

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: P638681

Luminaire Tested: GWS-SA4F-735-U-5WQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638681  
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-735-U-5WQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

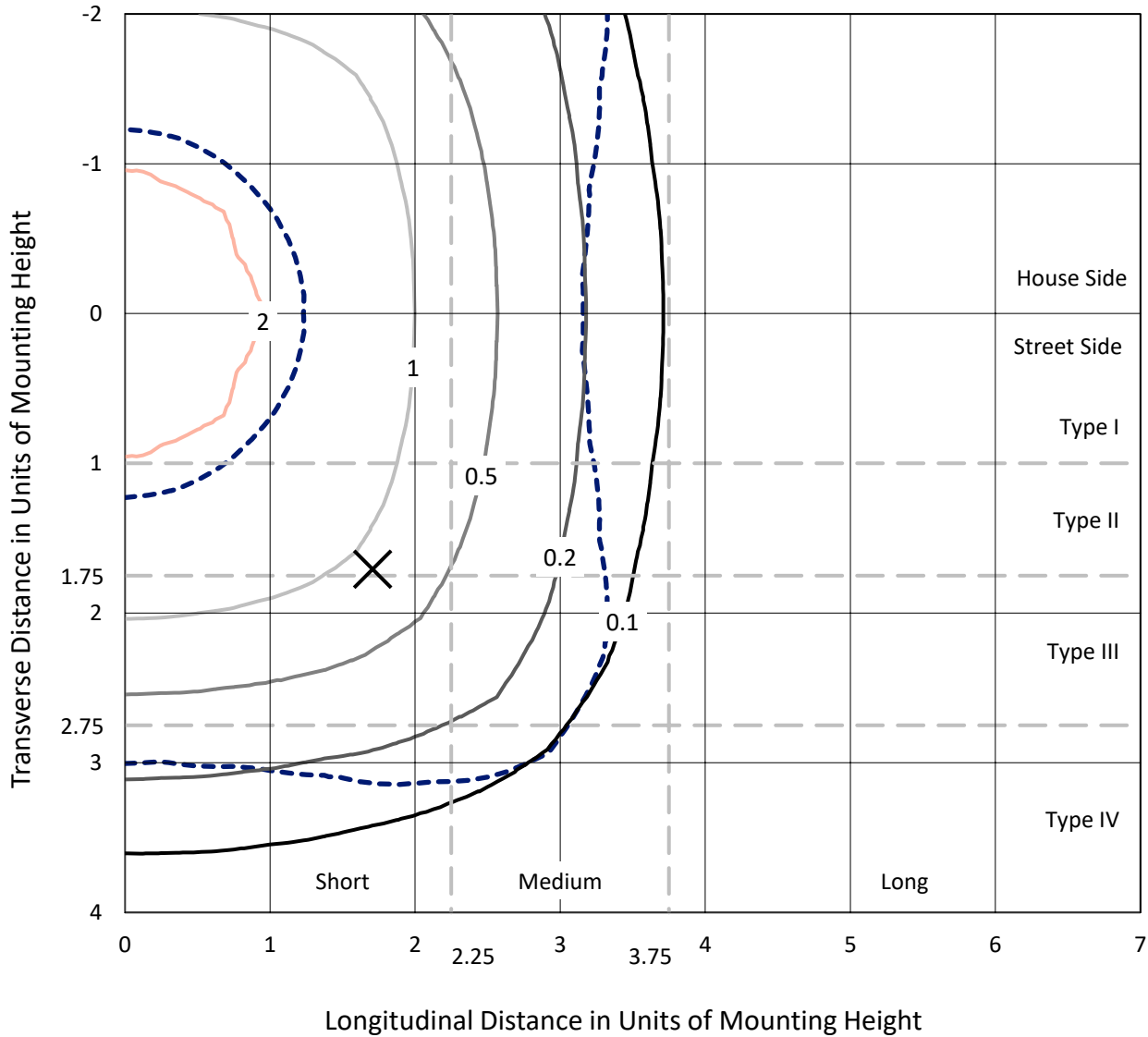
Lumens per Lamp: N/A  
Luminaire Lumens: 34021.3 lumens  
Efficiency: N/A  
Efficacy: 151.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P638681  
 CATALOG NUMBER: GWS-SA4F-735-U-5WQ-W

### Iso-Footcandle Lines of Horizontal Illumination

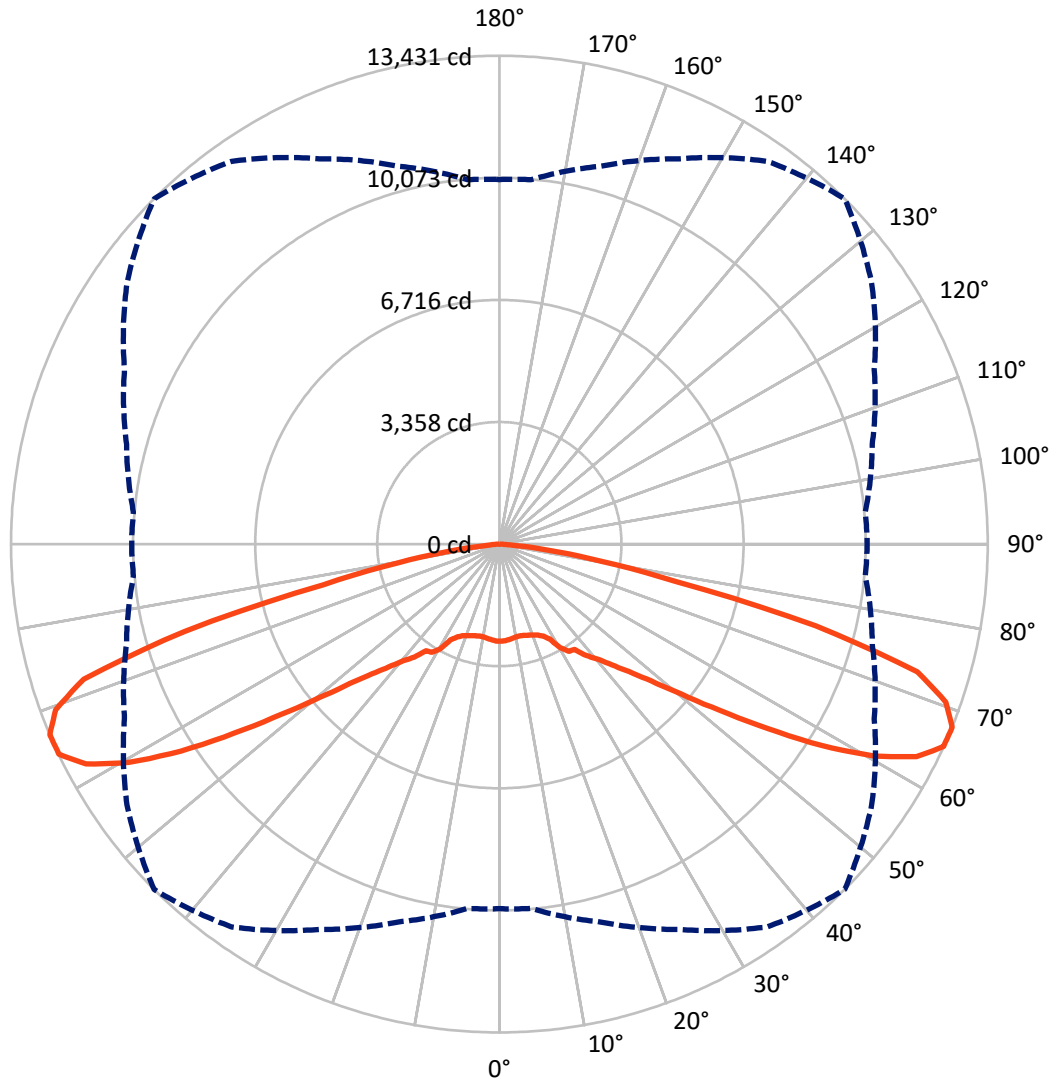
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3 fc  
 Type V - Short - N/A

REPORT NUMBER: P638681  
CATALOG NUMBER: GWS-SA4F-735-U-5WQ-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P638681

CATALOG NUMBER: GWS-SA4F-735-U-5WQ-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17010.6	0.0	17010.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17010.6	0.0	17010.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	34021.3	0.0	34021.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.5	0.7
10°-20°	743.4	2.2
20°-30°	1333.5	3.9
30°-40°	2252.7	6.6
40°-50°	3958.0	11.6
50°-60°	7635.1	22.4
60°-70°	11077.5	32.6
70°-80°	6338.1	18.6
80°-90°	432.6	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°	34021.3	100.0
0°-180°	34021.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P638681

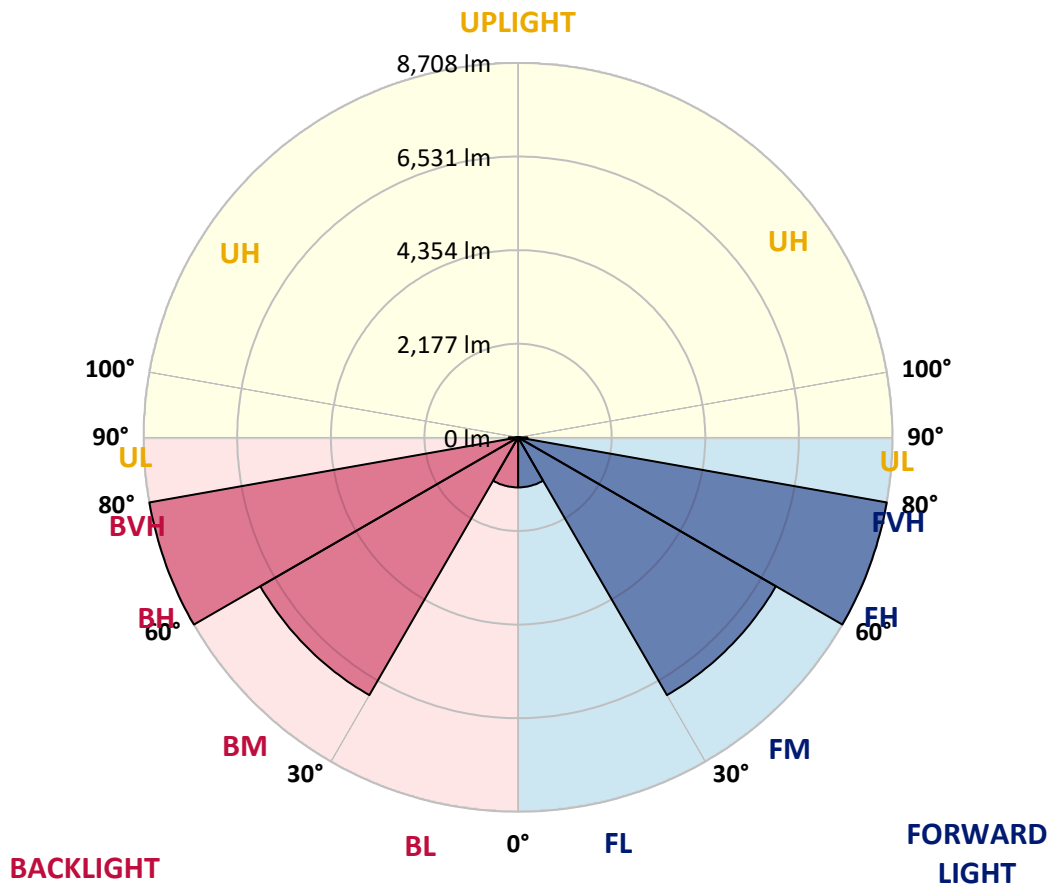
CATALOG NUMBER: GWS-SA4F-735-U-5WQ-W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1163.7	3.4			
FM (30°-60°)	6922.9	20.3			
FH (60°-80°)	8707.8	25.6			G4/12000
FVH (80°-90°)	216.3	0.6			G2/225
BL (0°-30°)	1163.7	3.4	B3/2500		
BM (30°-60°)	6922.9	20.3	B4/8500		
BH (60°-80°)	8707.8	25.6	B5		G4/12000
BVH (80°-90°)	216.3	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





REPORT NUMBER: P638681  
 CATALOG NUMBER: GWS-SA4F-735-U-5WQ-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2668.0	2668.0	2668.0	2668.0	2668.0	2668.0	2668.0	2668.0	2668.0	2668.0	2668.0
2.5°	2646.3	2648.7	2653.5	2653.5	2658.3	2665.6	2668.0	2663.2	2665.6	2653.5	2665.6
5°	2639.1	2641.5	2643.9	2639.1	2639.1	2641.5	2641.5	2636.7	2639.1	2627.1	2639.1
7.5°	2622.3	2624.7	2624.7	2617.4	2610.2	2615.0	2615.0	2610.2	2612.6	2600.6	2615.0
10°	2607.8	2607.8	2605.4	2591.0	2583.8	2591.0	2593.4	2595.8	2605.4	2595.8	2612.6
12.5°	2617.4	2617.4	2610.2	2591.0	2579.0	2583.8	2588.6	2593.4	2610.2	2607.8	2627.1
15°	2643.9	2646.3	2627.1	2605.4	2598.2	2605.4	2600.6	2598.2	2619.8	2627.1	2648.7
17.5°	2665.6	2665.6	2641.5	2619.8	2622.3	2634.3	2624.7	2612.6	2634.3	2648.7	2672.8
20°	2684.8	2682.4	2655.9	2641.5	2651.1	2668.0	2660.7	2643.9	2658.3	2675.2	2696.8
22.5°	2732.9	2730.5	2701.6	2694.4	2704.1	2720.9	2713.7	2699.2	2716.1	2740.1	2766.6
25°	2870.0	2865.2	2821.9	2797.9	2793.1	2805.1	2802.7	2797.9	2824.3	2853.2	2884.5
27.5°	3052.9	3050.5	3019.2	2995.1	2963.9	2954.2	2961.5	2983.1	3021.6	3043.3	3069.7
30°	3144.3	3144.3	3139.5	3178.0	3245.3	3310.3	3259.8	3178.0	3144.3	3134.7	3161.1
32.5°	3264.6	3276.6	3259.8	3303.1	3416.1	3512.4	3416.1	3283.8	3259.8	3259.8	3288.6
35°	3541.2	3546.1	3519.6	3512.4	3548.5	3560.5	3514.8	3466.7	3493.1	3497.9	3534.0
37.5°	3762.6	3762.6	3750.5	3769.8	3844.4	3890.1	3815.5	3728.9	3736.1	3740.9	3786.6
40°	4104.2	4113.8	4084.9	4082.5	4111.4	4152.3	4072.9	4017.6	4056.1	4068.1	4137.9
42.5°	4530.0	4530.0	4486.7	4474.7	4493.9	4537.2	4462.6	4426.6	4477.1	4486.7	4527.6
45°	5037.6	5049.6	4991.9	4970.3	4979.9	4994.3	4941.4	4924.5	4972.7	4994.3	5066.5
47.5°	5655.9	5667.9	5617.4	5615.0	5605.4	5615.0	5564.5	5554.9	5593.3	5576.5	5653.5
50°	6418.5	6440.2	6396.9	6457.0	6449.8	6478.7	6408.9	6358.4	6358.4	6312.7	6356.0
52.5°	7272.5	7315.9	7337.5	7438.5	7515.5	7587.7	7472.2	7392.8	7277.4	7183.5	7301.4
55°	8203.6	8191.5	8328.7	8550.0	8776.1	8946.9	8720.8	8470.6	8283.0	8088.1	8133.8
57.5°	9019.1	9060.0	9240.4	9644.6	10092.1	10452.9	10046.4	9565.2	9139.4	8860.3	8898.8
60°	9697.5	9731.2	9971.8	10554.0	11335.8	11833.8	11189.1	10395.2	9776.9	9392.0	9432.9
62.5°	10323.0	10354.3	10597.3	11239.6	12226.0	12875.5	12043.1	10958.1	10270.1	9882.8	9906.8
65°	10683.9	10703.1	11035.1	11711.1	12750.4	13421.6	12483.4	11364.7	10688.7	10294.2	10308.6
67.5°	10027.1	10058.4	10758.5	11691.9	12851.5	13431.2	12502.6	11376.7	10616.5	10101.7	10113.7
70°	7910.1	7883.6	8718.4	10323.0	12271.7	13027.1	11946.9	10522.7	9348.7	8629.4	8617.4
72.5°	6031.2	6038.4	6502.7	7602.1	10005.5	12021.5	10541.9	8473.0	7207.6	6661.5	6639.8
75°	4373.6	4441.0	4818.7	5624.6	6998.3	8985.4	7936.5	6279.0	5432.2	5105.0	5056.9
77.5°	1970.3	2056.9	2583.8	3531.6	4679.2	4965.4	4984.7	4263.0	3216.5	2672.8	2588.6
80°	575.0	615.9	791.5	1354.4	2179.6	2817.1	2237.3	1881.3	1171.6	919.0	875.7
82.5°	243.0	276.7	339.2	375.3	632.7	1306.3	813.1	517.2	481.1	389.7	356.0
85°	103.4	110.7	141.9	151.6	204.5	279.1	257.4	233.4	223.7	173.2	158.8
87.5°	43.3	43.3	43.3	38.5	36.1	38.5	52.9	67.4	89.0	69.8	65.0
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)