

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: P637249

Luminaire Tested: GWS-SA4C-740-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637249  
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-SA4C-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10215.5 lumens  
Efficiency: N/A  
Efficacy: 79.5 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): 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

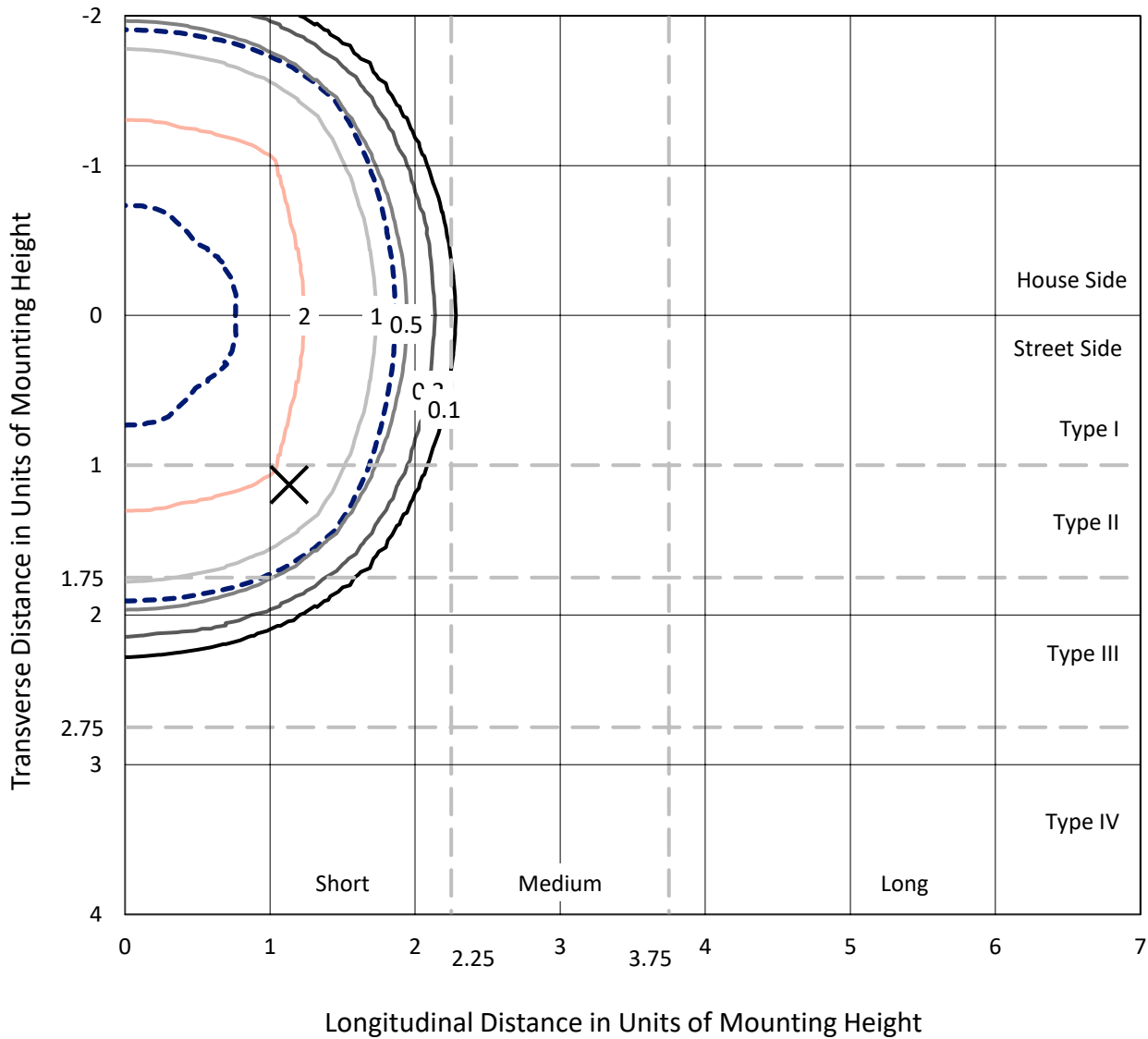


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### Iso-Footcandle Lines of Horizontal Illumination

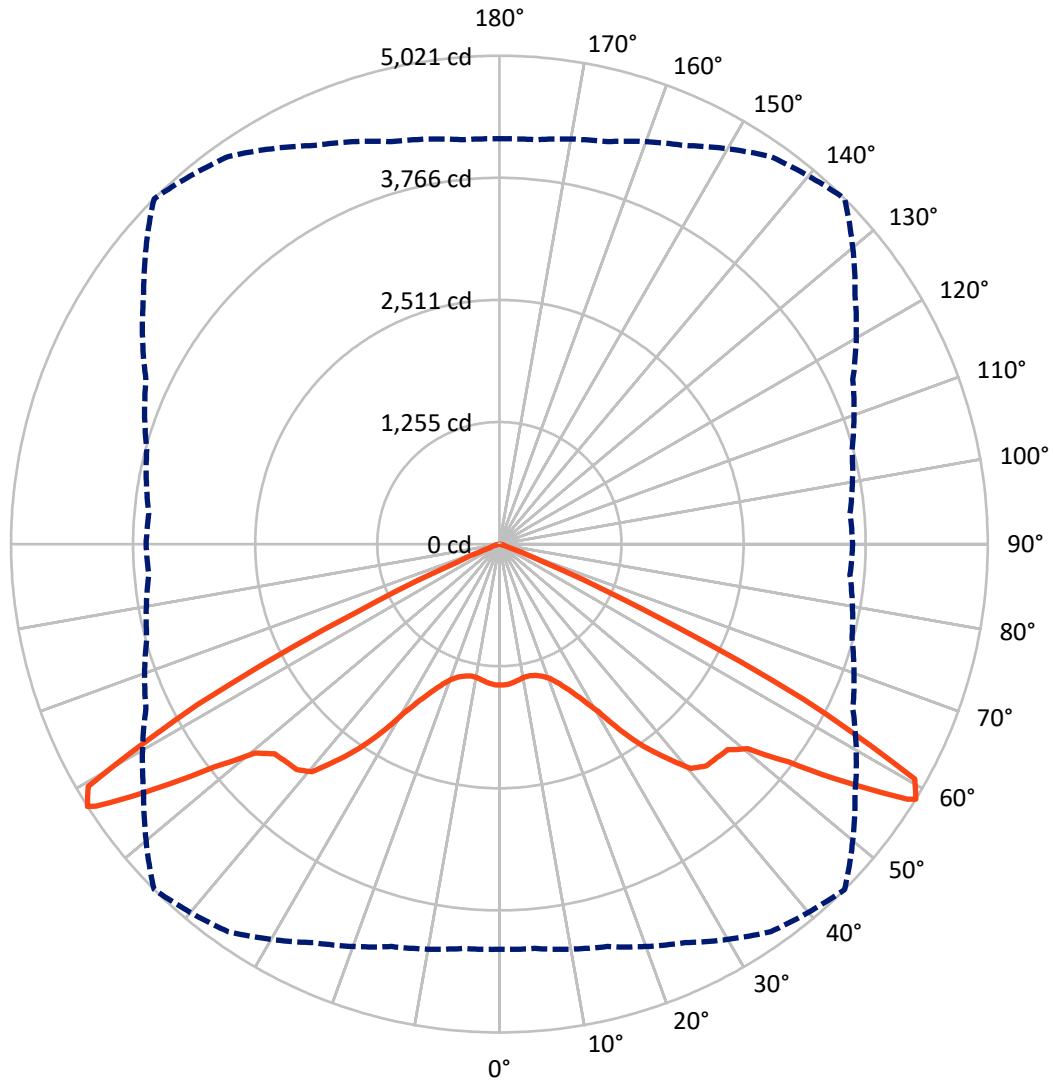
✕ Max cd  
 - - - 1/2 Max cd



Based on 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	5107.7	0.0	5107.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5107.7	0.0	5107.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10215.5	0.0	10215.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.2	1.3
10°-20°	399.9	3.9
20°-30°	756.4	7.4
30°-40°	1491.8	14.6
40°-50°	2360.8	23.1
50°-60°	3470.2	34.0
60°-70°	1548.9	15.2
70°-80°	51.9	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°	10215.5	100.0
0°-180°	10215.5	100.0

**Coefficient of Utilization**



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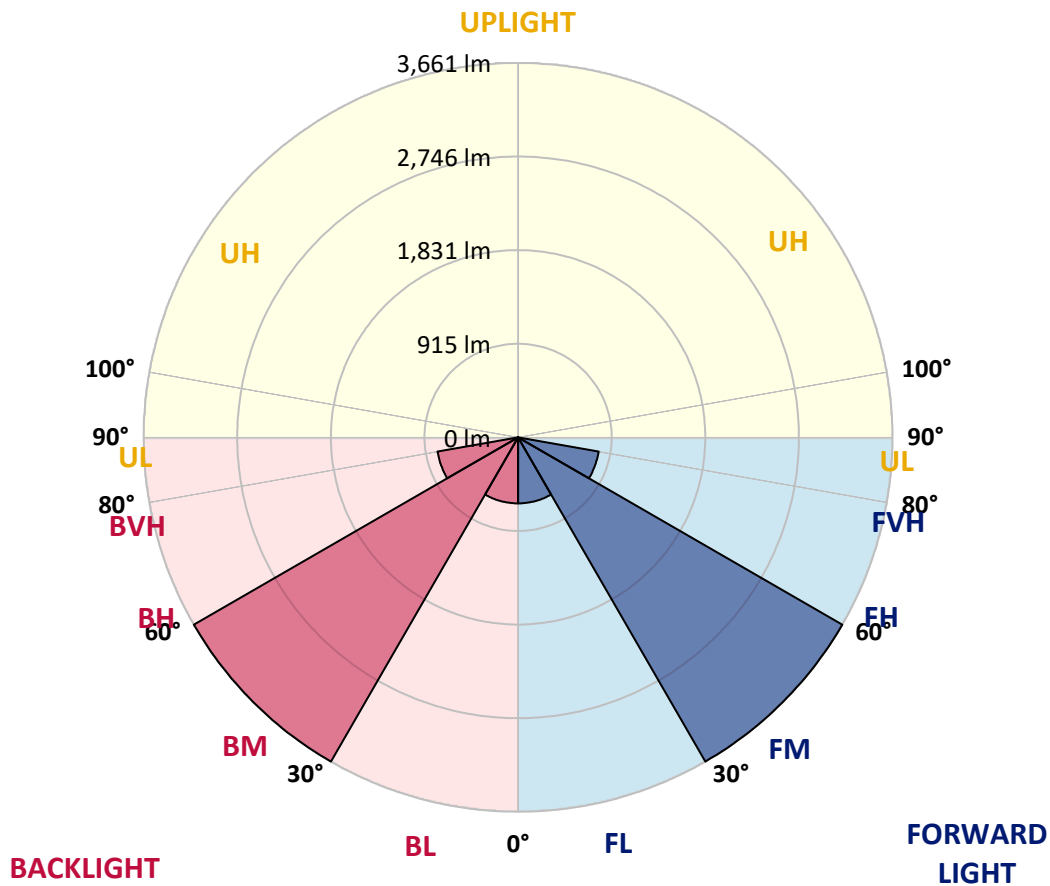
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	645.8	6.3			
FM (30°-60°)	3661.4	35.8			
FH (60°-80°)	800.4	7.8			G1/1800
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	645.8	6.3	B2/1000		
BM (30°-60°)	3661.4	35.8	B3/5000		
BH (60°-80°)	800.4	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°	1448.7	1448.7	1448.7	1448.7	1448.7	1448.7	1448.7	1448.7	1448.7	1448.7	1448.7
2.5°	1434.8	1437.6	1440.3	1441.7	1443.1	1447.3	1448.7	1444.5	1444.5	1436.2	1445.9
5°	1427.8	1430.6	1433.4	1432.0	1432.0	1432.0	1430.6	1425.0	1423.6	1415.3	1425.0
7.5°	1415.3	1418.1	1418.1	1413.9	1411.1	1411.1	1409.7	1402.8	1401.4	1393.0	1402.8
10°	1405.6	1406.9	1405.6	1397.2	1391.6	1391.6	1390.2	1387.5	1388.9	1383.3	1391.6
12.5°	1411.1	1412.5	1406.9	1395.8	1388.9	1387.5	1383.3	1379.1	1383.3	1381.9	1390.2
15°	1429.2	1430.6	1420.9	1406.9	1401.4	1401.4	1390.2	1379.1	1384.7	1386.1	1395.8
17.5°	1451.5	1451.5	1439.0	1426.4	1427.8	1427.8	1409.7	1390.2	1391.6	1397.2	1406.9
20°	1477.9	1477.9	1465.4	1462.6	1472.4	1473.7	1451.5	1420.9	1413.9	1418.1	1429.2
22.5°	1525.2	1525.2	1515.5	1522.5	1544.7	1551.7	1518.3	1475.1	1458.4	1461.2	1472.4
25°	1599.0	1599.0	1596.2	1612.9	1644.9	1660.2	1615.7	1558.6	1530.8	1526.6	1539.2
27.5°	1722.8	1724.2	1720.1	1745.1	1785.5	1803.6	1742.3	1667.2	1633.8	1626.8	1639.3
30°	1882.9	1882.9	1884.3	1919.1	1971.9	1995.6	1914.9	1827.2	1788.3	1766.0	1782.7
32.5°	2061.0	2063.8	2077.7	2136.2	2229.4	2278.1	2159.8	2037.4	1974.7	1951.1	1969.2
35°	2354.6	2328.2	2311.5	2354.6	2489.6	2553.7	2402.0	2258.6	2211.3	2208.5	2254.5
37.5°	2645.5	2630.2	2595.4	2639.9	2761.0	2790.2	2623.2	2503.6	2470.2	2488.2	2534.2
40°	2876.5	2848.7	2802.8	2844.5	3003.2	3032.4	2826.4	2708.1	2695.6	2736.0	2798.6
42.5°	3058.8	3019.9	2958.6	2968.4	3096.4	3117.3	2935.0	2845.9	2854.2	2904.3	2975.3
45°	3140.9	3110.3	3056.0	3051.9	3132.6	3134.0	2990.6	2944.7	2967.0	3005.9	3061.6
47.5°	3175.7	3161.8	3131.2	3124.2	3170.1	3159.0	3070.0	3050.5	3071.3	3082.5	3114.5
50°	3262.0	3262.0	3266.2	3271.7	3319.1	3307.9	3245.3	3223.0	3196.6	3157.6	3167.4
52.5°	3504.1	3513.9	3554.2	3598.8	3685.1	3721.2	3619.6	3490.2	3363.6	3278.7	3278.7
55°	3941.1	3950.9	3998.2	4073.3	4232.0	4318.2	4081.7	3796.4	3622.4	3506.9	3522.2
57.5°	4181.9	4193.0	4290.4	4493.6	4801.1	4947.3	4439.3	4016.3	3772.7	3640.5	3651.7
58°	4166.6	4173.5	4283.5	4521.4	4863.8	5021.0	4464.4	4009.3	3753.2	3618.3	3632.2
60°	3701.8	3692.0	3867.4	4206.9	4689.8	4906.9	4215.3	3660.0	3362.2	3224.4	3231.4
62.5°	2420.1	2425.6	2577.3	2932.2	3307.9	3512.5	2944.7	2531.4	2292.0	2208.5	2187.7
65°	1010.3	992.2	1085.5	1283.1	1508.5	1622.6	1394.4	1180.1	1032.6	976.9	992.2
67.5°	260.2	253.3	258.8	324.3	396.6	469.0	393.8	300.6	261.6	264.4	264.4
70°	147.5	139.2	112.7	104.4	101.6	101.6	101.6	101.6	116.9	137.8	141.9
72.5°	111.3	104.4	82.1	71.0	62.6	58.4	61.2	71.0	84.9	103.0	105.8
75°	55.7	55.7	50.1	47.3	41.7	39.0	40.4	44.5	51.5	58.4	57.1
77.5°	11.1	12.5	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)