

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: P638021

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-1)
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
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22852.8 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

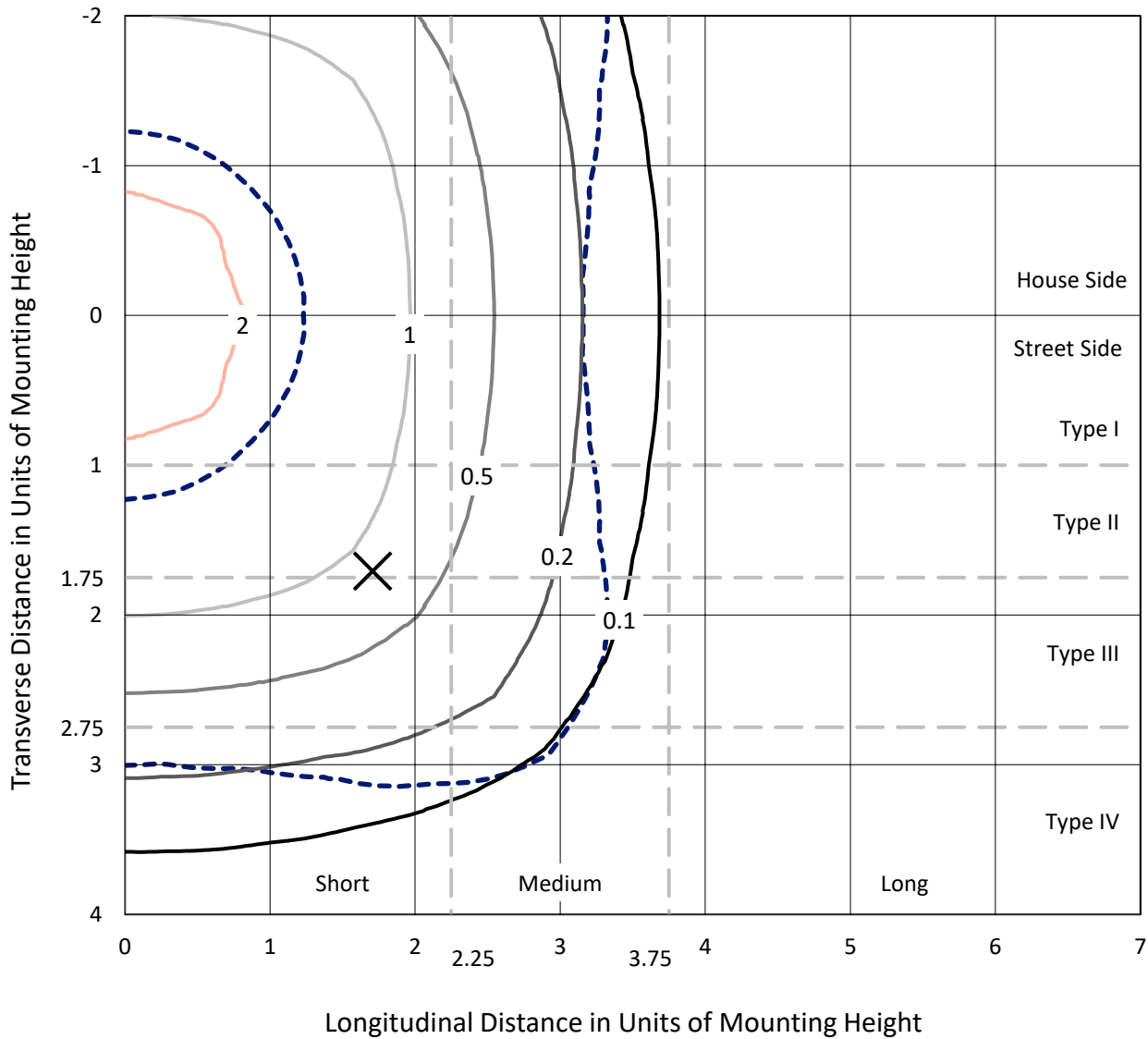
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

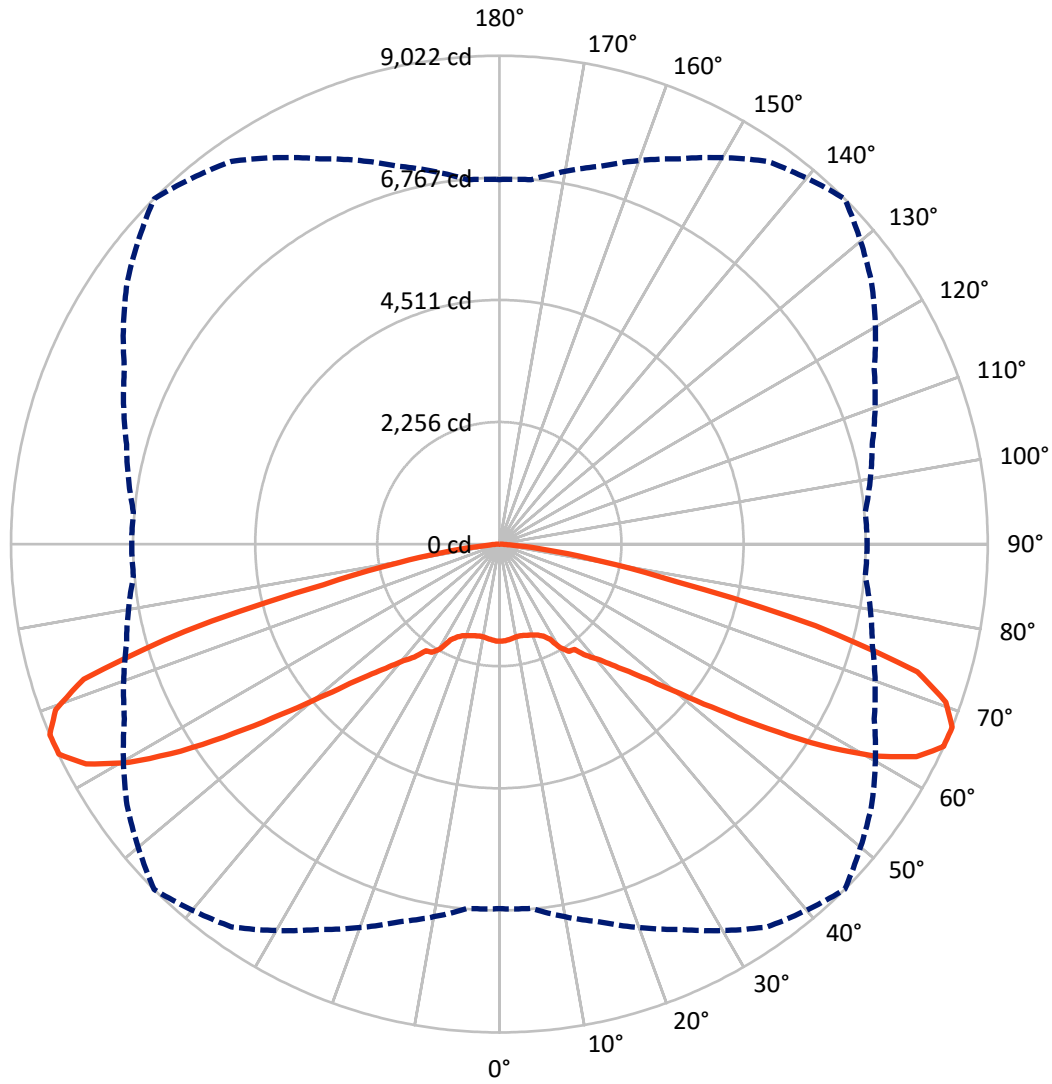
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	11426.4	0.0	11426.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11426.4	0.0	11426.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	22852.8	0.0	22852.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.3	0.7
10°-20°	499.3	2.2
20°-30°	895.8	3.9
30°-40°	1513.2	6.6
40°-50°	2658.7	11.6
50°-60°	5128.6	22.4
60°-70°	7441.0	32.6
70°-80°	4257.4	18.6
80°-90°	290.6	1.3
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°	22852.8	100.0
0°-180°	22852.8	100.0

Coefficient of Utilization



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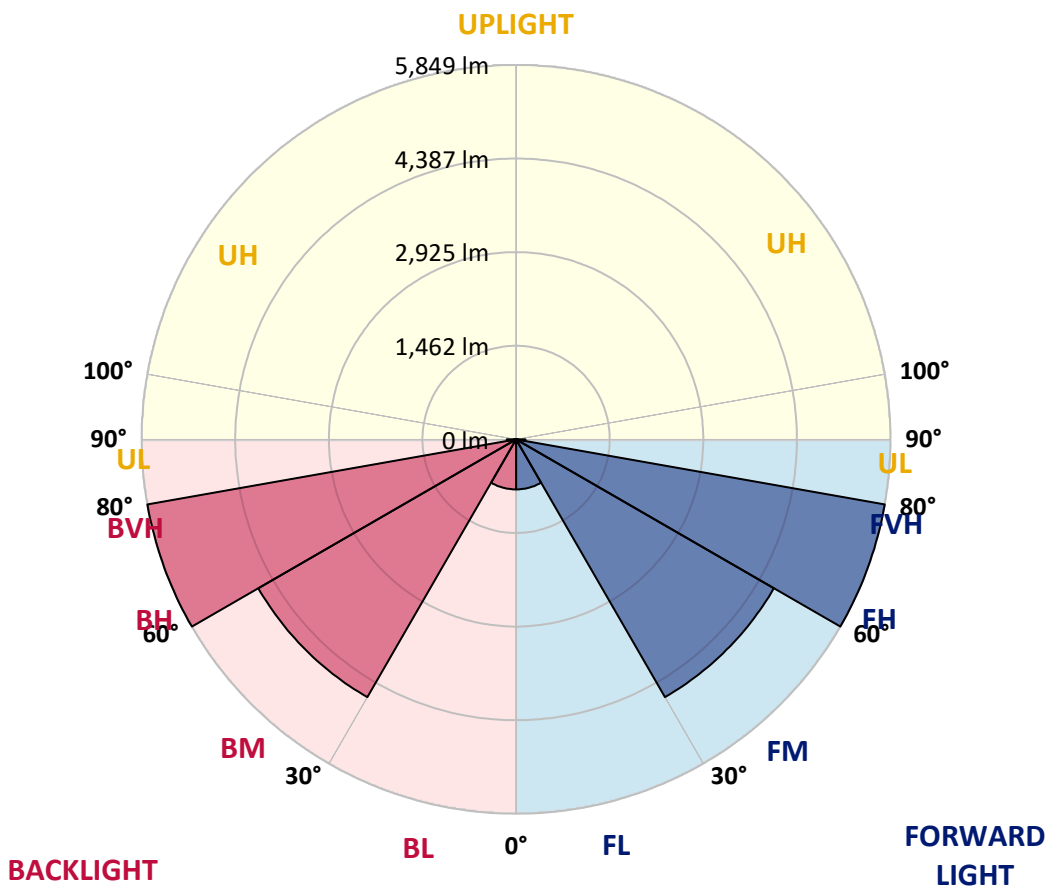
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	781.7	3.4			
FM (30°-60°)	4650.2	20.3			
FH (60°-80°)	5849.2	25.6			G3/7500
FVH (80°-90°)	145.3	0.6			G2/225
BL (0°-30°)	781.7	3.4	B2/1000		
BM (30°-60°)	4650.2	20.3	B3/5000		
BH (60°-80°)	5849.2	25.6	B5		G3/7500
BVH (80°-90°)	145.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1792.1	1792.1	1792.1	1792.1	1792.1	1792.1	1792.1	1792.1	1792.1	1792.1	1792.1
2.5°	1777.6	1779.2	1782.4	1782.4	1785.7	1790.5	1792.1	1788.9	1790.5	1782.4	1790.5
5°	1772.7	1774.4	1776.0	1772.7	1772.7	1774.4	1774.4	1771.1	1772.7	1764.7	1772.7
7.5°	1761.4	1763.0	1763.0	1758.2	1753.3	1756.6	1756.6	1753.3	1755.0	1746.9	1756.6
10°	1751.7	1751.7	1750.1	1740.4	1735.6	1740.4	1742.0	1743.6	1750.1	1743.6	1755.0
12.5°	1758.2	1758.2	1753.3	1740.4	1732.3	1735.6	1738.8	1742.0	1753.3	1751.7	1764.7
15°	1776.0	1777.6	1764.7	1750.1	1745.3	1750.1	1746.9	1745.3	1759.8	1764.7	1779.2
17.5°	1790.5	1790.5	1774.4	1759.8	1761.4	1769.5	1763.0	1755.0	1769.5	1779.2	1795.4
20°	1803.4	1801.8	1784.0	1774.4	1780.8	1792.1	1787.3	1776.0	1785.7	1797.0	1811.5
22.5°	1835.8	1834.1	1814.7	1809.9	1816.4	1827.7	1822.8	1813.1	1824.4	1840.6	1858.4
25°	1927.9	1924.6	1895.5	1879.4	1876.2	1884.2	1882.6	1879.4	1897.2	1916.6	1937.6
27.5°	2050.7	2049.1	2028.1	2011.9	1990.9	1984.4	1989.3	2003.8	2029.7	2044.2	2062.0
30°	2112.1	2112.1	2108.9	2134.7	2180.0	2223.6	2189.7	2134.7	2112.1	2105.6	2123.4
32.5°	2192.9	2201.0	2189.7	2218.7	2294.7	2359.3	2294.7	2205.8	2189.7	2189.7	2209.0
35°	2378.7	2382.0	2364.2	2359.3	2383.6	2391.7	2361.0	2328.6	2346.4	2349.6	2373.9
37.5°	2527.4	2527.4	2519.3	2532.2	2582.3	2613.0	2563.0	2504.8	2509.6	2512.9	2543.6
40°	2756.9	2763.3	2743.9	2742.3	2761.7	2789.2	2735.9	2698.7	2724.5	2732.6	2779.5
42.5°	3042.9	3042.9	3013.8	3005.7	3018.7	3047.7	2997.6	2973.4	3007.3	3013.8	3041.3
45°	3383.9	3391.9	3353.2	3338.6	3345.1	3354.8	3319.2	3307.9	3340.2	3354.8	3403.3
47.5°	3799.2	3807.3	3773.3	3771.7	3765.2	3771.7	3737.8	3731.3	3757.2	3745.9	3797.6
50°	4311.4	4326.0	4296.9	4337.3	4332.5	4351.8	4305.0	4271.0	4271.0	4240.3	4269.4
52.5°	4885.1	4914.2	4928.8	4996.6	5048.3	5096.8	5019.2	4965.9	4888.4	4825.3	4904.5
55°	5510.5	5502.4	5594.5	5743.2	5895.1	6009.8	5857.9	5689.9	5563.8	5432.9	5463.6
57.5°	6058.3	6085.8	6207.0	6478.5	6779.1	7021.4	6748.3	6425.2	6139.1	5951.7	5977.5
60°	6514.0	6536.7	6698.3	7089.3	7614.5	7949.0	7515.9	6982.7	6567.4	6308.8	6336.3
62.5°	6934.2	6955.2	7118.4	7549.9	8212.4	8648.7	8089.6	7360.8	6898.6	6638.5	6654.6
65°	7176.6	7189.5	7412.5	7866.6	8564.7	9015.6	8385.3	7633.9	7179.8	6914.8	6924.5
67.5°	6735.4	6756.4	7226.7	7853.7	8632.6	9022.0	8398.3	7642.0	7131.3	6785.5	6793.6
70°	5313.4	5295.6	5856.3	6934.2	8243.1	8750.6	8025.0	7068.3	6279.7	5796.5	5788.5
72.5°	4051.3	4056.1	4368.0	5106.5	6720.9	8075.1	7081.2	5691.5	4841.5	4474.7	4460.1
75°	2937.9	2983.1	3236.8	3778.2	4700.9	6035.7	5331.1	4217.7	3648.9	3429.1	3396.8
77.5°	1323.5	1381.7	1735.6	2372.3	3143.1	3335.4	3348.3	2863.5	2160.6	1795.4	1738.8
80°	386.2	413.7	531.7	909.8	1464.1	1892.3	1502.9	1263.7	787.0	617.3	588.2
82.5°	163.2	185.8	227.9	252.1	425.0	877.5	546.2	347.4	323.2	261.8	239.2
85°	69.5	74.3	95.3	101.8	137.4	187.5	172.9	156.8	150.3	116.4	106.7
87.5°	29.1	29.1	29.1	25.9	24.2	25.9	35.6	45.2	59.8	46.9	43.6
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)