

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: P634006

Luminaire Tested: GWS-SA2F-830-U-5WQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634006  
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-SA2F-830-U-5WQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

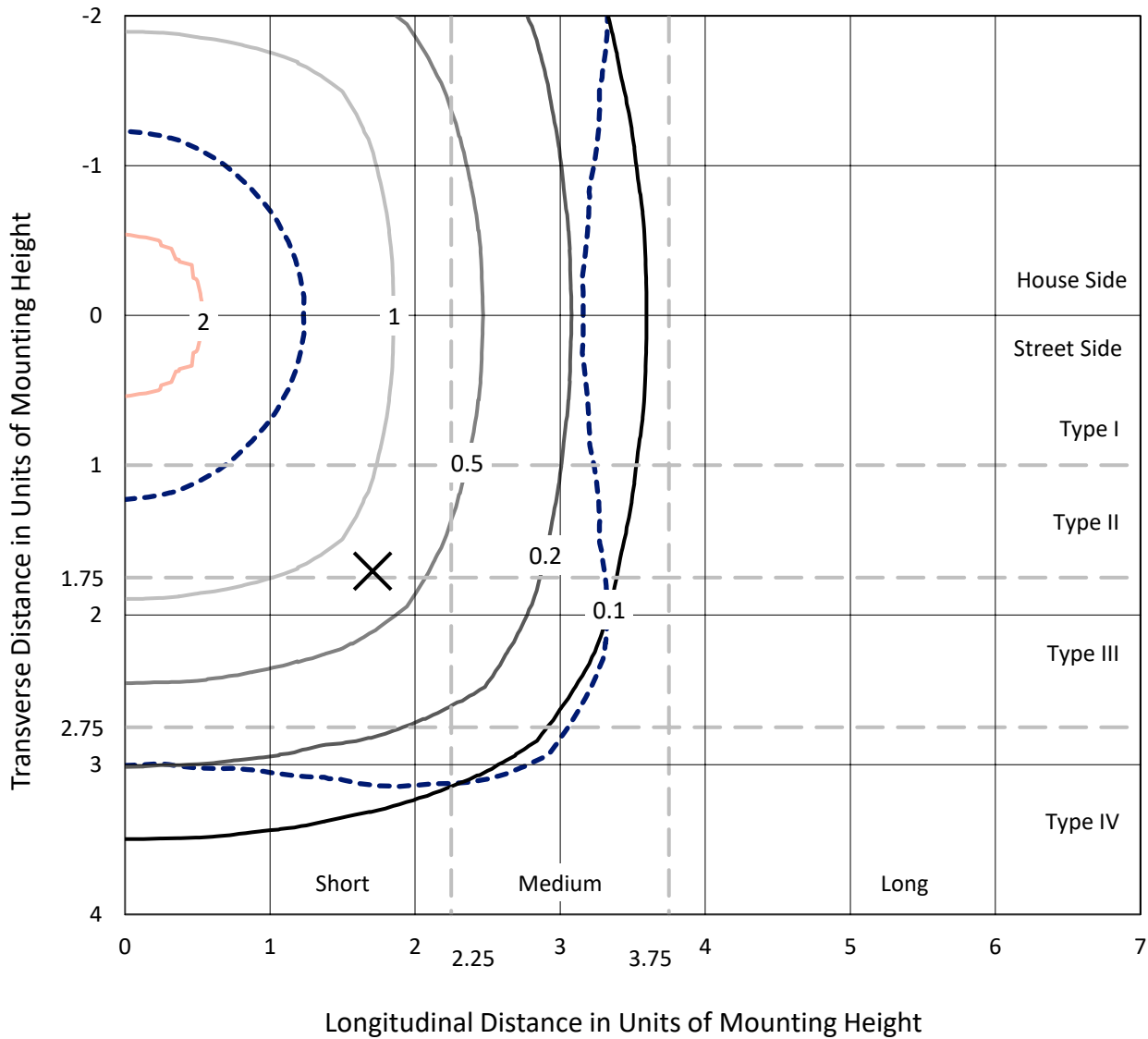
Lumens per Lamp: N/A  
Luminaire Lumens: 13064.9 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

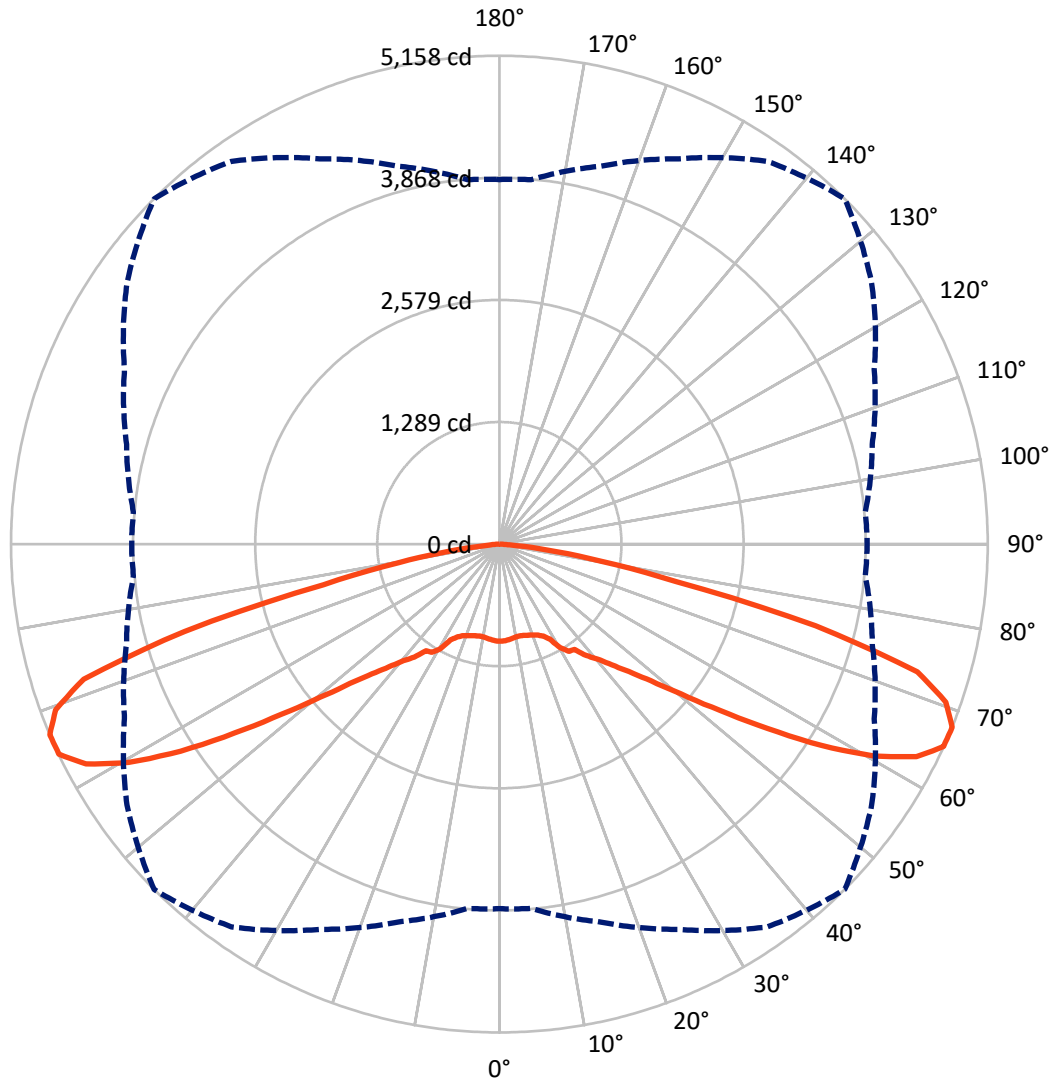
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.6 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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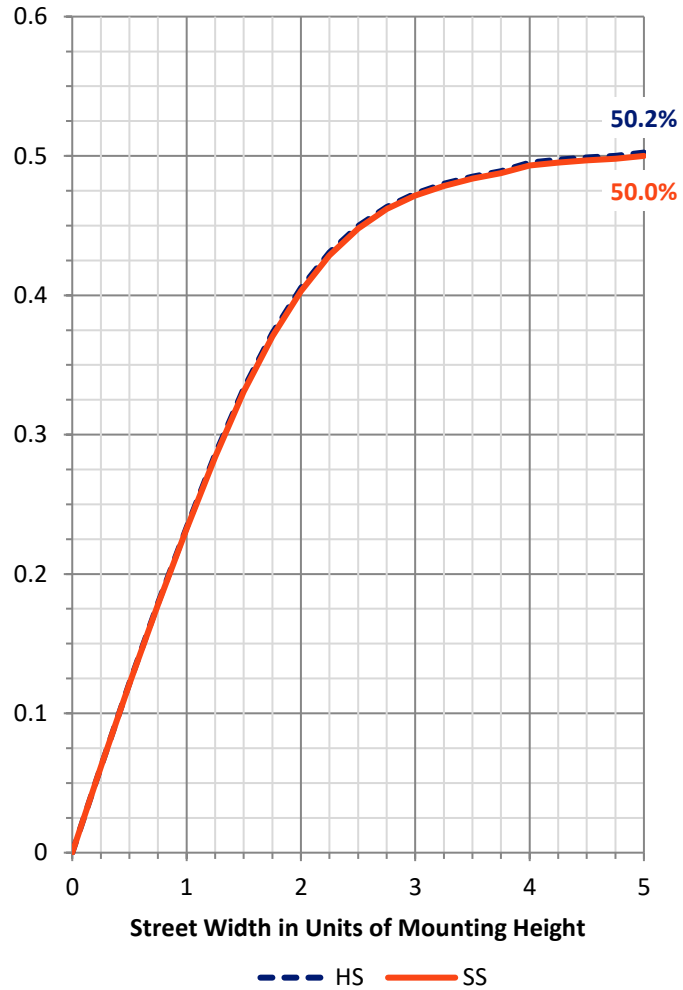
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6532.5	0.0	6532.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6532.5	0.0	6532.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13064.9	0.0	13064.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.2	0.7
10°-20°	285.5	2.2
20°-30°	512.1	3.9
30°-40°	865.1	6.6
40°-50°	1520.0	11.6
50°-60°	2932.0	22.4
60°-70°	4254.0	32.6
70°-80°	2433.9	18.6
80°-90°	166.1	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°	13064.9	100.0
0°-180°	13064.9	100.0

**Coefficient of Utilization**



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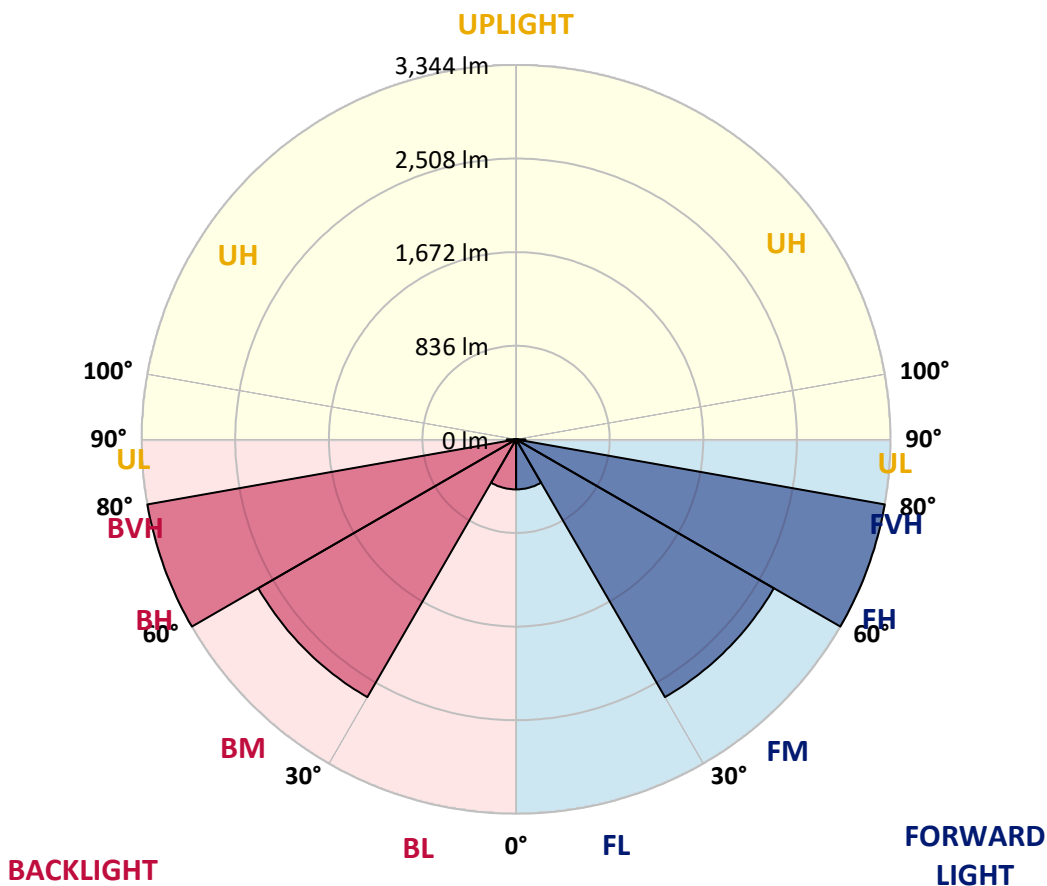
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	446.9	3.4			
FM (30°-60°)	2658.5	20.3			
FH (60°-80°)	3344.0	25.6			G2/5000
FVH (80°-90°)	83.1	0.6			G1/100
BL (0°-30°)	446.9	3.4	B1/500		
BM (30°-60°)	2658.5	20.3	B3/5000		
BH (60°-80°)	3344.0	25.6	B4/5000		G2/5000
BVH (80°-90°)	83.1	0.6			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°	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6	1024.6
2.5°	1016.2	1017.2	1019.0	1019.0	1020.9	1023.6	1024.6	1022.7	1023.6	1019.0	1023.6
5°	1013.5	1014.4	1015.3	1013.5	1013.5	1014.4	1014.4	1012.5	1013.5	1008.8	1013.5
7.5°	1007.0	1007.9	1007.9	1005.2	1002.4	1004.2	1004.2	1002.4	1003.3	998.7	1004.2
10°	1001.5	1001.5	1000.5	995.0	992.2	995.0	995.9	996.8	1000.5	996.8	1003.3
12.5°	1005.2	1005.2	1002.4	995.0	990.4	992.2	994.1	995.9	1002.4	1001.5	1008.8
15°	1015.3	1016.2	1008.8	1000.5	997.8	1000.5	998.7	997.8	1006.1	1008.8	1017.2
17.5°	1023.6	1023.6	1014.4	1006.1	1007.0	1011.6	1007.9	1003.3	1011.6	1017.2	1026.4
20°	1031.0	1030.1	1019.9	1014.4	1018.1	1024.6	1021.8	1015.3	1020.9	1027.3	1035.6
22.5°	1049.5	1048.6	1037.5	1034.7	1038.4	1044.9	1042.1	1036.6	1043.0	1052.3	1062.4
25°	1102.2	1100.3	1083.7	1074.4	1072.6	1077.2	1076.3	1074.4	1084.6	1095.7	1107.7
27.5°	1172.4	1171.4	1159.4	1150.2	1138.2	1134.5	1137.3	1145.6	1160.4	1168.7	1178.8
30°	1207.5	1207.5	1205.6	1220.4	1246.3	1271.2	1251.8	1220.4	1207.5	1203.8	1213.9
32.5°	1253.7	1258.3	1251.8	1268.5	1311.9	1348.8	1311.9	1261.1	1251.8	1251.8	1262.9
35°	1359.9	1361.8	1351.6	1348.8	1362.7	1367.3	1349.8	1331.3	1341.4	1343.3	1357.1
37.5°	1444.9	1444.9	1440.3	1447.7	1476.3	1493.9	1465.2	1432.0	1434.7	1436.6	1454.1
40°	1576.1	1579.8	1568.7	1567.8	1578.9	1594.6	1564.1	1542.8	1557.6	1562.2	1589.0
42.5°	1739.6	1739.6	1723.0	1718.4	1725.8	1742.4	1713.8	1699.9	1719.3	1723.0	1738.7
45°	1934.6	1939.2	1917.0	1908.7	1912.4	1917.9	1897.6	1891.1	1909.6	1917.9	1945.6
47.5°	2172.0	2176.6	2157.2	2156.3	2152.6	2156.3	2136.9	2133.2	2148.0	2141.5	2171.1
50°	2464.8	2473.2	2456.5	2479.6	2476.9	2487.9	2461.1	2441.7	2441.7	2424.2	2440.8
52.5°	2792.8	2809.4	2817.8	2856.6	2886.1	2913.8	2869.5	2839.0	2794.7	2758.6	2803.9
55°	3150.3	3145.7	3198.4	3283.4	3370.2	3435.8	3349.0	3252.9	3180.8	3106.0	3123.6
57.5°	3463.5	3479.2	3548.5	3703.7	3875.6	4014.1	3858.0	3673.2	3509.7	3402.6	3417.3
60°	3724.1	3737.0	3829.4	4053.0	4353.2	4544.4	4296.8	3992.0	3754.5	3606.7	3622.4
62.5°	3964.3	3976.3	4069.6	4316.2	4695.0	4944.5	4624.8	4208.2	3943.9	3795.2	3804.4
65°	4102.8	4110.2	4237.7	4497.3	4896.4	5154.2	4793.9	4364.3	4104.7	3953.2	3958.7
67.5°	3850.6	3862.6	4131.5	4489.9	4935.2	5157.9	4801.3	4368.9	4077.0	3879.3	3883.9
70°	3037.6	3027.5	3348.0	3964.3	4712.6	5002.7	4587.9	4040.9	3590.1	3313.9	3309.2
72.5°	2316.1	2318.9	2497.2	2919.4	3842.3	4616.5	4048.3	3253.8	2767.9	2558.2	2549.8
75°	1679.6	1705.4	1850.5	2160.0	2687.5	3450.6	3047.8	2411.3	2086.1	1960.4	1941.9
77.5°	756.6	789.9	992.2	1356.2	1796.9	1906.8	1914.2	1637.1	1235.2	1026.4	994.1
80°	220.8	236.5	303.9	520.1	837.0	1081.8	859.2	722.5	449.9	352.9	336.3
82.5°	93.3	106.2	130.3	144.1	243.0	501.7	312.3	198.6	184.8	149.7	136.7
85°	39.7	42.5	54.5	58.2	78.5	107.2	98.9	89.6	85.9	66.5	61.0
87.5°	16.6	16.6	16.6	14.8	13.9	14.8	20.3	25.9	34.2	26.8	24.9
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)