

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: P633511

Luminaire Tested: GWS-SA2E-830-U-5WQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633511  
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-SA2E-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**

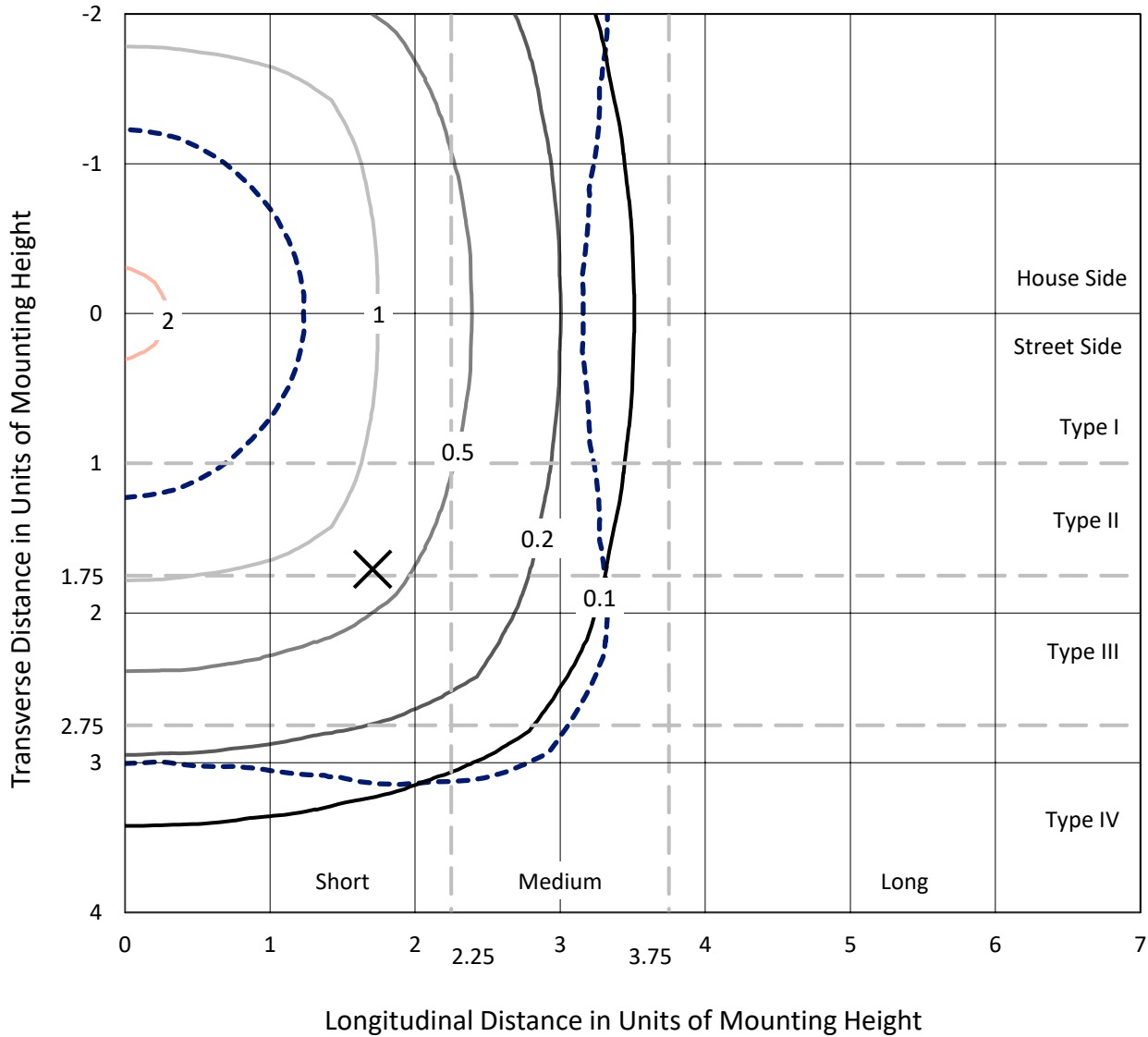
Lumens per Lamp: N/A  
Luminaire Lumens: 11750.9 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

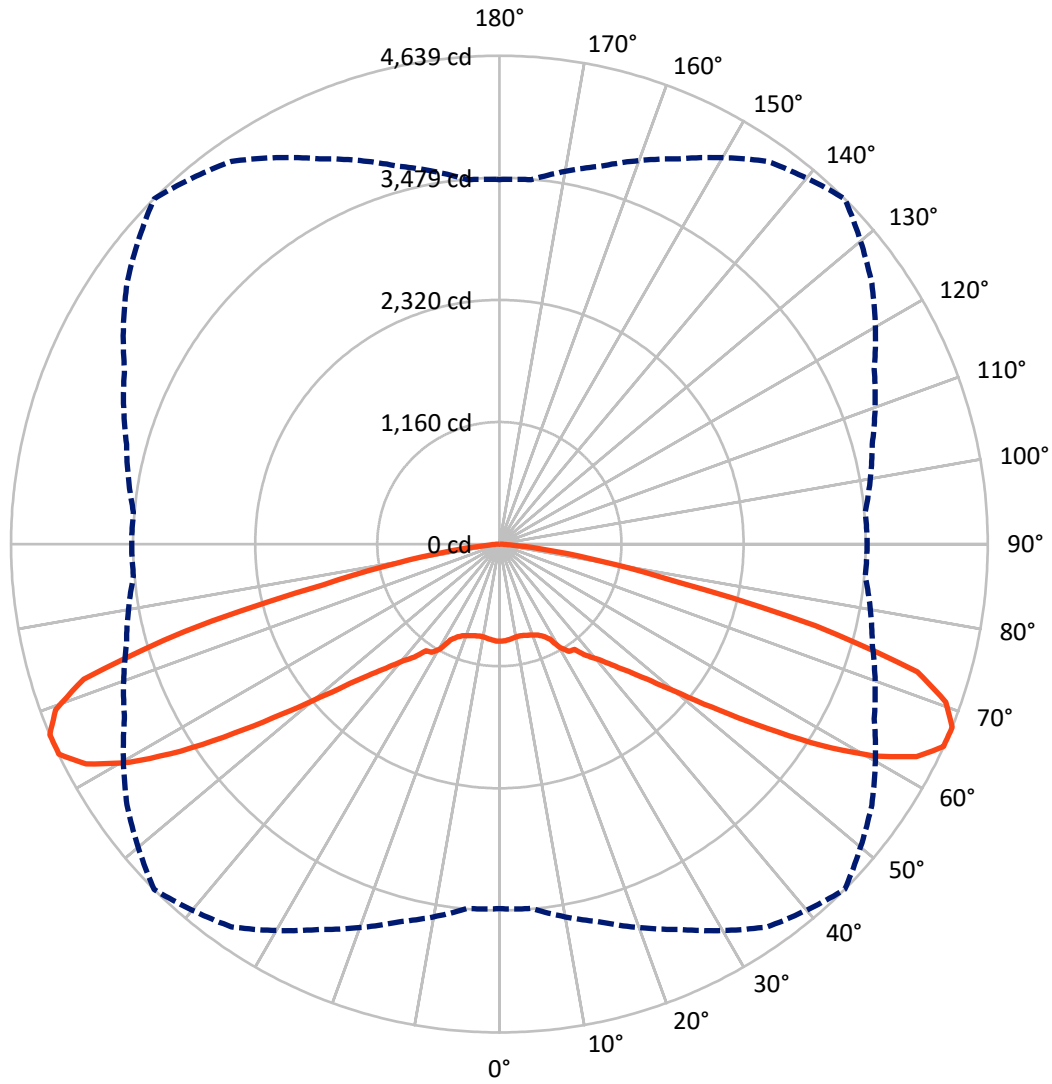
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.3 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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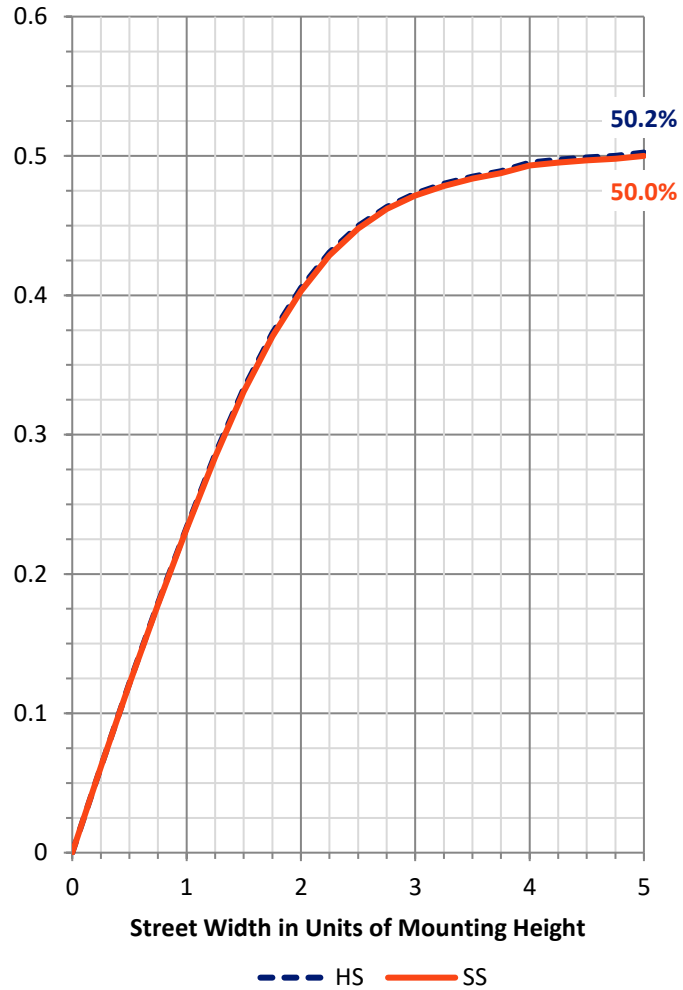
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5875.5	0.0	5875.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5875.5	0.0	5875.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11750.9	0.0	11750.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.5	0.7
10°-20°	256.8	2.2
20°-30°	460.6	3.9
30°-40°	778.1	6.6
40°-50°	1367.1	11.6
50°-60°	2637.1	22.4
60°-70°	3826.2	32.6
70°-80°	2189.2	18.6
80°-90°	149.4	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°	11750.9	100.0
0°-180°	11750.9	100.0

**Coefficient of Utilization**



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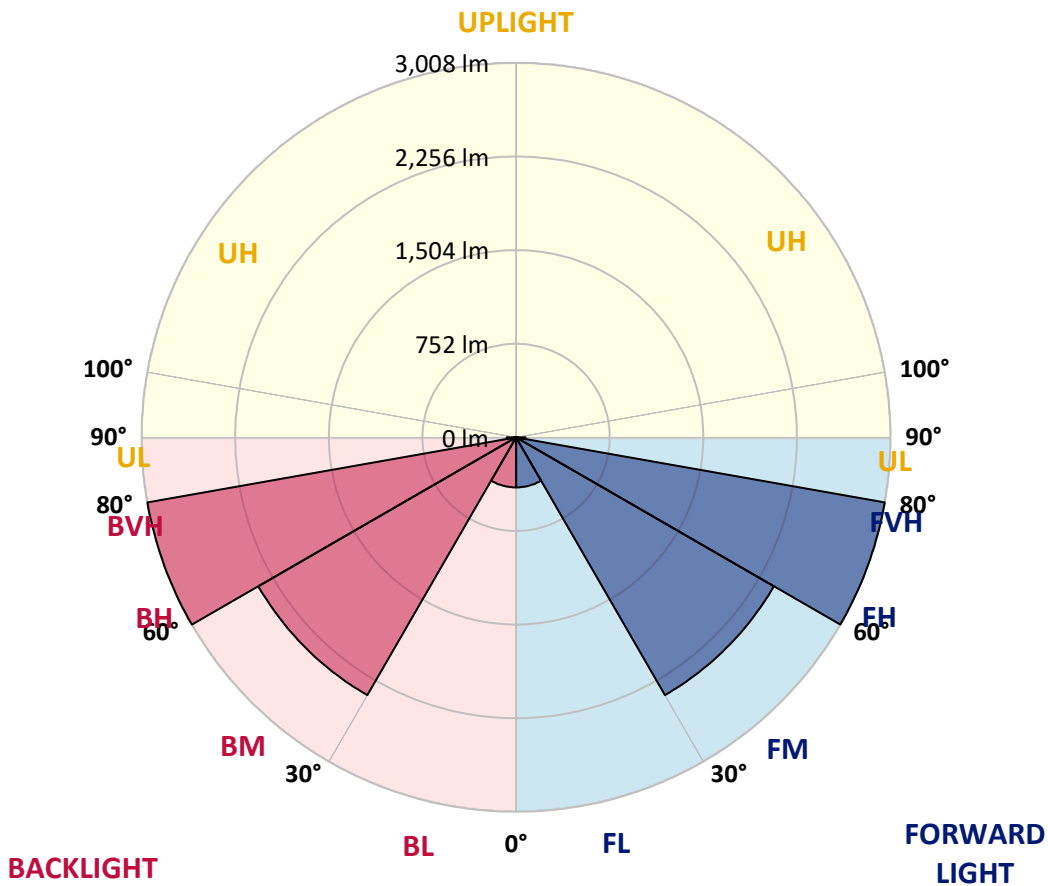
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	401.9	3.4			
FM (30°-60°)	2391.1	20.3			
FH (60°-80°)	3007.7	25.6			G2/5000
FVH (80°-90°)	74.7	0.6			G1/100
BL (0°-30°)	401.9	3.4	B1/500		
BM (30°-60°)	2391.1	20.3	B2/2500		
BH (60°-80°)	3007.7	25.6	B4/5000		G2/5000
BVH (80°-90°)	74.7	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°	921.5	921.5	921.5	921.5	921.5	921.5	921.5	921.5	921.5	921.5	921.5
2.5°	914.0	914.9	916.5	916.5	918.2	920.7	921.5	919.8	920.7	916.5	920.7
5°	911.5	912.4	913.2	911.5	911.5	912.4	912.4	910.7	911.5	907.4	911.5
7.5°	905.7	906.6	906.6	904.1	901.6	903.2	903.2	901.6	902.4	898.2	903.2
10°	900.7	900.7	899.9	894.9	892.4	894.9	895.8	896.6	899.9	896.6	902.4
12.5°	904.1	904.1	901.6	894.9	890.8	892.4	894.1	895.8	901.6	900.7	907.4
15°	913.2	914.0	907.4	899.9	897.4	899.9	898.2	897.4	904.9	907.4	914.9
17.5°	920.7	920.7	912.4	904.9	905.7	909.9	906.6	902.4	909.9	914.9	923.2
20°	927.3	926.5	917.4	912.4	915.7	921.5	919.0	913.2	918.2	924.0	931.5
22.5°	943.9	943.1	933.1	930.7	934.0	939.8	937.3	932.3	938.1	946.4	955.6
25°	991.3	989.6	974.7	966.4	964.7	968.9	968.0	966.4	975.5	985.5	996.3
27.5°	1054.5	1053.6	1042.8	1034.5	1023.7	1020.4	1022.9	1030.4	1043.7	1051.1	1060.3
30°	1086.0	1086.0	1084.4	1097.7	1120.9	1143.4	1125.9	1097.7	1086.0	1082.7	1091.9
32.5°	1127.6	1131.7	1125.9	1140.9	1179.9	1213.2	1179.9	1134.2	1125.9	1125.9	1135.9
35°	1223.1	1224.8	1215.7	1213.2	1225.6	1229.8	1214.0	1197.4	1206.5	1208.2	1220.6
37.5°	1299.6	1299.6	1295.4	1302.1	1327.8	1343.6	1317.9	1288.0	1290.4	1292.1	1307.9
40°	1417.6	1420.9	1410.9	1410.1	1420.1	1434.2	1406.8	1387.7	1401.0	1405.1	1429.2
42.5°	1564.7	1564.7	1549.7	1545.5	1552.2	1567.1	1541.4	1528.9	1546.4	1549.7	1563.8
45°	1740.0	1744.1	1724.2	1716.7	1720.0	1725.0	1706.7	1700.9	1717.5	1725.0	1750.0
47.5°	1953.5	1957.7	1940.2	1939.4	1936.1	1939.4	1922.0	1918.6	1931.9	1926.1	1952.7
50°	2216.9	2224.4	2209.5	2230.2	2227.7	2237.7	2213.6	2196.2	2196.2	2180.4	2195.3
52.5°	2511.9	2526.9	2534.4	2569.3	2595.9	2620.8	2580.9	2553.5	2513.6	2481.2	2521.9
55°	2833.5	2829.3	2876.7	2953.2	3031.3	3090.3	3012.2	2925.7	2860.9	2793.6	2809.4
57.5°	3115.2	3129.3	3191.6	3331.2	3485.8	3610.4	3470.0	3303.8	3156.7	3060.3	3073.6
60°	3349.5	3361.1	3444.2	3645.3	3915.4	4087.4	3864.7	3590.5	3376.9	3244.0	3258.1
62.5°	3565.6	3576.4	3660.3	3882.1	4222.8	4447.2	4159.7	3784.9	3547.3	3413.5	3421.8
65°	3690.2	3696.8	3811.5	4045.0	4404.0	4635.8	4311.7	3925.4	3691.9	3555.6	3560.6
67.5°	3463.4	3474.2	3716.0	4038.4	4438.9	4639.1	4318.4	3929.5	3666.9	3489.1	3493.3
70°	2732.1	2723.0	3011.3	3565.6	4238.6	4499.5	4126.4	3634.5	3229.0	2980.6	2976.4
72.5°	2083.2	2085.7	2246.0	2625.8	3455.9	4152.2	3641.2	2926.6	2489.5	2300.9	2293.4
75°	1510.6	1533.9	1664.4	1942.7	2417.2	3103.6	2741.3	2168.7	1876.3	1763.3	1746.6
77.5°	680.5	710.5	892.4	1219.8	1616.2	1715.1	1721.7	1472.4	1111.0	923.2	894.1
80°	198.6	212.7	273.4	467.8	752.8	973.0	772.8	649.8	404.7	317.4	302.5
82.5°	83.9	95.6	117.2	129.6	218.5	451.2	280.9	178.7	166.2	134.6	123.0
85°	35.7	38.2	49.0	52.3	70.6	96.4	88.9	80.6	77.3	59.8	54.8
87.5°	15.0	15.0	15.0	13.3	12.5	13.3	18.3	23.3	30.7	24.1	22.4
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)