

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: P640441

Luminaire Tested: GWS-SA5D-830-U-5WQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640441  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-830-U-5WQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

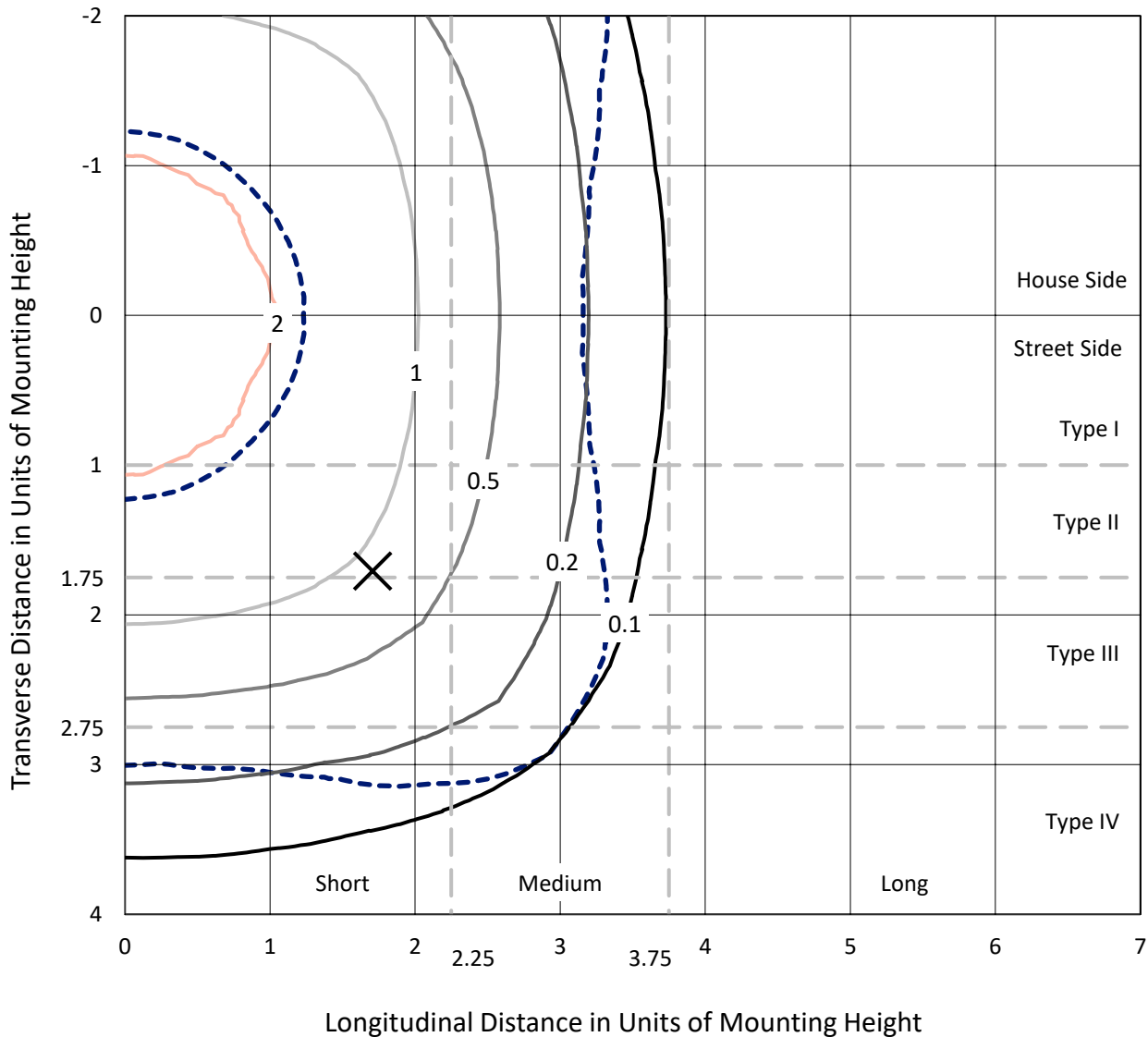
Lumens per Lamp: N/A  
Luminaire Lumens: 24193.5 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

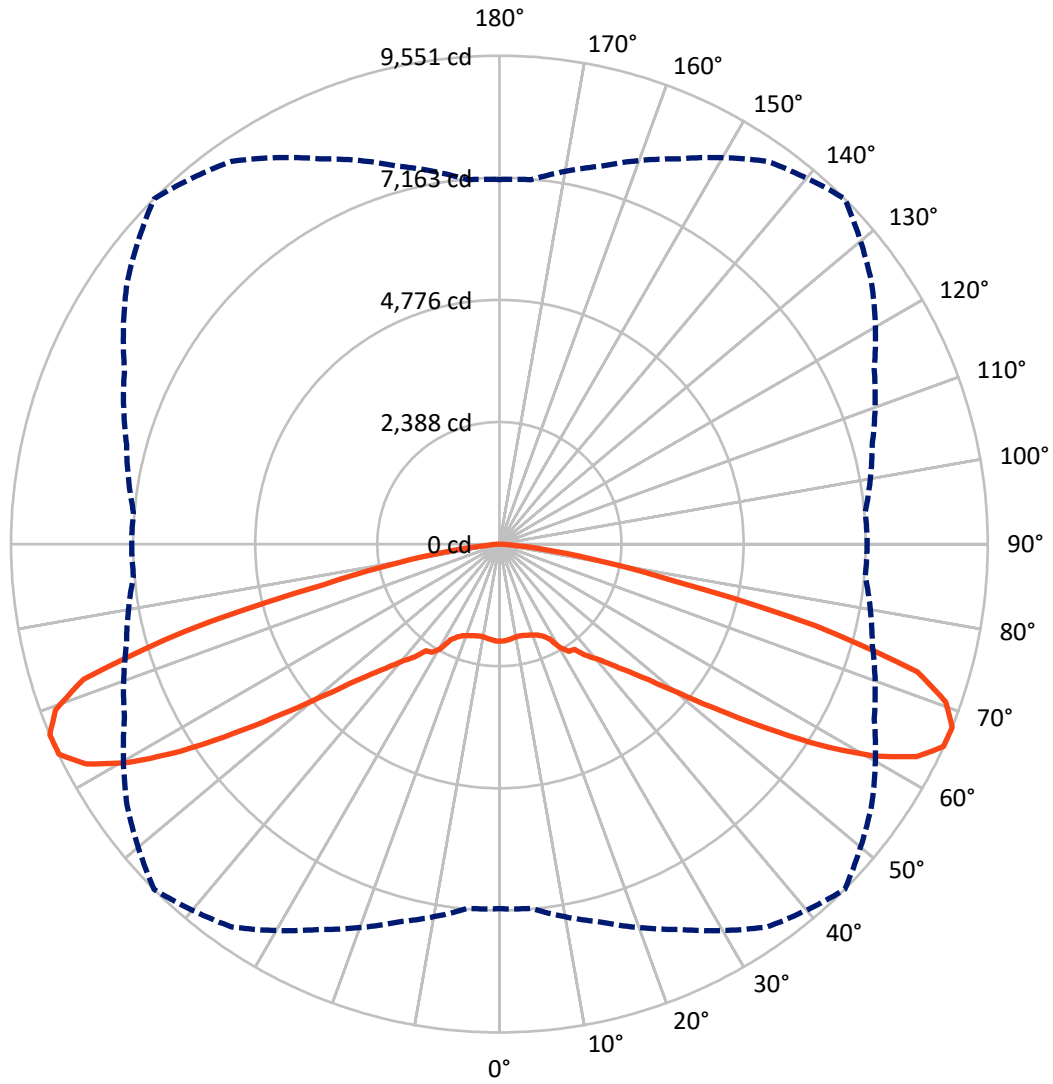
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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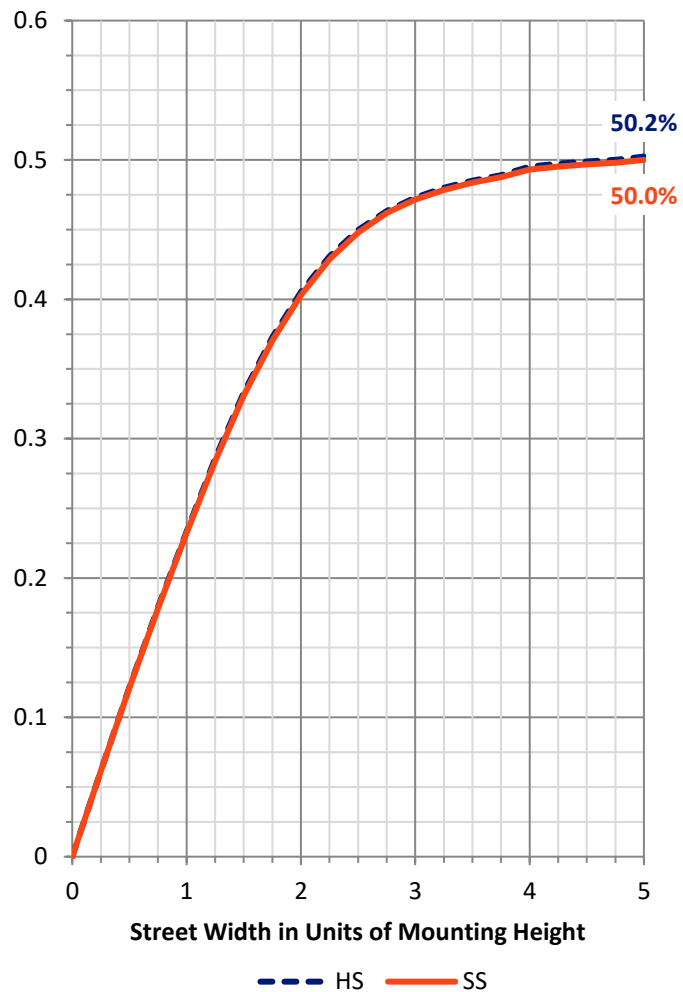
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12096.7	0.0	12096.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12096.7	0.0	12096.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24193.5	0.0	24193.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.1	0.7
10°-20°	528.6	2.2
20°-30°	948.3	3.9
30°-40°	1602.0	6.6
40°-50°	2814.6	11.6
50°-60°	5429.5	22.4
60°-70°	7877.5	32.6
70°-80°	4507.2	18.6
80°-90°	307.6	1.3
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°	24193.5	100.0
0°-180°	24193.5	100.0

**Coefficient of Utilization**



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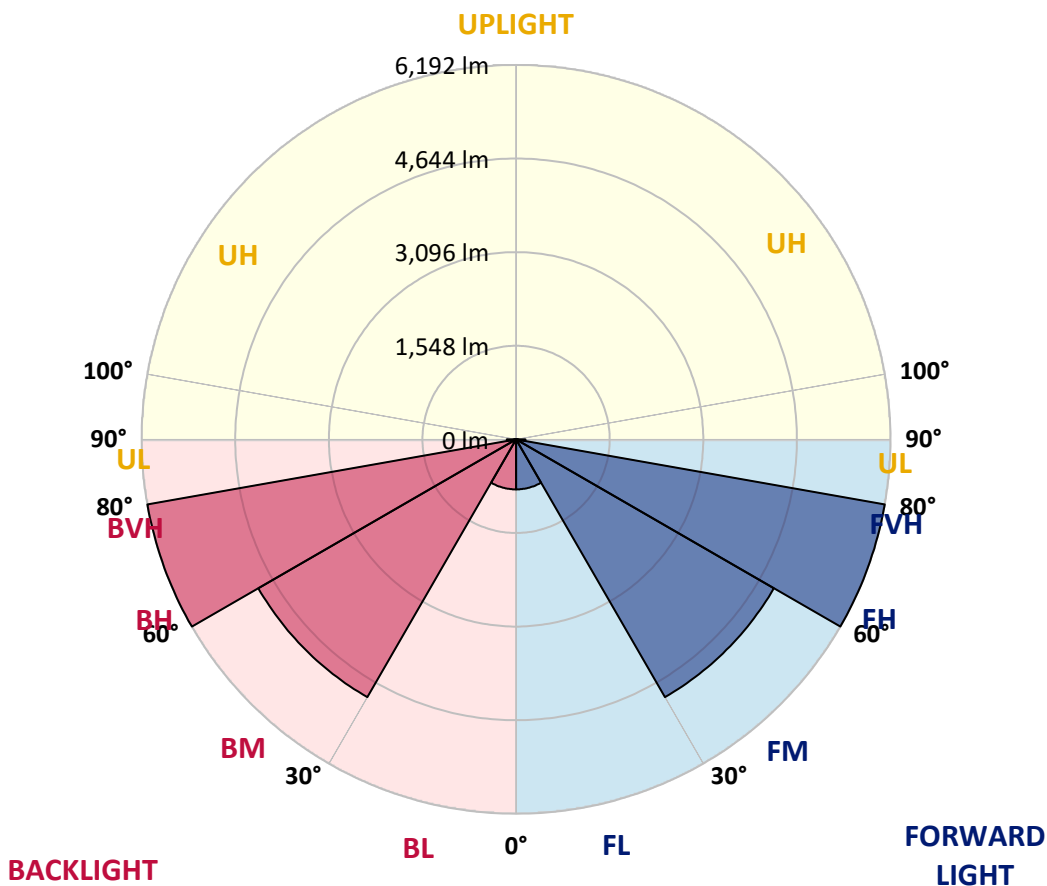
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	827.5	3.4			
FM (30°-60°)	4923.1	20.3			
FH (60°-80°)	6192.3	25.6			G3/7500
FVH (80°-90°)	153.8	0.6			G2/225
BL (0°-30°)	827.5	3.4	B2/1000		
BM (30°-60°)	4923.1	20.3	B3/5000		
BH (60°-80°)	6192.3	25.6	B5		G3/7500
BVH (80°-90°)	153.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1897.3	1897.3	1897.3	1897.3	1897.3	1897.3	1897.3	1897.3	1897.3	1897.3	1897.3
2.5°	1881.9	1883.6	1887.0	1887.0	1890.4	1895.6	1897.3	1893.8	1895.6	1887.0	1895.6
5°	1876.7	1878.4	1880.2	1876.7	1876.7	1878.4	1878.4	1875.0	1876.7	1868.2	1876.7
7.5°	1864.8	1866.5	1866.5	1861.3	1856.2	1859.6	1859.6	1856.2	1857.9	1849.4	1859.6
10°	1854.5	1854.5	1852.8	1842.5	1837.4	1842.5	1844.2	1845.9	1852.8	1845.9	1857.9
12.5°	1861.3	1861.3	1856.2	1842.5	1834.0	1837.4	1840.8	1844.2	1856.2	1854.5	1868.2
15°	1880.2	1881.9	1868.2	1852.8	1847.7	1852.8	1849.4	1847.7	1863.0	1868.2	1883.6
17.5°	1895.6	1895.6	1878.4	1863.0	1864.8	1873.3	1866.5	1857.9	1873.3	1883.6	1900.7
20°	1909.2	1907.5	1888.7	1878.4	1885.3	1897.3	1892.1	1880.2	1890.4	1902.4	1917.8
22.5°	1943.5	1941.7	1921.2	1916.1	1922.9	1934.9	1929.8	1919.5	1931.5	1948.6	1967.4
25°	2041.0	2037.5	2006.8	1989.6	1986.2	1994.8	1993.1	1989.6	2008.5	2029.0	2051.2
27.5°	2171.0	2169.3	2147.0	2129.9	2107.7	2100.8	2106.0	2121.4	2148.8	2164.1	2183.0
30°	2236.0	2236.0	2232.6	2260.0	2307.9	2354.0	2318.1	2260.0	2236.0	2229.2	2248.0
32.5°	2321.5	2330.1	2318.1	2348.9	2429.3	2497.8	2429.3	2335.2	2318.1	2318.1	2338.6
35°	2518.3	2521.7	2502.9	2497.8	2523.4	2532.0	2499.5	2465.2	2484.1	2487.5	2513.1
37.5°	2675.7	2675.7	2667.1	2680.8	2733.8	2766.3	2713.3	2651.7	2656.9	2660.3	2692.8
40°	2918.6	2925.4	2904.9	2903.2	2923.7	2952.8	2896.4	2857.0	2884.4	2892.9	2942.6
42.5°	3221.4	3221.4	3190.6	3182.1	3195.8	3226.5	3173.5	3147.9	3183.8	3190.6	3219.7
45°	3582.4	3590.9	3549.9	3534.5	3541.3	3551.6	3514.0	3502.0	3536.2	3551.6	3602.9
47.5°	4022.1	4030.6	3994.7	3993.0	3986.1	3993.0	3957.1	3950.2	3977.6	3965.6	4020.4
50°	4564.4	4579.8	4549.0	4591.8	4586.6	4607.2	4557.5	4521.6	4521.6	4489.1	4519.9
52.5°	5171.7	5202.5	5217.9	5289.8	5344.5	5395.8	5313.7	5257.3	5175.1	5108.4	5192.2
55°	5833.8	5825.2	5922.7	6080.1	6241.0	6362.4	6201.6	6023.7	5890.2	5751.7	5784.2
57.5°	6413.7	6442.8	6571.1	6858.6	7176.8	7433.4	7144.3	6802.1	6499.3	6300.8	6328.2
60°	6896.2	6920.1	7091.2	7505.2	8061.2	8415.4	7956.9	7392.3	6952.6	6678.9	6708.0
62.5°	7341.0	7363.2	7536.0	7992.8	8694.2	9156.1	8564.2	7792.6	7303.4	7027.9	7045.0
65°	7597.6	7611.3	7847.4	8328.1	9067.2	9544.5	8877.3	8081.8	7601.0	7320.5	7330.7
67.5°	7130.6	7152.8	7650.6	8314.4	9139.0	9551.3	8891.0	8090.3	7549.7	7183.6	7192.2
70°	5625.1	5606.3	6199.9	7341.0	8726.7	9263.9	8495.8	7483.0	6648.1	6136.6	6128.0
72.5°	4288.9	4294.1	4624.3	5406.1	7115.2	8548.8	7496.7	6025.4	5125.5	4737.2	4721.8
75°	3110.2	3158.1	3426.7	3999.8	4976.7	6389.8	5643.9	4465.2	3863.0	3630.3	3596.1
77.5°	1401.1	1462.7	1837.4	2511.4	3327.5	3531.1	3544.8	3031.5	2287.3	1900.7	1840.8
80°	408.9	438.0	562.8	963.2	1550.0	2003.3	1591.0	1337.8	833.2	653.5	622.7
82.5°	172.8	196.7	241.2	266.9	449.9	929.0	578.2	367.8	342.2	277.1	253.2
85°	73.6	78.7	100.9	107.8	145.4	198.5	183.1	165.9	159.1	123.2	112.9
87.5°	30.8	30.8	30.8	27.4	25.7	27.4	37.6	47.9	63.3	49.6	46.2
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)