

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: P638791

Luminaire Tested: GWS-SA4F-750-U-5WQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638791
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-750-U-5WQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35284.5 lumens
Efficiency: N/A
Efficacy: 156.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

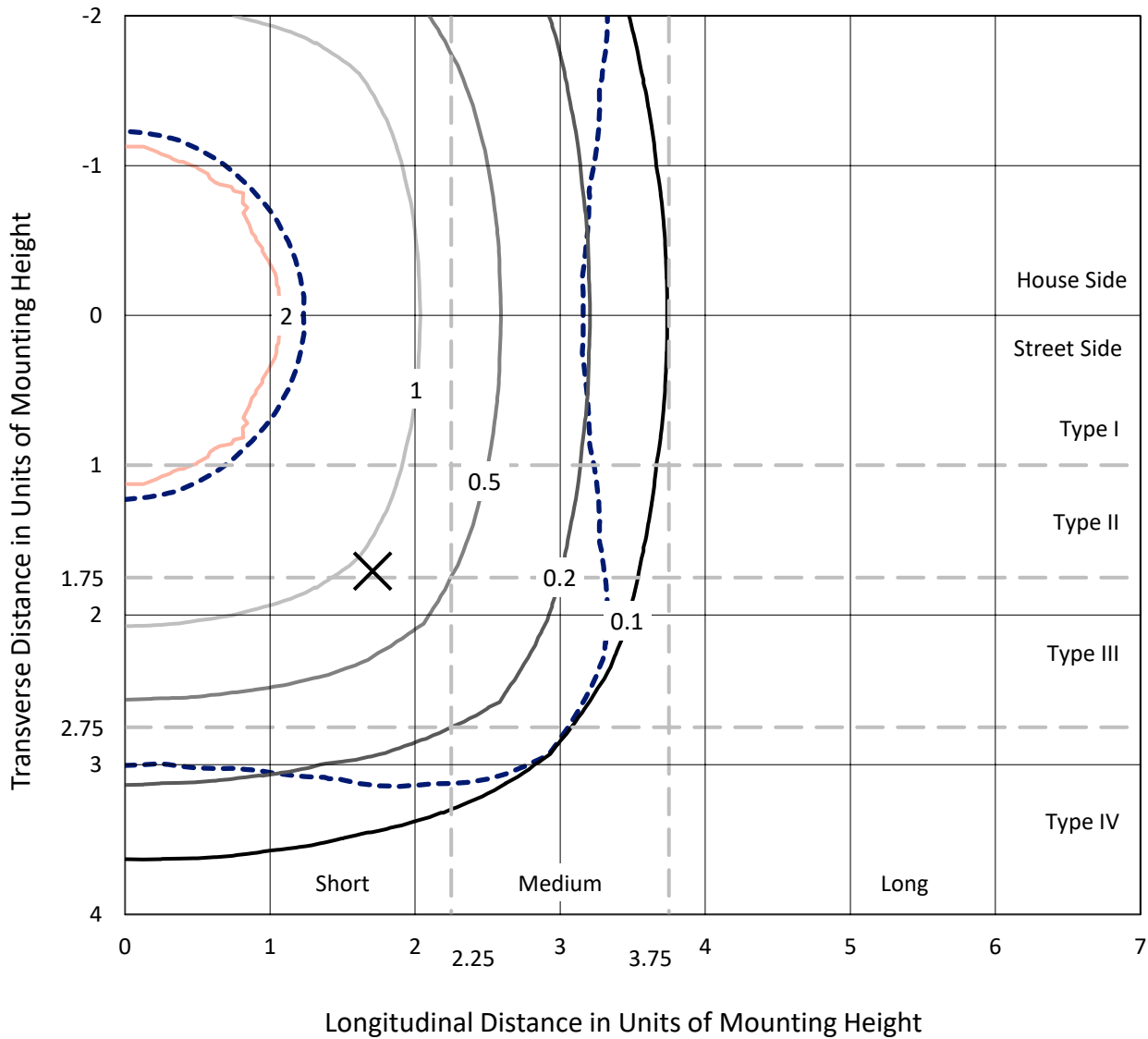
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

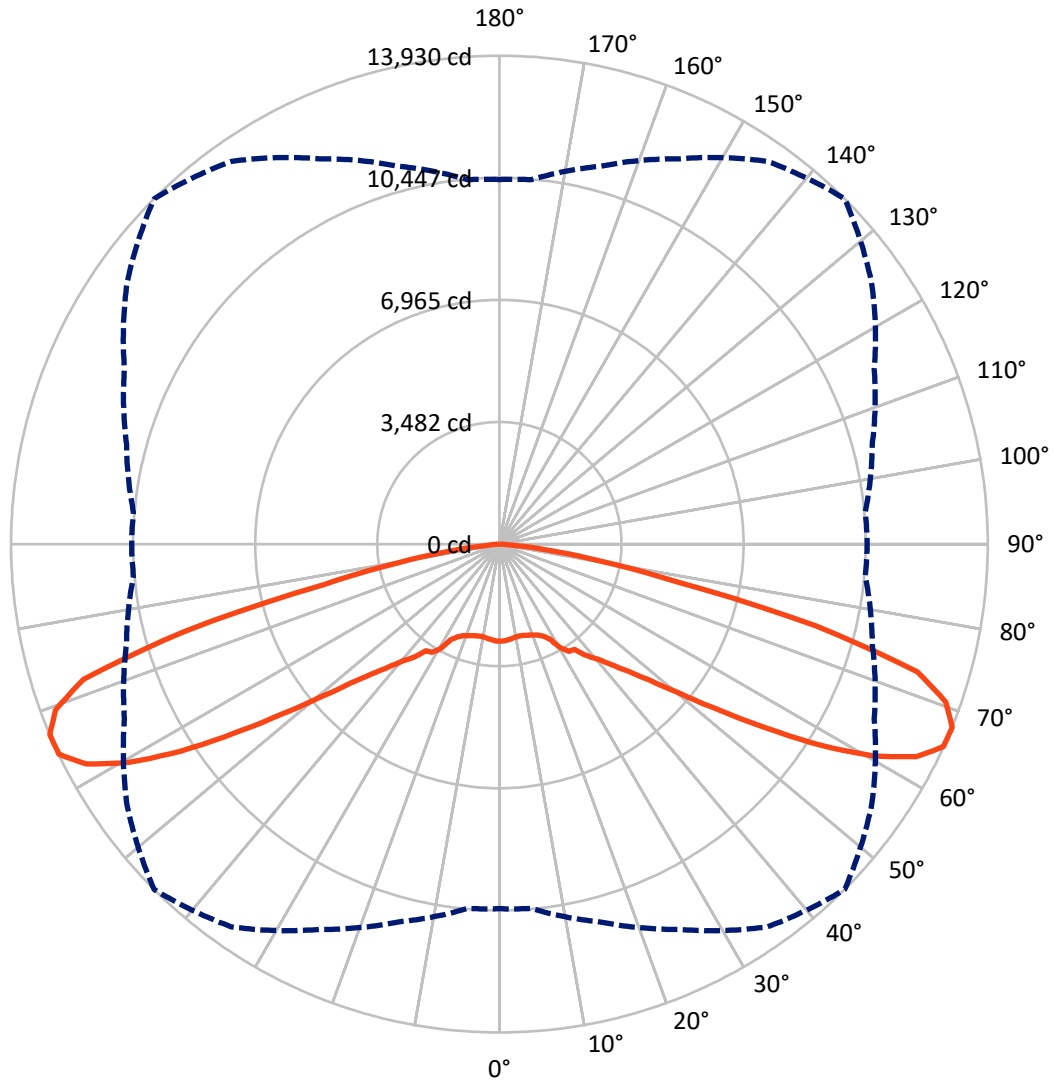
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.1 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	17642.2	0.0	17642.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17642.2	0.0	17642.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	35284.5	0.0	35284.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.8	0.7
10°-20°	771.0	2.2
20°-30°	1383.0	3.9
30°-40°	2336.3	6.6
40°-50°	4104.9	11.6
50°-60°	7918.6	22.4
60°-70°	11488.8	32.6
70°-80°	6573.4	18.6
80°-90°	448.6	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°	35284.5	100.0
0°-180°	35284.5	100.0

Coefficient of Utilization



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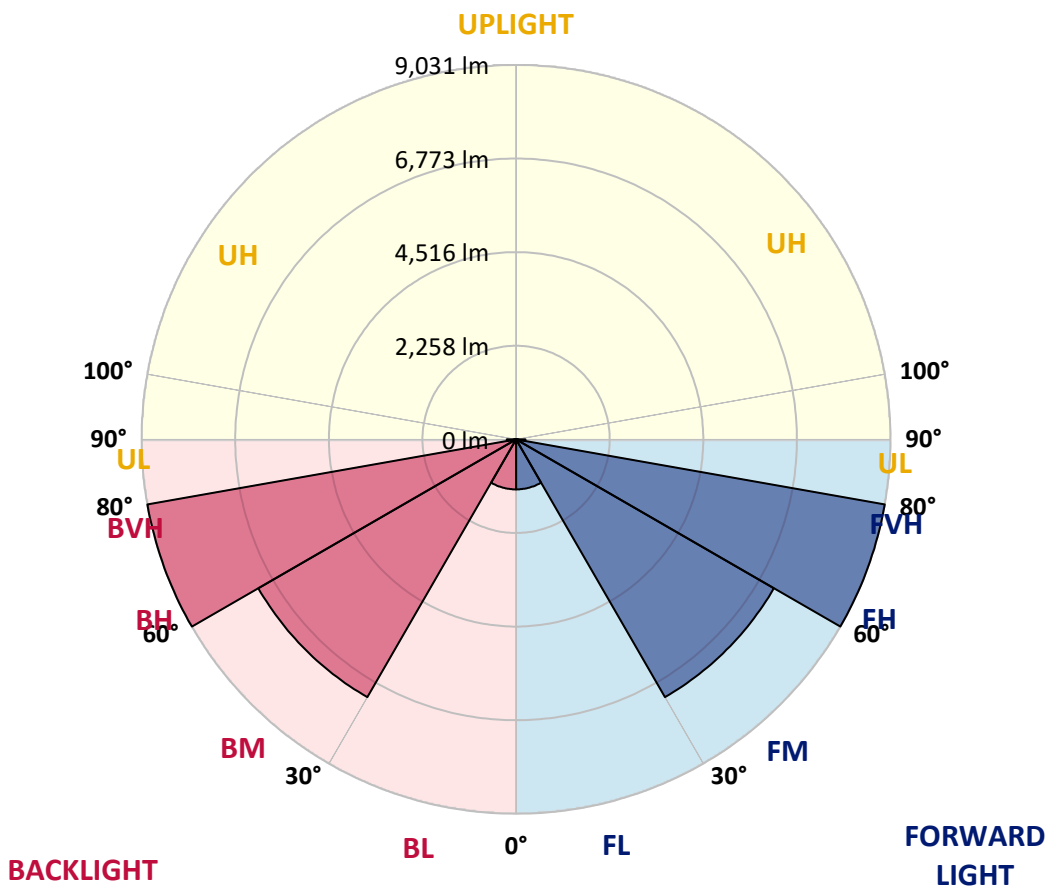
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1206.9	3.4			
FM (30°-60°)	7179.9	20.3			
FH (60°-80°)	9031.1	25.6			G4/12000
FVH (80°-90°)	224.3	0.6			G2/225
BL (0°-30°)	1206.9	3.4	B3/2500		
BM (30°-60°)	7179.9	20.3	B4/8500		
BH (60°-80°)	9031.1	25.6	B5		G4/12000
BVH (80°-90°)	224.3	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0	2767.0
2.5°	2744.6	2747.1	2752.1	2752.1	2757.0	2764.5	2767.0	2762.0	2764.5	2752.1	2764.5
5°	2737.1	2739.6	2742.1	2737.1	2737.1	2739.6	2739.6	2734.6	2737.1	2724.6	2737.1
7.5°	2719.6	2722.1	2722.1	2714.6	2707.1	2712.1	2712.1	2707.1	2709.6	2697.2	2712.1
10°	2704.6	2704.6	2702.2	2687.2	2679.7	2687.2	2689.7	2692.2	2702.2	2692.2	2709.6
12.5°	2714.6	2714.6	2707.1	2687.2	2674.7	2679.7	2684.7	2689.7	2707.1	2704.6	2724.6
15°	2742.1	2744.6	2724.6	2702.2	2694.7	2702.2	2697.2	2694.7	2717.1	2724.6	2747.1
17.5°	2764.5	2764.5	2739.6	2717.1	2719.6	2732.1	2722.1	2709.6	2732.1	2747.1	2772.0
20°	2784.5	2782.0	2754.5	2739.6	2749.6	2767.0	2759.5	2742.1	2757.0	2774.5	2797.0
22.5°	2834.4	2831.9	2802.0	2794.5	2804.5	2821.9	2814.4	2799.5	2816.9	2841.9	2869.3
25°	2976.6	2971.6	2926.7	2901.8	2896.8	2909.2	2906.7	2901.8	2929.2	2959.1	2991.6
27.5°	3166.2	3163.7	3131.3	3106.4	3073.9	3063.9	3071.4	3093.9	3133.8	3156.3	3183.7
30°	3261.0	3261.0	3256.1	3296.0	3365.8	3433.2	3380.8	3296.0	3261.0	3251.1	3278.5
32.5°	3385.8	3398.3	3380.8	3425.7	3543.0	3642.8	3543.0	3405.8	3380.8	3380.8	3410.8
35°	3672.7	3677.7	3650.3	3642.8	3680.2	3692.7	3645.3	3595.4	3622.8	3627.8	3665.2
37.5°	3902.3	3902.3	3889.8	3909.8	3987.1	4034.5	3957.2	3867.3	3874.8	3879.8	3927.2
40°	4256.6	4266.6	4236.6	4234.1	4264.1	4306.5	4224.1	4166.8	4206.7	4219.2	4291.5
42.5°	4698.2	4698.2	4653.3	4640.8	4660.8	4705.7	4628.3	4590.9	4643.3	4653.3	4695.7
45°	5224.7	5237.1	5177.3	5154.8	5164.8	5179.8	5124.9	5107.4	5157.3	5179.8	5254.6
47.5°	5865.9	5878.4	5826.0	5823.5	5813.5	5823.5	5771.1	5761.1	5801.0	5783.6	5863.4
50°	6656.8	6679.3	6634.4	6696.7	6689.3	6719.2	6646.8	6594.5	6594.5	6547.0	6592.0
52.5°	7542.6	7587.5	7609.9	7714.7	7794.6	7869.4	7749.7	7667.3	7547.6	7450.3	7572.5
55°	8508.2	8495.7	8637.9	8867.5	9102.0	9279.1	9044.6	8785.1	8590.5	8388.4	8435.8
57.5°	9354.0	9396.4	9583.5	10002.7	10466.8	10841.0	10419.4	9920.4	9478.7	9189.3	9229.2
60°	10057.6	10092.5	10342.0	10945.8	11756.7	12273.2	11604.5	10781.2	10139.9	9740.7	9783.1
62.5°	10706.3	10738.8	10990.8	11656.9	12679.9	13353.6	12490.3	11365.0	10651.4	10249.7	10274.7
65°	11080.6	11100.5	11444.9	12146.0	13223.8	13920.0	12946.9	11786.7	11085.6	10676.4	10691.3
67.5°	10399.4	10431.9	11157.9	12126.0	13328.6	13929.9	12966.8	11799.2	11010.7	10476.8	10489.2
70°	8203.8	8176.3	9042.1	10706.3	12727.3	13510.8	12390.5	10913.4	9695.8	8949.8	8937.3
72.5°	6255.1	6262.6	6744.2	7884.4	10377.0	12467.8	10933.4	8787.6	7475.2	6908.8	6886.4
75°	4536.0	4605.9	4997.6	5833.5	7258.1	9319.1	8231.2	6512.1	5633.9	5294.5	5244.6
77.5°	2043.5	2133.3	2679.7	3662.8	4852.9	5149.8	5169.8	4421.3	3335.9	2772.0	2684.7
80°	596.3	638.7	820.9	1404.7	2260.5	2921.7	2320.4	1951.1	1215.1	953.1	908.2
82.5°	252.0	286.9	351.8	389.2	656.2	1354.8	843.3	536.4	499.0	404.2	369.3
85°	107.3	114.8	147.2	157.2	212.1	289.4	267.0	242.0	232.0	179.6	164.7
87.5°	44.9	44.9	44.9	39.9	37.4	39.9	54.9	69.9	92.3	72.4	67.4
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)