

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: P637466

Luminaire Tested: GWS-SA4C-830-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637466  
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-SA4C-830-U-5NQ-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

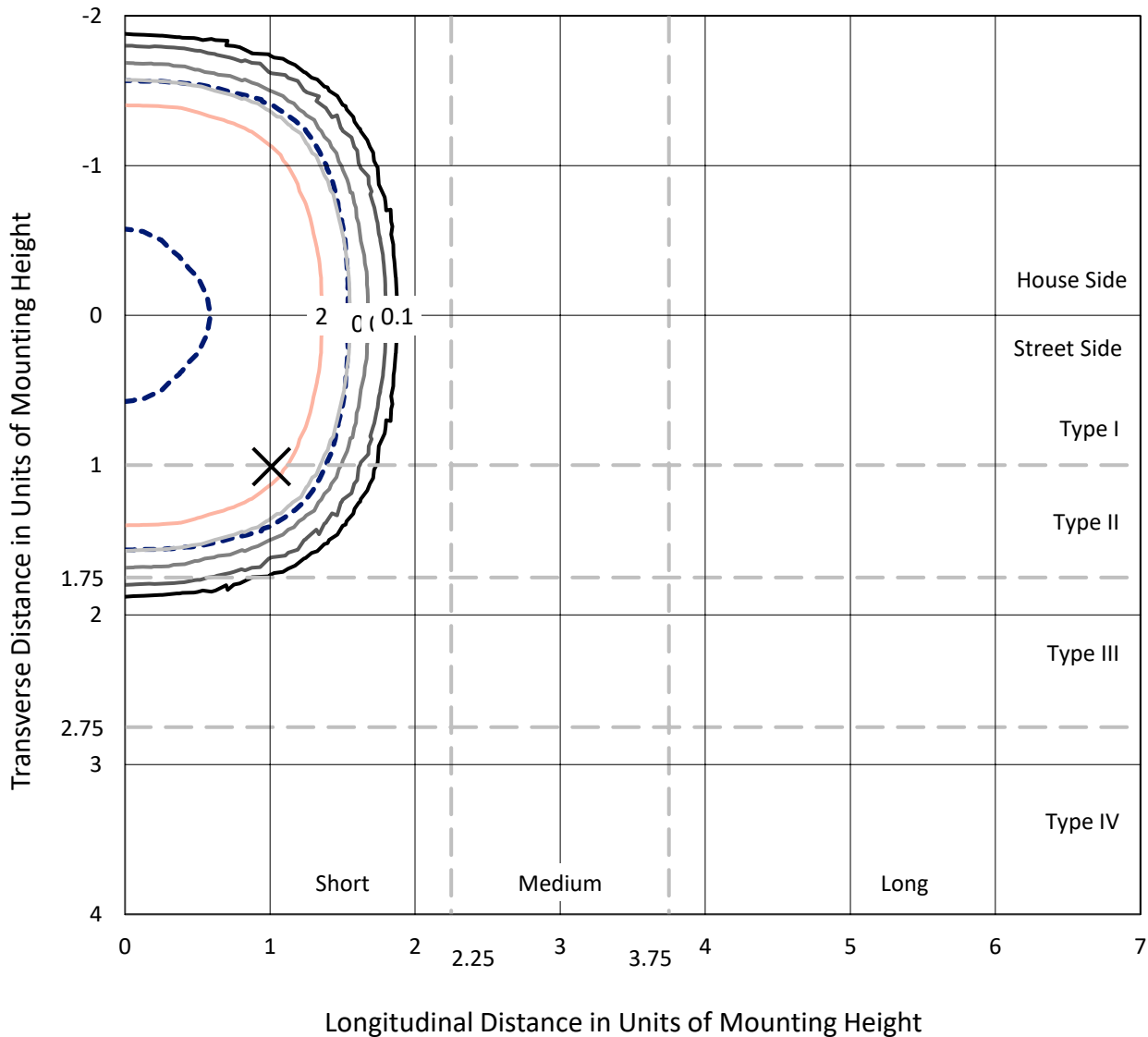
Lumens per Lamp: N/A  
Luminaire Lumens: 10851 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

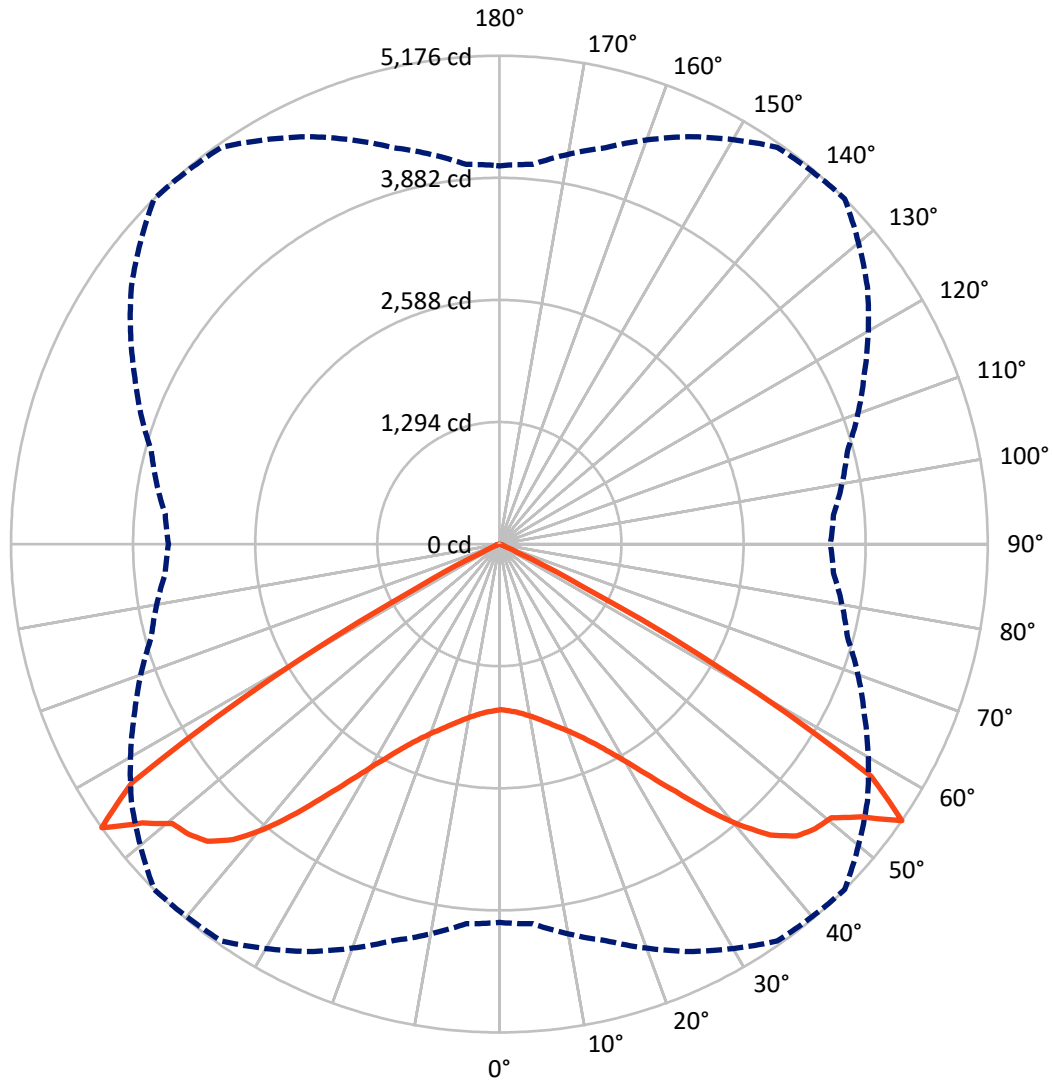
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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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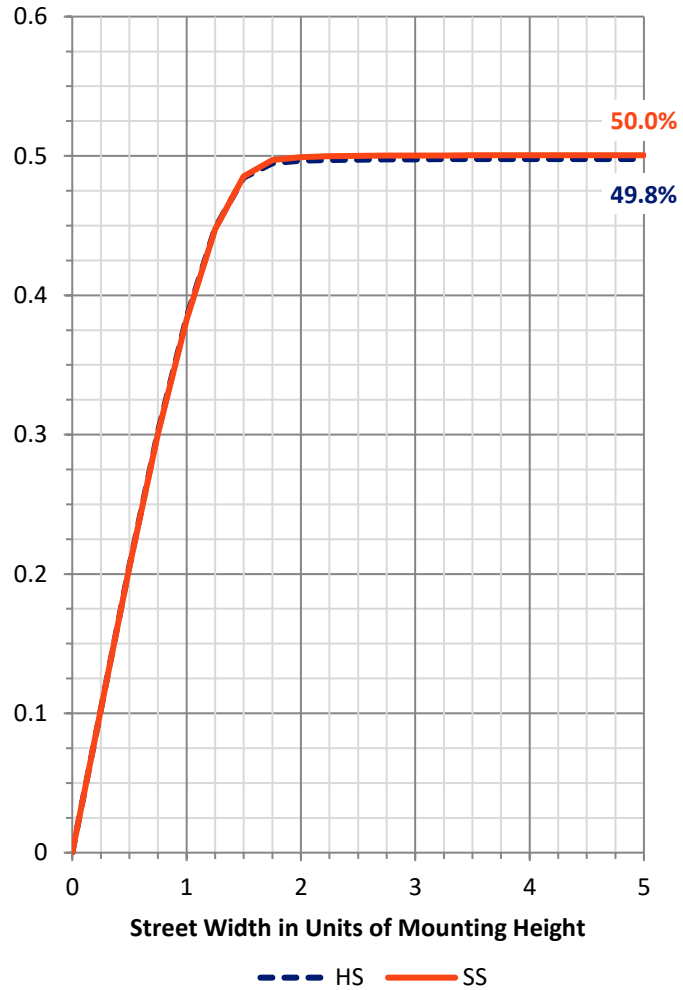
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5425.5	0.0	5425.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5425.5	0.0	5425.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10851.0	0.0	10851.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.9	1.6
10°-20°	557.2	5.1
20°-30°	1079.1	9.9
30°-40°	1933.2	17.8
40°-50°	3241.2	29.9
50°-60°	3469.6	32.0
60°-70°	381.3	3.5
70°-80°	16.8	0.2
80°-90°	0.8	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°	10851.0	100.0
0°-180°	10851.0	100.0

**Coefficient of Utilization**



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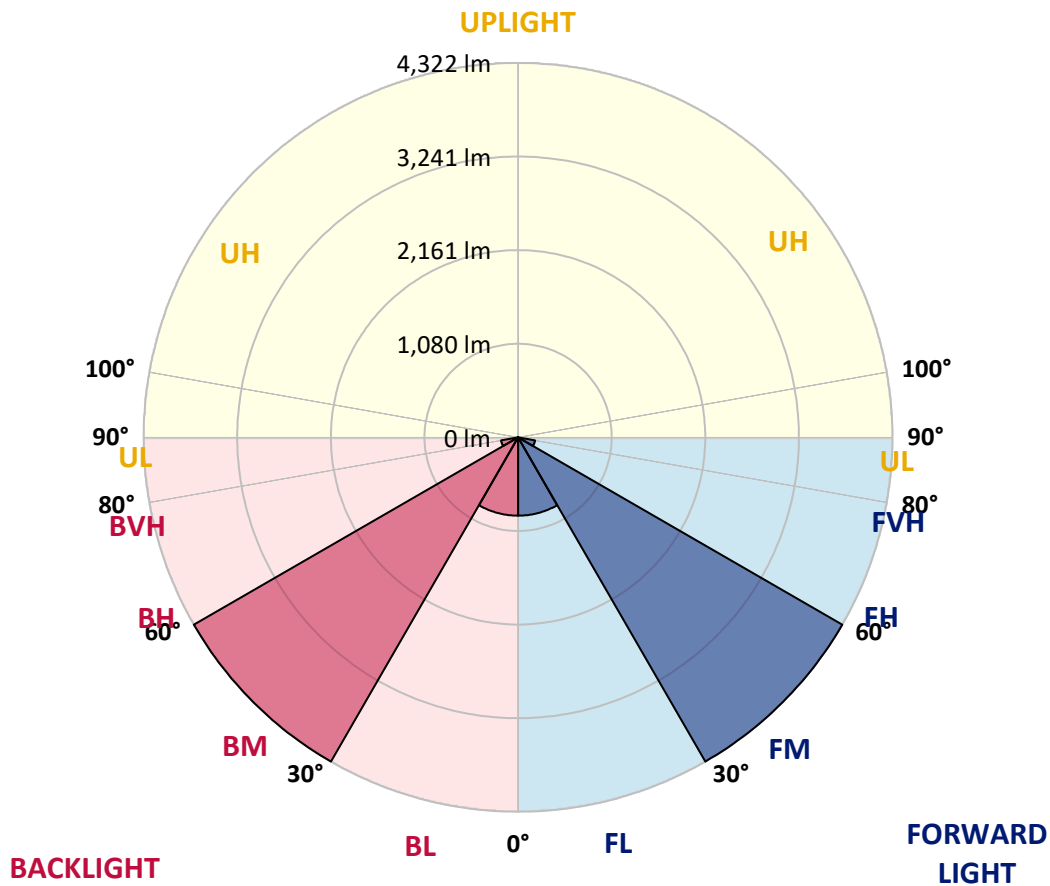
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	904.1	8.3			
FM (30°-60°)	4322.0	39.8			
FH (60°-80°)	199.0	1.8			G0/660
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	904.1	8.3	B2/1000		
BM (30°-60°)	4322.0	39.8	B3/5000		
BH (60°-80°)	199.0	1.8	B1/500		G0/660
BVH (80°-90°)	0.4	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°	1754.4	1754.4	1754.4	1754.4	1754.4	1754.4	1754.4	1754.4	1754.4	1754.4	1754.4
2.5°	1751.1	1751.1	1755.5	1758.8	1758.8	1767.7	1764.3	1761.0	1761.0	1756.6	1765.5
5°	1776.5	1775.4	1779.8	1782.0	1777.6	1786.5	1780.9	1777.6	1775.4	1771.0	1779.8
7.5°	1804.1	1805.2	1806.4	1810.8	1808.6	1817.4	1813.0	1806.4	1804.1	1797.5	1806.4
10°	1837.3	1837.3	1839.5	1845.0	1846.2	1857.2	1852.8	1845.0	1838.4	1831.8	1840.6
12.5°	1879.3	1880.4	1883.7	1891.5	1895.9	1908.1	1901.4	1885.9	1876.0	1868.3	1878.2
15°	1940.1	1939.0	1943.4	1954.5	1960.0	1968.9	1958.9	1937.9	1925.7	1916.9	1923.5
17.5°	2006.4	2006.4	2008.7	2019.7	2027.5	2040.7	2028.6	2003.1	1992.1	1979.9	1986.5
20°	2079.4	2082.7	2084.9	2092.7	2105.9	2119.2	2109.3	2083.8	2071.7	2056.2	2063.9
22.5°	2175.6	2172.3	2173.4	2186.6	2205.4	2218.7	2211.0	2181.1	2160.1	2147.9	2152.4
25°	2282.8	2281.7	2285.0	2304.9	2325.9	2340.3	2329.2	2290.6	2269.6	2248.5	2257.4
27.5°	2414.4	2415.5	2417.7	2442.0	2475.2	2496.2	2468.5	2429.8	2401.1	2373.5	2380.1
30°	2570.2	2568.0	2574.7	2607.8	2656.5	2689.6	2657.6	2603.4	2562.5	2536.0	2539.3
32.5°	2736.1	2738.3	2756.0	2809.0	2873.1	2931.7	2866.5	2794.7	2741.6	2691.8	2698.5
35°	2915.2	2920.7	2960.5	3039.0	3144.0	3222.5	3131.8	3013.5	2938.4	2874.2	2876.5
37.5°	3126.3	3139.6	3194.8	3312.0	3462.4	3567.4	3434.7	3277.7	3180.5	3100.9	3095.3
40°	3403.8	3419.3	3494.4	3633.7	3816.1	3912.3	3758.6	3597.2	3476.7	3390.5	3377.2
42.5°	3722.2	3742.1	3823.9	3966.5	4148.9	4214.1	4063.7	3927.8	3819.4	3717.7	3713.3
45°	4081.4	4092.5	4158.8	4268.3	4399.8	4415.3	4302.5	4227.4	4117.9	4022.8	4015.1
47.5°	4418.6	4429.7	4475.0	4531.4	4562.3	4507.0	4487.1	4454.0	4312.5	4195.3	4171.0
50°	4675.1	4683.9	4740.3	4762.4	4676.2	4559.0	4597.7	4526.9	4373.3	4241.7	4204.1
52.5°	4657.4	4679.5	4824.3	4950.3	4896.2	4801.1	4697.2	4544.6	4305.8	4125.7	4079.2
55°	4009.6	4039.4	4350.1	4764.6	5135.0	5175.9	4760.2	4268.3	3819.4	3555.2	3507.7
57.5°	2576.9	2584.6	2963.8	3545.3	4379.9	4643.0	3947.7	3218.1	2659.8	2369.0	2349.1
60°	947.4	931.9	1218.2	1700.2	2522.7	2801.3	2323.7	1627.3	1160.8	955.1	938.6
62.5°	227.7	229.9	285.2	427.8	791.5	979.5	773.8	432.2	275.3	231.0	228.8
65°	115.0	112.8	113.9	122.7	169.1	202.3	165.8	117.2	112.8	113.9	112.8
67.5°	74.1	73.0	75.2	76.3	75.2	70.8	69.6	71.9	71.9	73.0	70.8
70°	45.3	44.2	46.4	49.7	47.5	42.0	44.2	46.4	44.2	43.1	43.1
72.5°	24.3	24.3	26.5	28.7	26.5	24.3	24.3	25.4	24.3	24.3	24.3
75°	11.1	11.1	12.2	13.3	11.1	11.1	11.1	11.1	11.1	11.1	11.1
77.5°	3.3	3.3	4.4	4.4	3.3	3.3	3.3	3.3	4.4	4.4	4.4
80°	1.1	2.2	2.2	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
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)