

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: P635986

Luminaire Tested: GWS-SA3E-830-U-5WQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635986  
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-SA3E-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**

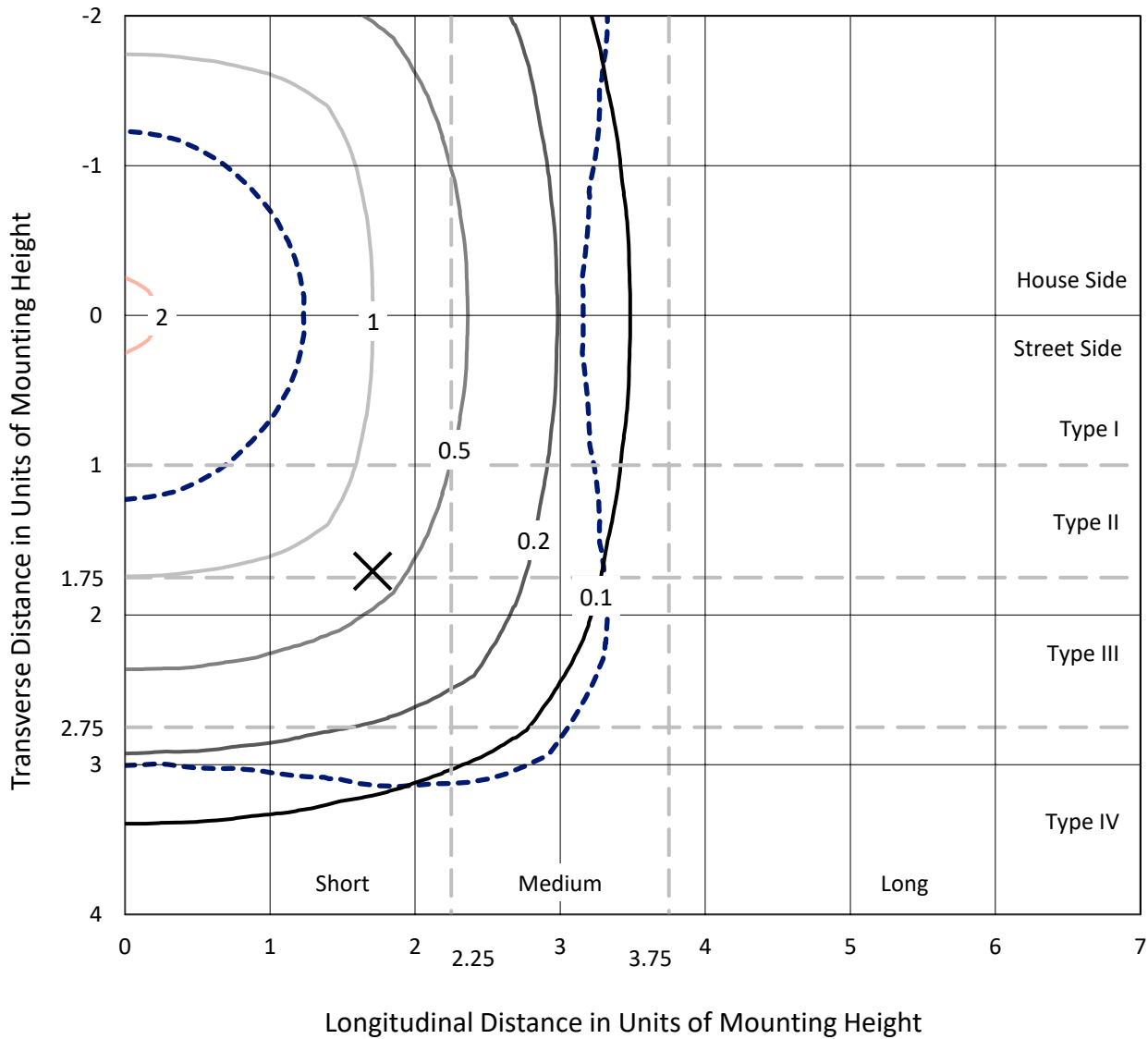
Lumens per Lamp: N/A  
Luminaire Lumens: 17710.9 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 159.2  
Input Voltage (V): 120  
Input Current (Ain): 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

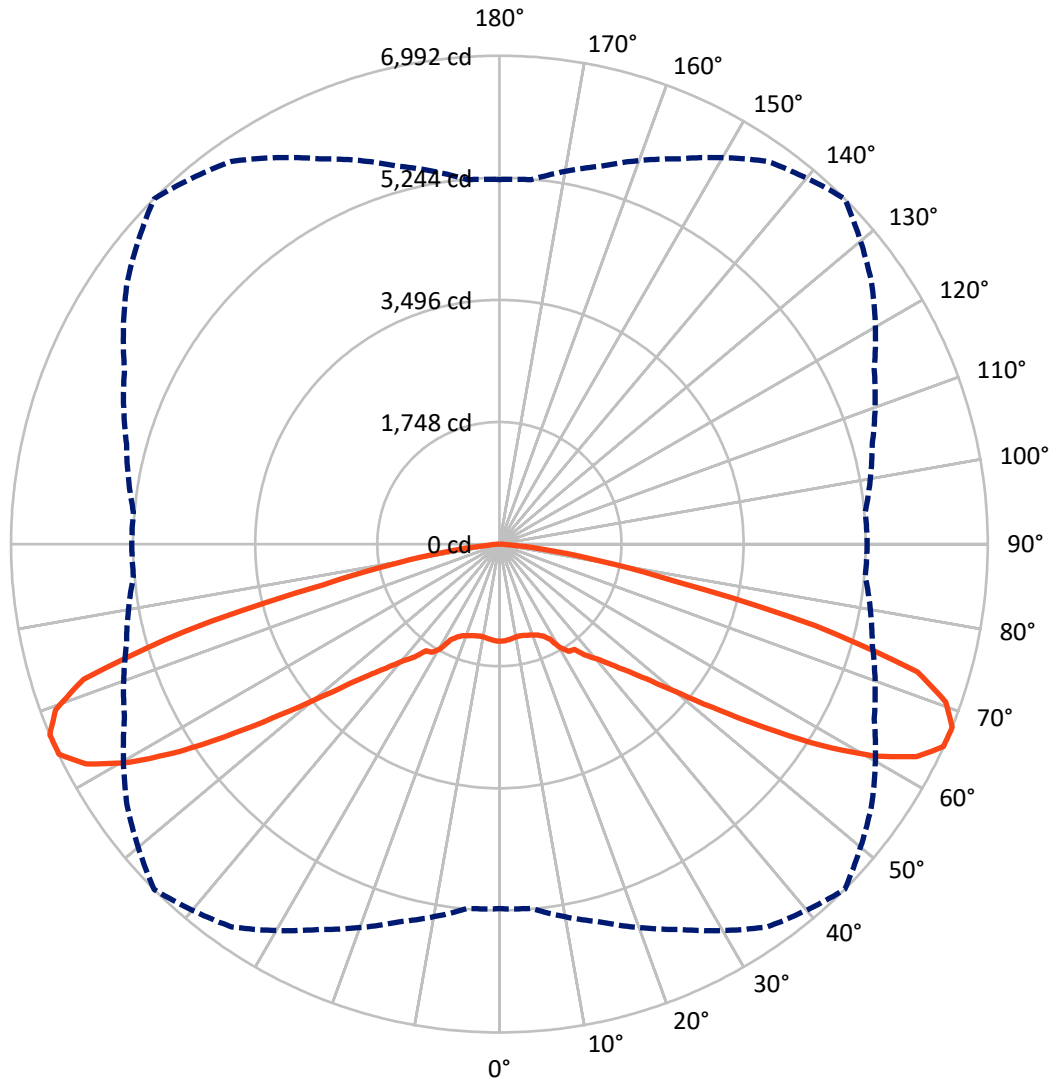
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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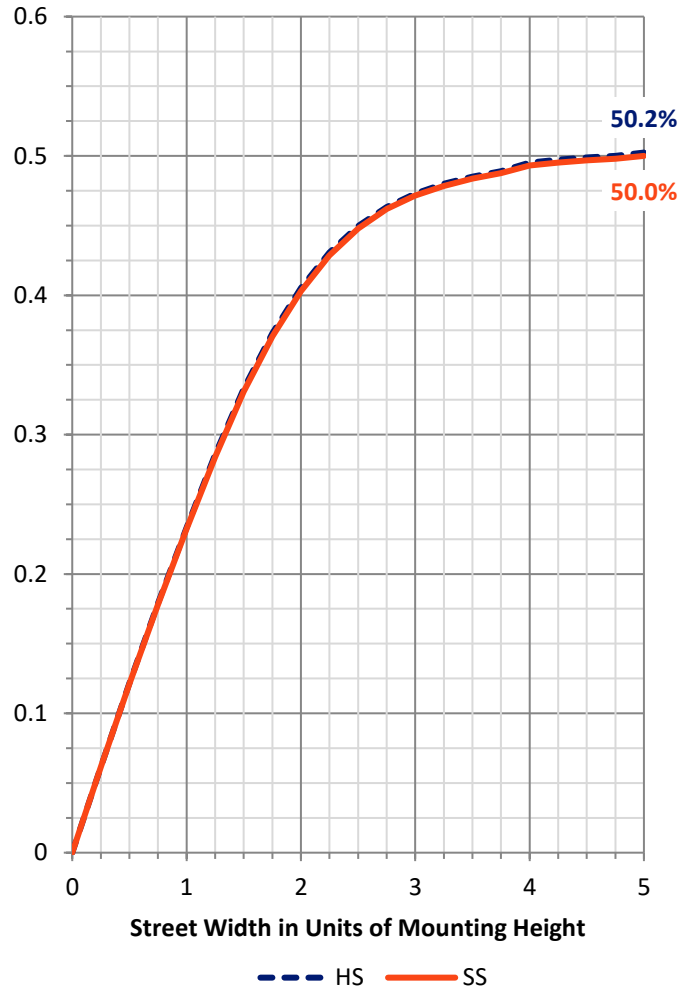
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8855.5	0.0	8855.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8855.5	0.0	8855.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17710.9	0.0	17710.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.4	0.7
10°-20°	387.0	2.2
20°-30°	694.2	3.9
30°-40°	1172.7	6.6
40°-50°	2060.5	11.6
50°-60°	3974.7	22.4
60°-70°	5766.8	32.6
70°-80°	3299.5	18.6
80°-90°	225.2	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°	17710.9	100.0
0°-180°	17710.9	100.0

**Coefficient of Utilization**



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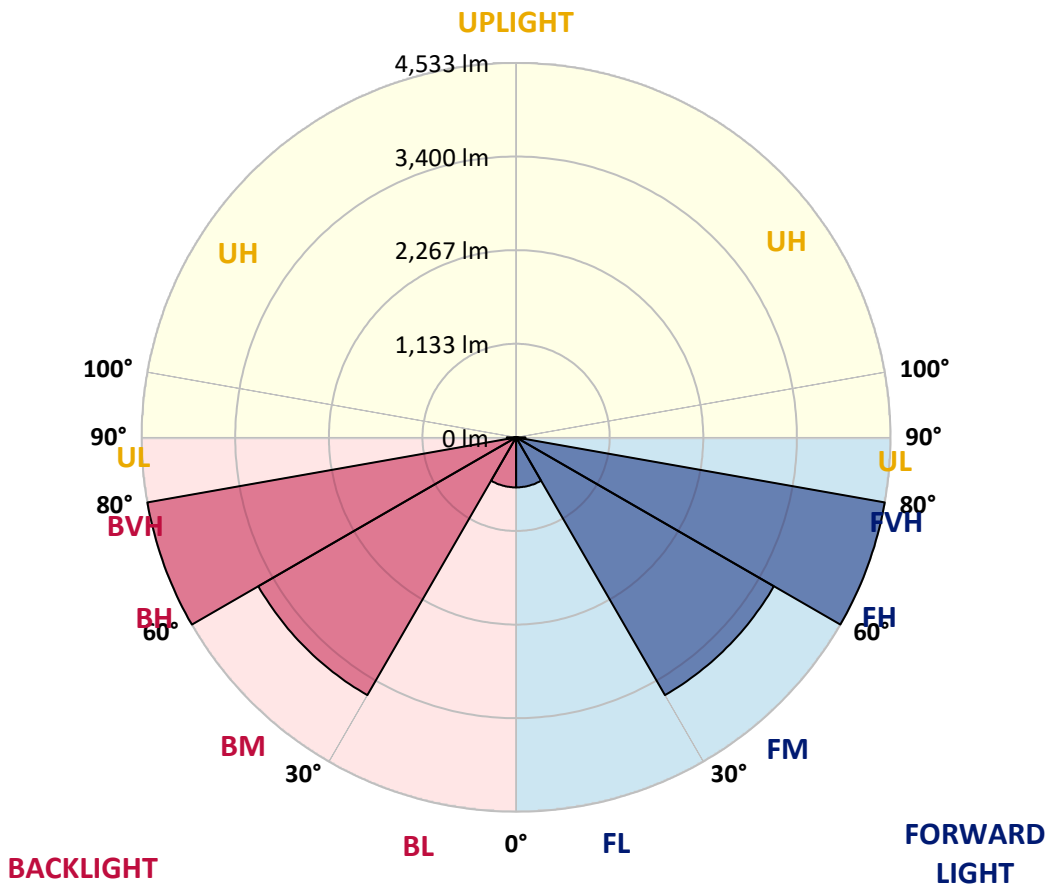
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	605.8	3.4			
FM (30°-60°)	3603.9	20.3			
FH (60°-80°)	4533.1	25.6			G2/5000
FVH (80°-90°)	112.6	0.6			G2/225
BL (0°-30°)	605.8	3.4	B2/1000		
BM (30°-60°)	3603.9	20.3	B3/5000		
BH (60°-80°)	4533.1	25.6	B4/5000		G2/5000
BVH (80°-90°)	112.6	0.6			G2/225
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°	1388.9	1388.9	1388.9	1388.9	1388.9	1388.9	1388.9	1388.9	1388.9	1388.9	1388.9
2.5°	1377.6	1378.9	1381.4	1381.4	1383.9	1387.6	1388.9	1386.4	1387.6	1381.4	1387.6
5°	1373.9	1375.1	1376.4	1373.9	1373.9	1375.1	1375.1	1372.6	1373.9	1367.6	1373.9
7.5°	1365.1	1366.4	1366.4	1362.6	1358.8	1361.3	1361.3	1358.8	1360.1	1353.8	1361.3
10°	1357.6	1357.6	1356.3	1348.8	1345.1	1348.8	1350.1	1351.3	1356.3	1351.3	1360.1
12.5°	1362.6	1362.6	1358.8	1348.8	1342.6	1345.1	1347.6	1350.1	1358.8	1357.6	1367.6
15°	1376.4	1377.6	1367.6	1356.3	1352.6	1356.3	1353.8	1352.6	1363.8	1367.6	1378.9
17.5°	1387.6	1387.6	1375.1	1363.8	1365.1	1371.4	1366.4	1360.1	1371.4	1378.9	1391.4
20°	1397.7	1396.4	1382.6	1375.1	1380.1	1388.9	1385.1	1376.4	1383.9	1392.7	1403.9
22.5°	1422.7	1421.5	1406.4	1402.7	1407.7	1416.4	1412.7	1405.2	1413.9	1426.5	1440.2
25°	1494.1	1491.6	1469.0	1456.5	1454.0	1460.3	1459.0	1456.5	1470.3	1485.3	1501.6
27.5°	1589.3	1588.0	1571.7	1559.2	1542.9	1537.9	1541.7	1553.0	1573.0	1584.3	1598.0
30°	1636.9	1636.9	1634.4	1654.4	1689.5	1723.3	1697.0	1654.4	1636.9	1631.9	1645.6
32.5°	1699.5	1705.7	1697.0	1719.5	1778.4	1828.5	1778.4	1709.5	1697.0	1697.0	1712.0
35°	1843.5	1846.0	1832.2	1828.5	1847.3	1853.5	1829.7	1804.7	1818.5	1821.0	1839.8
37.5°	1958.7	1958.7	1952.5	1962.5	2001.3	2025.1	1986.3	1941.2	1945.0	1947.5	1971.3
40°	2136.6	2141.6	2126.6	2125.3	2140.3	2161.6	2120.3	2091.5	2111.5	2117.8	2154.1
42.5°	2358.2	2358.2	2335.7	2329.4	2339.5	2362.0	2323.2	2304.4	2330.7	2335.7	2357.0
45°	2622.5	2628.8	2598.7	2587.4	2592.4	2600.0	2572.4	2563.6	2588.7	2600.0	2637.5
47.5°	2944.4	2950.6	2924.3	2923.1	2918.1	2923.1	2896.8	2891.8	2911.8	2903.0	2943.1
50°	3341.4	3352.6	3330.1	3361.4	3357.6	3372.7	3336.4	3310.1	3310.1	3286.3	3308.8
52.5°	3786.0	3808.5	3819.8	3872.4	3912.5	3950.0	3889.9	3848.6	3788.5	3739.6	3801.0
55°	4270.6	4264.4	4335.8	4451.0	4568.7	4657.6	4539.9	4409.7	4312.0	4210.5	4234.3
57.5°	4695.2	4716.5	4810.4	5020.8	5253.8	5441.6	5230.0	4979.5	4757.8	4612.5	4632.6
60°	5048.4	5065.9	5191.1	5494.2	5901.2	6160.5	5824.8	5411.6	5089.7	4889.3	4910.6
62.5°	5374.0	5390.3	5516.8	5851.1	6364.6	6702.8	6269.4	5704.6	5346.4	5144.8	5157.3
65°	5561.8	5571.9	5744.7	6096.6	6637.6	6987.1	6498.6	5916.3	5564.4	5359.0	5366.5
67.5°	5219.9	5236.2	5600.7	6086.6	6690.2	6992.1	6508.7	5922.5	5526.8	5258.8	5265.0
70°	4117.8	4104.1	4538.6	5374.0	6388.4	6781.7	6219.3	5477.9	4866.8	4492.3	4486.0
72.5°	3139.7	3143.5	3385.2	3957.5	5208.7	6258.2	5488.0	4410.9	3752.1	3467.9	3456.6
75°	2276.8	2311.9	2508.5	2928.1	3643.2	4677.7	4131.6	3268.7	2827.9	2657.6	2632.5
77.5°	1025.7	1070.8	1345.1	1838.5	2435.9	2584.9	2594.9	2219.2	1674.4	1391.4	1347.6
80°	299.3	320.6	412.0	705.1	1134.7	1466.5	1164.7	979.4	609.9	478.4	455.9
82.5°	126.5	144.0	176.6	195.4	329.4	680.0	423.3	269.3	250.5	202.9	185.4
85°	53.9	57.6	73.9	78.9	106.5	145.3	134.0	121.5	116.5	90.2	82.7
87.5°	22.5	22.5	22.5	20.0	18.8	20.0	27.6	35.1	46.3	36.3	33.8
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)