

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: P637746

Luminaire Tested: GWS-SA4D-740-U-5WQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637746  
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-SA4D-740-U-5WQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

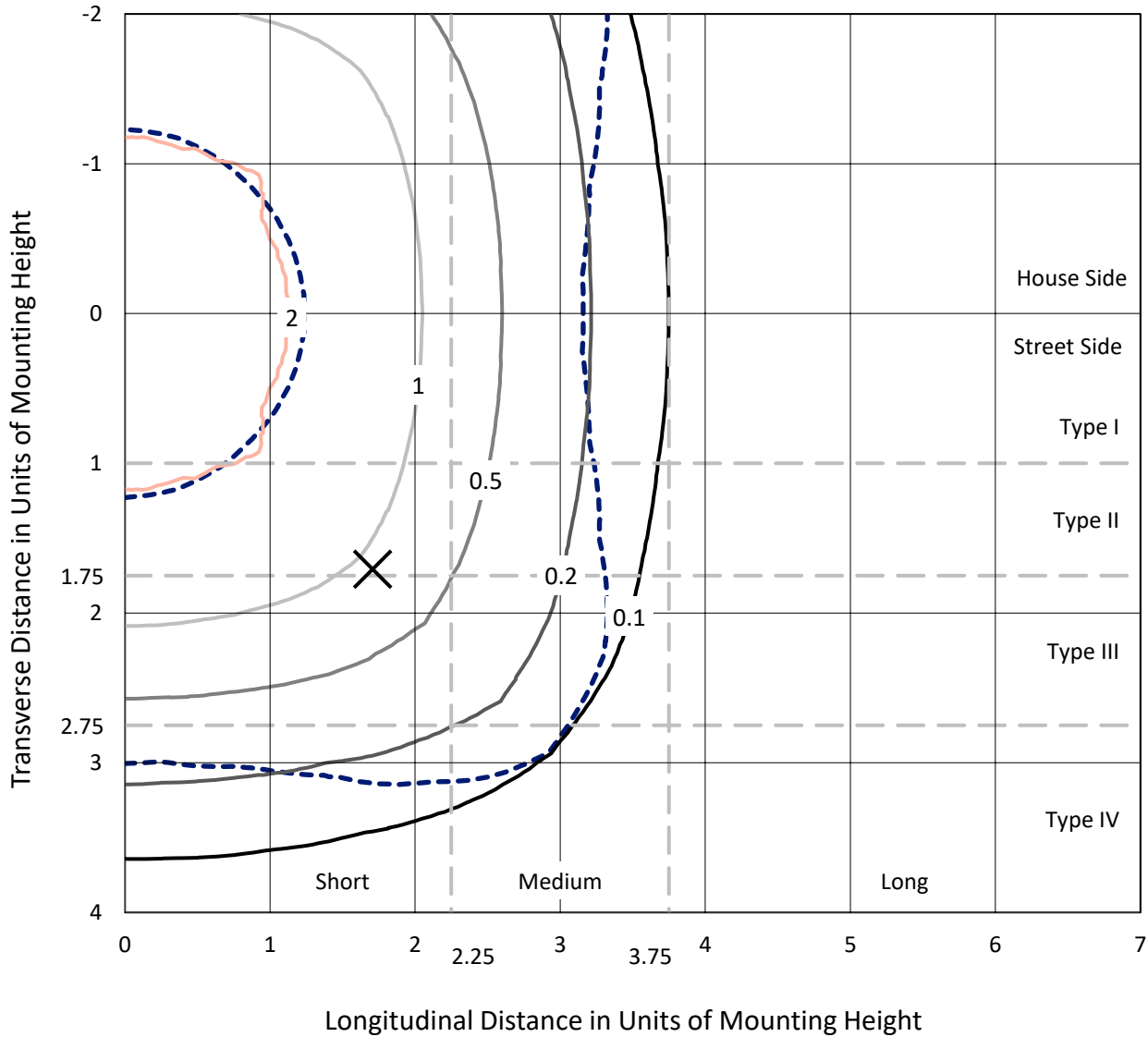
Lumens per Lamp: N/A  
Luminaire Lumens: 24826.9 lumens  
Efficiency: N/A  
Efficacy: 153.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

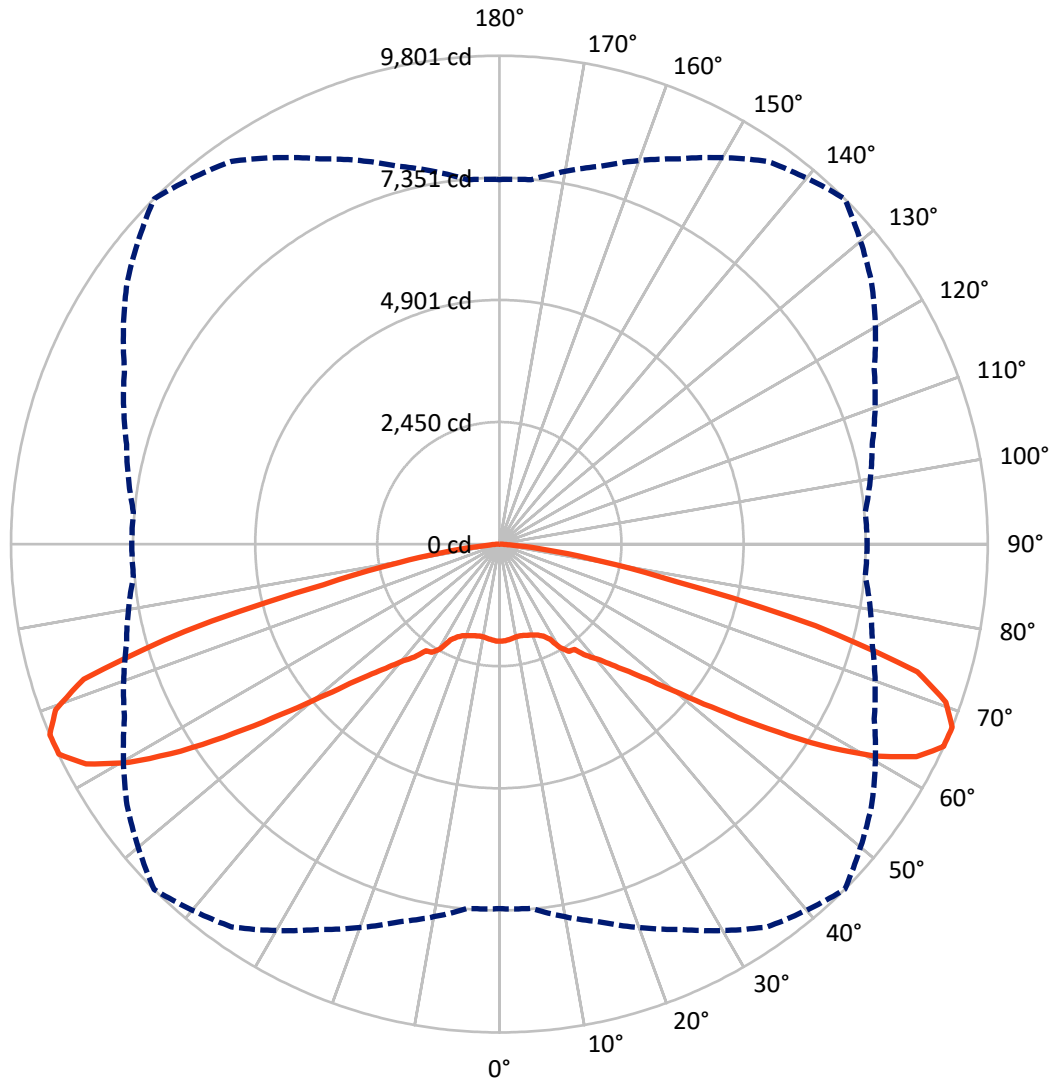
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	12413.5	0.0	12413.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12413.5	0.0	12413.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24826.9	0.0	24826.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.8	0.7
10°-20°	542.5	2.2
20°-30°	973.1	3.9
30°-40°	1643.9	6.6
40°-50°	2888.3	11.6
50°-60°	5571.7	22.4
60°-70°	8083.8	32.6
70°-80°	4625.2	18.6
80°-90°	315.7	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°	24826.9	100.0
0°-180°	24826.9	100.0

**Coefficient of Utilization**



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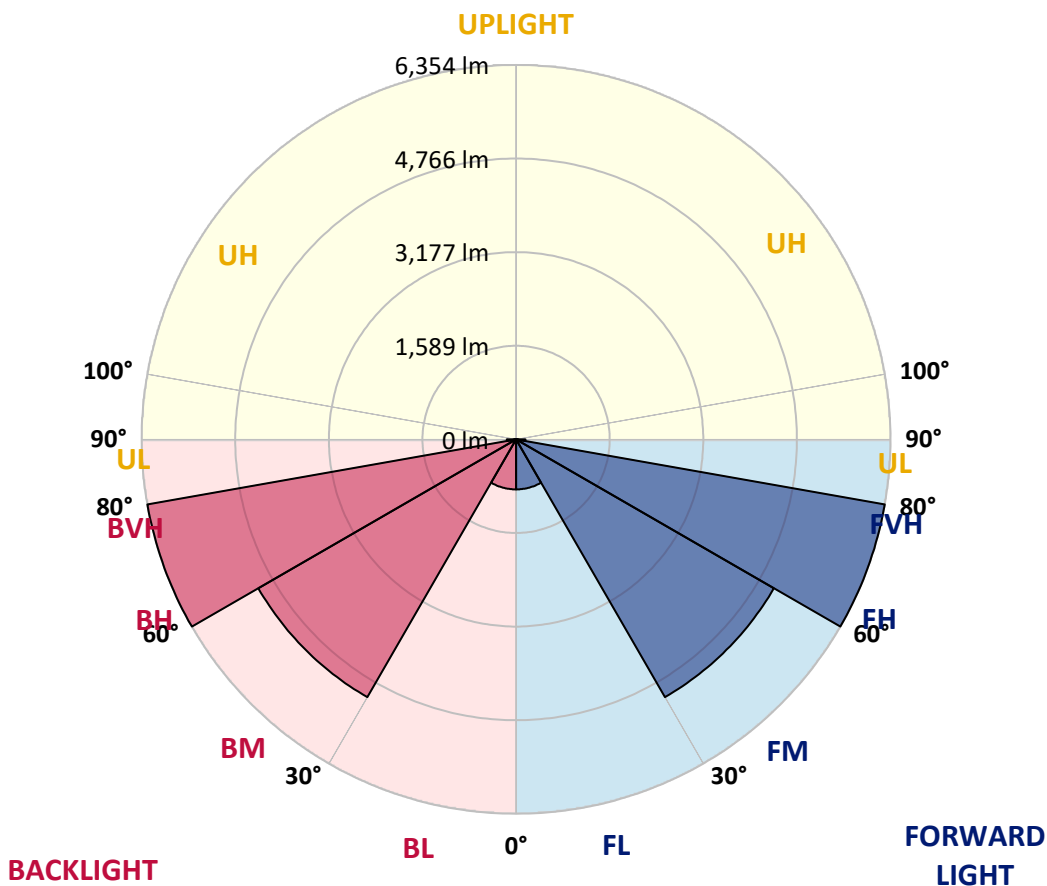
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	849.2	3.4			
FM (30°-60°)	5051.9	20.3			
FH (60°-80°)	6354.5	25.6			G3/7500
FVH (80°-90°)	157.8	0.6			G2/225
BL (0°-30°)	849.2	3.4	B2/1000		
BM (30°-60°)	5051.9	20.3	B4/8500		
BH (60°-80°)	6354.5	25.6	B5		G3/7500
BVH (80°-90°)	157.8	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°	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9	1946.9
2.5°	1931.1	1932.9	1936.4	1936.4	1939.9	1945.2	1946.9	1943.4	1945.2	1936.4	1945.2
5°	1925.9	1927.6	1929.4	1925.9	1925.9	1927.6	1927.6	1924.1	1925.9	1917.1	1925.9
7.5°	1913.6	1915.3	1915.3	1910.1	1904.8	1908.3	1908.3	1904.8	1906.6	1897.8	1908.3
10°	1903.0	1903.0	1901.3	1890.8	1885.5	1890.8	1892.5	1894.3	1901.3	1894.3	1906.6
12.5°	1910.1	1910.1	1904.8	1890.8	1882.0	1885.5	1889.0	1892.5	1904.8	1903.0	1917.1
15°	1929.4	1931.1	1917.1	1901.3	1896.0	1901.3	1897.8	1896.0	1911.8	1917.1	1932.9
17.5°	1945.2	1945.2	1927.6	1911.8	1913.6	1922.4	1915.3	1906.6	1922.4	1932.9	1950.4
20°	1959.2	1957.5	1938.2	1927.6	1934.6	1946.9	1941.7	1929.4	1939.9	1952.2	1968.0
22.5°	1994.3	1992.6	1971.5	1966.2	1973.3	1985.6	1980.3	1969.8	1982.0	1999.6	2018.9
25°	2094.4	2090.9	2059.3	2041.7	2038.2	2047.0	2045.2	2041.7	2061.0	2082.1	2104.9
27.5°	2227.8	2226.1	2203.3	2185.7	2162.9	2155.8	2161.1	2176.9	2205.0	2220.8	2240.1
30°	2294.5	2294.5	2291.0	2319.1	2368.3	2415.7	2378.8	2319.1	2294.5	2287.5	2306.8
32.5°	2382.3	2391.1	2378.8	2410.4	2492.9	2563.1	2492.9	2396.4	2378.8	2378.8	2399.9
35°	2584.2	2587.7	2568.4	2563.1	2589.5	2598.3	2564.9	2529.8	2549.1	2552.6	2578.9
37.5°	2745.7	2745.7	2736.9	2751.0	2805.4	2838.8	2784.3	2721.1	2726.4	2729.9	2763.3
40°	2995.0	3002.0	2981.0	2979.2	3000.3	3030.1	2972.2	2931.8	2959.9	2968.7	3019.6
42.5°	3305.8	3305.8	3274.2	3265.4	3279.4	3311.0	3256.6	3230.3	3267.1	3274.2	3304.0
45°	3676.2	3685.0	3642.8	3627.0	3634.0	3644.6	3606.0	3593.7	3628.8	3644.6	3697.2
47.5°	4127.4	4136.1	4099.3	4097.5	4090.5	4097.5	4060.7	4053.6	4081.7	4069.4	4125.6
50°	4683.9	4699.7	4668.1	4712.0	4706.7	4727.8	4676.9	4640.0	4640.0	4606.6	4638.2
52.5°	5307.1	5338.7	5354.5	5428.2	5484.4	5537.1	5452.8	5394.9	5310.6	5242.2	5328.2
55°	5986.5	5977.7	6077.8	6239.3	6404.3	6529.0	6364.0	6181.4	6044.5	5902.3	5935.6
57.5°	6581.7	6611.5	6743.2	7038.1	7364.6	7628.0	7331.3	6980.2	6669.4	6465.8	6493.9
60°	7076.7	7101.3	7276.9	7701.7	8272.3	8635.7	8165.2	7585.9	7134.7	6853.8	6883.6
62.5°	7533.2	7556.0	7733.3	8202.1	8921.8	9395.9	8788.4	7996.7	7494.6	7211.9	7229.5
65°	7796.5	7810.6	8052.8	8546.2	9304.6	9794.4	9109.7	8293.3	7800.0	7512.1	7522.7
67.5°	7317.2	7340.1	7850.9	8532.1	9378.3	9801.4	9123.7	8302.1	7747.4	7371.7	7380.4
70°	5772.3	5753.0	6362.2	7533.2	8955.2	9506.5	8718.2	7678.9	6822.2	6297.3	6288.5
72.5°	4401.2	4406.5	4745.3	5547.6	7301.4	8772.6	7692.9	6183.1	5259.7	4861.2	4845.4
75°	3191.6	3240.8	3516.4	4104.5	5107.0	6557.1	5791.7	4582.1	3964.1	3725.3	3690.2
77.5°	1437.8	1501.0	1885.5	2577.2	3414.6	3623.5	3637.6	3110.9	2347.2	1950.4	1889.0
80°	419.6	449.4	577.6	988.4	1590.6	2055.8	1632.7	1372.9	855.0	670.6	639.0
82.5°	177.3	201.9	247.5	273.9	461.7	953.3	593.4	377.4	351.1	284.4	259.8
85°	75.5	80.8	103.6	110.6	149.2	203.6	187.8	170.3	163.3	126.4	115.9
87.5°	31.6	31.6	31.6	28.1	26.3	28.1	38.6	49.2	65.0	50.9	47.4
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)