

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: P637465

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-830-U-5MQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15969.2 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

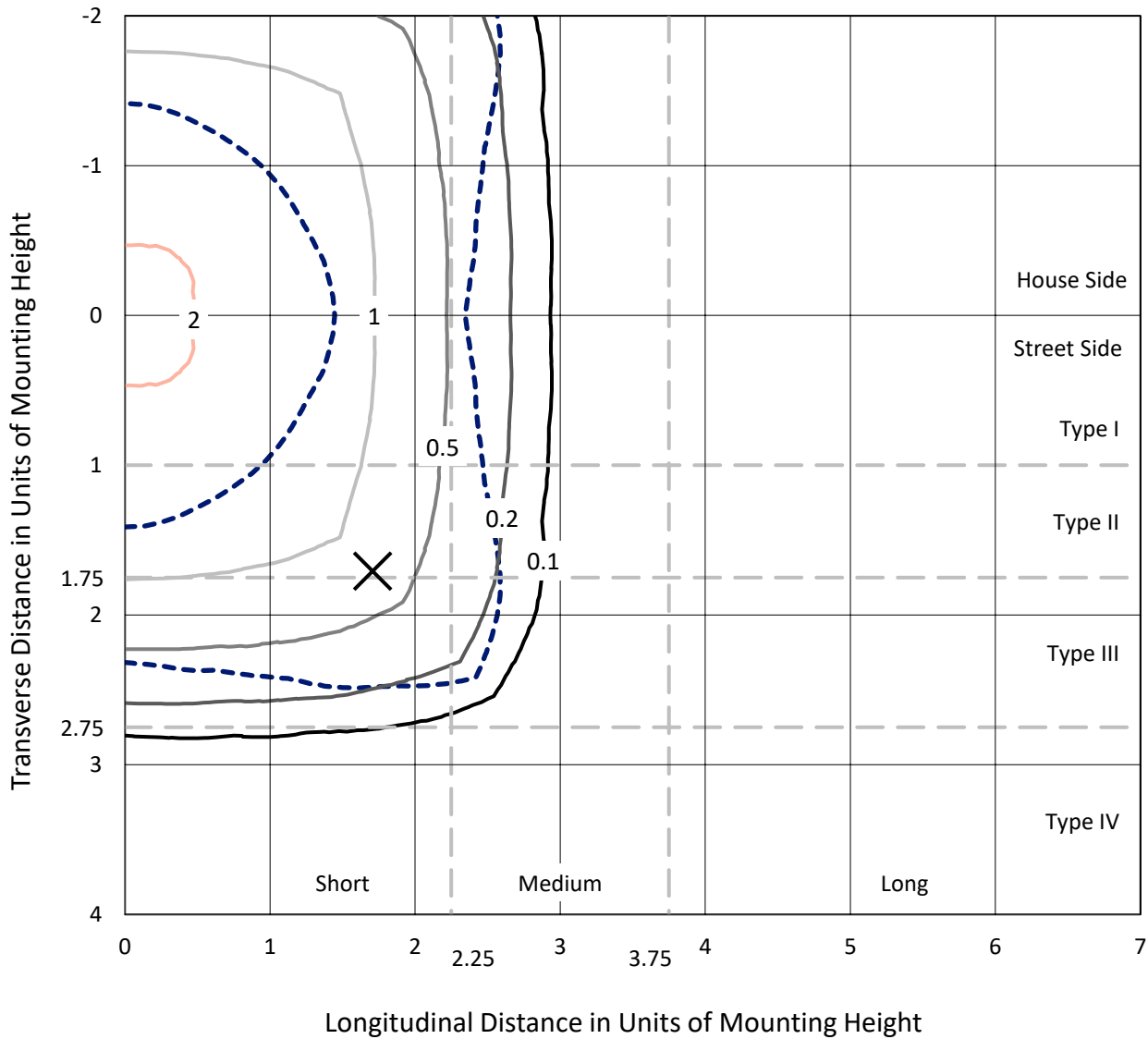
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

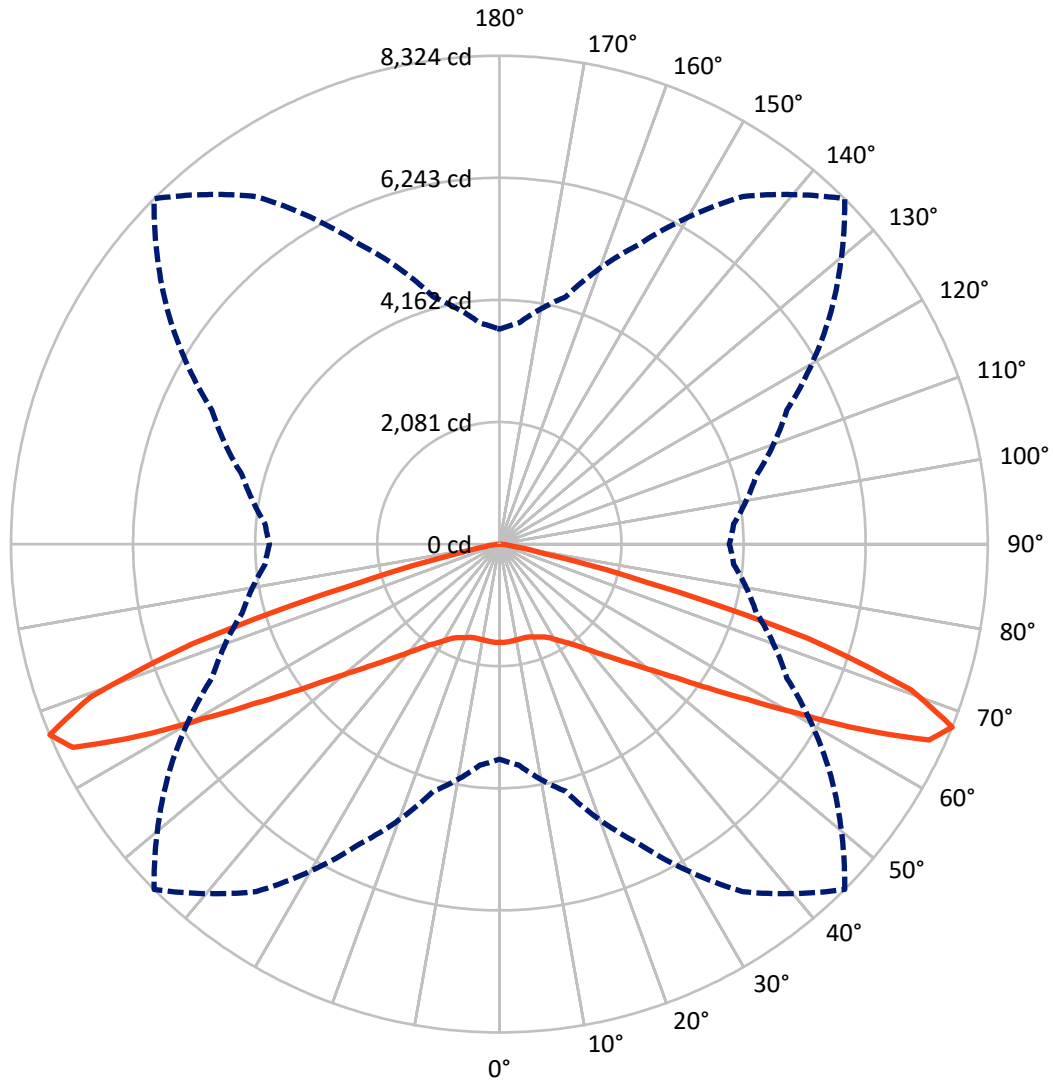
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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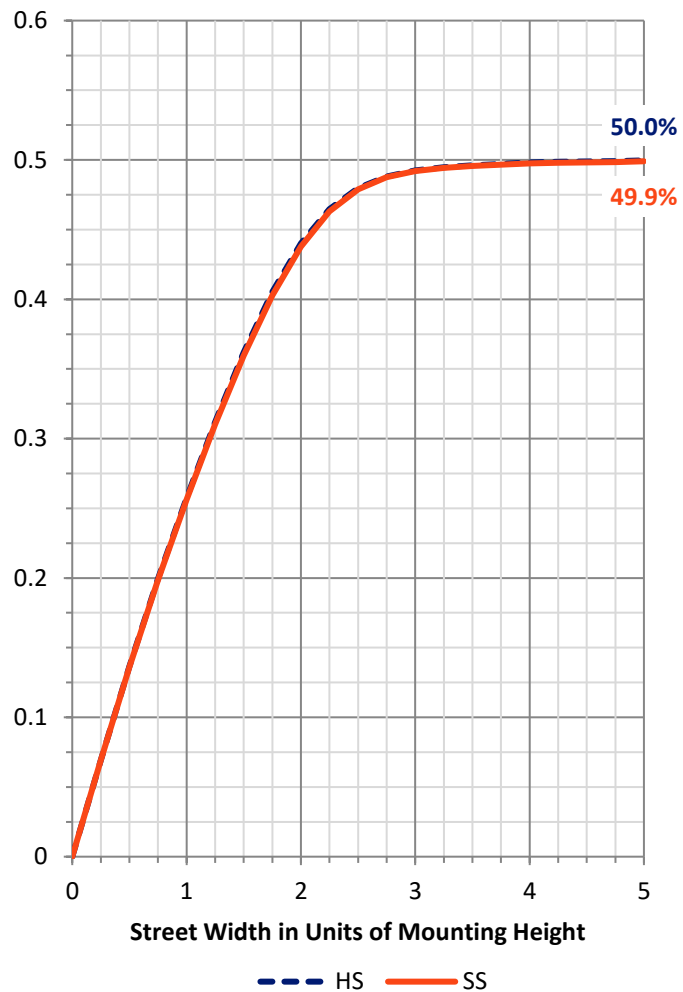
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7984.6	0.0	7984.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7984.6	0.0	7984.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	15969.2	0.0	15969.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.3	1.0
10°-20°	464.9	2.9
20°-30°	801.9	5.0
30°-40°	1303.9	8.2
40°-50°	2195.5	13.7
50°-60°	3889.9	24.4
60°-70°	5560.4	34.8
70°-80°	1526.1	9.6
80°-90°	68.4	0.4
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°	15969.2	100.0
0°-180°	15969.2	100.0

Coefficient of Utilization



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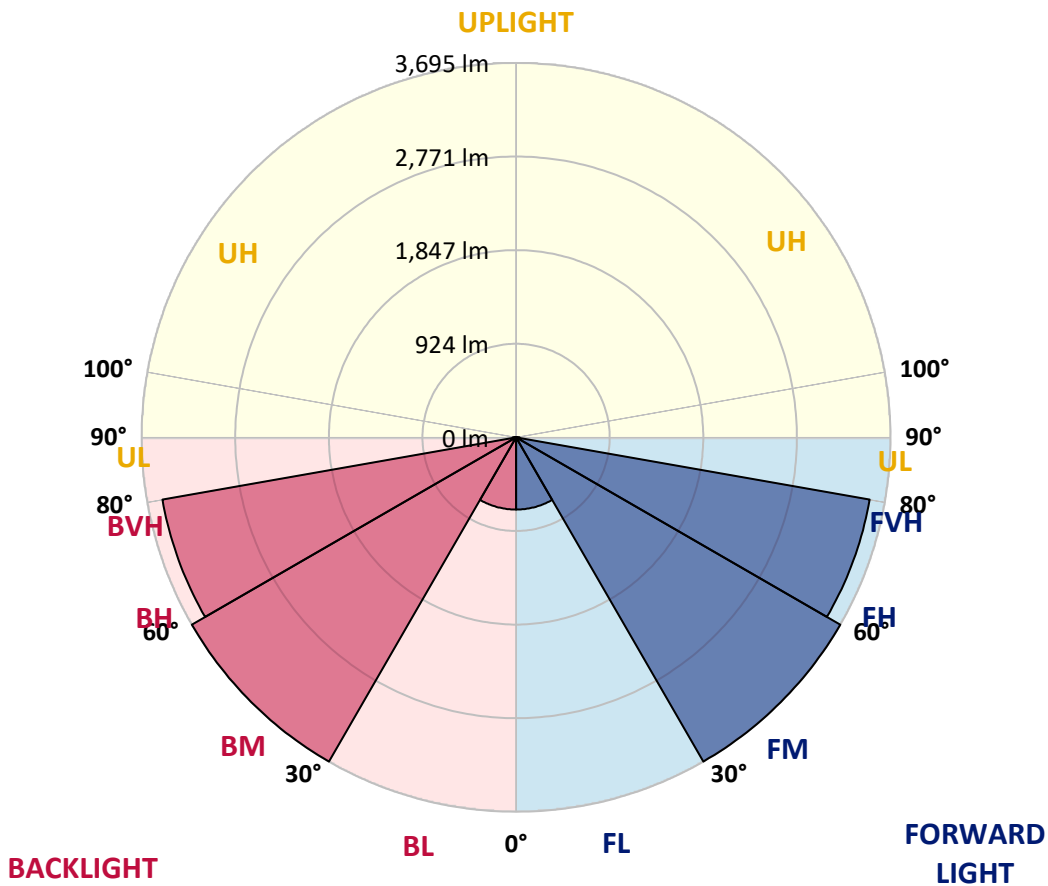
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	712.5	4.5			
FM (30°-60°)	3694.6	23.1			
FH (60°-80°)	3543.2	22.2			G2/5000
FVH (80°-90°)	34.2	0.2			G1/100
BL (0°-30°)	712.5	4.5	B2/1000		
BM (30°-60°)	3694.6	23.1	B3/5000		
BH (60°-80°)	3543.2	22.2	B4/5000		G2/5000
BVH (80°-90°)	34.2	0.2			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°	1672.5	1672.5	1672.5	1672.5	1672.5	1672.5	1672.5	1672.5	1672.5	1672.5	1672.5
2.5°	1661.4	1660.3	1665.9	1669.2	1668.1	1675.8	1674.7	1672.5	1672.5	1669.2	1678.0
5°	1661.4	1660.3	1664.8	1665.9	1663.6	1670.3	1668.1	1665.9	1665.9	1661.4	1669.2
7.5°	1652.6	1653.7	1657.0	1659.2	1657.0	1662.5	1659.2	1654.8	1653.7	1649.3	1657.0
10°	1636.0	1637.1	1640.4	1646.0	1647.1	1657.0	1651.5	1643.8	1640.4	1636.0	1643.8
12.5°	1626.1	1627.2	1630.5	1637.1	1639.3	1652.6	1647.1	1634.9	1629.4	1625.0	1632.7
15°	1623.9	1625.0	1629.4	1636.0	1639.3	1652.6	1647.1	1632.7	1625.0	1619.4	1626.1
17.5°	1623.9	1626.1	1632.7	1642.6	1649.3	1662.5	1655.9	1639.3	1628.3	1618.3	1625.0
20°	1625.0	1628.3	1638.2	1652.6	1669.2	1688.0	1679.1	1657.0	1641.5	1629.4	1633.8
22.5°	1634.9	1640.4	1652.6	1671.4	1695.7	1717.8	1710.1	1680.2	1658.1	1641.5	1646.0
25°	1669.2	1671.4	1686.9	1711.2	1734.4	1753.2	1745.4	1717.8	1690.2	1670.3	1675.8
27.5°	1730.0	1735.5	1748.8	1774.2	1794.1	1804.0	1802.9	1784.1	1756.5	1738.8	1743.2
30°	1802.9	1808.5	1826.1	1854.9	1874.8	1885.8	1882.5	1868.2	1842.7	1818.4	1822.8
32.5°	1888.0	1890.3	1911.3	1943.3	1964.3	1980.9	1969.8	1954.4	1922.3	1893.6	1895.8
35°	1996.4	1999.7	2021.8	2051.6	2068.2	2081.5	2079.3	2063.8	2029.5	1998.6	2006.3
37.5°	2132.3	2134.6	2154.5	2192.0	2205.3	2215.3	2217.5	2209.7	2174.4	2134.6	2142.3
40°	2301.5	2302.6	2324.7	2357.8	2372.2	2378.9	2380.0	2381.1	2344.6	2314.7	2312.5
42.5°	2498.2	2503.8	2534.7	2566.8	2573.4	2570.1	2581.1	2592.2	2556.8	2515.9	2519.2
45°	2733.7	2737.0	2779.0	2814.4	2802.2	2791.2	2812.2	2834.3	2802.2	2749.2	2733.7
47.5°	3012.3	3018.9	3064.2	3099.6	3079.7	3059.8	3094.1	3117.3	3065.3	3008.9	2994.6
50°	3327.3	3331.7	3395.8	3440.1	3416.8	3380.4	3423.5	3447.8	3378.1	3308.5	3277.6
52.5°	3699.8	3691.0	3776.1	3853.5	3839.1	3791.6	3826.9	3831.4	3727.5	3629.1	3598.1
55°	4154.1	4145.3	4230.4	4315.5	4350.9	4338.8	4322.2	4295.6	4142.0	4037.0	4008.2
57.5°	4683.6	4656.0	4775.4	4890.4	4967.7	4989.8	4919.1	4857.2	4735.6	4606.3	4573.1
60°	5175.6	5174.4	5363.5	5562.4	5774.7	5863.1	5684.0	5516.0	5243.0	5007.5	4960.0
62.5°	5313.7	5336.9	5646.5	6139.5	6663.4	6976.3	6504.3	5948.2	5421.0	5066.1	5003.1
65°	4973.3	5030.7	5470.7	6248.9	7283.6	8048.5	6982.9	5958.2	5223.1	4780.9	4714.6
67.5°	3665.6	3780.5	4363.1	5638.7	7230.5	8323.8	6897.8	5406.6	4536.6	4010.4	3918.7
70°	1808.5	1917.9	2380.0	3709.8	5949.3	7440.5	5968.1	4074.6	3064.2	2557.9	2473.9
72.5°	665.5	709.7	891.0	1587.4	3283.1	5496.1	4081.2	2276.0	1484.6	1181.7	1125.3
75°	326.1	333.8	361.5	532.8	1211.5	2586.7	1917.9	873.3	546.1	475.3	459.9
77.5°	207.8	211.1	224.4	254.2	389.1	814.7	581.4	344.9	267.5	256.5	256.5
80°	116.1	119.4	137.1	158.1	182.4	279.7	208.9	206.7	175.8	153.7	150.3
82.5°	55.3	60.8	87.3	86.2	96.2	140.4	122.7	111.6	112.8	85.1	80.7
85°	25.4	25.4	34.3	40.9	43.1	47.5	56.4	64.1	63.0	43.1	46.4
87.5°	12.2	12.2	12.2	11.1	9.9	8.8	12.2	19.9	28.7	19.9	18.8
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)