

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: P637964

Luminaire Tested: GWS-SA4D-830-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637964  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-830-U-5WQ-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10237.6 lumens  
Efficiency: N/A  
Efficacy: 63.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 162.1  
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

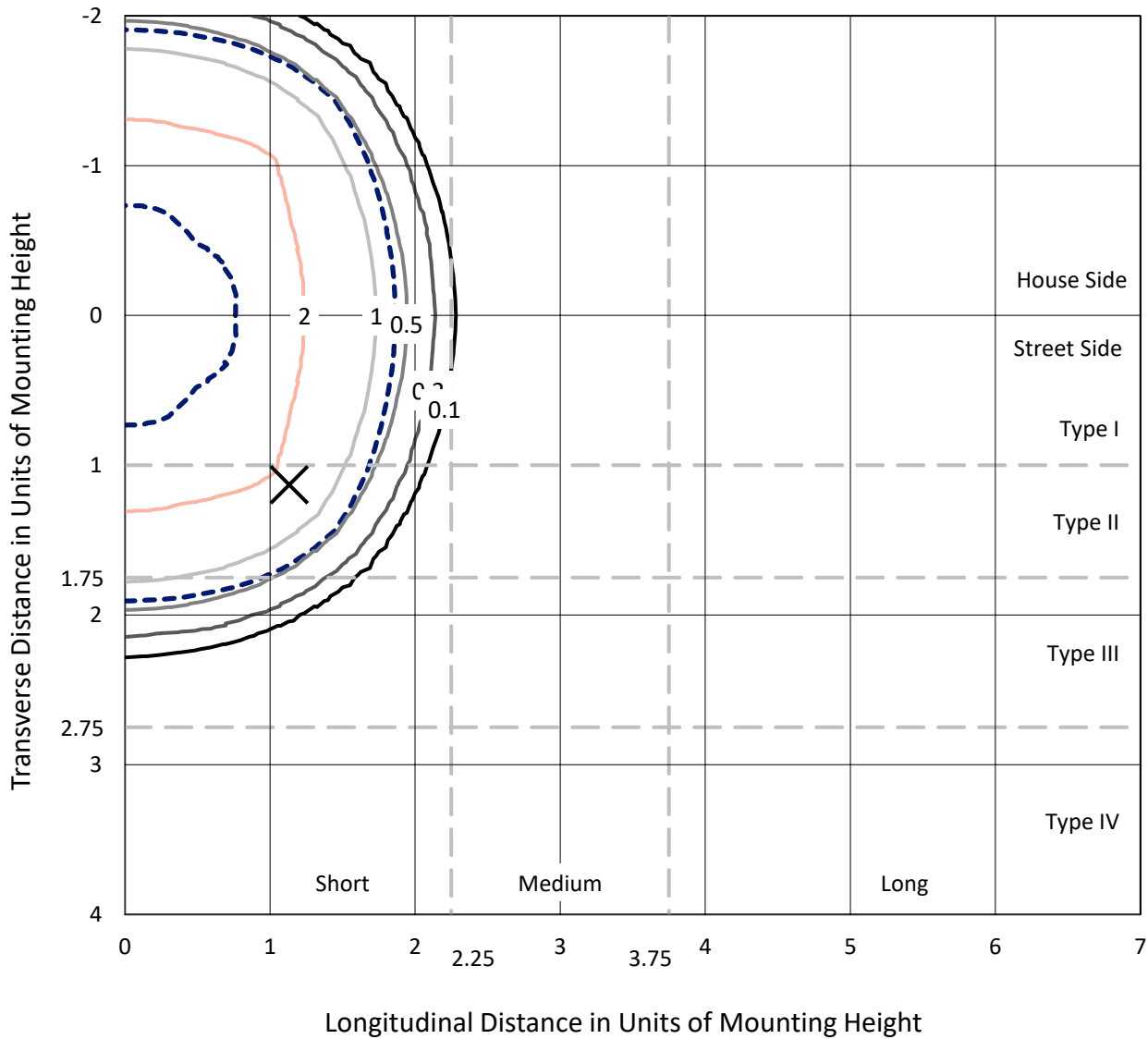


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### Iso-Footcandle Lines of Horizontal Illumination

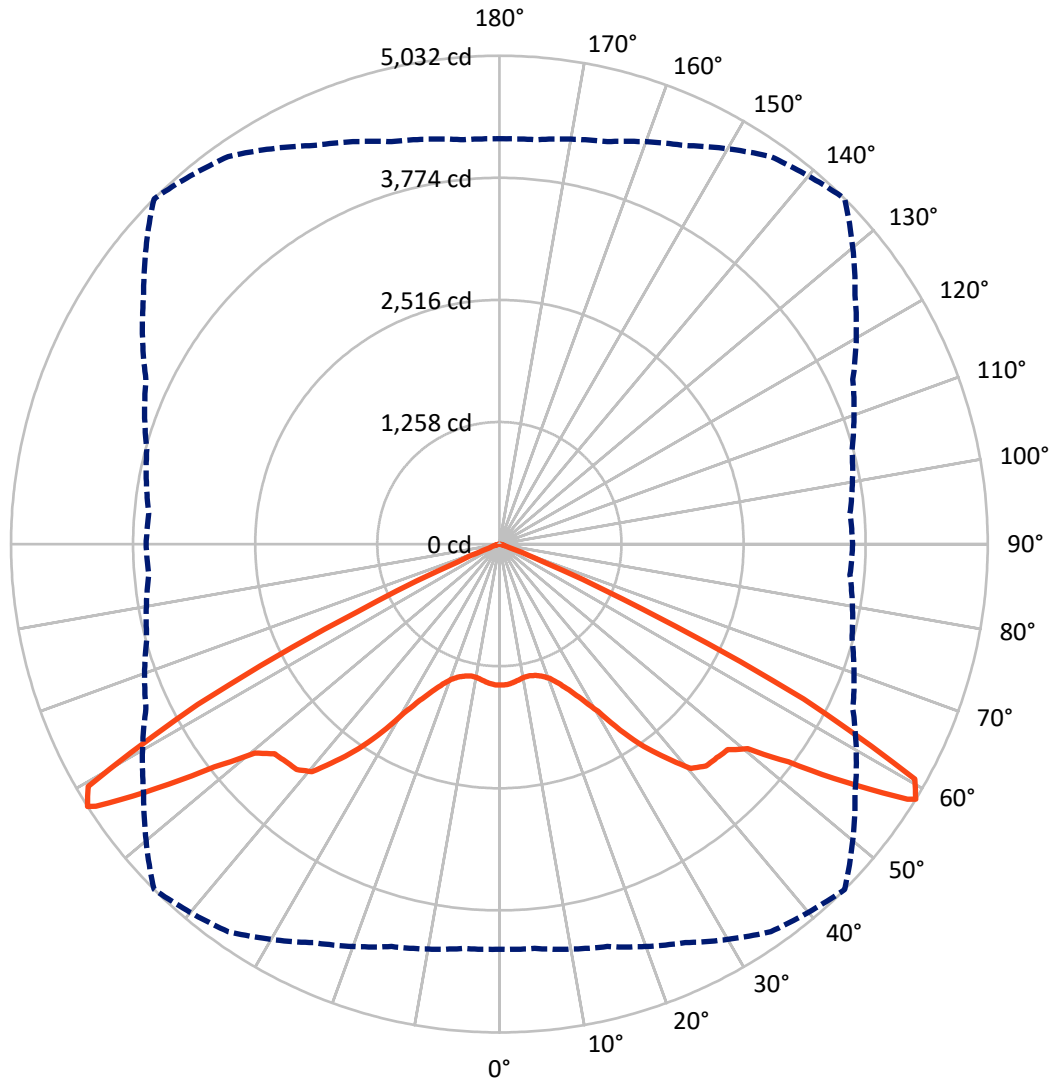
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5118.8	0.0	5118.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5118.8	0.0	5118.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10237.6	0.0	10237.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.5	1.3
10°-20°	400.8	3.9
20°-30°	758.0	7.4
30°-40°	1495.0	14.6
40°-50°	2365.9	23.1
50°-60°	3477.7	34.0
60°-70°	1552.3	15.2
70°-80°	52.0	0.5
80°-90°	0.4	0.0
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°	10237.6	100.0
0°-180°	10237.6	100.0

**Coefficient of Utilization**



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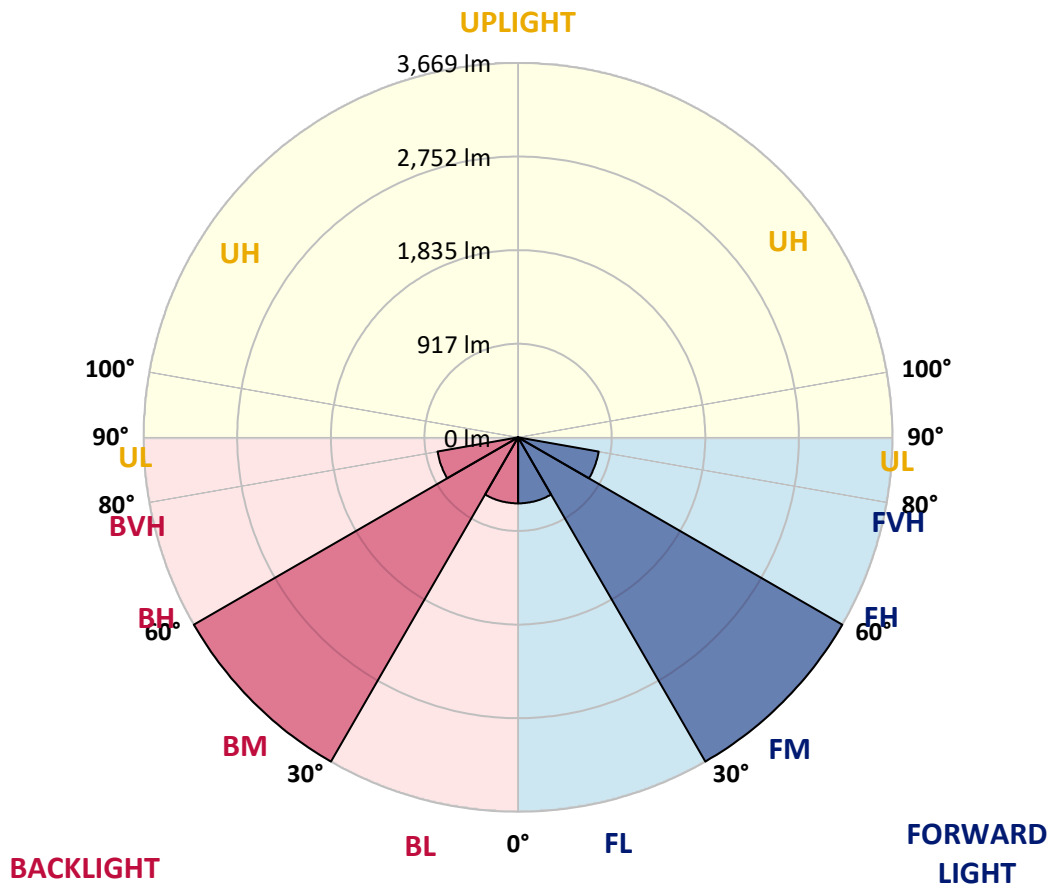
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	647.2	6.3			
FM (30°-60°)	3669.3	35.8			
FH (60°-80°)	802.1	7.8			G1/1800
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	647.2	6.3	B2/1000		
BM (30°-60°)	3669.3	35.8	B3/5000		
BH (60°-80°)	802.1	7.8	B2/1000		G1/1800
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1451.8	1451.8	1451.8	1451.8	1451.8	1451.8	1451.8	1451.8	1451.8	1451.8	1451.8
2.5°	1437.9	1440.7	1443.5	1444.9	1446.2	1450.4	1451.8	1447.6	1447.6	1439.3	1449.0
5°	1430.9	1433.7	1436.5	1435.1	1435.1	1435.1	1433.7	1428.1	1426.7	1418.4	1428.1
7.5°	1418.4	1421.1	1421.1	1417.0	1414.2	1414.2	1412.8	1405.8	1404.4	1396.0	1405.8
10°	1408.6	1410.0	1408.6	1400.2	1394.6	1394.6	1393.3	1390.5	1391.9	1386.3	1394.6
12.5°	1414.2	1415.6	1410.0	1398.8	1391.9	1390.5	1386.3	1382.1	1386.3	1384.9	1393.3
15°	1432.3	1433.7	1423.9	1410.0	1404.4	1404.4	1393.3	1382.1	1387.7	1389.1	1398.8
17.5°	1454.6	1454.6	1442.1	1429.5	1430.9	1430.9	1412.8	1393.3	1394.6	1400.2	1410.0
20°	1481.1	1481.1	1468.6	1465.8	1475.5	1476.9	1454.6	1423.9	1417.0	1421.1	1432.3
22.5°	1528.5	1528.5	1518.8	1525.7	1548.1	1555.0	1521.6	1478.3	1461.6	1464.4	1475.5
25°	1602.4	1602.4	1599.7	1616.4	1648.5	1663.8	1619.2	1562.0	1534.1	1529.9	1542.5
27.5°	1726.6	1728.0	1723.8	1748.9	1789.3	1807.5	1746.1	1670.8	1637.3	1630.3	1642.9
30°	1887.0	1887.0	1888.4	1923.2	1976.2	1999.9	1919.0	1831.2	1792.1	1769.8	1786.5
32.5°	2065.5	2068.3	2082.2	2140.8	2234.2	2283.0	2164.5	2041.8	1979.0	1955.3	1973.4
35°	2359.7	2333.2	2316.5	2359.7	2495.0	2559.2	2407.2	2263.5	2216.1	2213.3	2259.3
37.5°	2651.2	2635.9	2601.0	2645.6	2767.0	2796.3	2628.9	2509.0	2475.5	2493.6	2539.7
40°	2882.7	2854.8	2808.8	2850.7	3009.6	3038.9	2832.5	2714.0	2701.4	2741.9	2804.6
42.5°	3065.4	3026.4	2965.0	2974.8	3103.1	3124.0	2941.3	2852.1	2860.4	2910.6	2981.8
45°	3147.7	3117.0	3062.6	3058.5	3139.4	3140.7	2997.1	2951.1	2973.4	3012.4	3068.2
47.5°	3182.6	3168.6	3138.0	3131.0	3177.0	3165.8	3076.6	3057.1	3078.0	3089.1	3121.2
50°	3269.1	3269.1	3273.2	3278.8	3326.2	3315.1	3252.3	3230.0	3203.5	3164.5	3174.2
52.5°	3511.7	3521.5	3561.9	3606.6	3693.0	3729.3	3627.5	3497.8	3370.9	3285.8	3285.8
55°	3949.6	3959.4	4006.8	4082.1	4241.1	4327.6	4090.5	3804.6	3630.3	3514.5	3529.9
57.5°	4190.9	4202.1	4299.7	4503.3	4811.5	4958.0	4448.9	4025.0	3780.9	3648.4	3659.6
58°	4175.6	4182.5	4292.7	4531.2	4874.3	5031.9	4474.0	4018.0	3761.4	3626.1	3640.0
60°	3709.8	3700.0	3875.7	4216.0	4700.0	4917.5	4224.4	3667.9	3369.5	3231.4	3238.4
62.5°	2425.3	2430.9	2582.9	2938.5	3315.1	3520.1	2951.1	2536.9	2297.0	2213.3	2192.4
65°	1012.5	994.4	1087.8	1285.9	1511.8	1626.2	1397.4	1182.7	1034.8	979.0	994.4
67.5°	260.8	253.8	259.4	325.0	397.5	470.0	394.7	301.2	262.2	265.0	265.0
70°	147.8	139.5	113.0	104.6	101.8	101.8	101.8	101.8	117.2	138.1	142.3
72.5°	111.6	104.6	82.3	71.1	62.8	58.6	61.4	71.1	85.1	103.2	106.0
75°	55.8	55.8	50.2	47.4	41.8	39.1	40.4	44.6	51.6	58.6	57.2
77.5°	11.2	12.6	13.9	16.7	13.9	13.9	13.9	16.7	16.7	18.1	16.7
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	0.0	1.4	1.4	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)