

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: P636481

Luminaire Tested: GWS-SA3F-830-U-5WQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636481  
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-SA3F-830-U-5WQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19691.3 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

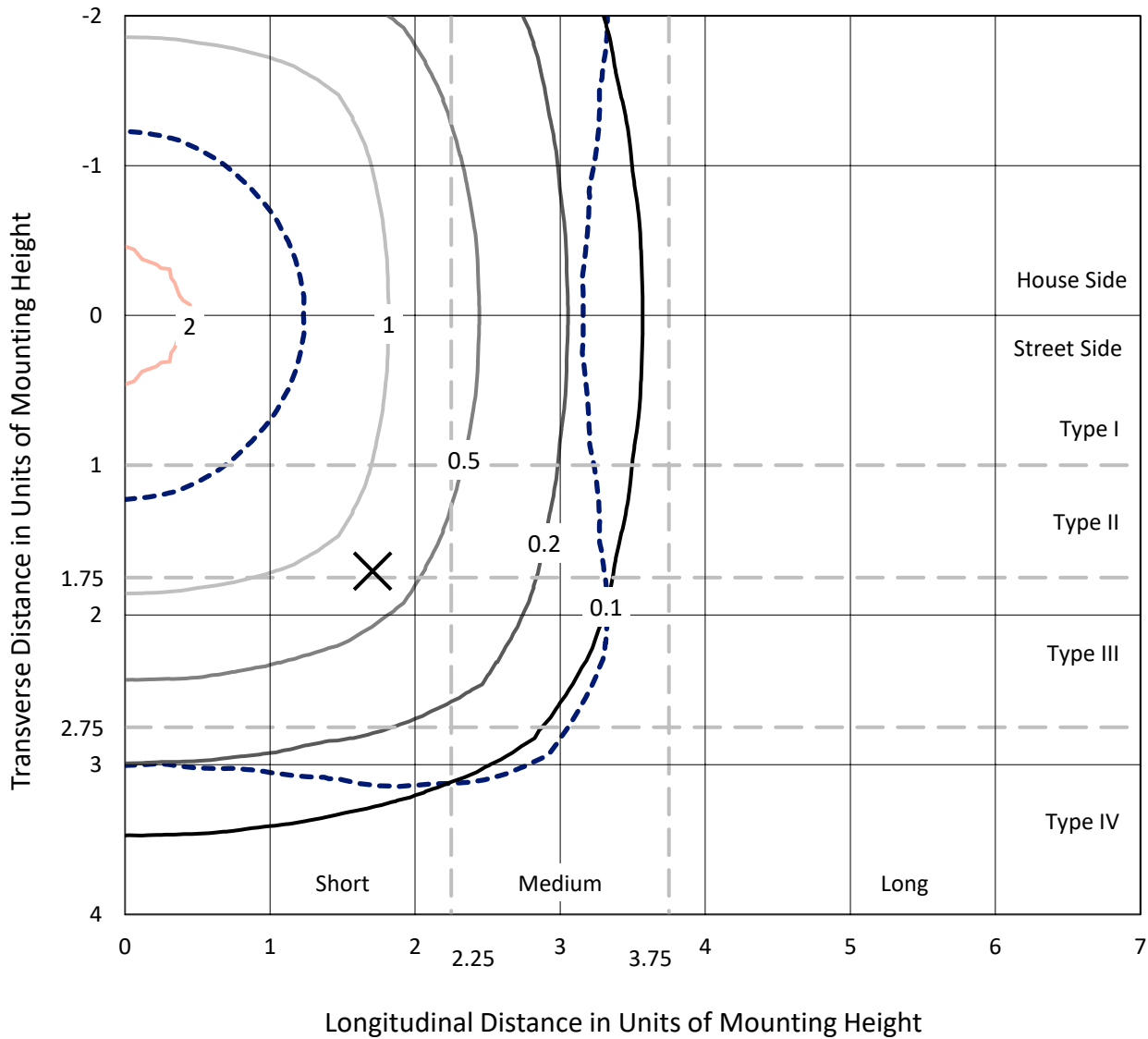
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

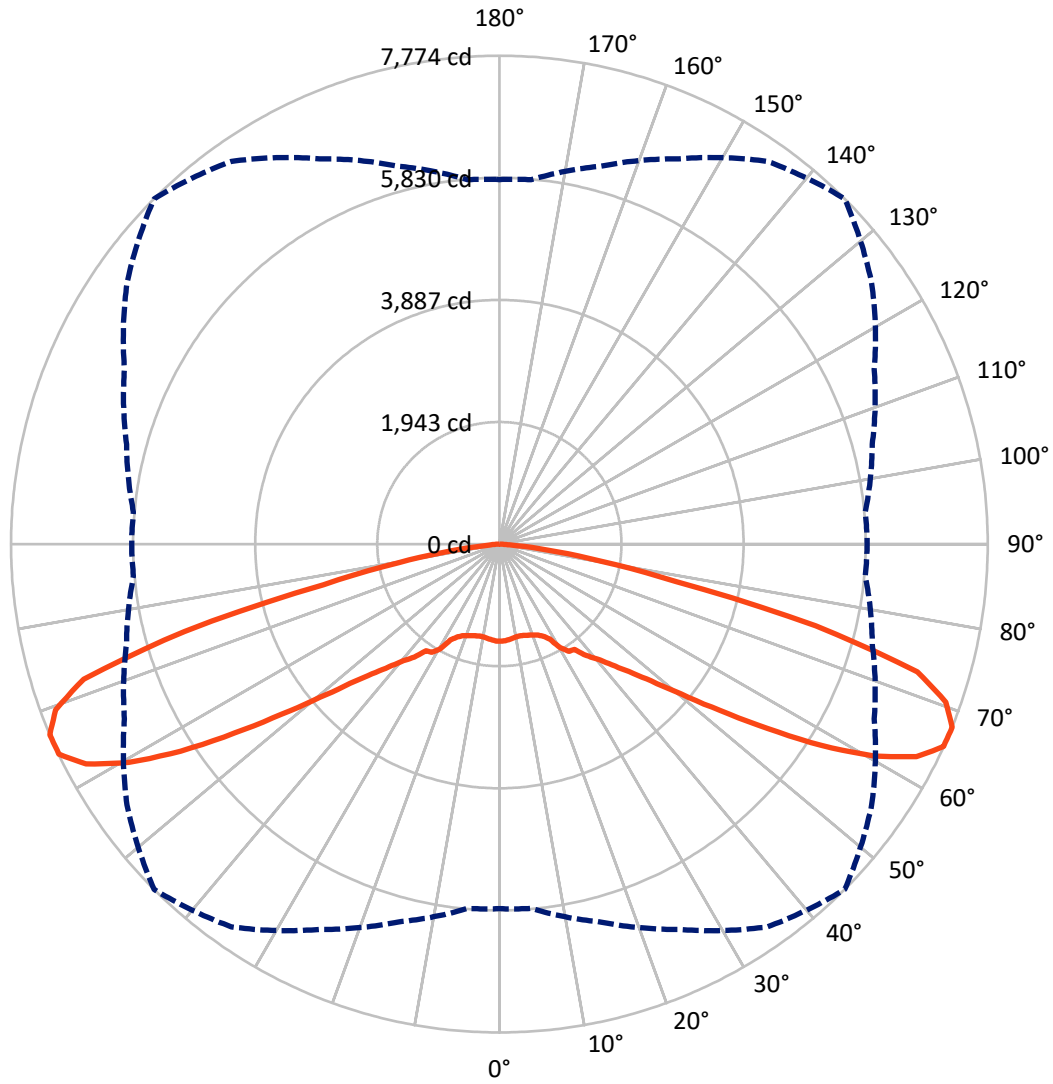
✕ Max cd  
 - - - 1/2 Max cd



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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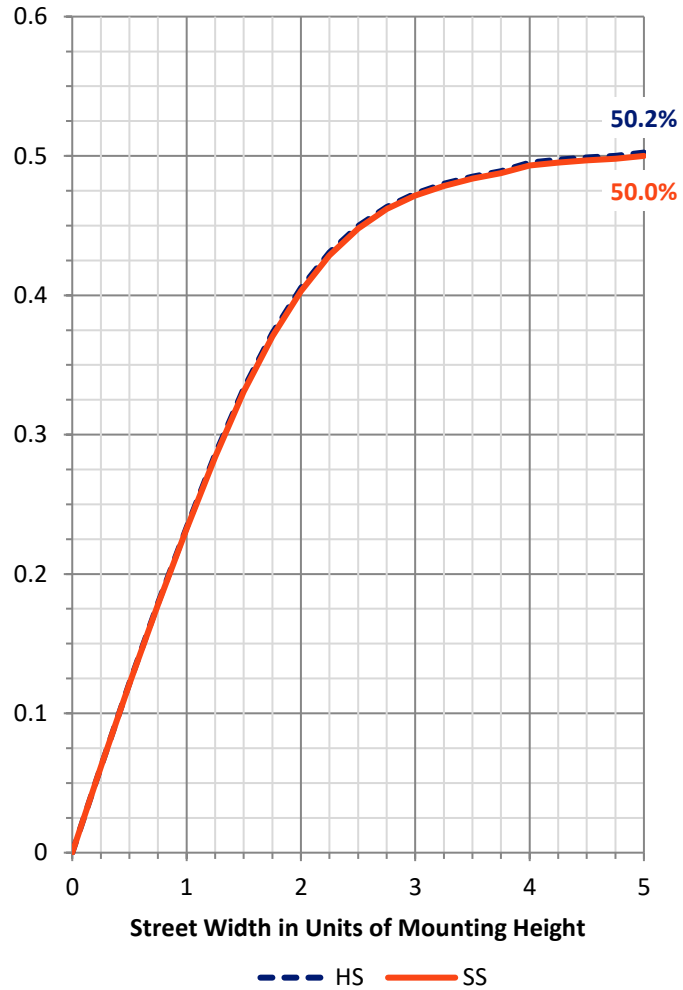
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9845.7	0.0	9845.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9845.7	0.0	9845.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19691.3	0.0	19691.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.0	0.7
10°-20°	430.3	2.2
20°-30°	771.8	3.9
30°-40°	1303.8	6.6
40°-50°	2290.9	11.6
50°-60°	4419.1	22.4
60°-70°	6411.6	32.6
70°-80°	3668.4	18.6
80°-90°	250.4	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°	19691.3	100.0
0°-180°	19691.3	100.0

**Coefficient of Utilization**



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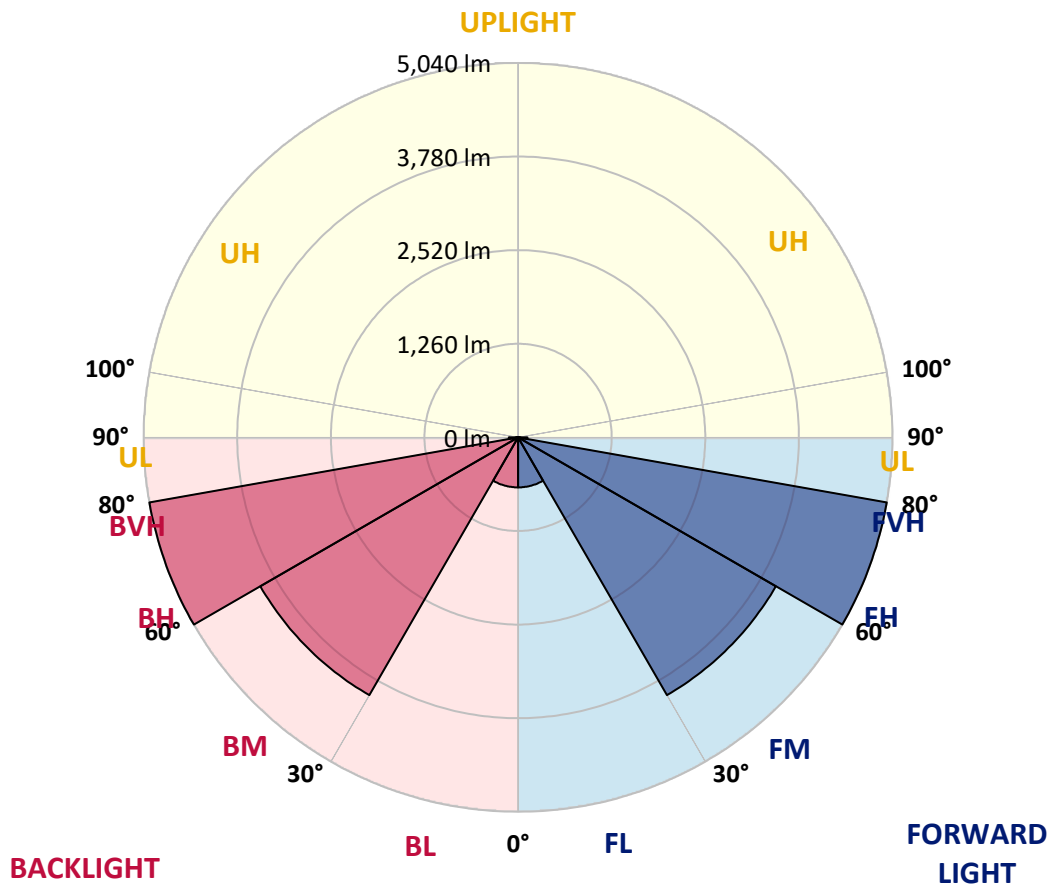
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	673.5	3.4			
FM (30°-60°)	4006.9	20.3			
FH (60°-80°)	5040.0	25.6			G3/7500
FVH (80°-90°)	125.2	0.6			G2/225
BL (0°-30°)	673.5	3.4	B2/1000		
BM (30°-60°)	4006.9	20.3	B3/5000		
BH (60°-80°)	5040.0	25.6	B5		G3/7500
BVH (80°-90°)	125.2	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°	1544.2	1544.2	1544.2	1544.2	1544.2	1544.2	1544.2	1544.2	1544.2	1544.2	1544.2
2.5°	1531.7	1533.1	1535.8	1535.8	1538.6	1542.8	1544.2	1541.4	1542.8	1535.8	1542.8
5°	1527.5	1528.9	1530.3	1527.5	1527.5	1528.9	1528.9	1526.1	1527.5	1520.5	1527.5
7.5°	1517.7	1519.1	1519.1	1515.0	1510.8	1513.6	1513.6	1510.8	1512.2	1505.2	1513.6
10°	1509.4	1509.4	1508.0	1499.6	1495.5	1499.6	1501.0	1502.4	1508.0	1502.4	1512.2
12.5°	1515.0	1515.0	1510.8	1499.6	1492.7	1495.5	1498.2	1501.0	1510.8	1509.4	1520.5
15°	1530.3	1531.7	1520.5	1508.0	1503.8	1508.0	1505.2	1503.8	1516.4	1520.5	1533.1
17.5°	1542.8	1542.8	1528.9	1516.4	1517.7	1524.7	1519.1	1512.2	1524.7	1533.1	1547.0
20°	1553.9	1552.6	1537.2	1528.9	1534.5	1544.2	1540.0	1530.3	1538.6	1548.4	1560.9
22.5°	1581.8	1580.4	1563.7	1559.5	1565.1	1574.8	1570.7	1562.3	1572.0	1586.0	1601.3
25°	1661.2	1658.4	1633.3	1619.4	1616.6	1623.6	1622.2	1619.4	1634.7	1651.4	1669.5
27.5°	1767.0	1765.6	1747.5	1733.6	1715.5	1709.9	1714.1	1726.6	1748.9	1761.4	1776.7
30°	1819.9	1819.9	1817.1	1839.4	1878.4	1916.0	1886.7	1839.4	1819.9	1814.3	1829.6
32.5°	1889.5	1896.5	1886.7	1911.8	1977.2	2032.9	1977.2	1900.7	1886.7	1886.7	1903.4
35°	2049.7	2052.4	2037.1	2032.9	2053.8	2060.8	2034.3	2006.5	2021.8	2024.6	2045.5
37.5°	2177.8	2177.8	2170.8	2181.9	2225.1	2251.6	2208.4	2158.3	2162.4	2165.2	2191.7
40°	2375.5	2381.0	2364.3	2362.9	2379.7	2403.3	2357.4	2325.4	2347.6	2354.6	2395.0
42.5°	2621.9	2621.9	2596.9	2589.9	2601.1	2626.1	2582.9	2562.1	2591.3	2596.9	2620.5
45°	2915.7	2922.7	2889.3	2876.8	2882.3	2890.7	2860.0	2850.3	2878.1	2890.7	2932.4
47.5°	3273.6	3280.6	3251.3	3249.9	3244.4	3249.9	3220.7	3215.1	3237.4	3227.6	3272.2
50°	3715.0	3727.5	3702.5	3737.3	3733.1	3749.8	3709.4	3680.2	3680.2	3653.7	3678.8
52.5°	4209.3	4234.4	4246.9	4305.4	4349.9	4391.7	4324.9	4278.9	4212.1	4157.8	4226.0
55°	4748.2	4741.2	4820.6	4948.7	5079.6	5178.4	5047.5	4902.7	4794.1	4681.3	4707.8
57.5°	5220.2	5243.9	5348.3	5582.2	5841.2	6050.1	5814.8	5536.3	5289.8	5128.3	5150.6
60°	5612.9	5632.4	5771.6	6108.6	6561.1	6849.3	6476.2	6016.7	5658.8	5436.0	5459.7
62.5°	5974.9	5993.0	6133.6	6505.4	7076.3	7452.3	6970.5	6342.5	5944.3	5720.1	5734.0
65°	6183.8	6194.9	6387.1	6778.3	7379.9	7768.3	7225.3	6577.8	6186.5	5958.2	5966.5
67.5°	5803.6	5821.7	6226.9	6767.2	7438.3	7773.9	7236.4	6584.8	6144.8	5846.8	5853.8
70°	4578.3	4563.0	5046.1	5974.9	7102.8	7540.0	6914.8	6090.5	5411.0	4994.6	4987.7
72.5°	3490.8	3495.0	3763.7	4400.1	5791.1	6958.0	6101.6	4904.1	4171.7	3855.6	3843.1
75°	2531.4	2570.4	2789.0	3255.5	4050.6	5200.7	4593.6	3634.2	3144.1	2954.7	2926.9
77.5°	1140.4	1190.5	1495.5	2044.1	2708.3	2874.0	2885.1	2467.4	1861.7	1547.0	1498.2
80°	332.8	356.5	458.1	783.9	1261.5	1630.5	1295.0	1088.9	678.1	531.9	506.8
82.5°	140.6	160.1	196.3	217.2	366.2	756.1	470.6	299.4	278.5	225.6	206.1
85°	59.9	64.1	82.2	87.7	118.4	161.5	149.0	135.1	129.5	100.3	91.9
87.5°	25.1	25.1	25.1	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)