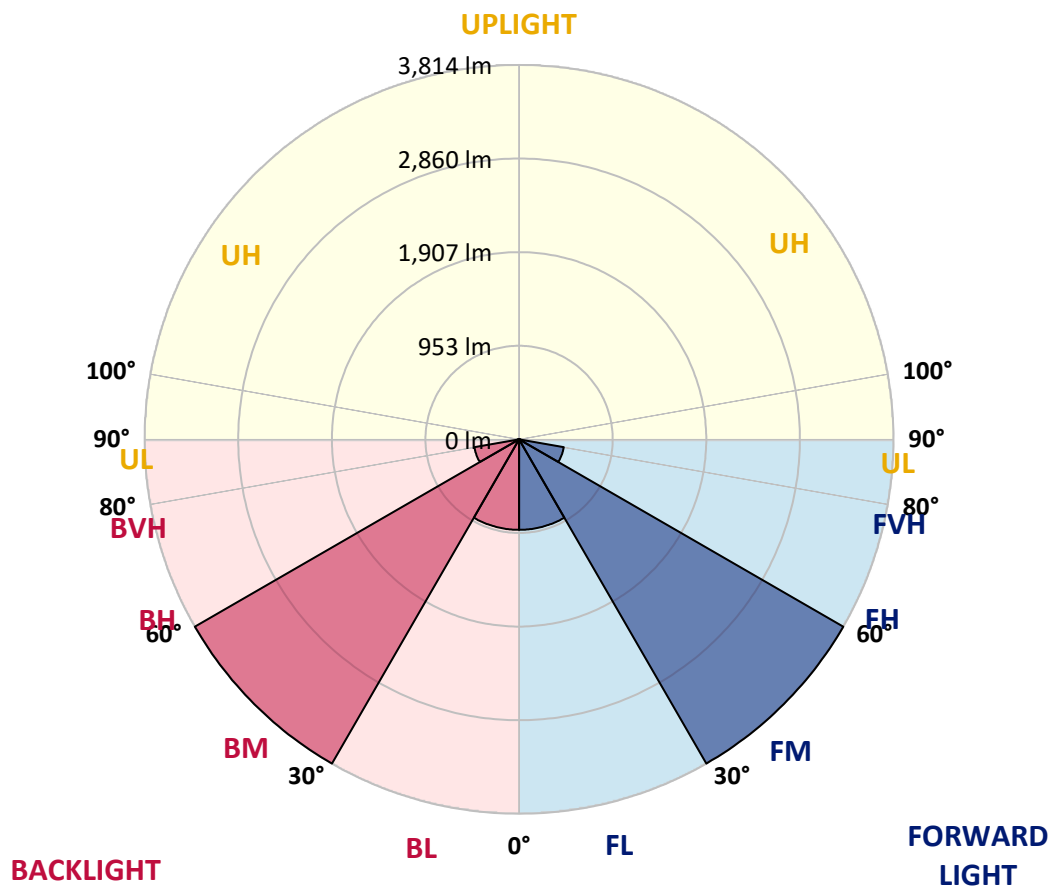
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	921.5	8.8			
FM (30°-60°)	3814.0	36.6			
FH (60°-80°)	462.3	4.4			G0/660
FVH (80°-90°)	14.1	0.1			G1/100
BL (0°-30°)	921.5	8.8	B2/1000		
BM (30°-60°)	3814.0	36.6	B3/5000		
BH (60°-80°)	462.3	4.4	B1/500		G0/660
BVH (80°-90°)	14.1	0.1			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°	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3
2.5°	1871.1	1871.1	1874.4	1878.6	1879.4	1887.6	1886.0	1882.7	1881.0	1877.7	1885.2
5°	1891.8	1892.6	1895.1	1897.5	1895.9	1902.5	1900.0	1895.9	1893.4	1889.3	1896.7
7.5°	1919.0	1919.0	1921.4	1924.7	1923.1	1933.0	1928.0	1922.3	1918.1	1913.2	1919.8
10°	1943.7	1945.3	1947.8	1954.4	1957.7	1968.4	1965.1	1956.9	1950.3	1944.5	1951.9
12.5°	1980.8	1982.4	1984.9	1994.0	1999.7	2010.5	2005.5	1994.0	1984.1	1975.8	1984.1
15°	2028.6	2026.9	2033.5	2045.1	2052.5	2062.4	2056.6	2036.8	2023.6	2012.9	2021.2
17.5°	2077.2	2076.4	2083.0	2097.8	2108.5	2121.7	2111.8	2088.8	2074.7	2061.6	2069.8
20°	2130.0	2132.4	2139.0	2153.1	2168.7	2186.0	2177.8	2153.1	2137.4	2122.6	2129.2
22.5°	2195.1	2195.9	2203.3	2221.5	2242.1	2258.6	2253.6	2223.1	2203.3	2187.7	2195.9
25°	2273.4	2272.6	2282.5	2303.9	2332.8	2349.2	2338.5	2304.7	2283.3	2265.2	2271.8
27.5°	2363.3	2362.4	2377.3	2405.3	2446.5	2469.6	2447.3	2405.3	2375.6	2350.1	2355.8
30°	2476.2	2473.7	2490.2	2528.1	2581.7	2620.4	2587.5	2528.9	2490.2	2463.0	2468.8
32.5°	2601.5	2604.8	2625.4	2676.5	2744.1	2794.4	2744.9	2679.8	2627.9	2588.3	2594.9
35°	2739.1	2739.1	2781.2	2844.6	2941.1	3007.9	2931.2	2837.2	2768.0	2713.6	2715.2
37.5°	2892.4	2894.1	2949.3	3036.7	3162.8	3241.1	3137.3	3021.0	2937.0	2878.4	2875.1
40°	3079.6	3084.5	3141.4	3238.7	3380.4	3452.1	3340.9	3227.1	3141.4	3072.1	3065.6
42.5°	3290.6	3292.2	3352.4	3439.8	3559.3	3602.2	3514.8	3421.6	3351.6	3288.9	3282.3
45°	3491.7	3487.6	3539.5	3604.6	3673.9	3678.0	3629.4	3591.5	3530.5	3476.9	3467.0
47.5°	3648.3	3645.0	3692.0	3727.5	3735.7	3695.3	3711.0	3716.7	3645.9	3573.3	3554.4
50°	3743.9	3750.5	3795.1	3814.8	3766.2	3700.3	3759.6	3744.8	3643.4	3548.6	3518.1
52.5°	3801.6	3811.5	3889.0	3939.3	3889.0	3826.4	3834.6	3747.2	3601.3	3476.0	3436.5
55°	3655.7	3695.3	3862.6	4085.2	4167.6	4123.9	3967.3	3742.3	3471.9	3289.8	3256.0
57.5°	2709.5	2772.1	3020.2	3502.4	4003.6	4162.7	3705.2	3137.3	2727.6	2493.5	2473.7
60°	1383.2	1453.2	1651.9	2147.3	2791.9	3016.1	2580.9	2008.8	1596.7	1407.1	1385.6
62.5°	564.6	576.2	641.3	832.5	1234.0	1423.6	1250.5	877.9	659.4	607.5	608.3
65°	444.3	446.8	443.5	455.0	516.8	573.7	530.0	465.7	454.2	460.0	455.8
67.5°	387.4	388.2	385.8	385.8	388.2	385.8	390.7	393.2	394.8	401.4	397.3
70°	323.9	324.8	324.8	326.4	325.6	321.5	328.9	332.2	333.0	337.1	334.7
72.5°	250.6	253.1	254.7	255.5	254.7	252.2	256.4	262.1	261.3	265.4	261.3
75°	169.8	173.1	174.8	178.0	177.2	177.2	182.2	184.6	182.2	185.5	182.2
77.5°	96.4	98.9	103.9	107.2	110.5	112.9	116.2	117.9	117.0	118.7	117.0
80°	56.1	56.9	61.0	62.6	66.8	70.9	74.2	75.8	76.7	77.5	76.7
82.5°	32.1	33.0	34.6	36.3	39.6	42.9	46.2	48.6	48.6	49.5	48.6
85°	15.7	15.7	16.5	17.3	19.0	21.4	23.9	26.4	27.2	27.2	27.2
87.5°	2.5	2.5	3.3	3.3	4.1	4.9	6.6	8.2	9.1	9.1	9.1
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)