

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: P637251

Luminaire Tested: GWS-SA4C-740-U-5WQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637251  
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-SA4C-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**

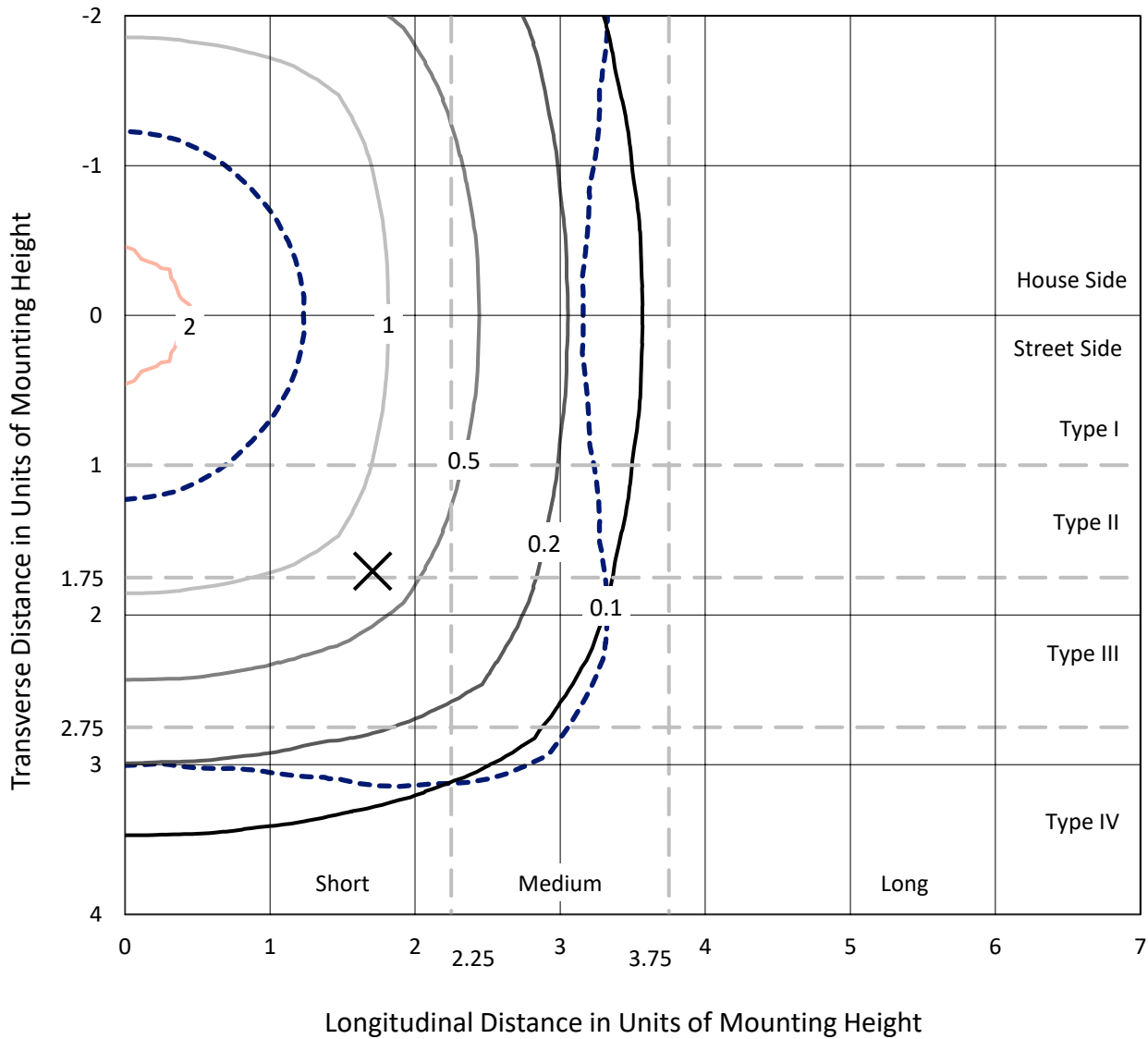
Lumens per Lamp: N/A  
Luminaire Lumens: 19679.5 lumens  
Efficiency: N/A  
Efficacy: 153.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

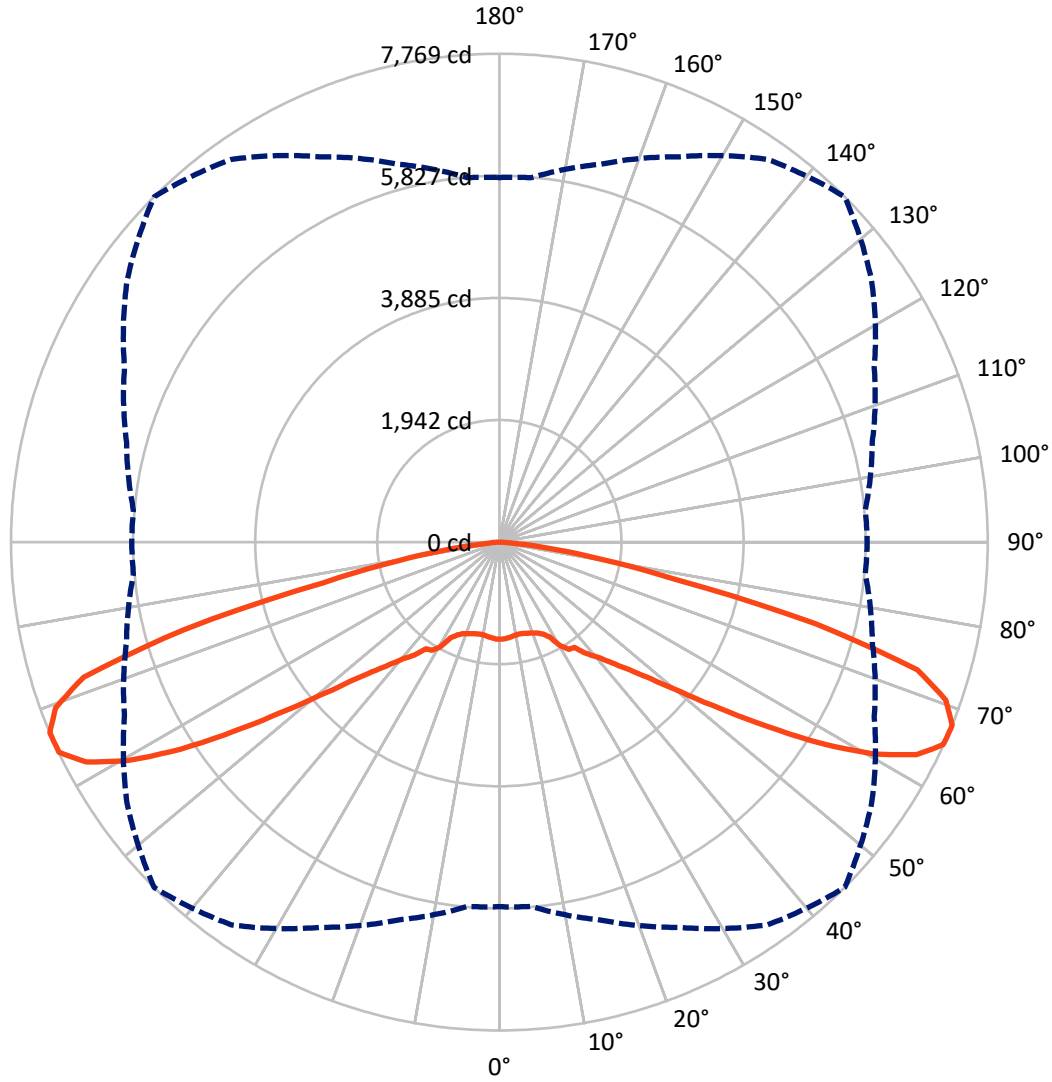
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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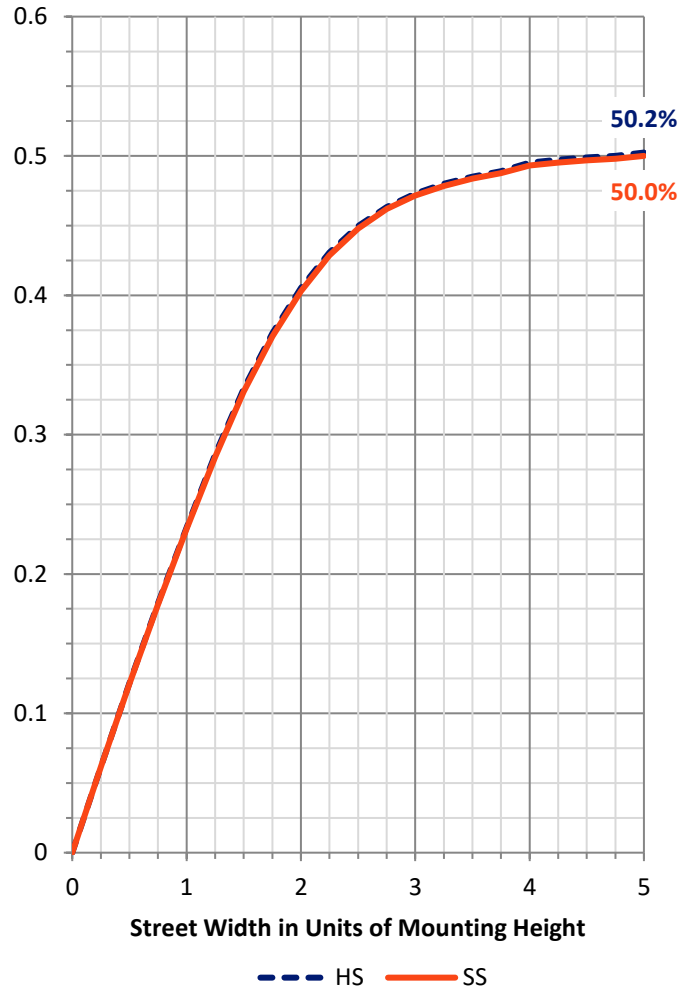
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9839.8	0.0	9839.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9839.8	0.0	9839.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19679.5	0.0	19679.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.9	0.7
10°-20°	430.0	2.2
20°-30°	771.4	3.9
30°-40°	1303.1	6.6
40°-50°	2289.5	11.6
50°-60°	4416.5	22.4
60°-70°	6407.7	32.6
70°-80°	3666.2	18.6
80°-90°	250.2	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°	19679.5	100.0
0°-180°	19679.5	100.0

**Coefficient of Utilization**



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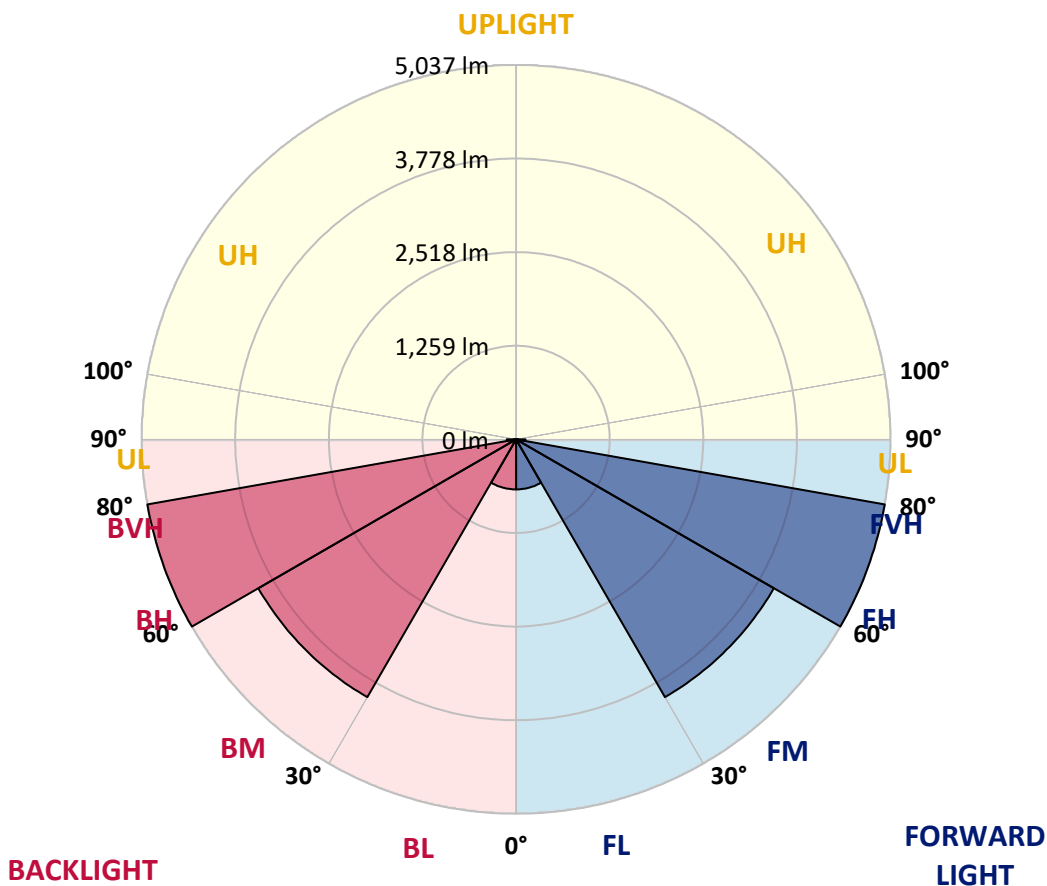
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	673.1	3.4			
FM (30°-60°)	4004.5	20.3			
FH (60°-80°)	5037.0	25.6			G3/7500
FVH (80°-90°)	125.1	0.6			G2/225
BL (0°-30°)	673.1	3.4	B2/1000		
BM (30°-60°)	4004.5	20.3	B3/5000		
BH (60°-80°)	5037.0	25.6	B5		G3/7500
BVH (80°-90°)	125.1	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°	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3	1543.3
2.5°	1530.8	1532.1	1534.9	1534.9	1537.7	1541.9	1543.3	1540.5	1541.9	1534.9	1541.9
5°	1526.6	1528.0	1529.4	1526.6	1526.6	1528.0	1528.0	1525.2	1526.6	1519.6	1526.6
7.5°	1516.8	1518.2	1518.2	1514.1	1509.9	1512.7	1512.7	1509.9	1511.3	1504.3	1512.7
10°	1508.5	1508.5	1507.1	1498.7	1494.6	1498.7	1500.1	1501.5	1507.1	1501.5	1511.3
12.5°	1514.1	1514.1	1509.9	1498.7	1491.8	1494.6	1497.4	1500.1	1509.9	1508.5	1519.6
15°	1529.4	1530.8	1519.6	1507.1	1502.9	1507.1	1504.3	1502.9	1515.4	1519.6	1532.1
17.5°	1541.9	1541.9	1528.0	1515.4	1516.8	1523.8	1518.2	1511.3	1523.8	1532.1	1546.1
20°	1553.0	1551.6	1536.3	1528.0	1533.5	1543.3	1539.1	1529.4	1537.7	1547.4	1560.0
22.5°	1580.8	1579.5	1562.8	1558.6	1564.1	1573.9	1569.7	1561.4	1571.1	1585.0	1600.3
25°	1660.2	1657.4	1632.3	1618.4	1615.6	1622.6	1621.2	1618.4	1633.7	1650.4	1668.5
27.5°	1765.9	1764.5	1746.4	1732.5	1714.4	1708.9	1713.0	1725.6	1747.8	1760.4	1775.7
30°	1818.8	1818.8	1816.0	1838.3	1877.3	1914.8	1885.6	1838.3	1818.8	1813.2	1828.6
32.5°	1888.4	1895.3	1885.6	1910.7	1976.1	2031.7	1976.1	1899.5	1885.6	1885.6	1902.3
35°	2048.4	2051.2	2035.9	2031.7	2052.6	2059.6	2033.1	2005.3	2020.6	2023.4	2044.2
37.5°	2176.4	2176.4	2169.5	2180.6	2223.8	2250.2	2207.1	2157.0	2161.1	2163.9	2190.4
40°	2374.1	2379.6	2362.9	2361.5	2378.2	2401.9	2356.0	2324.0	2346.2	2353.2	2393.5
42.5°	2620.4	2620.4	2595.3	2588.4	2599.5	2624.5	2581.4	2560.5	2589.8	2595.3	2619.0
45°	2914.0	2920.9	2887.6	2875.0	2880.6	2888.9	2858.3	2848.6	2876.4	2888.9	2930.7
47.5°	3271.6	3278.6	3249.4	3248.0	3242.4	3248.0	3218.8	3213.2	3235.4	3225.7	3270.2
50°	3712.8	3725.3	3700.2	3735.0	3730.9	3747.6	3707.2	3678.0	3678.0	3651.5	3676.6
52.5°	4206.8	4231.8	4244.4	4302.8	4347.3	4389.1	4322.3	4276.4	4209.6	4155.3	4223.5
55°	4745.3	4738.4	4817.7	4945.7	5076.5	5175.3	5044.5	4899.8	4791.2	4678.5	4705.0
57.5°	5217.1	5240.7	5345.1	5578.9	5837.7	6046.5	5811.3	5533.0	5286.7	5125.2	5147.5
60°	5609.5	5629.0	5768.1	6104.9	6557.2	6845.2	6472.3	6013.1	5655.4	5432.8	5456.4
62.5°	5971.3	5989.4	6130.0	6501.5	7072.1	7447.8	6966.3	6338.7	5940.7	5716.7	5730.6
65°	6180.1	6191.2	6383.2	6774.3	7375.4	7763.7	7221.0	6573.9	6182.8	5954.6	5963.0
67.5°	5800.2	5818.2	6223.2	6763.1	7433.9	7769.3	7232.1	6580.8	6141.1	5843.3	5850.2
70°	4575.6	4560.2	5043.1	5971.3	7098.5	7535.5	6910.6	6086.8	5407.7	4991.6	4984.7
72.5°	3488.7	3492.9	3761.5	4397.4	5787.6	6953.8	6098.0	4901.2	4169.2	3853.3	3840.8
75°	2529.9	2568.9	2787.4	3253.5	4048.1	5197.6	4590.9	3632.1	3142.2	2953.0	2925.1
77.5°	1139.7	1189.8	1494.6	2042.9	2706.6	2872.2	2883.4	2465.9	1860.6	1546.1	1497.4
80°	332.6	356.2	457.8	783.5	1260.8	1629.6	1294.2	1088.2	677.7	531.6	506.5
82.5°	140.6	160.0	196.2	217.1	366.0	755.6	470.4	299.2	278.3	225.4	206.0
85°	59.8	64.0	82.1	87.7	118.3	161.4	148.9	135.0	129.4	100.2	91.8
87.5°	25.0	25.0	25.0	22.3	20.9	22.3	30.6	39.0	51.5	40.4	37.6
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)