

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: P638516

Luminaire Tested: GWS-SA4F-722-U-5WQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638516
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-SA4F-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: 25408.2 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

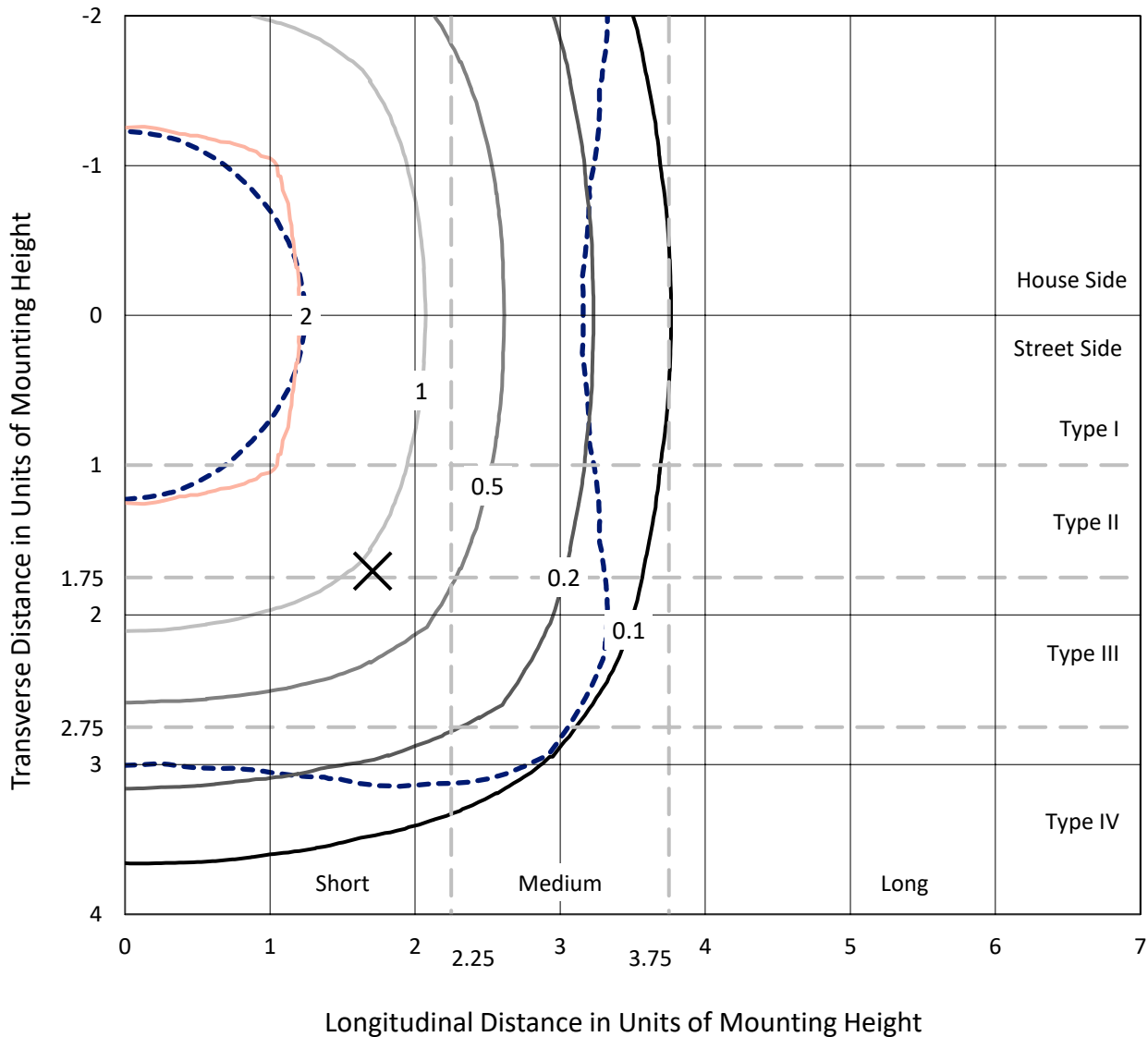
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

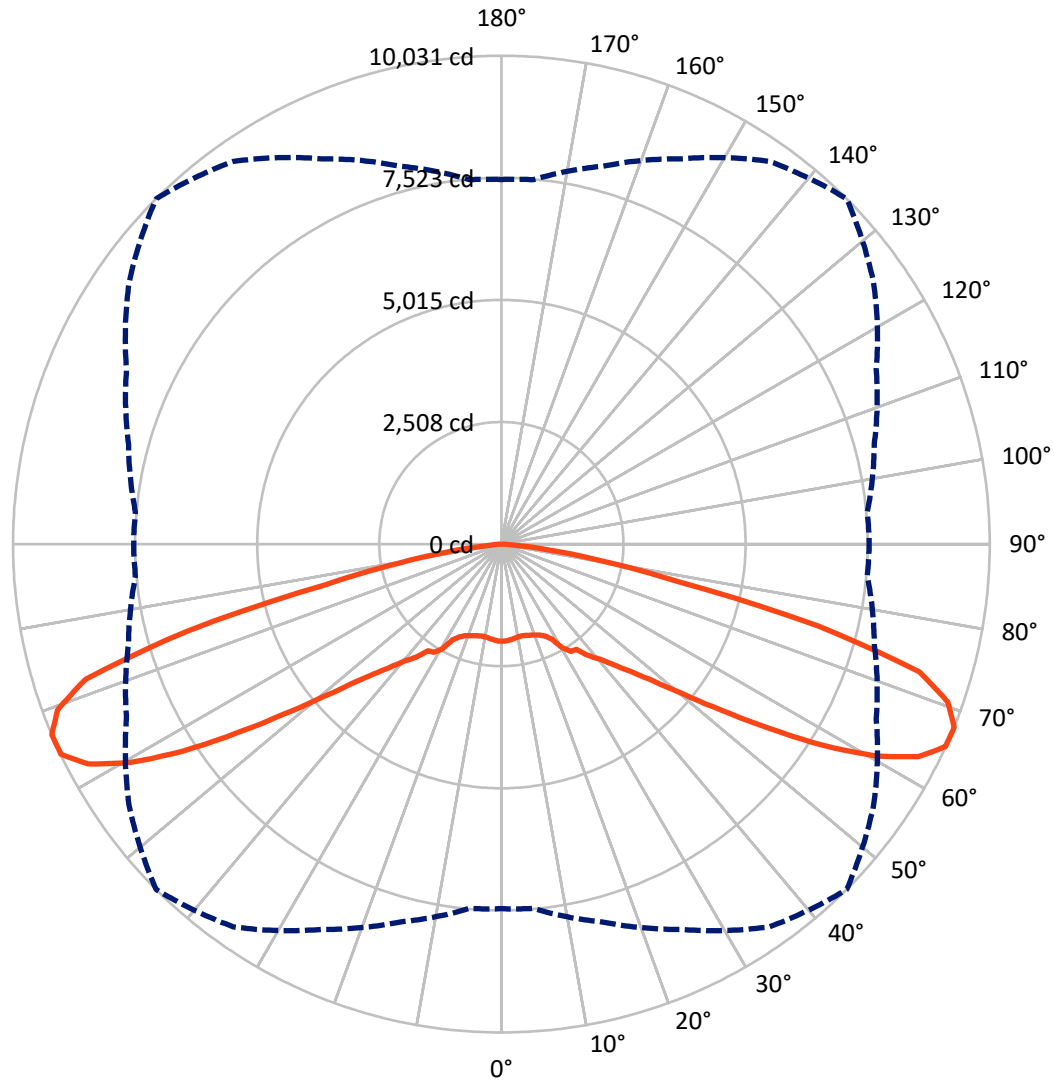
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	12704.1	0.0	12704.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12704.1	0.0	12704.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	25408.2	0.0	25408.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	0.7
10°-20°	555.2	2.2
20°-30°	995.9	3.9
30°-40°	1682.4	6.6
40°-50°	2955.9	11.6
50°-60°	5702.1	22.4
60°-70°	8273.0	32.6
70°-80°	4733.5	18.6
80°-90°	323.1	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°	25408.2	100.0
0°-180°	25408.2	100.0

Coefficient of Utilization



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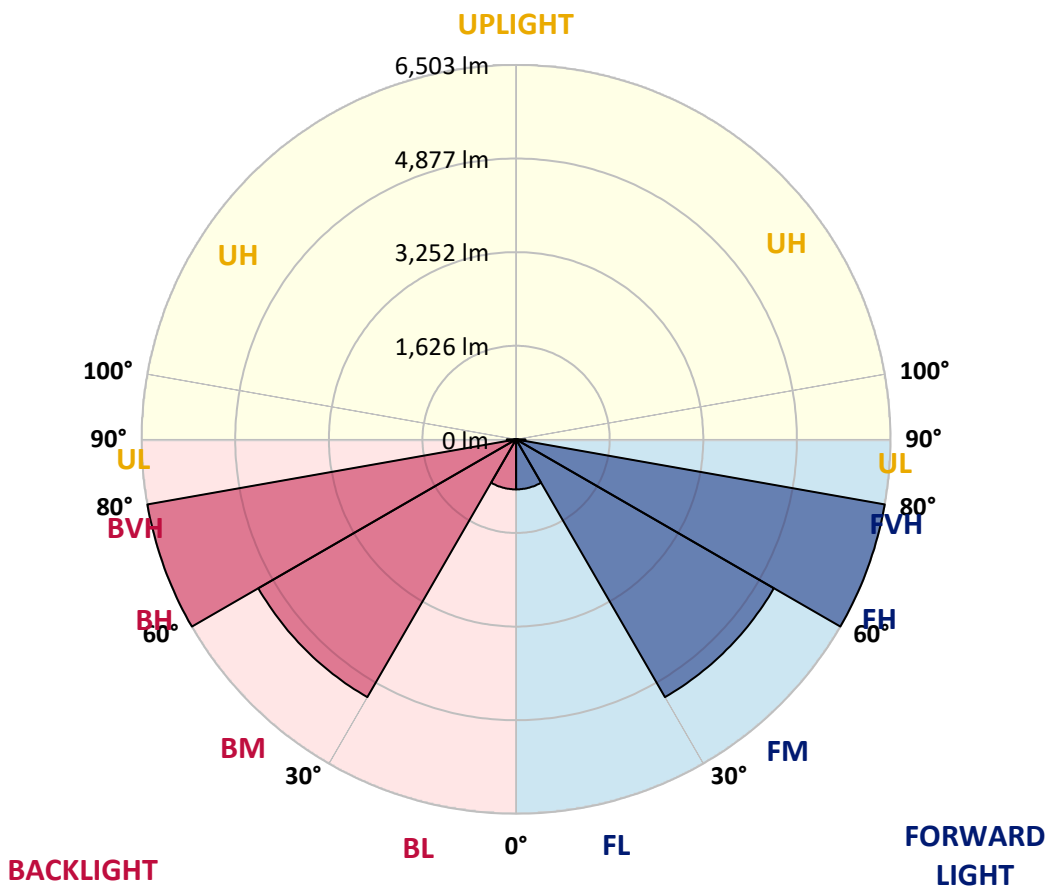
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	869.1	3.4			
FM (30°-60°)	5170.2	20.3			
FH (60°-80°)	6503.2	25.6			G3/7500
FVH (80°-90°)	161.5	0.6			G2/225
BL (0°-30°)	869.1	3.4	B2/1000		
BM (30°-60°)	5170.2	20.3	B4/8500		
BH (60°-80°)	6503.2	25.6	B5		G3/7500
BVH (80°-90°)	161.5	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°	1992.5	1992.5	1992.5	1992.5	1992.5	1992.5	1992.5	1992.5	1992.5	1992.5	1992.5
2.5°	1976.4	1978.1	1981.7	1981.7	1985.3	1990.7	1992.5	1988.9	1990.7	1981.7	1990.7
5°	1971.0	1972.8	1974.6	1971.0	1971.0	1972.8	1972.8	1969.2	1971.0	1962.0	1971.0
7.5°	1958.4	1960.2	1960.2	1954.8	1949.4	1953.0	1953.0	1949.4	1951.2	1942.2	1953.0
10°	1947.6	1947.6	1945.8	1935.0	1929.6	1935.0	1936.8	1938.6	1945.8	1938.6	1951.2
12.5°	1954.8	1954.8	1949.4	1935.0	1926.0	1929.6	1933.2	1936.8	1949.4	1947.6	1962.0
15°	1974.6	1976.4	1962.0	1945.8	1940.4	1945.8	1942.2	1940.4	1956.6	1962.0	1978.1
17.5°	1990.7	1990.7	1972.8	1956.6	1958.4	1967.4	1960.2	1951.2	1967.4	1978.1	1996.1
20°	2005.1	2003.3	1983.5	1972.8	1979.9	1992.5	1987.1	1974.6	1985.3	1997.9	2014.1
22.5°	2041.0	2039.2	2017.7	2012.3	2019.5	2032.0	2026.7	2015.9	2028.5	2046.4	2066.2
25°	2143.4	2139.8	2107.5	2089.5	2085.9	2094.9	2093.1	2089.5	2109.3	2130.9	2154.2
27.5°	2280.0	2278.2	2254.8	2236.9	2213.5	2206.3	2211.7	2227.9	2256.6	2272.8	2292.6
30°	2348.3	2348.3	2344.7	2373.4	2423.7	2472.2	2434.5	2373.4	2348.3	2341.1	2360.8
32.5°	2438.1	2447.1	2434.5	2466.8	2551.3	2623.2	2551.3	2452.5	2434.5	2434.5	2456.1
35°	2644.7	2648.3	2628.5	2623.2	2650.1	2659.1	2625.0	2589.0	2608.8	2612.4	2639.3
37.5°	2810.0	2810.0	2801.0	2815.4	2871.1	2905.2	2849.5	2784.9	2790.2	2793.8	2828.0
40°	3065.1	3072.3	3050.8	3049.0	3070.5	3101.1	3041.8	3000.5	3029.2	3038.2	3090.3
42.5°	3383.2	3383.2	3350.8	3341.8	3356.2	3388.5	3332.8	3305.9	3343.6	3350.8	3381.4
45°	3762.3	3771.2	3728.1	3711.9	3719.1	3729.9	3690.4	3677.8	3713.7	3729.9	3783.8
47.5°	4224.0	4233.0	4195.3	4193.5	4186.3	4193.5	4155.7	4148.5	4177.3	4164.7	4222.2
50°	4793.6	4809.7	4777.4	4822.3	4816.9	4838.5	4786.4	4748.6	4748.6	4714.5	4746.8
52.5°	5431.4	5463.7	5479.9	5555.3	5612.8	5666.7	5580.5	5521.2	5435.0	5364.9	5452.9
55°	6126.7	6117.7	6220.1	6385.4	6554.3	6681.9	6513.0	6326.1	6186.0	6040.4	6074.6
57.5°	6735.8	6766.3	6901.1	7202.9	7537.1	7806.6	7502.9	7143.6	6825.6	6617.2	6645.9
60°	7242.4	7267.6	7447.3	7882.0	8466.0	8837.9	8356.4	7763.5	7301.7	7014.3	7044.8
62.5°	7709.6	7732.9	7914.4	8394.1	9130.7	9615.8	8994.2	8183.9	7670.0	7380.8	7398.7
65°	7979.1	7993.4	8241.4	8746.3	9522.4	10023.7	9323.0	8487.5	7982.7	7688.0	7698.8
67.5°	7488.6	7511.9	8034.8	8731.9	9597.9	10030.9	9337.4	8496.5	7928.8	7544.3	7553.3
70°	5907.5	5887.7	6511.2	7709.6	9164.9	9729.0	8922.3	7858.7	6981.9	6444.7	6435.7
72.5°	4504.3	4509.7	4856.4	5677.5	7472.4	8978.0	7873.1	6327.9	5382.9	4975.0	4958.8
75°	3266.4	3316.7	3598.8	4200.6	5226.6	6710.6	5927.3	4689.3	4056.9	3812.6	3776.6
77.5°	1471.5	1536.2	1929.6	2637.5	3494.5	3708.4	3722.7	3183.7	2402.2	1996.1	1933.2
80°	429.4	460.0	591.1	1011.5	1627.8	2103.9	1670.9	1405.0	875.0	686.3	654.0
82.5°	181.5	206.6	253.3	280.3	472.5	975.6	607.3	386.3	359.3	291.1	265.9
85°	77.3	82.6	106.0	113.2	152.7	208.4	192.2	174.3	167.1	129.4	118.6
87.5°	32.3	32.3	32.3	28.7	27.0	28.7	39.5	50.3	66.5	52.1	48.5
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)