

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: P633505

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633505  
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-SA2E-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**

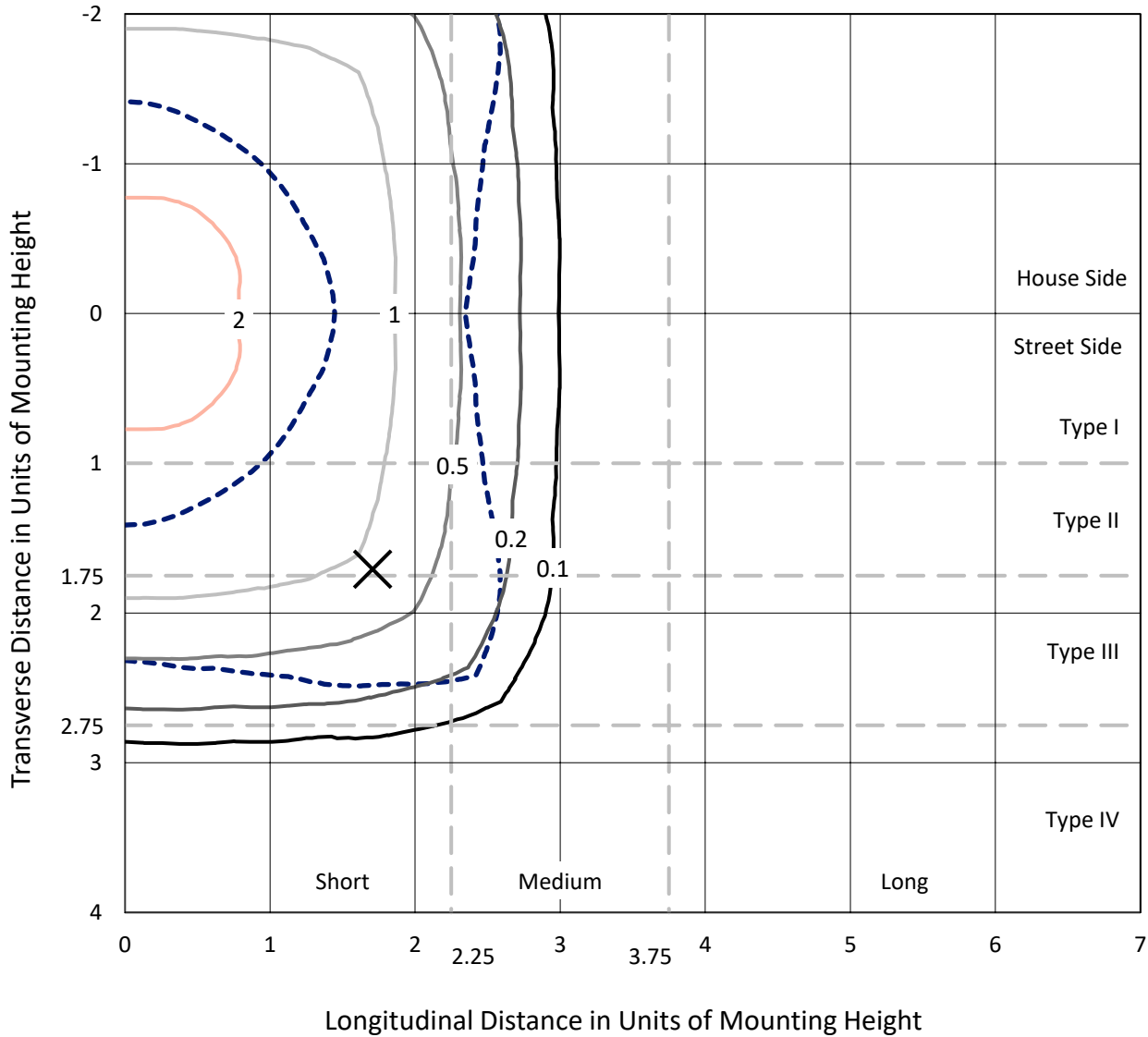
Lumens per Lamp: N/A  
Luminaire Lumens: 12003.5 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

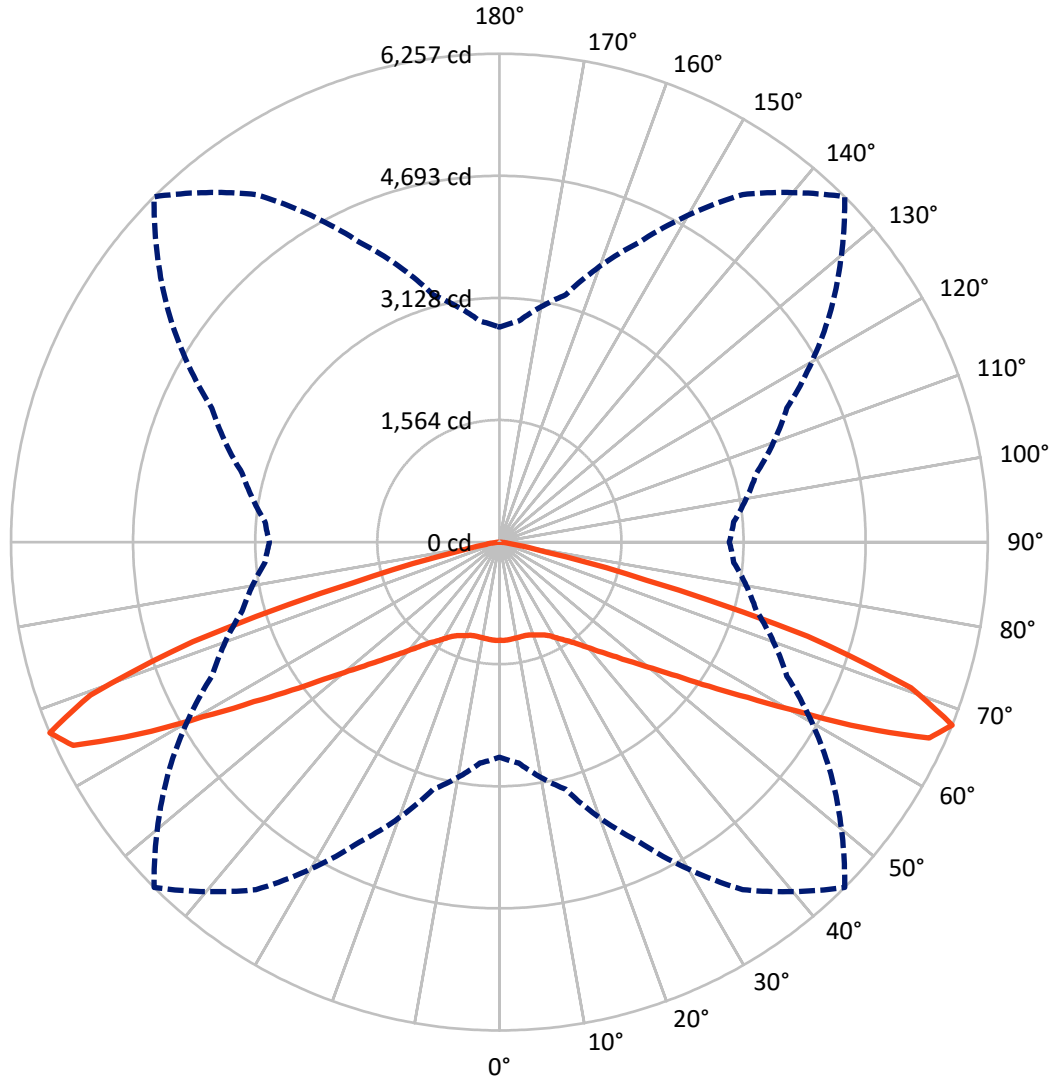
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.1 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	6001.7	0.0	6001.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6001.7	0.0	6001.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12003.5	0.0	12003.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.0	1.0
10°-20°	349.5	2.9
20°-30°	602.7	5.0
30°-40°	980.1	8.2
40°-50°	1650.2	13.7
50°-60°	2923.9	24.4
60°-70°	4179.5	34.8
70°-80°	1147.1	9.6
80°-90°	51.4	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°	12003.5	100.0
0°-180°	12003.5	100.0

**Coefficient of Utilization**

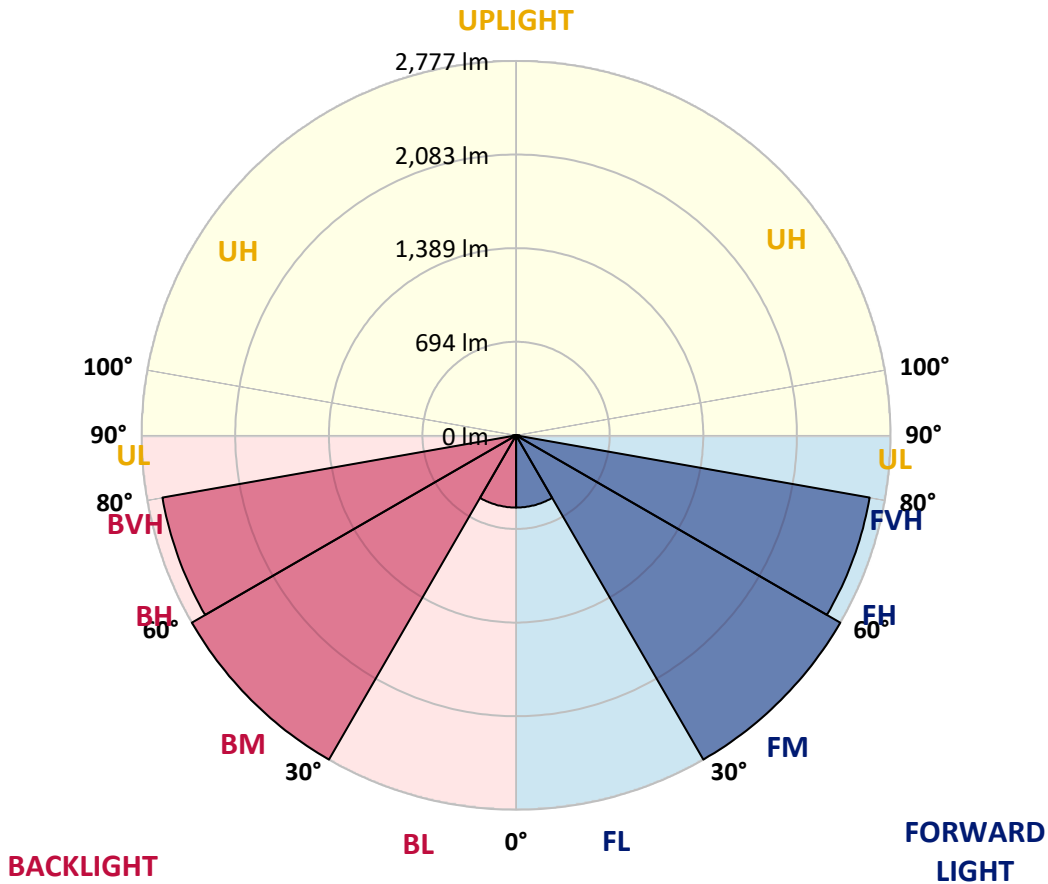


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	535.6	4.5			
FM (30°-60°)	2777.1	23.1			
FH (60°-80°)	2663.3	22.2			G2/5000
FVH (80°-90°)	25.7	0.2			G1/100
BL (0°-30°)	535.6	4.5	B2/1000		
BM (30°-60°)	2777.1	23.1	B3/5000		
BH (60°-80°)	2663.3	22.2	B4/5000		G2/5000
BVH (80°-90°)	25.7	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°	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2	1257.2
2.5°	1248.8	1248.0	1252.2	1254.7	1253.8	1259.6	1258.8	1257.2	1257.2	1254.7	1261.3
5°	1248.8	1248.0	1251.3	1252.2	1250.5	1255.5	1253.8	1252.2	1252.2	1248.8	1254.7
7.5°	1242.2	1243.0	1245.5	1247.2	1245.5	1249.7	1247.2	1243.9	1243.0	1239.7	1245.5
10°	1229.7	1230.6	1233.1	1237.2	1238.0	1245.5	1241.4	1235.6	1233.1	1229.7	1235.6
12.5°	1222.3	1223.1	1225.6	1230.6	1232.2	1242.2	1238.0	1228.9	1224.7	1221.4	1227.2
15°	1220.6	1221.4	1224.7	1229.7	1232.2	1242.2	1238.0	1227.2	1221.4	1217.3	1222.3
17.5°	1220.6	1222.3	1227.2	1234.7	1239.7	1249.7	1244.7	1232.2	1223.9	1216.4	1221.4
20°	1221.4	1223.9	1231.4	1242.2	1254.7	1268.8	1262.1	1245.5	1233.9	1224.7	1228.1
22.5°	1228.9	1233.1	1242.2	1256.3	1274.6	1291.2	1285.4	1263.0	1246.4	1233.9	1237.2
25°	1254.7	1256.3	1268.0	1286.2	1303.7	1317.8	1312.0	1291.2	1270.4	1255.5	1259.6
27.5°	1300.4	1304.5	1314.5	1333.6	1348.6	1356.0	1355.2	1341.1	1320.3	1307.0	1310.3
30°	1355.2	1359.4	1372.7	1394.3	1409.2	1417.5	1415.0	1404.2	1385.1	1366.8	1370.2
32.5°	1419.2	1420.8	1436.6	1460.7	1476.5	1489.0	1480.7	1469.0	1444.9	1423.3	1425.0
35°	1500.6	1503.1	1519.7	1542.2	1554.6	1564.6	1562.9	1551.3	1525.5	1502.3	1508.1
37.5°	1602.8	1604.5	1619.4	1647.7	1657.7	1665.1	1666.8	1661.0	1634.4	1604.5	1610.3
40°	1729.9	1730.8	1747.4	1772.3	1783.1	1788.1	1788.9	1789.8	1762.3	1739.9	1738.2
42.5°	1877.8	1882.0	1905.3	1929.4	1934.3	1931.8	1940.2	1948.5	1921.9	1891.1	1893.6
45°	2054.8	2057.3	2088.9	2115.5	2106.3	2098.0	2113.8	2130.4	2106.3	2066.5	2054.8
47.5°	2264.2	2269.2	2303.3	2329.8	2314.9	2299.9	2325.7	2343.1	2304.1	2261.7	2250.9
50°	2501.0	2504.3	2552.5	2585.8	2568.3	2540.9	2573.3	2591.6	2539.2	2486.9	2463.6
52.5°	2781.0	2774.4	2838.4	2896.5	2885.7	2850.0	2876.6	2879.9	2801.8	2727.9	2704.6
55°	3122.5	3115.9	3179.9	3243.8	3270.4	3261.3	3248.8	3228.9	3113.4	3034.5	3012.9
57.5°	3520.5	3499.8	3589.5	3675.9	3734.1	3750.7	3697.5	3651.0	3559.6	3462.4	3437.4
60°	3890.3	3889.5	4031.5	4181.1	4340.6	4407.1	4272.5	4146.2	3941.0	3764.0	3728.3
62.5°	3994.1	4011.6	4244.2	4614.8	5008.7	5243.8	4889.0	4471.1	4074.7	3808.0	3760.7
65°	3738.2	3781.4	4112.1	4697.1	5474.8	6049.8	5248.8	4478.6	3926.0	3593.7	3543.8
67.5°	2755.3	2841.7	3279.6	4238.4	5434.9	6256.7	5184.8	4063.9	3410.0	3014.5	2945.5
70°	1359.4	1441.6	1788.9	2788.5	4471.9	5592.8	4486.0	3062.7	2303.3	1922.7	1859.6
72.5°	500.2	533.4	669.7	1193.2	2467.8	4131.2	3067.7	1710.8	1115.9	888.2	845.9
75°	245.1	250.9	271.7	400.5	910.7	1944.3	1441.6	656.4	410.5	357.3	345.7
77.5°	156.2	158.7	168.7	191.1	292.5	612.4	437.1	259.2	201.1	192.8	192.8
80°	87.2	89.7	103.0	118.8	137.1	210.2	157.0	155.4	132.1	115.5	113.0
82.5°	41.5	45.7	65.6	64.8	72.3	105.5	92.2	83.9	84.8	64.0	60.7
85°	19.1	19.1	25.8	30.7	32.4	35.7	42.4	48.2	47.4	32.4	34.9
87.5°	9.1	9.1	9.1	8.3	7.5	6.6	9.1	15.0	21.6	15.0	14.1
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)