

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: P637471

Luminaire Tested: GWS-SA4C-830-U-5WQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637471  
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-SA4C-830-U-5WQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

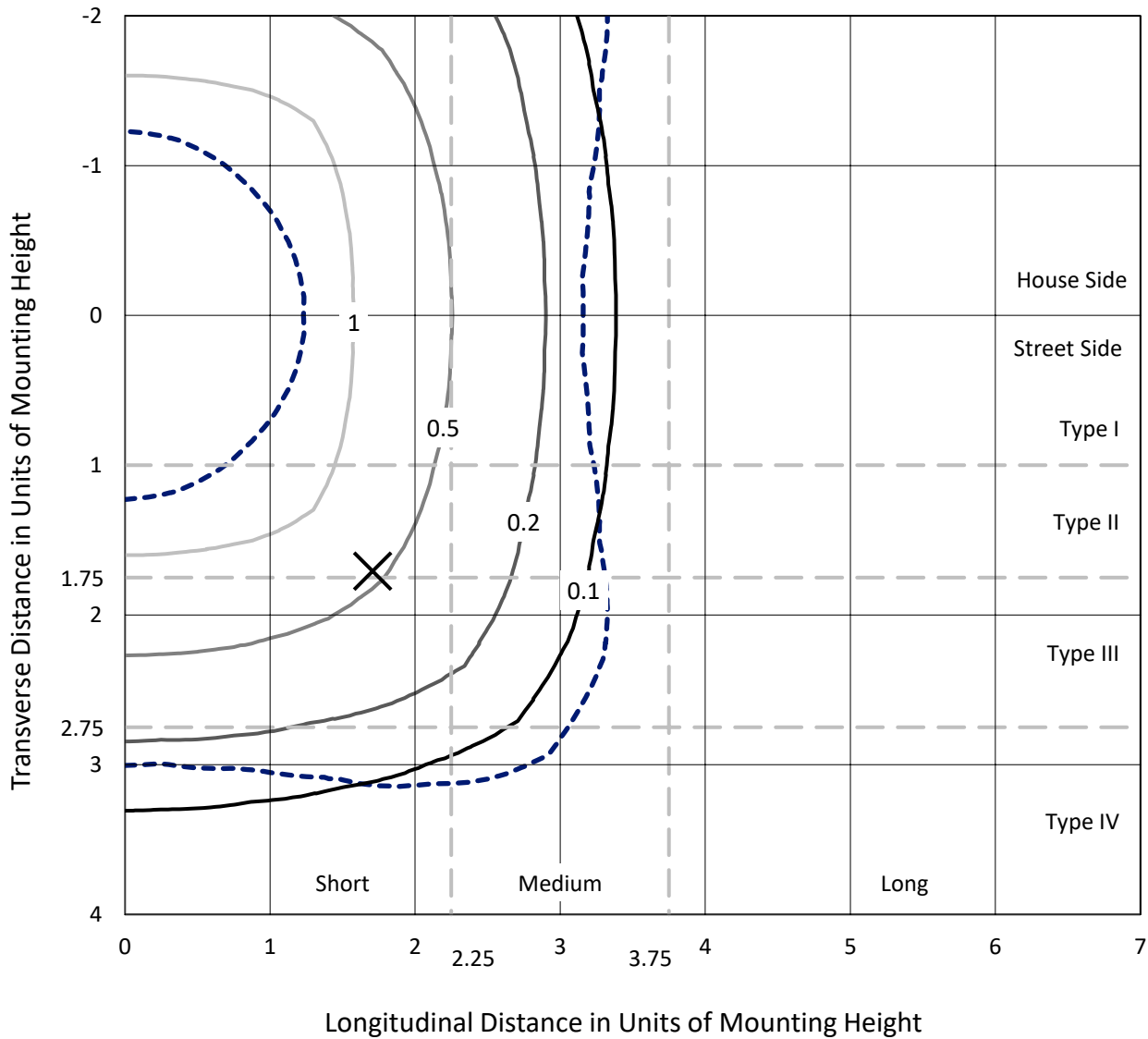
Lumens per Lamp: N/A  
Luminaire Lumens: 15633.2 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

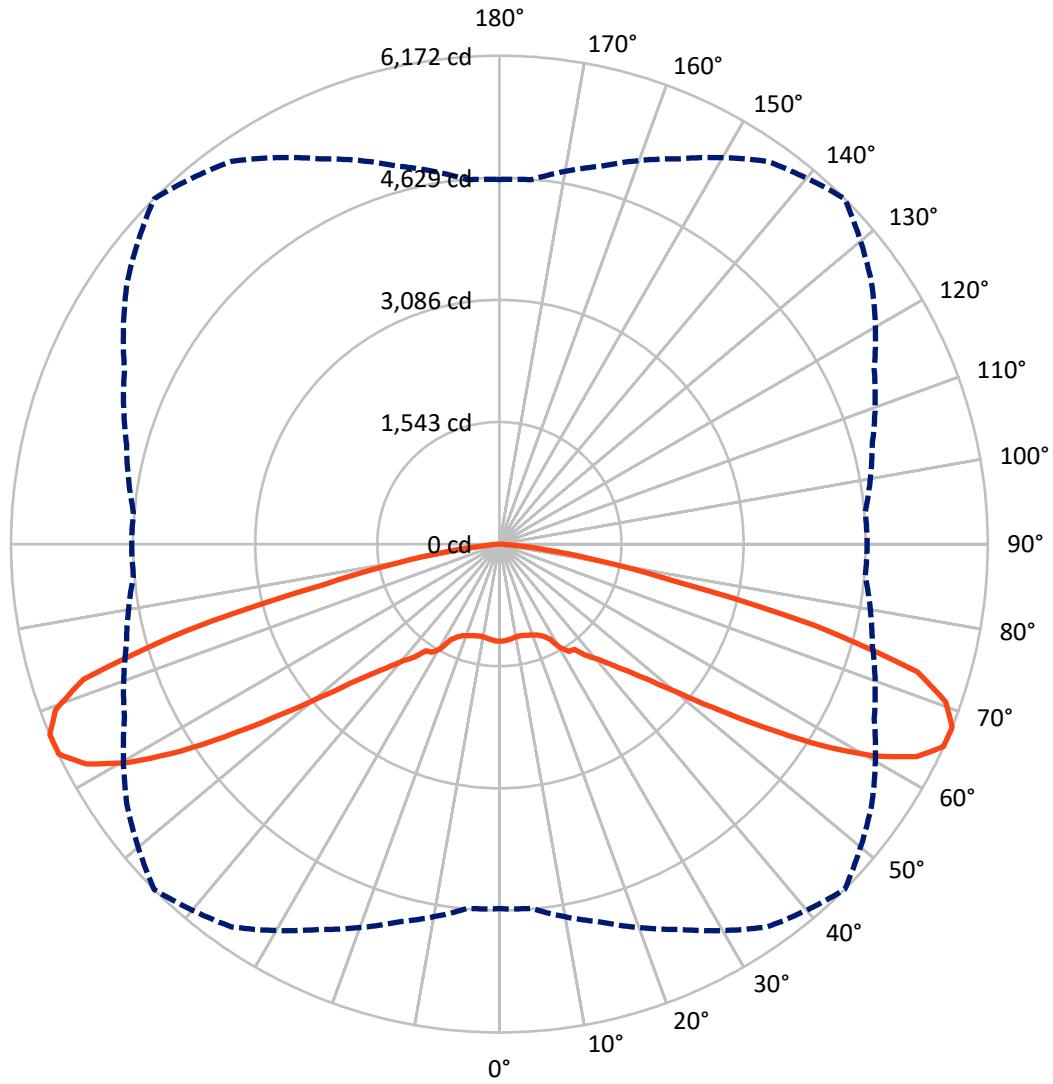
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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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CATALOG NUMBER: GWS-SA4C-830-U-5WQ-W

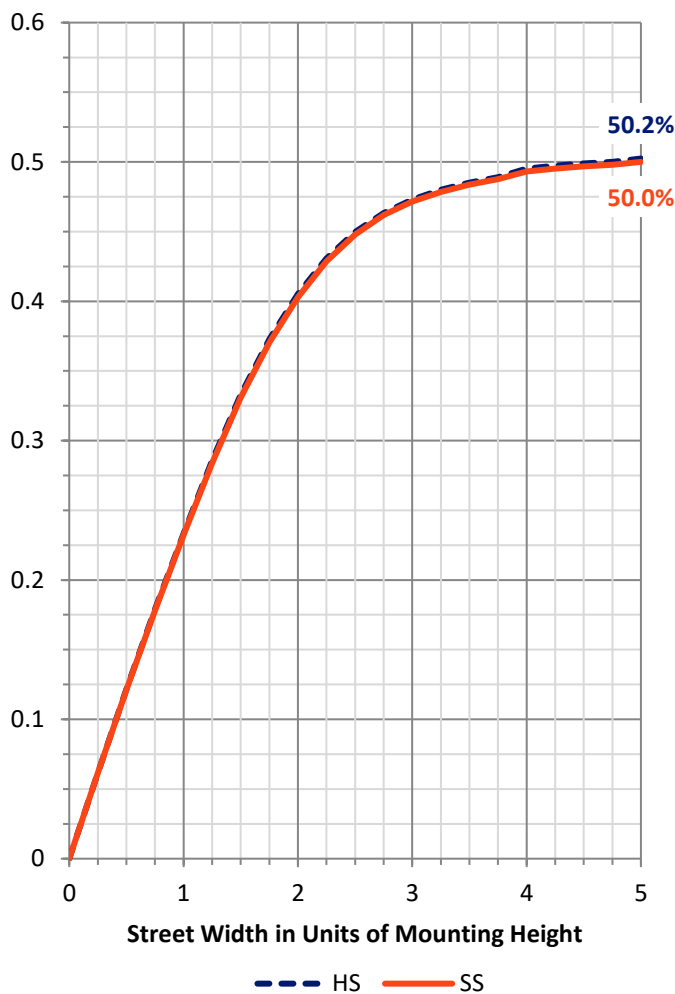
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7816.6	0.0	7816.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7816.6	0.0	7816.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15633.2	0.0	15633.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.1	0.7
10°-20°	341.6	2.2
20°-30°	612.8	3.9
30°-40°	1035.1	6.6
40°-50°	1818.7	11.6
50°-60°	3508.4	22.4
60°-70°	5090.2	32.6
70°-80°	2912.4	18.6
80°-90°	198.8	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°	15633.2	100.0
0°-180°	15633.2	100.0

**Coefficient of Utilization**



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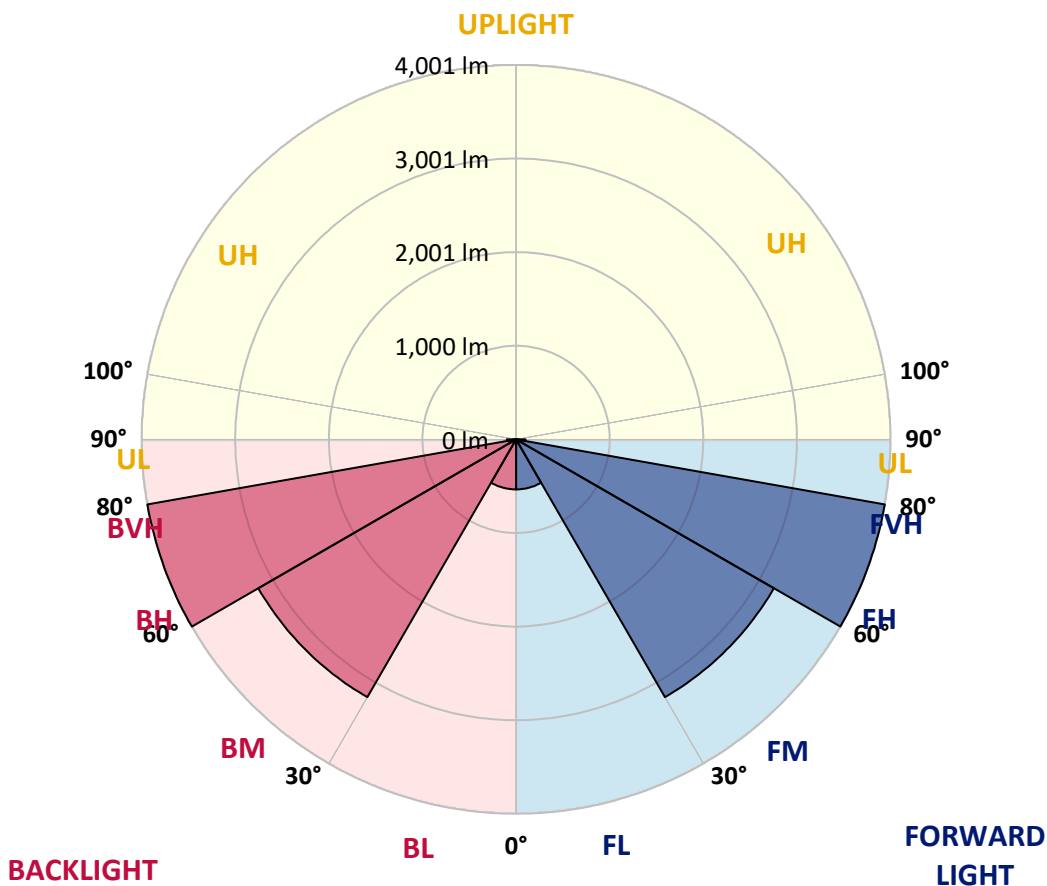
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	534.7	3.4			
FM (30°-60°)	3181.1	20.3			
FH (60°-80°)	4001.3	25.6			G2/5000
FVH (80°-90°)	99.4	0.6			G1/100
BL (0°-30°)	534.7	3.4	B2/1000		
BM (30°-60°)	3181.1	20.3	B3/5000		
BH (60°-80°)	4001.3	25.6	B4/5000		G2/5000
BVH (80°-90°)	99.4	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°	1226.0	1226.0	1226.0	1226.0	1226.0	1226.0	1226.0	1226.0	1226.0	1226.0	1226.0
2.5°	1216.0	1217.1	1219.3	1219.3	1221.5	1224.9	1226.0	1223.8	1224.9	1219.3	1224.9
5°	1212.7	1213.8	1214.9	1212.7	1212.7	1213.8	1213.8	1211.6	1212.7	1207.2	1212.7
7.5°	1205.0	1206.1	1206.1	1202.7	1199.4	1201.6	1201.6	1199.4	1200.5	1195.0	1201.6
10°	1198.3	1198.3	1197.2	1190.6	1187.3	1190.6	1191.7	1192.8	1197.2	1192.8	1200.5
12.5°	1202.7	1202.7	1199.4	1190.6	1185.1	1187.3	1189.5	1191.7	1199.4	1198.3	1207.2
15°	1214.9	1216.0	1207.2	1197.2	1193.9	1197.2	1195.0	1193.9	1203.9	1207.2	1217.1
17.5°	1224.9	1224.9	1213.8	1203.9	1205.0	1210.5	1206.1	1200.5	1210.5	1217.1	1228.2
20°	1233.7	1232.6	1220.4	1213.8	1218.2	1226.0	1222.6	1214.9	1221.5	1229.3	1239.2
22.5°	1255.8	1254.7	1241.4	1238.1	1242.5	1250.3	1247.0	1240.3	1248.1	1259.1	1271.3
25°	1318.8	1316.6	1296.7	1285.7	1283.4	1289.0	1287.9	1285.7	1297.8	1311.1	1325.5
27.5°	1402.8	1401.7	1387.4	1376.3	1361.9	1357.5	1360.8	1370.8	1388.5	1398.4	1410.6
30°	1444.8	1444.8	1442.6	1460.3	1491.3	1521.1	1497.9	1460.3	1444.8	1440.4	1452.6
32.5°	1500.1	1505.6	1497.9	1517.8	1569.8	1614.0	1569.8	1509.0	1497.9	1497.9	1511.2
35°	1627.2	1629.5	1617.3	1614.0	1630.6	1636.1	1615.1	1593.0	1605.1	1607.3	1623.9
37.5°	1728.9	1728.9	1723.4	1732.3	1766.5	1787.5	1753.3	1713.5	1716.8	1719.0	1740.0
40°	1885.9	1890.3	1877.1	1876.0	1889.2	1908.0	1871.6	1846.1	1863.8	1869.3	1901.4
42.5°	2081.6	2081.6	2061.7	2056.2	2065.0	2084.9	2050.6	2034.1	2057.3	2061.7	2080.5
45°	2314.8	2320.4	2293.8	2283.9	2288.3	2294.9	2270.6	2262.9	2285.0	2294.9	2328.1
47.5°	2599.0	2604.5	2581.3	2580.2	2575.7	2580.2	2556.9	2552.5	2570.2	2562.5	2597.8
50°	2949.4	2959.3	2939.4	2967.1	2963.8	2977.0	2945.0	2921.7	2921.7	2900.7	2920.6
52.5°	3341.8	3361.7	3371.7	3418.1	3453.5	3486.6	3433.6	3397.1	3344.0	3300.9	3355.1
55°	3769.6	3764.1	3827.1	3928.8	4032.7	4111.2	4007.3	3892.3	3806.1	3716.6	3737.6
57.5°	4144.4	4163.2	4246.1	4431.8	4637.4	4803.3	4616.4	4395.3	4199.7	4071.4	4089.1
60°	4456.1	4471.6	4582.2	4849.7	5209.0	5437.8	5141.5	4776.7	4492.6	4315.7	4334.5
62.5°	4743.6	4757.9	4869.6	5164.7	5618.0	5916.5	5534.0	5035.4	4719.2	4541.3	4552.3
65°	4909.4	4918.2	5070.8	5381.4	5859.0	6167.4	5736.3	5222.2	4911.6	4730.3	4736.9
67.5°	4607.6	4622.0	4943.6	5372.6	5905.4	6171.8	5745.1	5227.7	4878.4	4641.9	4647.4
70°	3634.8	3622.6	4006.2	4743.6	5639.0	5986.1	5489.7	4835.3	4295.8	3965.3	3959.8
72.5°	2771.4	2774.7	2988.1	3493.3	4597.6	5524.0	4844.2	3893.5	3312.0	3061.0	3051.1
75°	2009.7	2040.7	2214.2	2584.6	3215.8	4128.9	3646.9	2885.3	2496.1	2345.8	2323.7
77.5°	905.4	945.2	1187.3	1622.8	2150.1	2281.7	2290.5	1958.9	1478.0	1228.2	1189.5
80°	264.2	283.0	363.7	622.4	1001.6	1294.5	1028.1	864.5	538.4	422.3	402.4
82.5°	111.7	127.1	155.9	172.5	290.7	600.3	373.6	237.7	221.1	179.1	163.6
85°	47.5	50.9	65.2	69.6	94.0	128.2	118.3	107.2	102.8	79.6	73.0
87.5°	19.9	19.9	19.9	17.7	16.6	17.7	24.3	31.0	40.9	32.1	29.8
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)