

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: P634000

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634000  
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-830-U-5MQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

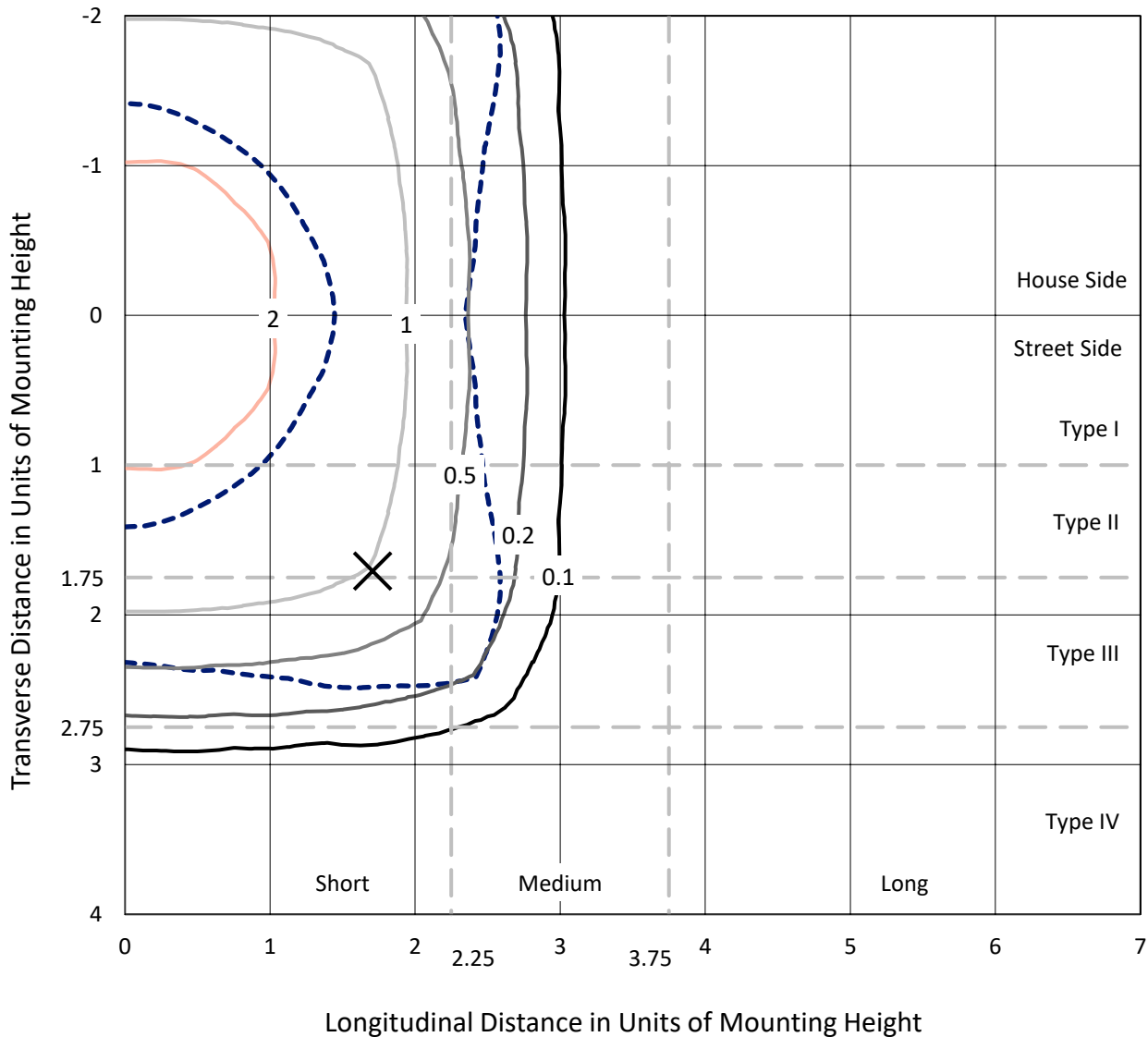
Lumens per Lamp: N/A  
Luminaire Lumens: 13345.7 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

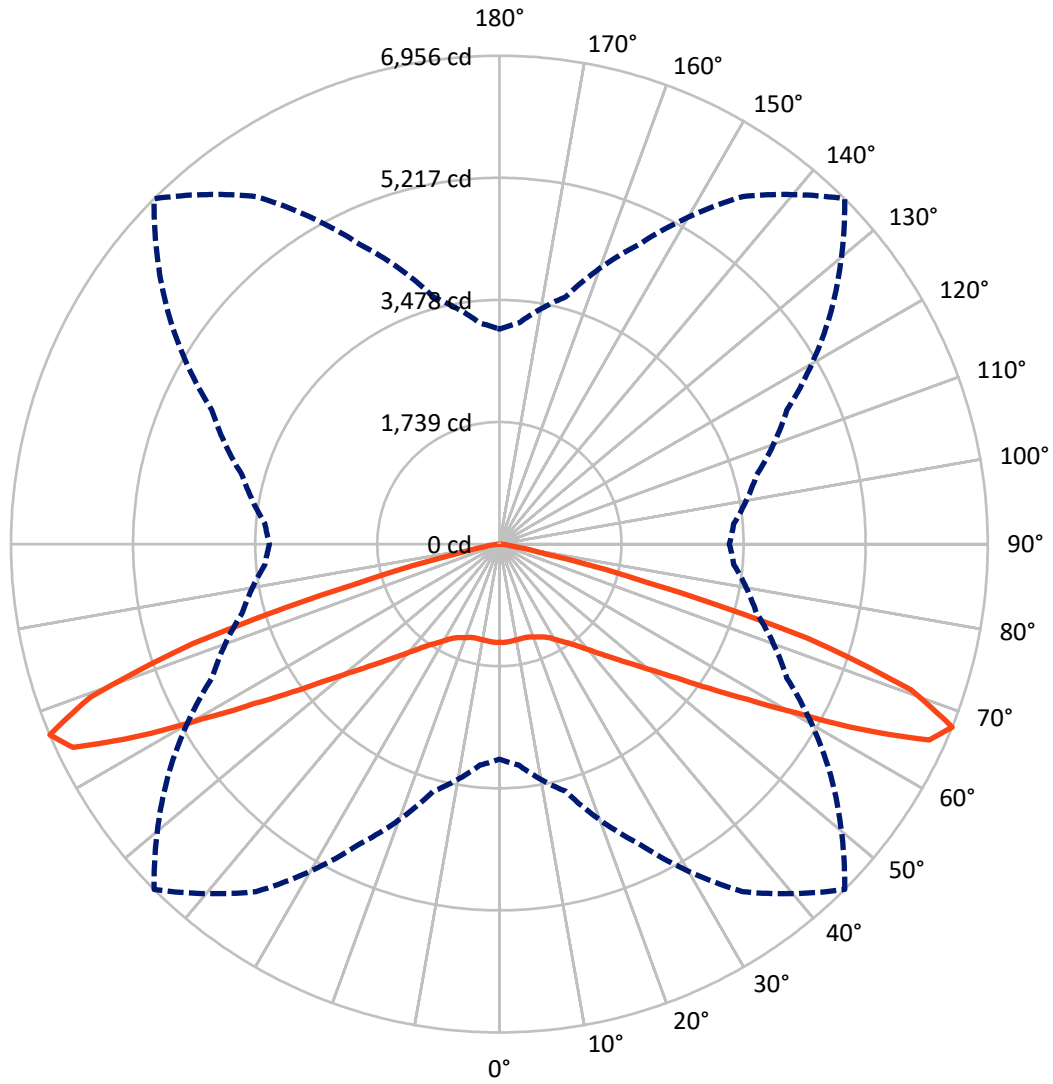
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.5 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	6672.9	0.0	6672.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6672.9	0.0	6672.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13345.7	0.0	13345.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.3	1.0
10°-20°	388.6	2.9
20°-30°	670.1	5.0
30°-40°	1089.7	8.2
40°-50°	1834.8	13.7
50°-60°	3250.9	24.4
60°-70°	4646.9	34.8
70°-80°	1275.4	9.6
80°-90°	57.1	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°	13345.7	100.0
0°-180°	13345.7	100.0

**Coefficient of Utilization**



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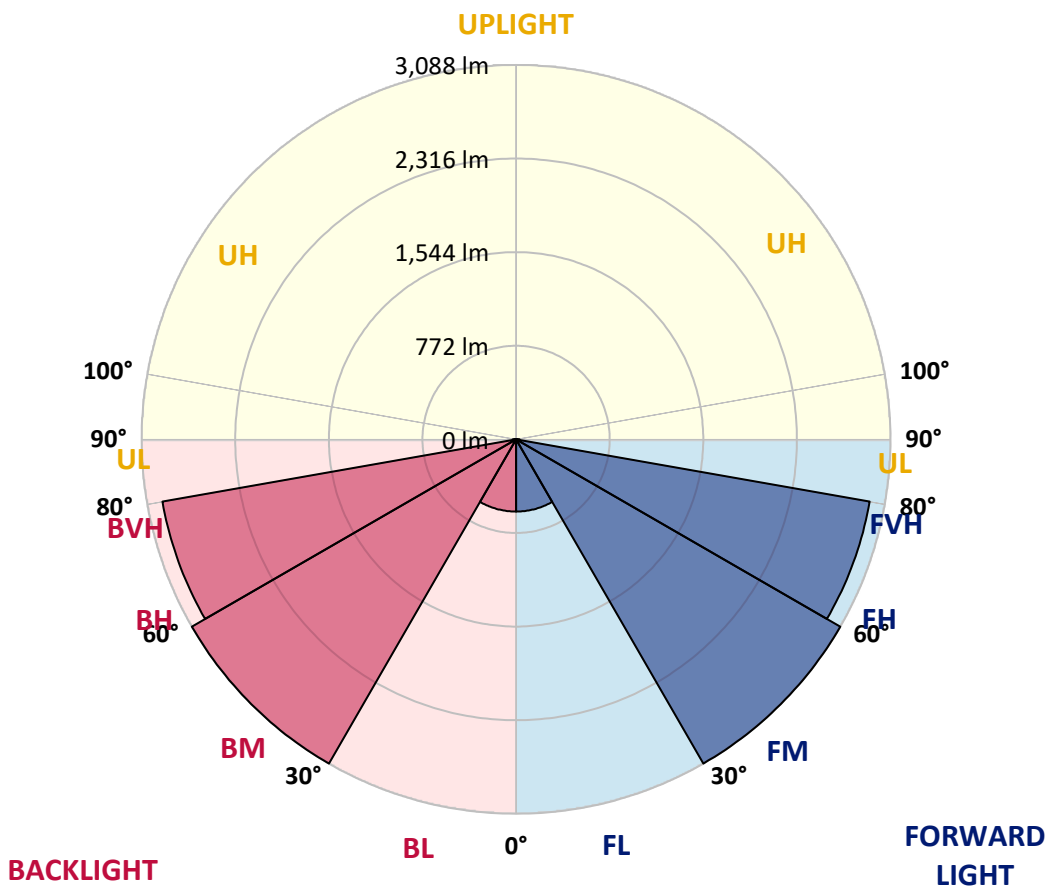
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	595.5	4.5			
FM (30°-60°)	3087.7	23.1			
FH (60°-80°)	2961.1	22.2			G2/5000
FVH (80°-90°)	28.6	0.2			G1/100
BL (0°-30°)	595.5	4.5	B2/1000		
BM (30°-60°)	3087.7	23.1	B3/5000		
BH (60°-80°)	2961.1	22.2	B4/5000		G2/5000
BVH (80°-90°)	28.6	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°	1397.7	1397.7	1397.7	1397.7	1397.7	1397.7	1397.7	1397.7	1397.7	1397.7	1397.7
2.5°	1388.5	1387.6	1392.2	1395.0	1394.0	1400.5	1399.6	1397.7	1397.7	1395.0	1402.3
5°	1388.5	1387.6	1391.3	1392.2	1390.3	1395.9	1394.0	1392.2	1392.2	1388.5	1395.0
7.5°	1381.1	1382.0	1384.8	1386.6	1384.8	1389.4	1386.6	1382.9	1382.0	1378.3	1384.8
10°	1367.2	1368.2	1370.9	1375.6	1376.5	1384.8	1380.2	1373.7	1370.9	1367.2	1373.7
12.5°	1358.9	1359.9	1362.6	1368.2	1370.0	1381.1	1376.5	1366.3	1361.7	1358.0	1364.5
15°	1357.1	1358.0	1361.7	1367.2	1370.0	1381.1	1376.5	1364.5	1358.0	1353.4	1358.9
17.5°	1357.1	1358.9	1364.5	1372.8	1378.3	1389.4	1383.9	1370.0	1360.8	1352.5	1358.0
20°	1358.0	1360.8	1369.1	1381.1	1395.0	1410.7	1403.3	1384.8	1371.9	1361.7	1365.4
22.5°	1366.3	1370.9	1381.1	1396.8	1417.1	1435.6	1429.1	1404.2	1385.7	1371.9	1375.6
25°	1395.0	1396.8	1409.7	1430.1	1449.5	1465.2	1458.7	1435.6	1412.5	1395.9	1400.5
27.5°	1445.8	1450.4	1461.5	1482.7	1499.3	1507.7	1506.7	1491.0	1467.9	1453.2	1456.9
30°	1506.7	1511.4	1526.1	1550.2	1566.8	1576.0	1573.3	1561.2	1540.0	1519.7	1523.4
32.5°	1577.9	1579.7	1597.3	1624.1	1641.6	1655.5	1646.2	1633.3	1606.5	1582.5	1584.3
35°	1668.4	1671.2	1689.7	1714.6	1728.5	1739.5	1737.7	1724.8	1696.1	1670.3	1676.7
37.5°	1782.0	1783.9	1800.5	1831.9	1843.0	1851.3	1853.2	1846.7	1817.1	1783.9	1790.3
40°	1923.4	1924.3	1942.8	1970.5	1982.5	1988.0	1989.0	1989.9	1959.4	1934.5	1932.6
42.5°	2087.8	2092.4	2118.3	2145.1	2150.6	2147.9	2157.1	2166.3	2136.8	2102.6	2105.4
45°	2284.6	2287.4	2322.5	2352.0	2341.9	2332.6	2350.2	2368.7	2341.9	2297.5	2284.6
47.5°	2517.4	2522.9	2560.8	2590.4	2573.7	2557.1	2585.7	2605.1	2561.7	2514.6	2502.6
50°	2780.7	2784.4	2837.9	2874.9	2855.5	2825.0	2861.0	2881.4	2823.2	2765.0	2739.1
52.5°	3092.0	3084.6	3155.7	3220.4	3208.4	3168.7	3198.2	3201.9	3115.1	3032.9	3007.0
55°	3471.7	3464.3	3535.4	3606.6	3636.1	3626.0	3612.1	3589.9	3461.5	3373.8	3349.7
57.5°	3914.2	3891.1	3990.9	4086.9	4151.6	4170.1	4111.0	4059.2	3957.6	3849.5	3821.8
60°	4325.3	4324.4	4482.3	4648.6	4826.0	4899.9	4750.2	4609.8	4381.6	4184.9	4145.1
62.5°	4440.8	4460.2	4718.8	5130.8	5568.7	5830.2	5435.7	4971.0	4530.4	4233.8	4181.2
65°	4156.2	4204.3	4571.9	5222.3	6087.0	6726.3	5835.7	4979.3	4365.0	3995.5	3940.1
67.5°	3063.4	3159.4	3646.3	4712.4	6042.7	6956.3	5764.6	4518.4	3791.3	3351.6	3274.9
70°	1511.4	1602.8	1989.0	3100.3	4972.0	6218.2	4987.7	3405.2	2560.8	2137.7	2067.5
72.5°	556.1	593.1	744.6	1326.6	2743.7	4593.2	3410.7	1902.1	1240.7	987.6	940.4
75°	272.5	279.0	302.1	445.3	1012.5	2161.7	1602.8	729.8	456.4	397.2	384.3
77.5°	173.7	176.4	187.5	212.5	325.2	680.8	485.9	288.2	223.6	214.3	214.3
80°	97.0	99.8	114.6	132.1	152.4	233.7	174.6	172.8	146.9	128.4	125.6
82.5°	46.2	50.8	73.0	72.1	80.4	117.3	102.5	93.3	94.2	71.1	67.4
85°	21.2	21.2	28.6	34.2	36.0	39.7	47.1	53.6	52.7	36.0	38.8
87.5°	10.2	10.2	10.2	9.2	8.3	7.4	10.2	16.6	24.0	16.6	15.7
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)