

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: P638019

Luminaire Tested: GWS-SA4E-722-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638019
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-SA4E-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11862.7 lumens
Efficiency: N/A
Efficacy: 58.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

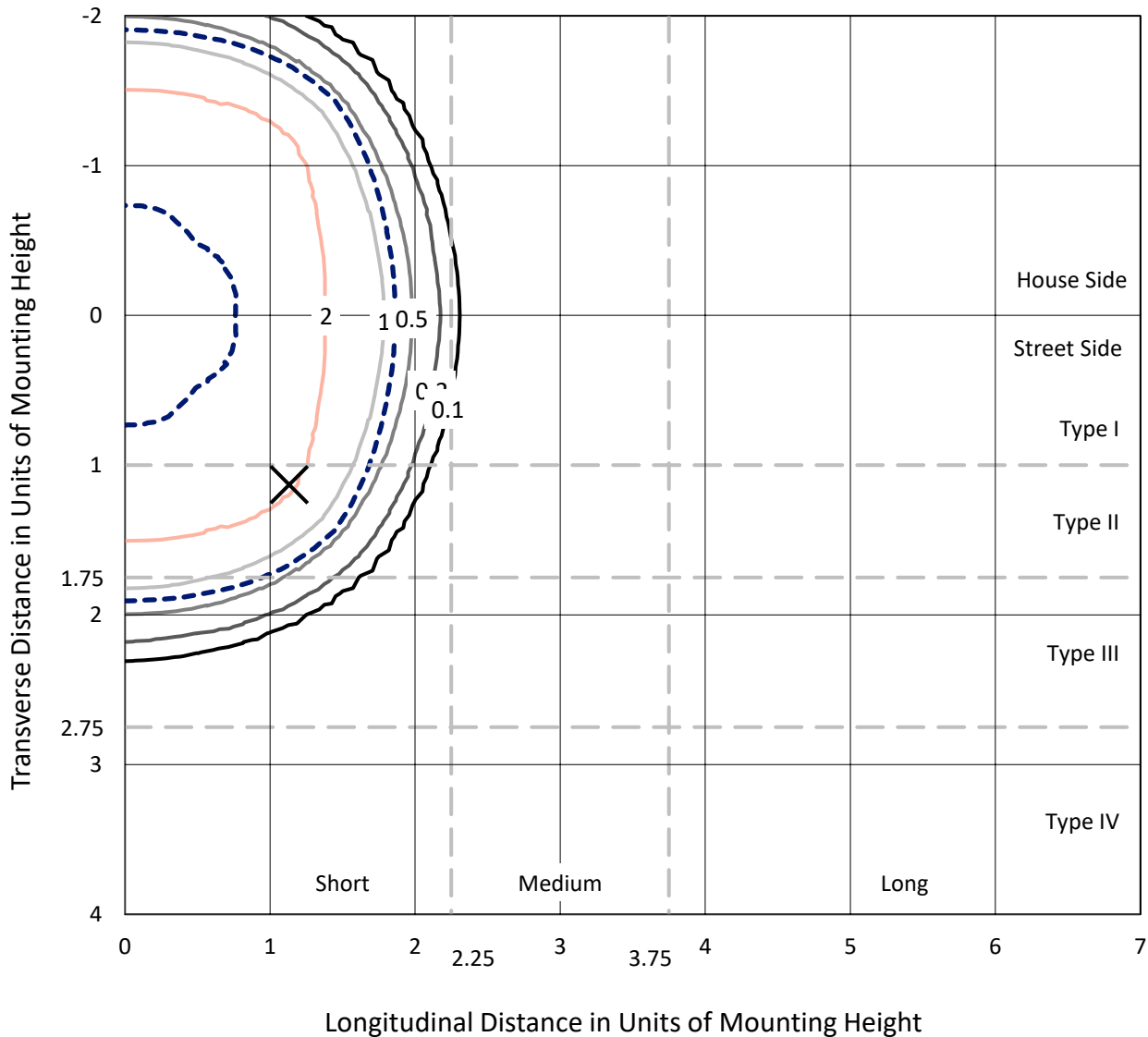
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

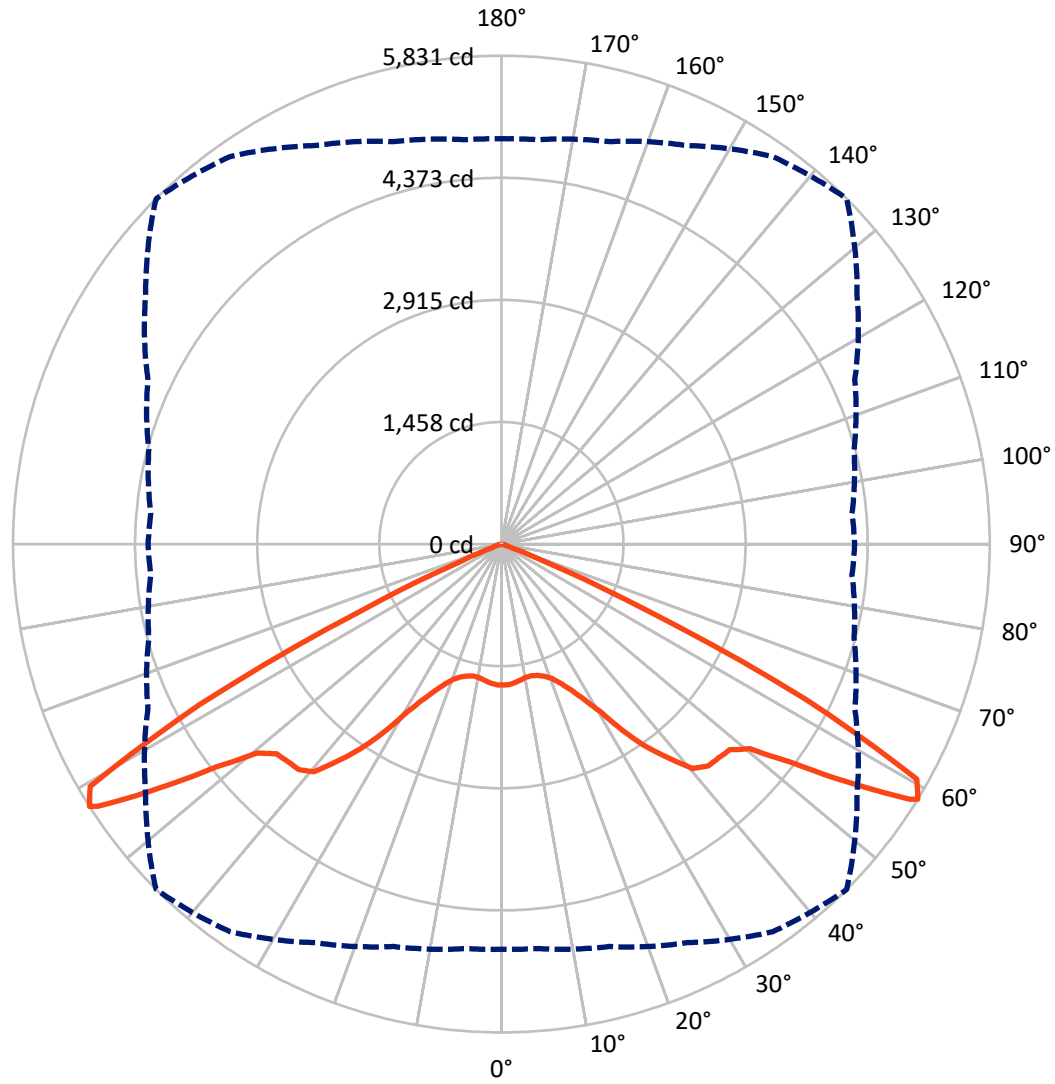
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 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	5931.3	0.0	5931.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5931.3	0.0	5931.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	11862.7	0.0	11862.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.0	1.3
10°-20°	464.4	3.9
20°-30°	878.4	7.4
30°-40°	1732.3	14.6
40°-50°	2741.4	23.1
50°-60°	4029.7	34.0
60°-70°	1798.7	15.2
70°-80°	60.3	0.5
80°-90°	0.5	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°	11862.7	100.0
0°-180°	11862.7	100.0

Coefficient of Utilization



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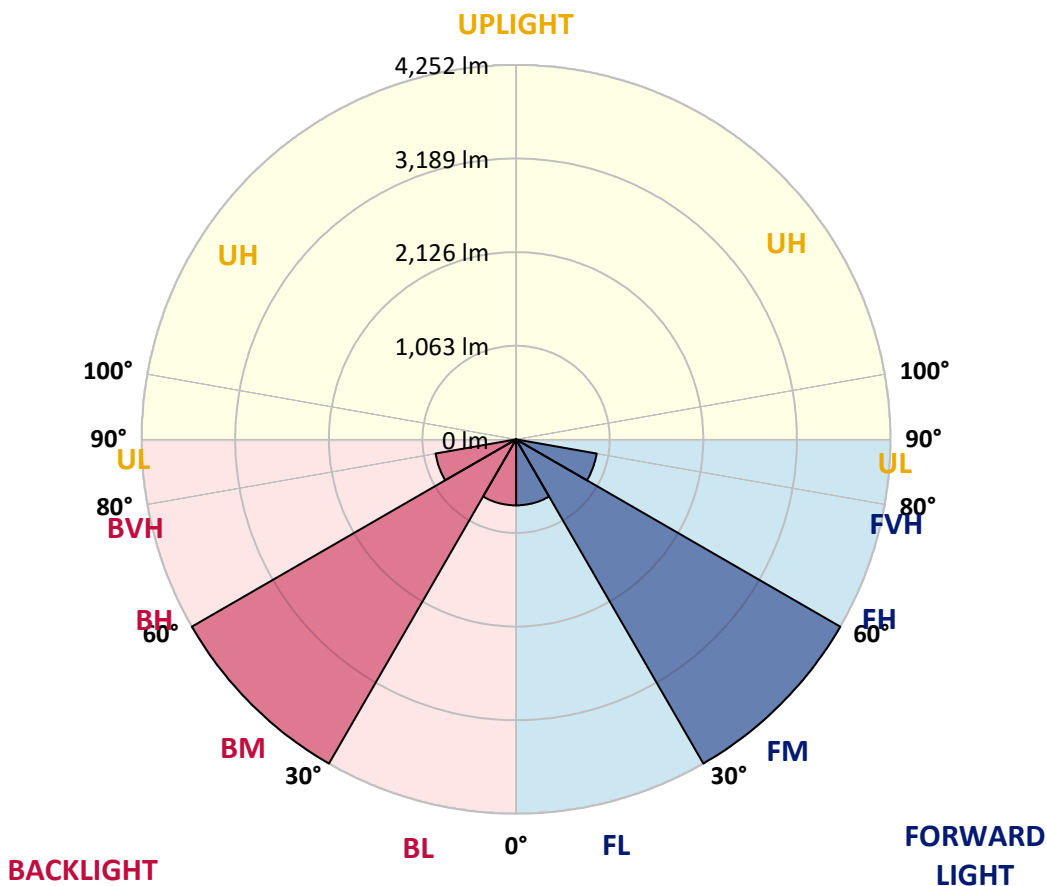
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	749.9	6.3			
FM (30°-60°)	4251.7	35.8			
FH (60°-80°)	929.5	7.8			G1/1800
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	749.9	6.3	B2/1000		
BM (30°-60°)	4251.7	35.8	B3/5000		
BH (60°-80°)	929.5	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°	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3
2.5°	1666.1	1669.4	1672.6	1674.2	1675.8	1680.7	1682.3	1677.4	1677.4	1667.7	1679.1
5°	1658.0	1661.3	1664.5	1662.9	1662.9	1662.9	1661.3	1654.8	1653.2	1643.5	1654.8
7.5°	1643.5	1646.7	1646.7	1641.9	1638.7	1638.7	1637.0	1629.0	1627.3	1617.6	1629.0
10°	1632.2	1633.8	1632.2	1622.5	1616.0	1616.0	1614.4	1611.2	1612.8	1606.3	1616.0
12.5°	1638.7	1640.3	1633.8	1620.9	1612.8	1611.2	1606.3	1601.5	1606.3	1604.7	1614.4
15°	1659.7	1661.3	1650.0	1633.8	1627.3	1627.3	1614.4	1601.5	1608.0	1609.6	1620.9
17.5°	1685.5	1685.5	1671.0	1656.4	1658.0	1658.0	1637.0	1614.4	1616.0	1622.5	1633.8
20°	1716.2	1716.2	1701.7	1698.4	1709.8	1711.4	1685.5	1650.0	1641.9	1646.7	1659.7
22.5°	1771.2	1771.2	1759.9	1767.9	1793.8	1801.9	1763.1	1713.0	1693.6	1696.8	1709.8
25°	1856.8	1856.8	1853.6	1873.0	1910.1	1927.9	1876.2	1810.0	1777.6	1772.8	1787.3
27.5°	2000.6	2002.3	1997.4	2026.5	2073.4	2094.4	2023.3	1936.0	1897.2	1889.1	1903.7
30°	2186.5	2186.5	2188.1	2228.5	2289.9	2317.4	2223.7	2121.8	2076.6	2050.7	2070.1
32.5°	2393.3	2396.6	2412.7	2480.6	2588.9	2645.4	2508.1	2365.9	2293.1	2265.7	2286.7
35°	2734.3	2703.6	2684.2	2734.3	2891.1	2965.4	2789.3	2622.8	2567.9	2564.6	2618.0
37.5°	3072.1	3054.3	3013.9	3065.6	3206.2	3240.1	3046.2	2907.2	2868.5	2889.5	2942.8
40°	3340.3	3308.0	3254.7	3303.2	3487.4	3521.3	3282.2	3144.8	3130.3	3177.1	3249.8
42.5°	3552.0	3506.8	3435.7	3447.0	3595.7	3619.9	3408.2	3304.8	3314.5	3372.7	3455.1
45°	3647.4	3611.8	3548.8	3544.0	3637.7	3639.3	3472.9	3419.5	3445.4	3490.6	3555.3
47.5°	3687.8	3671.6	3636.1	3628.0	3681.3	3668.4	3565.0	3542.3	3566.6	3579.5	3616.7
50°	3788.0	3788.0	3792.8	3799.3	3854.2	3841.3	3768.6	3742.7	3712.0	3666.8	3678.1
52.5°	4069.2	4080.5	4127.3	4179.1	4279.3	4321.3	4203.3	4053.0	3905.9	3807.4	3807.4
55°	4576.6	4587.9	4642.9	4730.1	4914.4	5014.5	4739.8	4408.5	4206.5	4072.4	4090.2
57.5°	4856.2	4869.1	4982.2	5218.2	5575.3	5745.0	5155.1	4663.9	4381.1	4227.5	4240.5
58°	4838.4	4846.5	4974.1	5250.5	5648.0	5830.6	5184.2	4655.8	4358.4	4201.7	4217.8
60°	4298.6	4287.3	4491.0	4885.3	5446.0	5698.1	4895.0	4250.2	3904.3	3744.3	3752.4
62.5°	2810.3	2816.7	2992.9	3405.0	3841.3	4078.9	3419.5	2939.6	2661.6	2564.6	2540.4
65°	1173.2	1152.2	1260.5	1490.0	1751.8	1884.3	1619.3	1370.4	1199.1	1134.5	1152.2
67.5°	302.2	294.1	300.6	376.5	460.6	544.6	457.3	349.1	303.8	307.0	307.0
70°	171.3	161.6	130.9	121.2	118.0	118.0	118.0	118.0	135.7	160.0	164.8
72.5°	129.3	121.2	95.3	82.4	72.7	67.9	71.1	82.4	98.6	119.6	122.8
75°	64.6	64.6	58.2	54.9	48.5	45.2	46.9	51.7	59.8	67.9	66.3
77.5°	12.9	14.5	16.2	19.4	16.2	16.2	16.2	19.4	19.4	21.0	19.4
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
82.5°	0.0	1.6	1.6	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
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)