

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: P637691

Luminaire Tested: GWS-SA4D-735-U-5WQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637691  
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-735-U-5WQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

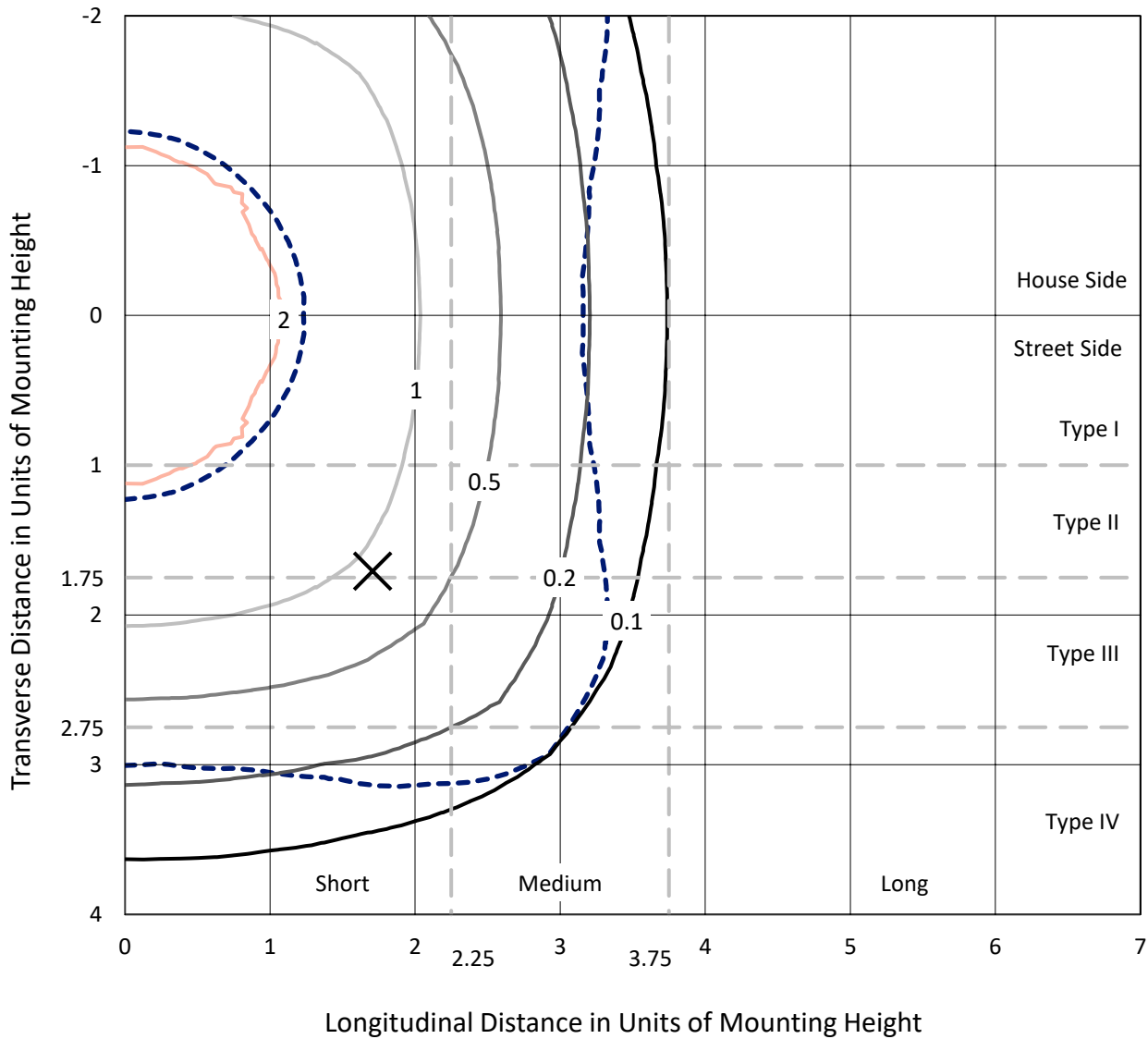
Lumens per Lamp: N/A  
Luminaire Lumens: 24486.6 lumens  
Efficiency: N/A  
Efficacy: 151.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

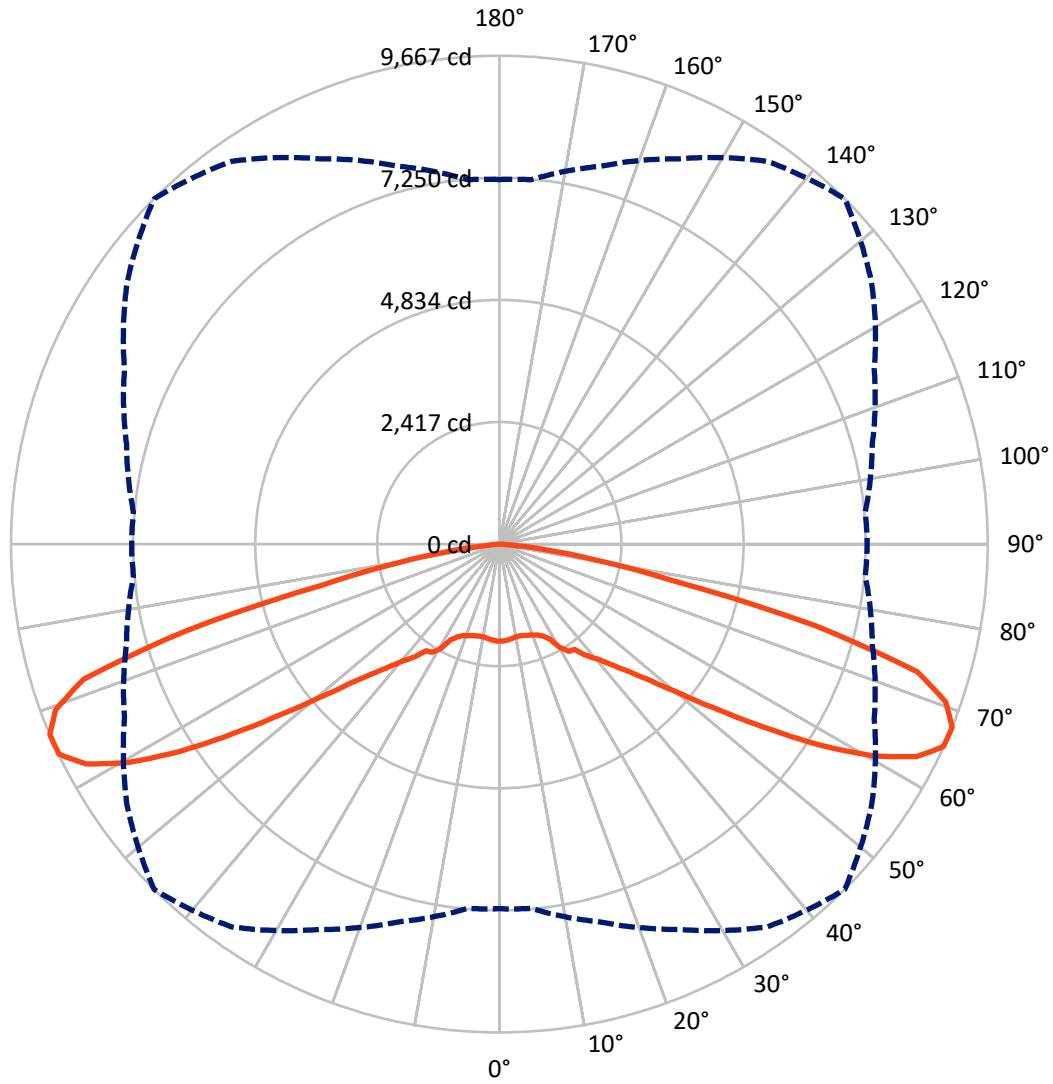
✕ Max cd  
 - - - 1/2 Max cd



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	12243.3	0.0	12243.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12243.3	0.0	12243.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24486.6	0.0	24486.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.3	0.7
10°-20°	535.0	2.2
20°-30°	959.8	3.9
30°-40°	1621.4	6.6
40°-50°	2848.7	11.6
50°-60°	5495.3	22.4
60°-70°	7972.9	32.6
70°-80°	4561.8	18.6
80°-90°	311.3	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°	24486.6	100.0
0°-180°	24486.6	100.0

**Coefficient of Utilization**



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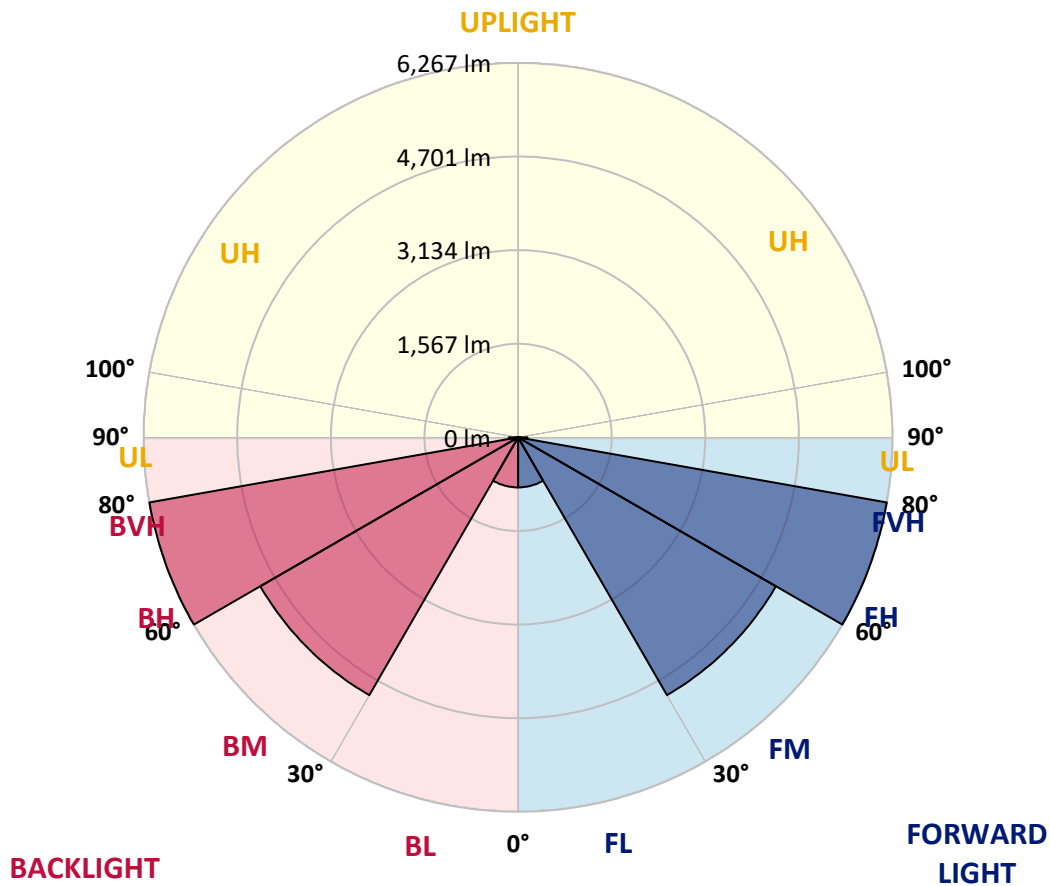
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	837.6	3.4			
FM (30°-60°)	4982.7	20.3			
FH (60°-80°)	6267.4	25.6			G3/7500
FVH (80°-90°)	155.7	0.6			G2/225
BL (0°-30°)	837.6	3.4	B2/1000		
BM (30°-60°)	4982.7	20.3	B3/5000		
BH (60°-80°)	6267.4	25.6	B5		G3/7500
BVH (80°-90°)	155.7	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°	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2
2.5°	1904.7	1906.4	1909.9	1909.9	1913.3	1918.5	1920.2	1916.8	1918.5	1909.9	1918.5
5°	1899.5	1901.2	1902.9	1899.5	1899.5	1901.2	1901.2	1897.7	1899.5	1890.8	1899.5
7.5°	1887.4	1889.1	1889.1	1883.9	1878.7	1882.2	1882.2	1878.7	1880.4	1871.8	1882.2
10°	1877.0	1877.0	1875.2	1864.8	1859.6	1864.8	1866.6	1868.3	1875.2	1868.3	1880.4
12.5°	1883.9	1883.9	1878.7	1864.8	1856.2	1859.6	1863.1	1866.6	1878.7	1877.0	1890.8
15°	1902.9	1904.7	1890.8	1875.2	1870.0	1875.2	1871.8	1870.0	1885.6	1890.8	1906.4
17.5°	1918.5	1918.5	1901.2	1885.6	1887.4	1896.0	1889.1	1880.4	1896.0	1906.4	1923.7
20°	1932.4	1930.6	1911.6	1901.2	1908.1	1920.2	1915.1	1902.9	1913.3	1925.4	1941.0
22.5°	1967.0	1965.3	1944.5	1939.3	1946.2	1958.3	1953.1	1942.8	1954.9	1972.2	1991.2
25°	2065.7	2062.2	2031.1	2013.8	2010.3	2018.9	2017.2	2013.8	2032.8	2053.6	2076.1
27.5°	2197.3	2195.6	2173.1	2155.7	2133.2	2126.3	2131.5	2147.1	2174.8	2190.4	2209.4
30°	2263.1	2263.1	2259.6	2287.3	2335.8	2382.6	2346.2	2287.3	2263.1	2256.2	2275.2
32.5°	2349.7	2358.3	2346.2	2377.4	2458.8	2528.0	2458.8	2363.5	2346.2	2346.2	2367.0
35°	2548.8	2552.3	2533.2	2528.0	2554.0	2562.6	2529.7	2495.1	2514.2	2517.6	2543.6
37.5°	2708.1	2708.1	2699.4	2713.3	2767.0	2799.9	2746.2	2683.8	2689.0	2692.5	2725.4
40°	2954.0	2960.9	2940.1	2938.4	2959.2	2988.6	2931.5	2891.6	2919.3	2928.0	2978.2
42.5°	3260.4	3260.4	3229.3	3220.6	3234.5	3265.6	3212.0	3186.0	3222.3	3229.3	3258.7
45°	3625.8	3634.4	3592.9	3577.3	3584.2	3594.6	3556.5	3544.4	3579.0	3594.6	3646.6
47.5°	4070.8	4079.4	4043.1	4041.4	4034.4	4041.4	4005.0	3998.1	4025.8	4013.6	4069.1
50°	4619.7	4635.3	4604.1	4647.4	4642.2	4663.0	4612.8	4576.4	4576.4	4543.5	4574.7
52.5°	5234.4	5265.5	5281.1	5353.8	5409.3	5461.2	5378.1	5320.9	5237.8	5170.3	5255.1
55°	5904.5	5895.8	5994.5	6153.8	6316.6	6439.5	6276.7	6096.7	5961.6	5821.4	5854.2
57.5°	6491.4	6520.9	6650.7	6941.6	7263.7	7523.4	7230.8	6884.5	6578.0	6377.2	6404.9
60°	6979.7	7004.0	7177.1	7596.2	8158.9	8517.3	8053.3	7481.9	7036.9	6759.8	6789.3
62.5°	7429.9	7452.4	7627.3	8089.6	8799.6	9267.1	8668.0	7887.0	7391.8	7113.1	7130.4
65°	7689.7	7703.5	7942.5	8429.0	9177.0	9660.1	8984.8	8179.7	7693.1	7409.1	7419.5
67.5°	7217.0	7239.5	7743.3	8415.2	9249.7	9667.0	8998.7	8188.3	7641.2	7270.6	7279.3
70°	5693.2	5674.2	6275.0	7429.9	8832.5	9376.1	8598.7	7573.6	6728.7	6210.9	6202.3
72.5°	4340.9	4346.1	4680.3	5471.6	7201.4	8652.4	7587.5	6098.4	5187.6	4794.6	4779.0
75°	3147.9	3196.4	3468.2	4048.3	5037.0	6467.2	5712.3	4519.3	3909.8	3674.3	3639.6
77.5°	1418.1	1480.4	1859.6	2541.9	3367.8	3573.8	3587.7	3068.2	2315.0	1923.7	1863.1
80°	413.8	443.3	569.7	974.8	1568.8	2027.6	1610.3	1354.0	843.2	661.4	630.3
82.5°	174.9	199.1	244.1	270.1	455.4	940.2	585.3	372.3	346.3	280.5	256.3
85°	74.5	79.6	102.2	109.1	147.2	200.9	185.3	168.0	161.0	124.7	114.3
87.5°	31.2	31.2	31.2	27.7	26.0	27.7	38.1	48.5	64.1	50.2	46.8
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)