

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: P637194

Luminaire Tested: GWS-SA4C-735-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637194
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10075.5 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

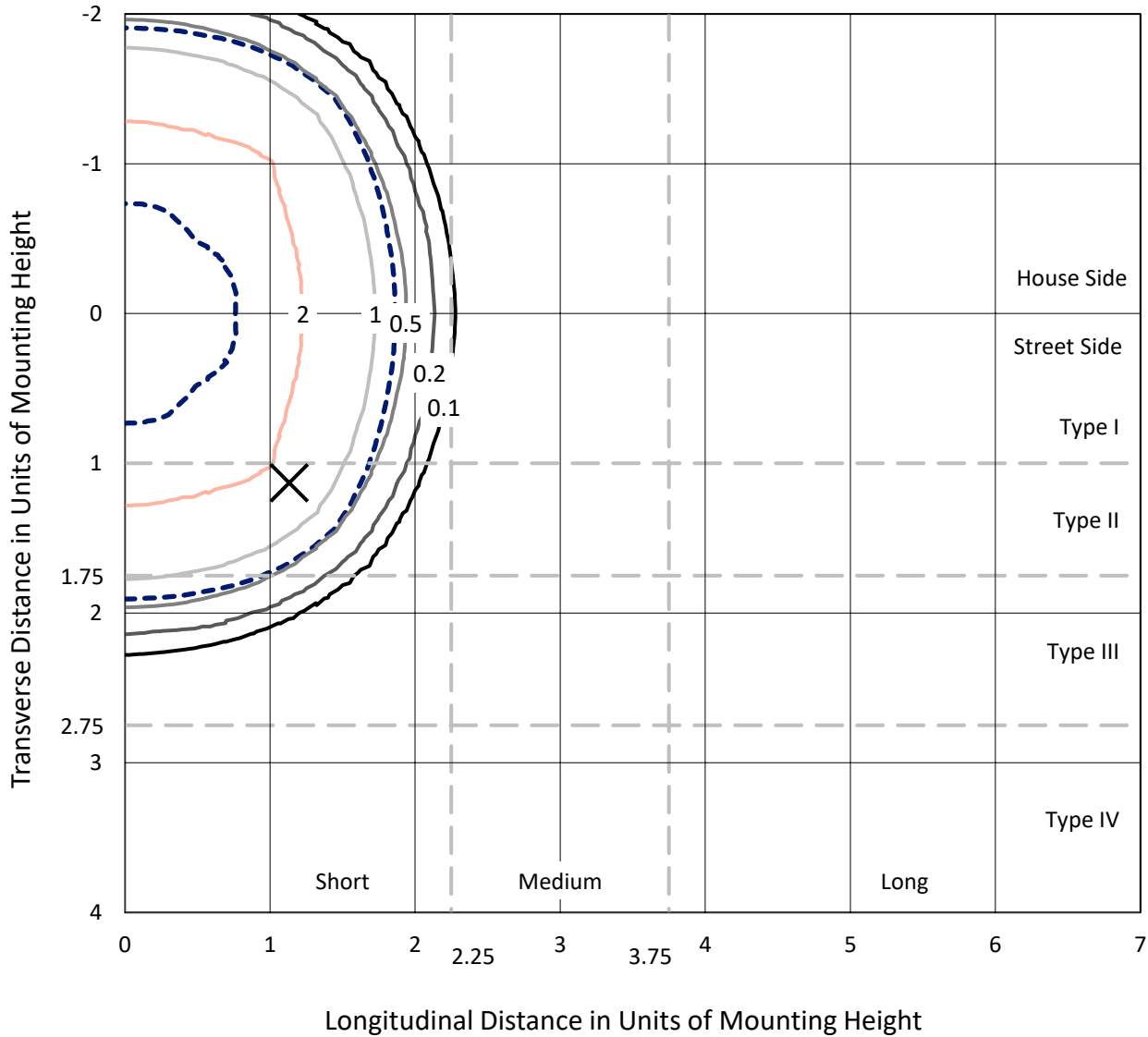
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

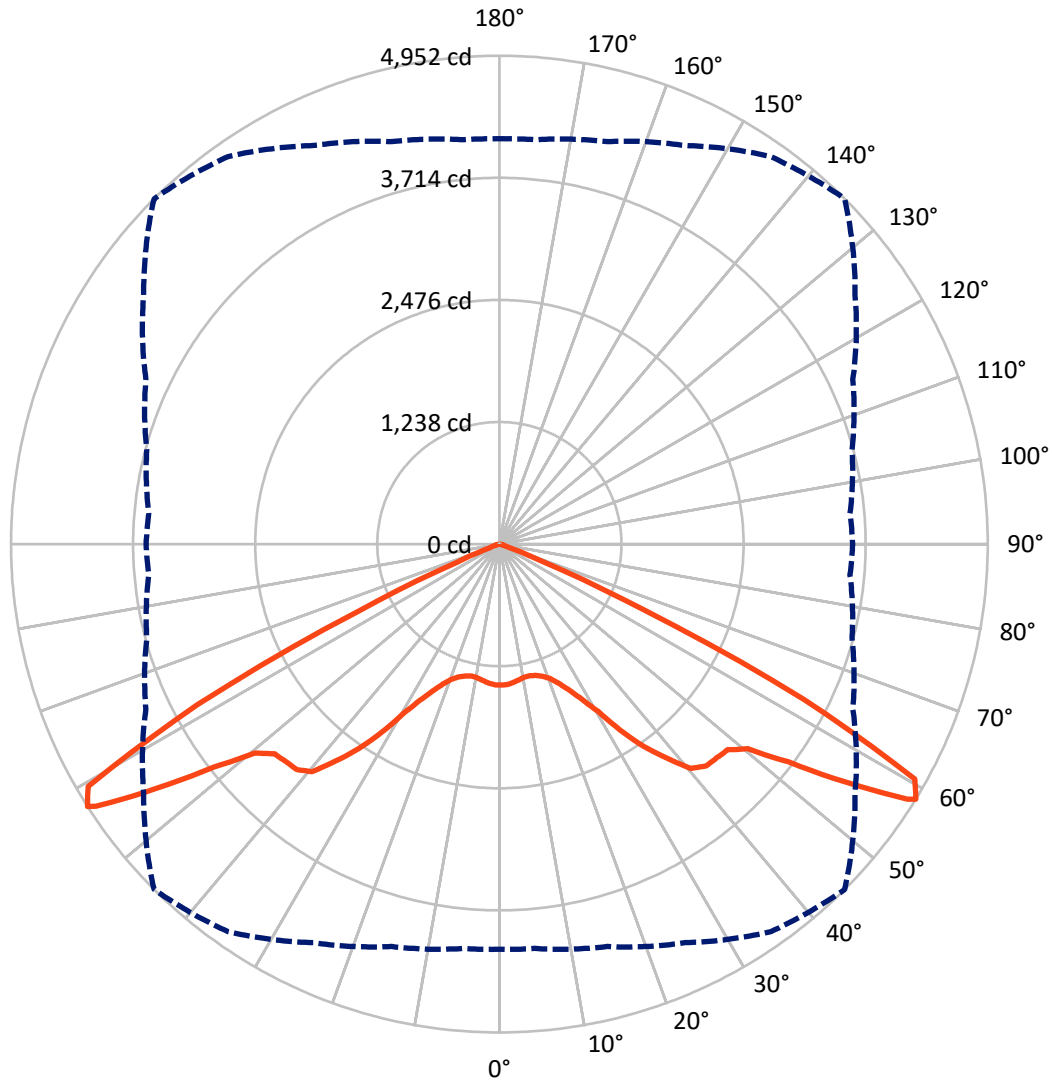
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	5037.8	0.0	5037.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5037.8	0.0	5037.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	10075.5	0.0	10075.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.3	1.3
10°-20°	394.5	3.9
20°-30°	746.0	7.4
30°-40°	1471.4	14.6
40°-50°	2328.4	23.1
50°-60°	3422.6	34.0
60°-70°	1527.7	15.2
70°-80°	51.2	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°	10075.5	100.0
0°-180°	10075.5	100.0

Coefficient of Utilization



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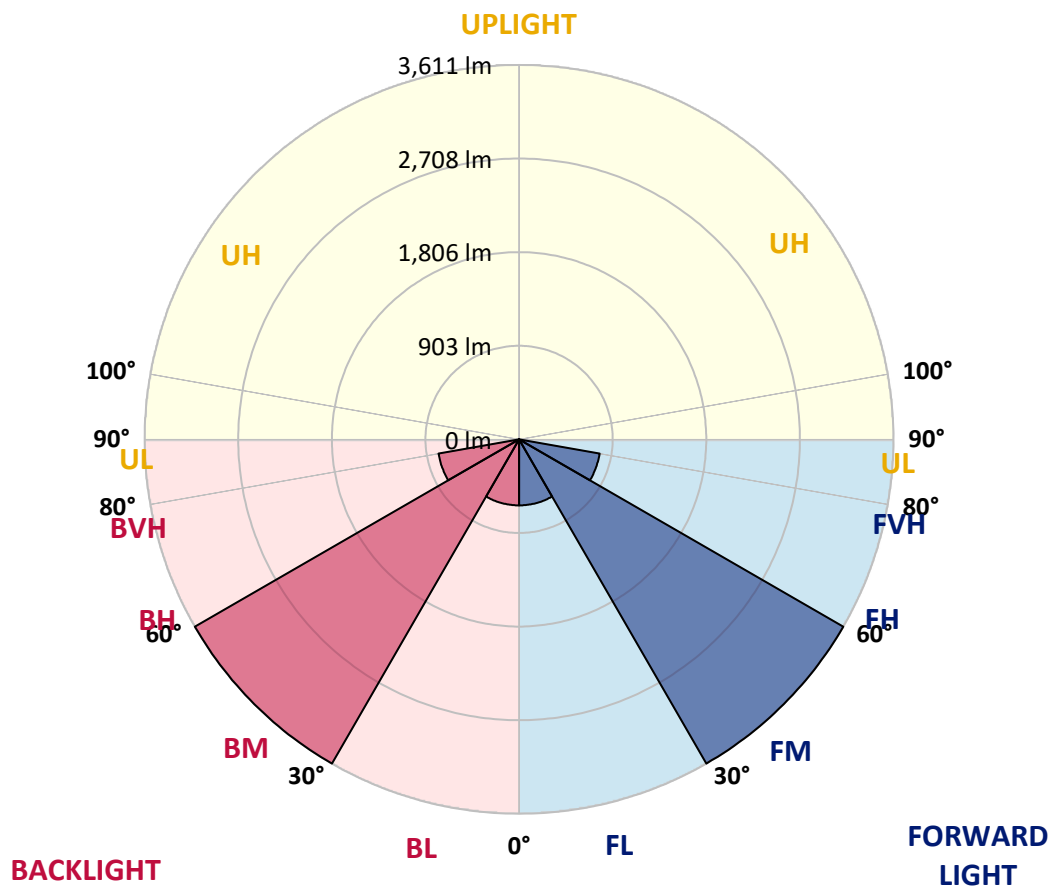
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	636.9	6.3			
FM (30°-60°)	3611.2	35.8			
FH (60°-80°)	789.4	7.8			G1/1800
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	636.9	6.3	B2/1000		
BM (30°-60°)	3611.2	35.8	B3/5000		
BH (60°-80°)	789.4	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°	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8	1428.8
2.5°	1415.1	1417.9	1420.6	1422.0	1423.3	1427.5	1428.8	1424.7	1424.7	1416.5	1426.1
5°	1408.3	1411.0	1413.7	1412.4	1412.4	1412.4	1411.0	1405.5	1404.1	1395.9	1405.5
7.5°	1395.9	1398.6	1398.6	1394.5	1391.8	1391.8	1390.4	1383.5	1382.2	1373.9	1383.5
10°	1386.3	1387.7	1386.3	1378.1	1372.6	1372.6	1371.2	1368.4	1369.8	1364.3	1372.6
12.5°	1391.8	1393.2	1387.7	1376.7	1369.8	1368.4	1364.3	1360.2	1364.3	1363.0	1371.2
15°	1409.6	1411.0	1401.4	1387.7	1382.2	1382.2	1371.2	1360.2	1365.7	1367.1	1376.7
17.5°	1431.6	1431.6	1419.2	1406.9	1408.3	1408.3	1390.4	1371.2	1372.6	1378.1	1387.7
20°	1457.7	1457.7	1445.3	1442.6	1452.2	1453.5	1431.6	1401.4	1394.5	1398.6	1409.6
22.5°	1504.3	1504.3	1494.7	1501.6	1523.5	1530.4	1497.5	1454.9	1438.4	1441.2	1452.2
25°	1577.1	1577.1	1574.3	1590.8	1622.4	1637.5	1593.5	1537.3	1509.8	1505.7	1518.1
27.5°	1699.2	1700.6	1696.5	1721.2	1761.0	1778.8	1718.5	1644.3	1611.4	1604.5	1616.9
30°	1857.1	1857.1	1858.5	1892.8	1944.9	1968.3	1888.6	1802.2	1763.7	1741.8	1758.3
32.5°	2032.8	2035.5	2049.2	2106.9	2198.8	2246.9	2130.2	2009.4	1947.7	1924.3	1942.2
35°	2322.4	2296.3	2279.8	2322.4	2455.5	2518.7	2369.0	2227.7	2181.0	2178.3	2223.6
37.5°	2609.2	2594.1	2559.8	2603.8	2723.2	2752.0	2587.3	2469.2	2436.3	2454.1	2499.4
40°	2837.1	2809.6	2764.3	2805.5	2962.0	2990.8	2787.7	2671.0	2658.7	2698.5	2760.2
42.5°	3016.9	2978.5	2918.1	2927.7	3054.0	3074.5	2894.7	2806.9	2815.1	2864.5	2934.5
45°	3097.9	3067.7	3014.2	3010.0	3089.6	3091.0	2949.6	2904.3	2926.3	2964.7	3019.6
47.5°	3132.2	3118.5	3088.3	3081.4	3126.7	3115.7	3027.9	3008.7	3029.3	3040.2	3071.8
50°	3217.3	3217.3	3221.4	3226.9	3273.6	3262.6	3200.8	3178.9	3152.8	3114.3	3124.0
52.5°	3456.1	3465.7	3505.5	3549.5	3634.6	3670.2	3570.0	3442.4	3317.5	3233.8	3233.8
55°	3887.1	3896.7	3943.4	4017.5	4174.0	4259.1	4025.7	3744.4	3572.8	3458.9	3474.0
57.5°	4124.6	4135.5	4231.6	4432.0	4735.3	4879.5	4378.5	3961.2	3721.0	3590.6	3601.6
58°	4109.5	4116.3	4224.8	4459.5	4797.1	4952.2	4403.2	3954.4	3701.8	3568.7	3582.4
60°	3651.0	3641.4	3814.4	4149.3	4625.5	4839.7	4157.5	3609.8	3316.1	3180.2	3187.1
62.5°	2386.9	2392.4	2542.0	2892.0	3262.6	3464.4	2904.3	2496.7	2260.6	2178.3	2157.7
65°	996.5	978.6	1070.6	1265.5	1487.9	1600.4	1375.3	1163.9	1018.4	963.5	978.6
67.5°	256.7	249.8	255.3	319.8	391.2	462.6	388.4	296.5	258.0	260.8	260.8
70°	145.5	137.3	111.2	102.9	100.2	100.2	100.2	100.2	115.3	135.9	140.0
72.5°	109.8	102.9	81.0	70.0	61.8	57.6	60.4	70.0	83.7	101.6	104.3
75°	54.9	54.9	49.4	46.7	41.2	38.4	39.8	43.9	50.8	57.6	56.3
77.5°	11.0	12.4	13.7	16.5	13.7	13.7	13.7	16.5	16.5	17.8	16.5
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)