

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: P636973

Luminaire Tested: GWS-SA4B-830-U-5NQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-830-U-5NQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12017.9 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

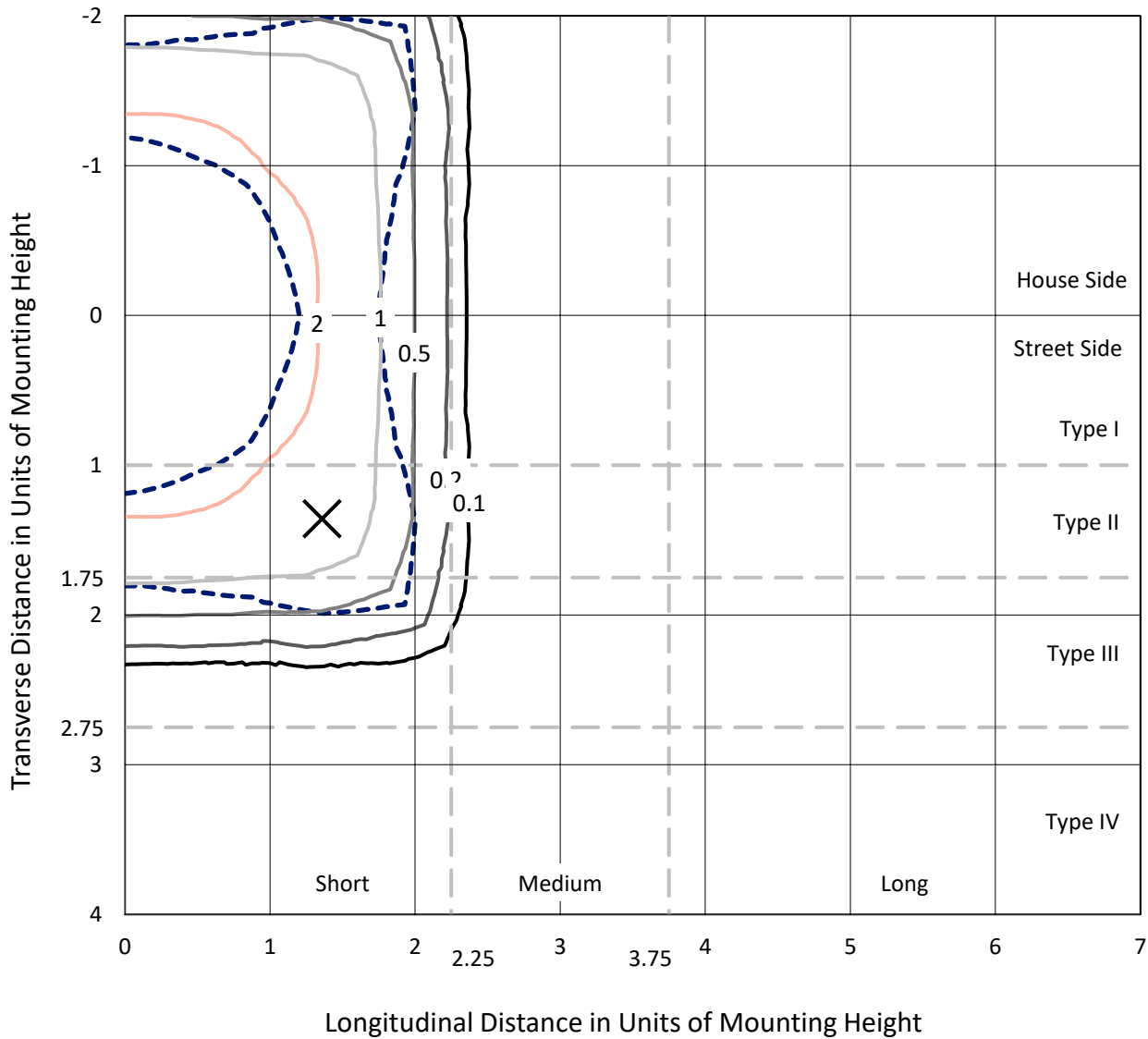
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

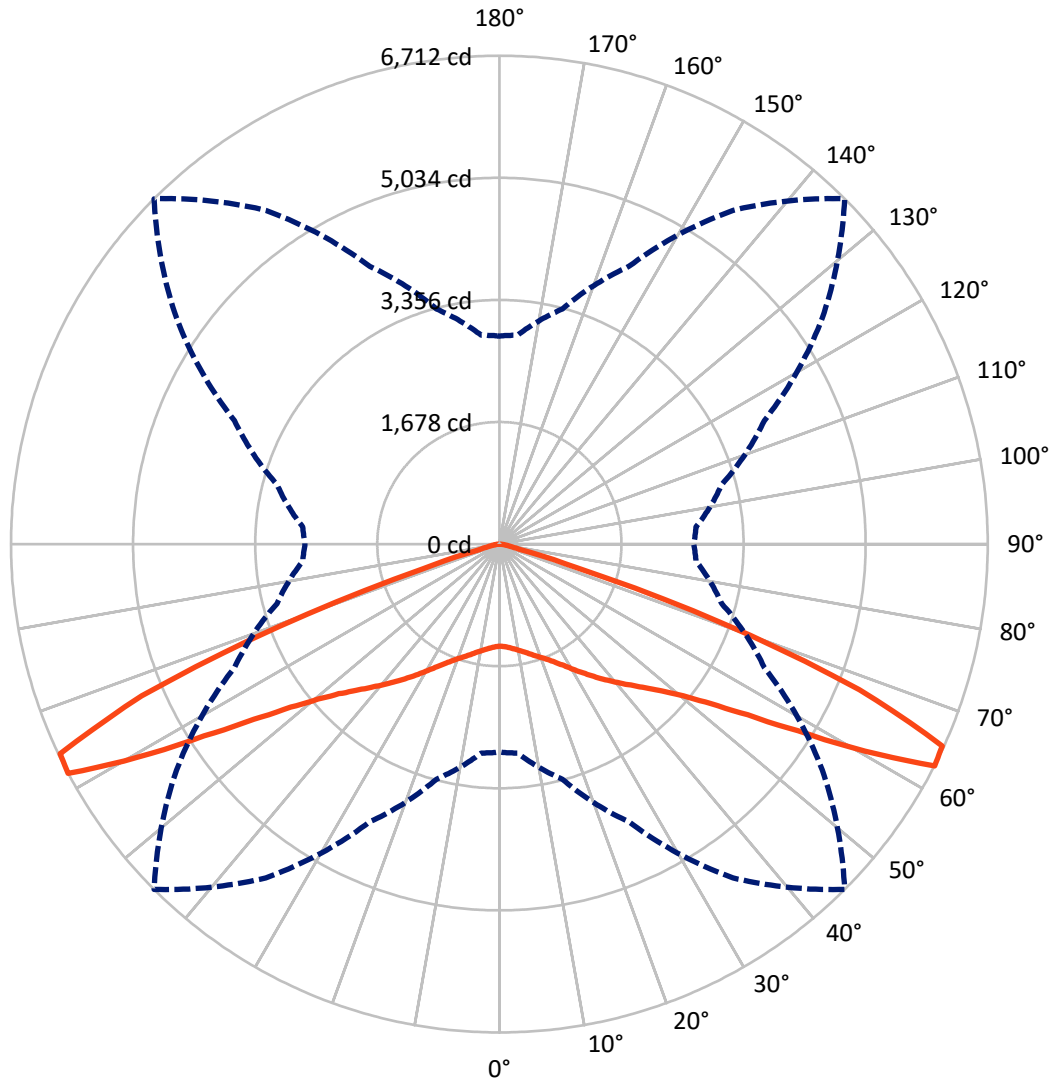
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6008.9	0.0	6008.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6008.9	0.0	6008.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	12017.9	0.0	12017.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	1.1
10°-20°	443.6	3.7
20°-30°	839.3	7.0
30°-40°	1412.6	11.8
40°-50°	2256.9	18.8
50°-60°	3638.0	30.3
60°-70°	2968.2	24.7
70°-80°	288.2	2.4
80°-90°	33.5	0.3
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°	12017.9	100.0
0°-180°	12017.9	100.0

Coefficient of Utilization



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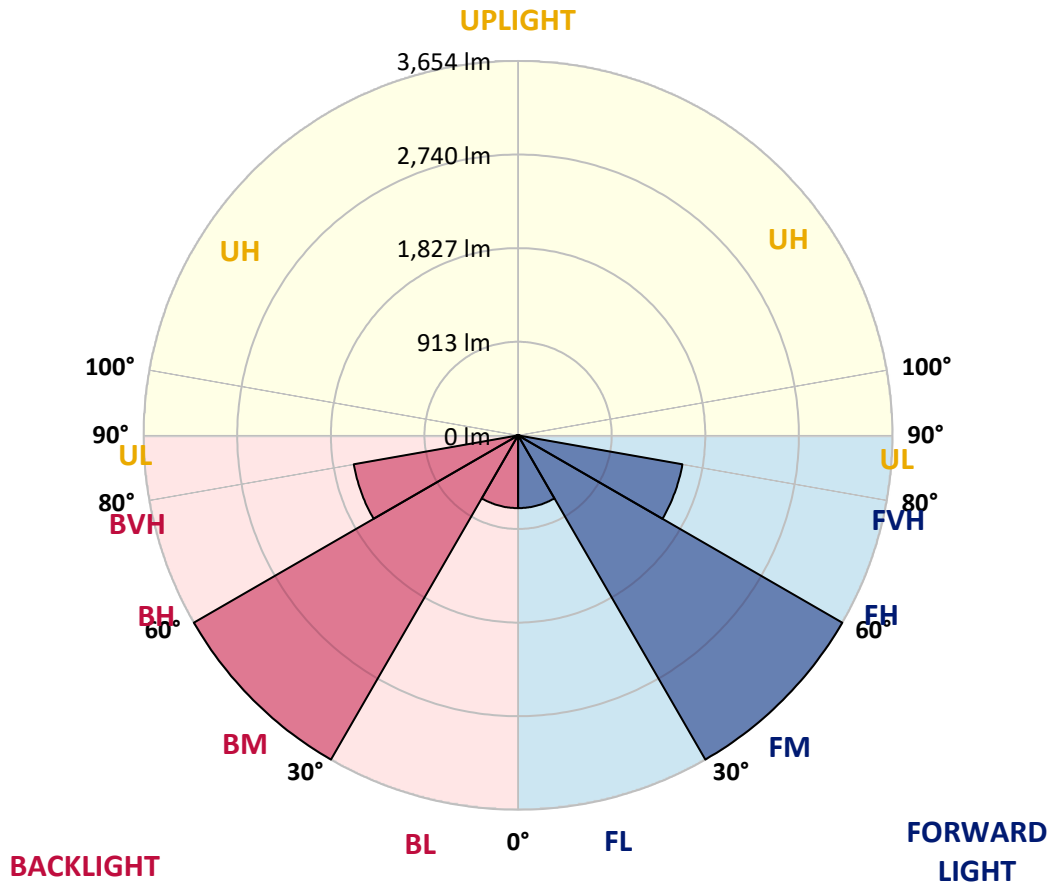
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	710.2	5.9			
FM (30°-60°)	3653.7	30.4			
FH (60°-80°)	1628.2	13.5			G1/1800
FVH (80°-90°)	16.8	0.1			G1/100
BL (0°-30°)	710.2	5.9	B2/1000		
BM (30°-60°)	3653.7	30.4	B3/5000		
BH (60°-80°)	1628.2	13.5	B3/2500		G1/1800
BVH (80°-90°)	16.8	0.1			G1/100
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°	1402.1	1402.1	1402.1	1402.1	1402.1	1402.1	1402.1	1402.1	1402.1	1402.1	1402.1
2.5°	1400.4	1400.4	1403.7	1406.2	1404.5	1411.1	1410.3	1408.6	1407.8	1405.3	1412.8
5°	1419.4	1419.4	1421.8	1424.3	1420.2	1428.4	1425.1	1423.5	1422.7	1419.4	1426.0
7.5°	1440.8	1443.3	1444.1	1448.2	1445.7	1454.8	1452.3	1449.0	1447.4	1443.3	1449.0
10°	1464.7	1466.3	1467.2	1474.6	1475.4	1486.1	1483.7	1479.5	1476.2	1472.1	1480.4
12.5°	1496.8	1497.7	1500.1	1509.2	1511.7	1519.9	1519.1	1513.3	1509.2	1503.4	1512.5
15°	1538.1	1538.9	1543.0	1552.1	1556.2	1566.1	1562.8	1553.7	1547.9	1541.3	1548.8
17.5°	1580.9	1584.2	1588.3	1597.4	1603.2	1614.7	1610.6	1600.7	1595.7	1589.2	1594.1
20°	1636.1	1637.0	1639.4	1649.3	1653.4	1666.6	1667.5	1657.6	1655.1	1648.5	1655.9
22.5°	1697.1	1698.0	1700.4	1711.1	1718.6	1726.8	1731.8	1726.0	1721.9	1713.6	1722.7
25°	1764.7	1773.0	1775.4	1788.6	1796.9	1801.8	1807.6	1805.1	1799.3	1789.4	1793.6
27.5°	1859.5	1861.2	1865.3	1880.1	1885.1	1890.0	1895.8	1896.6	1888.4	1876.8	1882.6
30°	1967.5	1966.7	1975.7	1987.3	1991.4	1995.5	2003.8	2008.7	1998.0	1985.6	1991.4
32.5°	2077.9	2087.8	2099.4	2110.1	2107.6	2109.3	2122.4	2131.5	2116.7	2094.4	2099.4
35°	2202.4	2209.0	2223.8	2239.5	2236.2	2233.7	2242.0	2251.0	2230.4	2201.6	2209.0
37.5°	2330.2	2340.0	2362.3	2381.3	2376.3	2364.8	2373.8	2383.7	2364.0	2331.0	2327.7
40°	2472.8	2488.4	2520.6	2536.2	2523.0	2500.8	2516.4	2540.3	2520.6	2482.6	2473.6
42.5°	2640.1	2659.0	2691.2	2715.1	2686.2	2650.0	2676.3	2711.0	2706.0	2655.7	2640.1
45°	2847.0	2859.3	2898.9	2910.4	2867.6	2817.3	2865.1	2917.8	2905.5	2851.1	2830.5
47.5°	3072.0	3090.9	3125.6	3147.0	3077.8	3015.1	3081.9	3152.8	3139.6	3088.5	3064.6
50°	3358.8	3383.5	3428.9	3447.0	3351.4	3279.7	3365.4	3455.3	3429.7	3361.3	3330.0
52.5°	3671.2	3691.0	3768.5	3804.7	3714.9	3637.4	3712.4	3800.6	3746.2	3655.6	3613.5
55°	3946.5	3966.3	4080.0	4200.4	4196.3	4142.7	4180.6	4182.2	4034.7	3884.7	3840.2
57.5°	4005.9	4025.6	4242.4	4557.3	4779.8	4841.6	4730.4	4496.3	4124.5	3861.6	3811.3
60°	3689.3	3711.6	4056.1	4631.5	5363.4	5776.3	5263.7	4489.7	3846.8	3490.7	3442.9
62.5°	2858.5	2882.4	3345.6	4209.4	5599.1	6711.9	5418.6	4017.4	3164.3	2713.4	2671.4
65°	1365.0	1365.0	1953.5	3019.2	5129.3	6689.6	4970.2	2972.2	1904.8	1463.0	1426.8
67.5°	337.9	339.6	502.8	1175.4	3489.1	5338.7	3545.9	1426.8	670.9	474.8	462.4
70°	211.0	210.2	233.3	318.2	1220.7	3240.1	1449.9	430.3	272.8	240.7	239.0
72.5°	164.0	164.0	175.6	203.6	319.8	1103.7	422.8	239.0	197.8	178.0	178.0
75°	129.4	129.4	137.6	152.5	188.8	284.4	225.0	177.2	153.3	140.1	138.5
77.5°	96.4	98.1	104.7	114.6	128.6	159.9	142.6	133.5	119.5	109.6	106.3
80°	62.6	65.1	73.4	79.1	84.1	105.5	93.1	97.3	90.7	79.1	77.5
82.5°	33.8	34.6	44.5	46.2	47.8	57.7	59.3	61.8	64.3	50.3	47.0
85°	12.4	12.4	14.8	17.3	19.0	20.6	28.0	34.6	36.3	28.8	28.0
87.5°	2.5	2.5	2.5	1.6	1.6	1.6	4.9	9.1	14.8	11.5	11.5
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)