

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: P633780

Luminaire Tested: GWS-SA2F-740-U-5MQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633780  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-740-U-5MQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

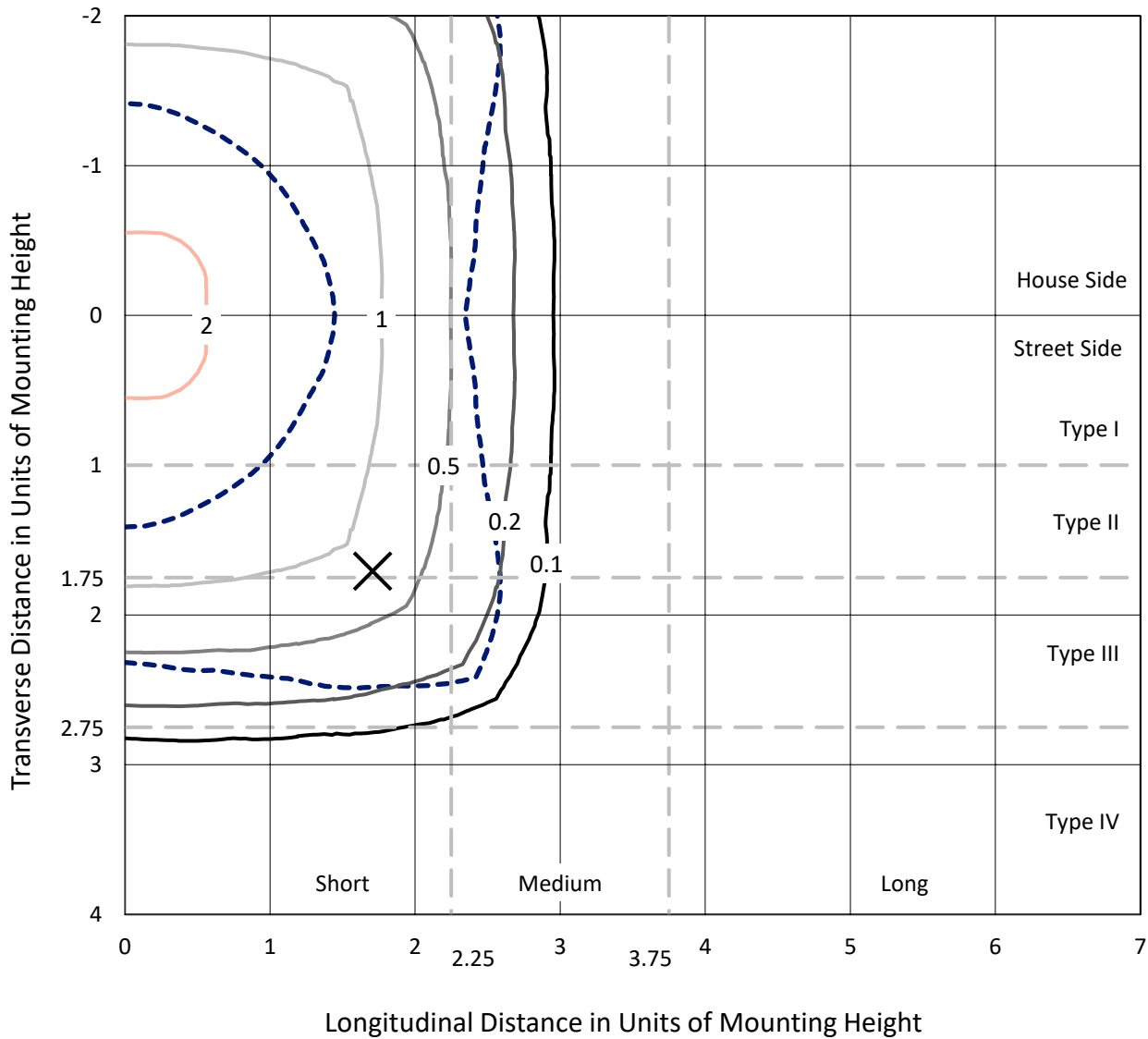
Lumens per Lamp: N/A  
Luminaire Lumens: 16800 lumens  
Efficiency: N/A  
Efficacy: 134.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

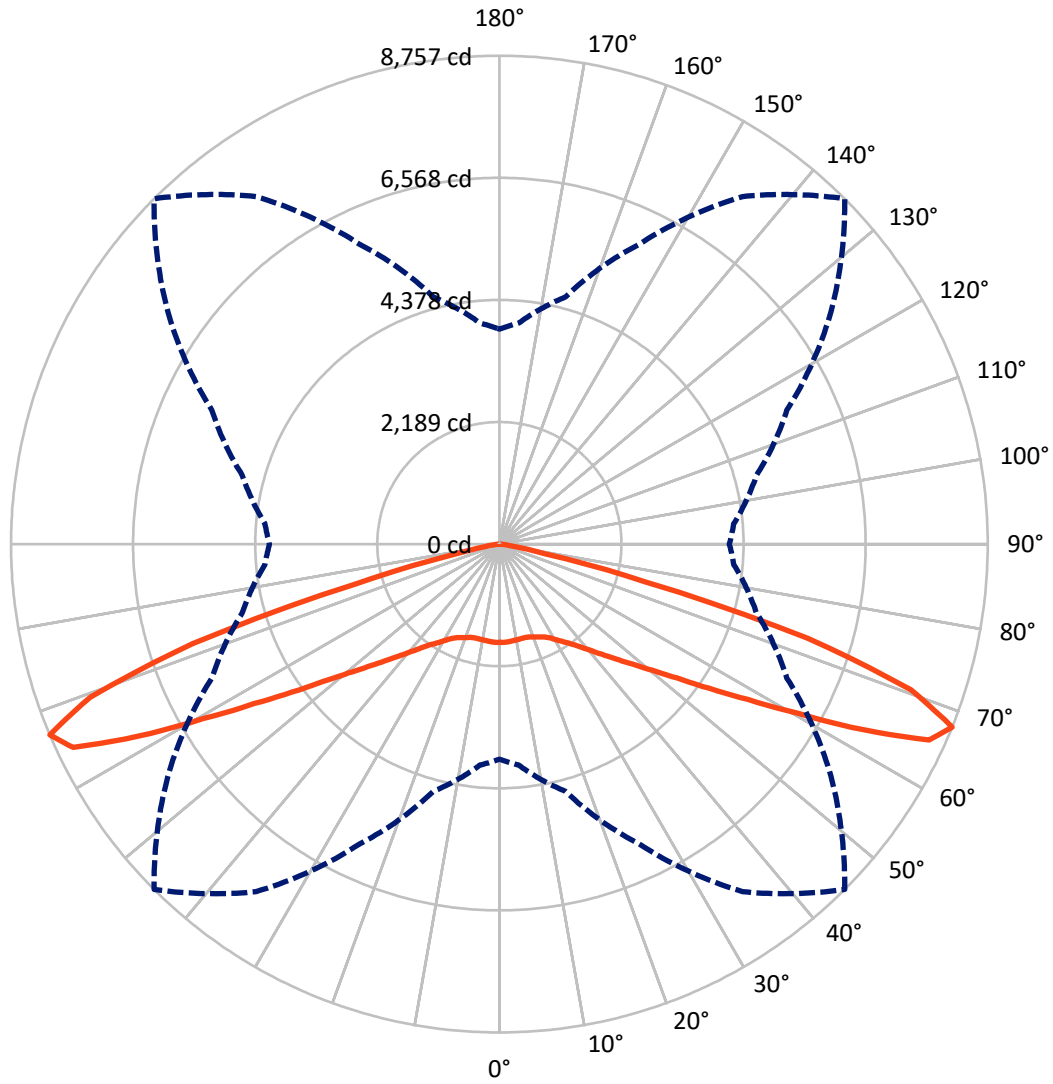
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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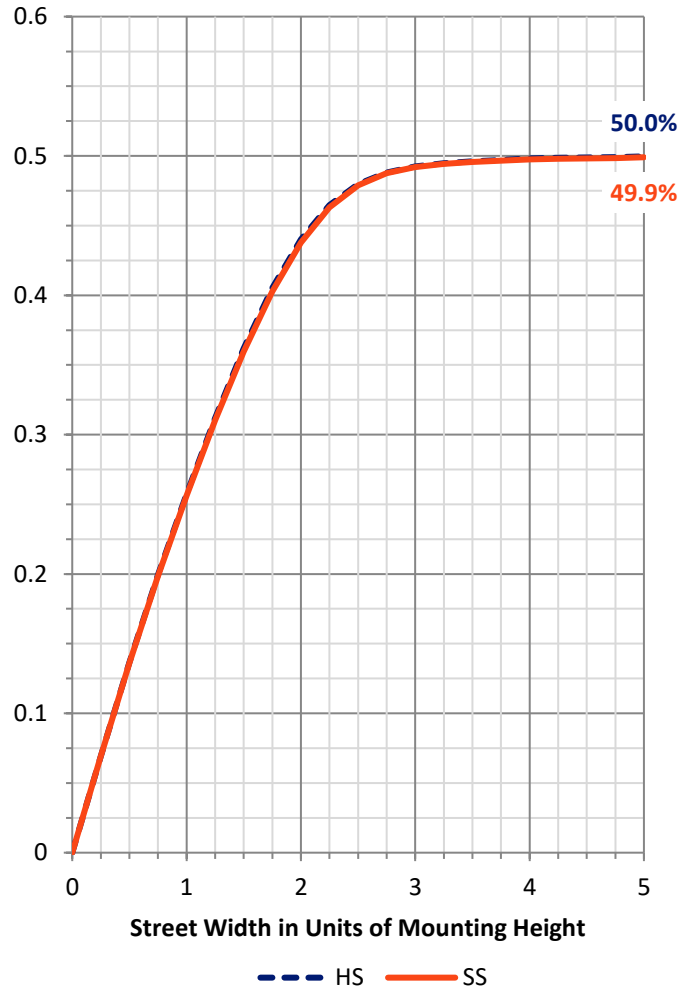
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8400.0	0.0	8400.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8400.0	0.0	8400.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16800.0	0.0	16800.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.5	1.0
10°-20°	489.1	2.9
20°-30°	843.6	5.0
30°-40°	1371.7	8.2
40°-50°	2309.7	13.7
50°-60°	4092.3	24.4
60°-70°	5849.7	34.8
70°-80°	1605.5	9.6
80°-90°	71.9	0.4
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°	16800.0	100.0
0°-180°	16800.0	100.0

**Coefficient of Utilization**



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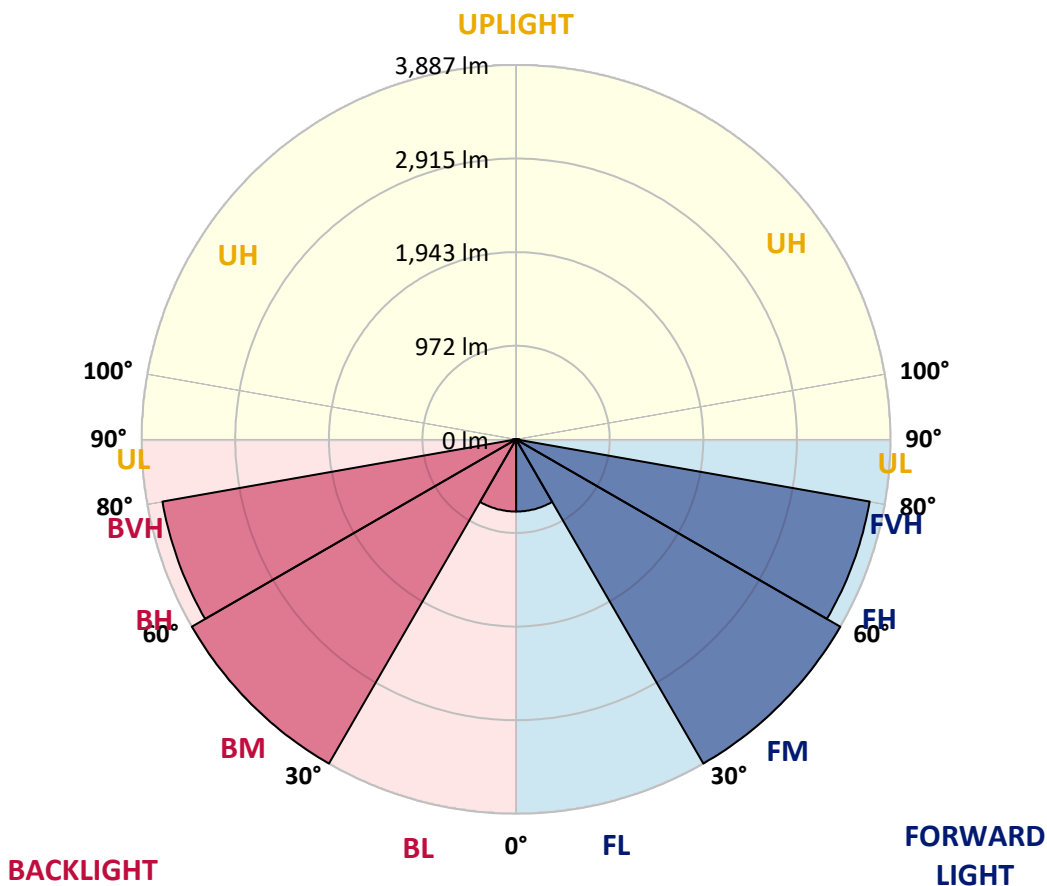
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	749.6	4.5			
FM (30°-60°)	3886.8	23.1			
FH (60°-80°)	3727.6	22.2			G2/5000
FVH (80°-90°)	36.0	0.2			G1/100
BL (0°-30°)	749.6	4.5	B2/1000		
BM (30°-60°)	3886.8	23.1	B3/5000		
BH (60°-80°)	3727.6	22.2	B4/5000		G2/5000
BVH (80°-90°)	36.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1759.5	1759.5	1759.5	1759.5	1759.5	1759.5	1759.5	1759.5	1759.5	1759.5	1759.5
2.5°	1747.9	1746.7	1752.5	1756.0	1754.9	1763.0	1761.8	1759.5	1759.5	1756.0	1765.3
5°	1747.9	1746.7	1751.4	1752.5	1750.2	1757.2	1754.9	1752.5	1752.5	1747.9	1756.0
7.5°	1738.6	1739.7	1743.2	1745.5	1743.2	1749.0	1745.5	1740.9	1739.7	1735.1	1743.2
10°	1721.1	1722.3	1725.8	1731.6	1732.8	1743.2	1737.4	1729.3	1725.8	1721.1	1729.3
12.5°	1710.7	1711.8	1715.3	1722.3	1724.6	1738.6	1732.8	1720.0	1714.1	1709.5	1717.6
15°	1708.3	1709.5	1714.1	1721.1	1724.6	1738.6	1732.8	1717.6	1709.5	1703.7	1710.7
17.5°	1708.3	1710.7	1717.6	1728.1	1735.1	1749.0	1742.1	1724.6	1713.0	1702.5	1709.5
20°	1709.5	1713.0	1723.5	1738.6	1756.0	1775.8	1766.5	1743.2	1726.9	1714.1	1718.8
22.5°	1720.0	1725.8	1738.6	1758.3	1783.9	1807.2	1799.0	1767.6	1744.4	1726.9	1731.6
25°	1756.0	1758.3	1774.6	1800.2	1824.6	1844.4	1836.3	1807.2	1778.1	1757.2	1763.0
27.5°	1820.0	1825.8	1839.7	1866.5	1887.4	1897.9	1896.7	1877.0	1847.9	1829.3	1833.9
30°	1896.7	1902.5	1921.2	1951.4	1972.3	1983.9	1980.5	1965.3	1938.6	1913.0	1917.7
32.5°	1986.3	1988.6	2010.7	2044.4	2066.5	2084.0	2072.3	2056.0	2022.3	1992.1	1994.4
35°	2100.2	2103.7	2127.0	2158.4	2175.8	2189.8	2187.5	2171.2	2135.1	2102.6	2110.7
37.5°	2243.3	2245.6	2266.5	2306.1	2320.0	2330.5	2332.8	2324.7	2287.5	2245.6	2253.7
40°	2421.2	2422.4	2445.6	2480.5	2495.6	2502.6	2503.8	2504.9	2466.6	2435.2	2432.8
42.5°	2628.2	2634.0	2666.6	2700.3	2707.3	2703.8	2715.4	2727.1	2689.8	2646.8	2650.3
45°	2875.9	2879.4	2923.6	2960.8	2948.0	2936.4	2958.5	2981.7	2948.0	2892.2	2875.9
47.5°	3169.0	3175.9	3223.6	3260.8	3239.9	3219.0	3255.0	3279.4	3224.8	3165.5	3150.4
50°	3500.4	3505.1	3572.5	3619.0	3594.6	3556.2	3601.6	3627.2	3553.9	3480.6	3448.1
52.5°	3892.3	3883.0	3972.5	4054.0	4038.8	3988.8	4026.0	4030.7	3921.4	3817.9	3785.3
55°	4370.3	4361.0	4450.5	4540.1	4577.3	4564.5	4547.0	4519.1	4357.5	4247.0	4216.8
57.5°	4927.3	4898.2	5023.8	5144.8	5226.2	5249.4	5175.0	5109.9	4982.0	4845.9	4811.0
60°	5444.8	5443.6	5642.5	5851.8	6075.1	6168.1	5979.8	5803.0	5515.7	5268.0	5218.0
62.5°	5590.2	5614.6	5940.2	6458.9	7010.1	7339.2	6842.6	6257.7	5703.0	5329.7	5263.4
65°	5232.0	5292.5	5755.3	6574.0	7662.5	8467.2	7346.2	6268.2	5494.8	5029.6	4959.9
67.5°	3856.3	3977.2	4590.1	5932.1	7606.7	8756.8	7256.6	5687.9	4772.6	4219.1	4122.6
70°	1902.5	2017.7	2503.8	3902.8	6258.9	7827.6	6278.6	4286.5	3223.6	2691.0	2602.6
72.5°	700.1	746.6	937.3	1670.0	3453.9	5782.1	4293.5	2394.5	1561.8	1243.2	1183.9
75°	343.1	351.2	380.3	560.5	1274.6	2721.2	2017.7	918.7	574.5	500.1	483.8
77.5°	218.6	222.1	236.1	267.5	409.3	857.1	611.7	362.8	281.4	269.8	269.8
80°	122.1	125.6	144.2	166.3	191.9	294.2	219.8	217.5	184.9	161.6	158.2
82.5°	58.1	64.0	91.9	90.7	101.2	147.7	129.1	117.5	118.6	89.5	84.9
85°	26.7	26.7	36.1	43.0	45.4	50.0	59.3	67.4	66.3	45.4	48.8
87.5°	12.8	12.8	12.8	11.6	10.5	9.3	12.8	20.9	30.2	20.9	19.8
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)