

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: P638734

Luminaire Tested: GWS-SA4F-740-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638734
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-SA4F-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17905.6 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

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

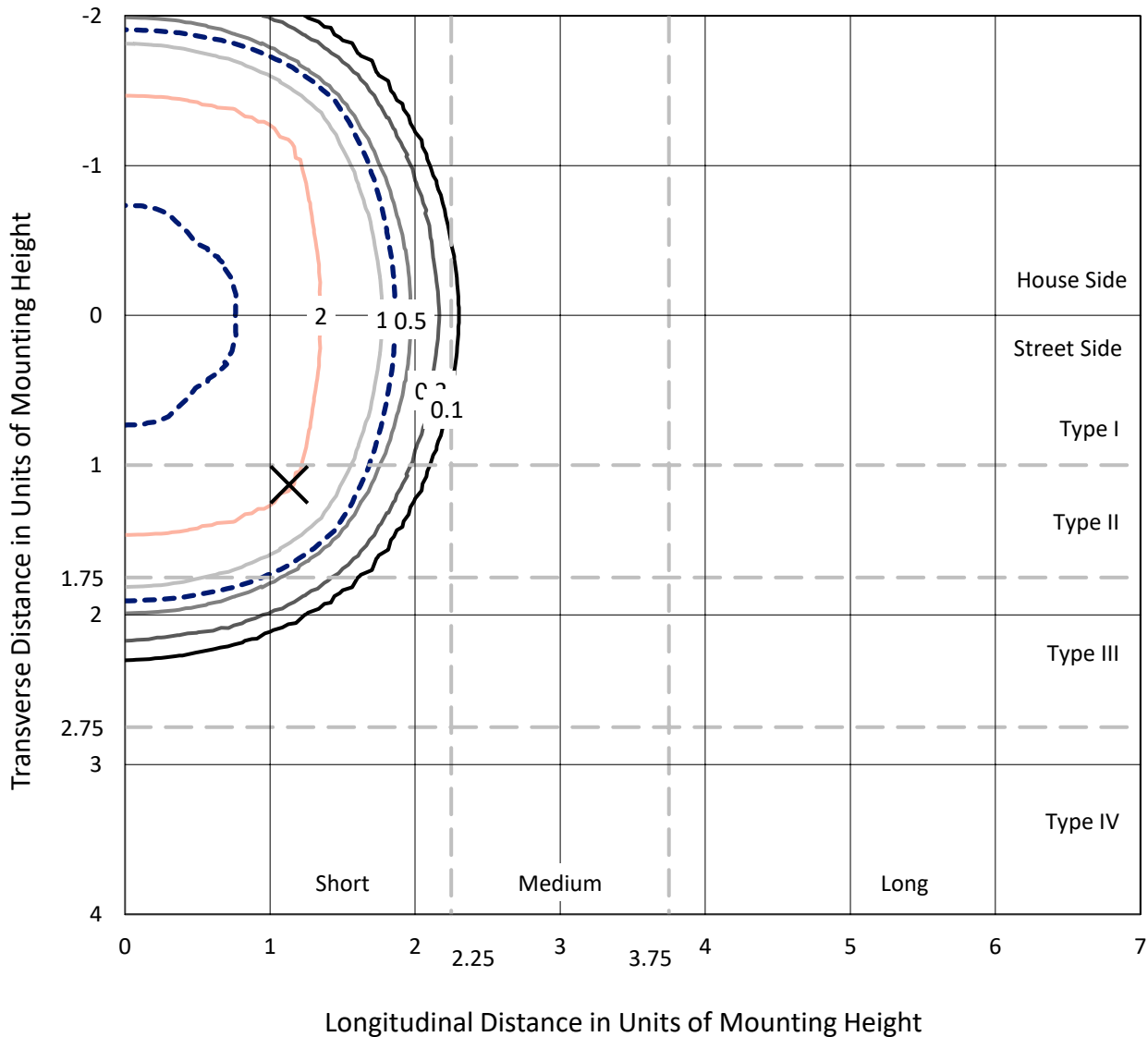


REPORT NUMBER: P638734

CATALOG NUMBER: GWS-SA4F-740-U-5WQ-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

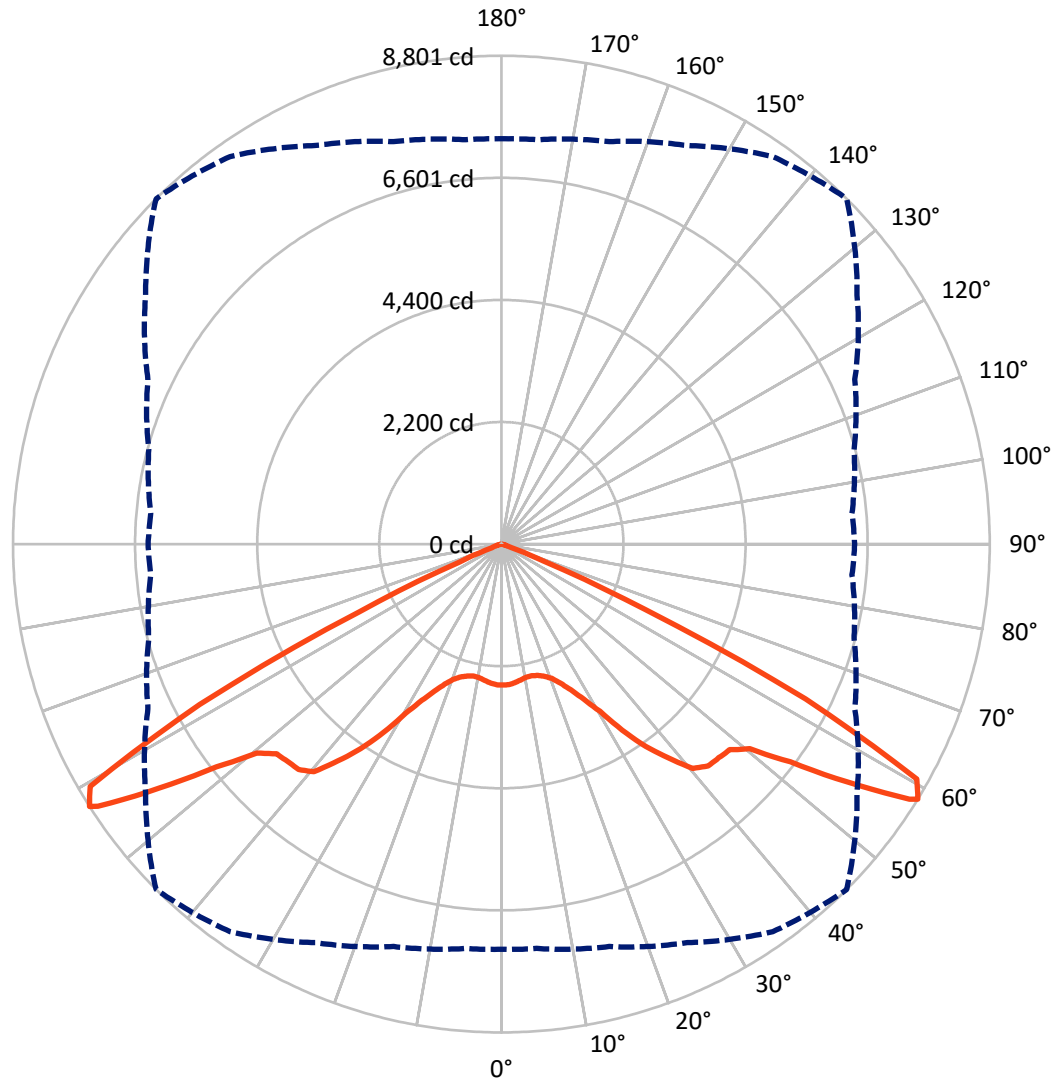
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - N/A

REPORT NUMBER: P638734
CATALOG NUMBER: GWS-SA4F-740-U-5WQ-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

REPORT NUMBER: P638734

CATALOG NUMBER: GWS-SA4F-740-U-5WQ-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8952.8	0.0	8952.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8952.8	0.0	8952.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	17905.6	0.0	17905.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.9	1.3
10°-20°	701.0	3.9
20°-30°	1325.8	7.4
30°-40°	2614.8	14.6
40°-50°	4137.9	23.1
50°-60°	6082.5	34.0
60°-70°	2715.0	15.2
70°-80°	91.0	0.5
80°-90°	0.7	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°	17905.6	100.0
0°-180°	17905.6	100.0

Coefficient of Utilization



REPORT NUMBER: P638734

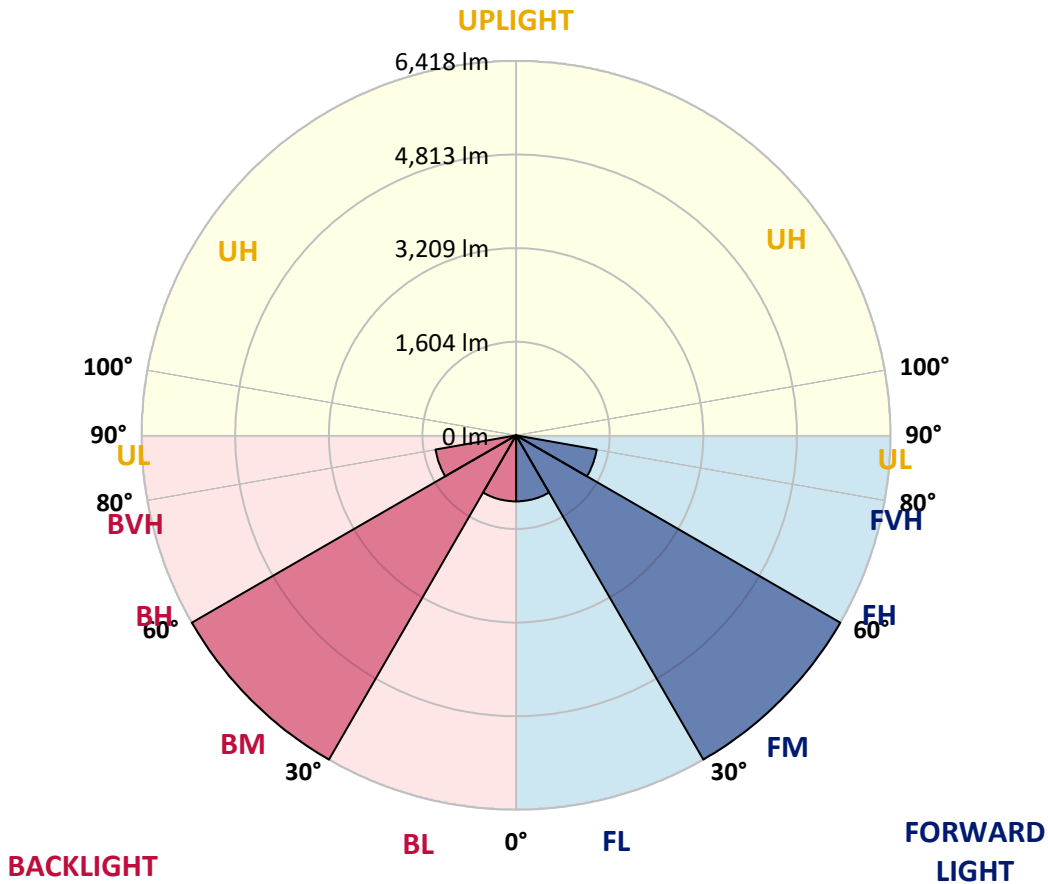
CATALOG NUMBER: GWS-SA4F-740-U-5WQ-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1131.9	6.3			
FM (30°-60°)	6417.6	35.8			
FH (60°-80°)	1403.0	7.8			G1/1800
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	1131.9	6.3	B3/2500		
BM (30°-60°)	6417.6	35.8	B4/8500		
BH (60°-80°)	1403.0	7.8	B3/2500		G1/1800
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





REPORT NUMBER: P638734

CATALOG NUMBER: GWS-SA4F-740-U-5WQ-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2539.3	2539.3	2539.3	2539.3	2539.3	2539.3	2539.3	2539.3	2539.3	2539.3	2539.3
2.5°	2514.9	2519.7	2524.6	2527.1	2529.5	2536.8	2539.3	2531.9	2531.9	2517.3	2534.4
5°	2502.7	2507.5	2512.4	2510.0	2510.0	2510.0	2507.5	2497.8	2495.3	2480.7	2497.8
7.5°	2480.7	2485.6	2485.6	2478.3	2473.4	2473.4	2471.0	2458.8	2456.3	2441.7	2458.8
10°	2463.6	2466.1	2463.6	2449.0	2439.2	2439.2	2436.8	2431.9	2434.4	2424.6	2439.2
12.5°	2473.4	2475.8	2466.1	2446.6	2434.4	2431.9	2424.6	2417.3	2424.6	2422.2	2436.8
15°	2505.1	2507.5	2490.5	2466.1	2456.3	2456.3	2436.8	2417.3	2427.0	2429.5	2446.6
17.5°	2544.1	2544.1	2522.2	2500.2	2502.7	2502.7	2471.0	2436.8	2439.2	2449.0	2466.1
20°	2590.5	2590.5	2568.5	2563.6	2580.7	2583.2	2544.1	2490.5	2478.3	2485.6	2505.1
22.5°	2673.4	2673.4	2656.3	2668.5	2707.6	2719.8	2661.2	2585.6	2556.3	2561.2	2580.7
25°	2802.7	2802.7	2797.8	2827.1	2883.2	2910.0	2832.0	2732.0	2683.2	2675.9	2697.8
27.5°	3019.8	3022.2	3014.9	3058.8	3129.5	3161.3	3053.9	2922.2	2863.7	2851.5	2873.4
30°	3300.3	3300.3	3302.7	3363.7	3456.4	3497.9	3356.4	3202.7	3134.4	3095.4	3124.7
32.5°	3612.5	3617.4	3641.8	3744.2	3907.7	3993.0	3785.7	3571.1	3461.3	3419.8	3451.5
35°	4127.2	4080.9	4051.6	4127.2	4363.8	4476.0	4210.1	3958.9	3876.0	3871.1	3951.6
37.5°	4637.0	4610.2	4549.2	4627.2	4839.5	4890.7	4598.0	4388.2	4329.7	4361.4	4441.9
40°	5041.9	4993.1	4912.6	4985.8	5263.9	5315.1	4954.1	4746.8	4724.8	4795.6	4905.3
42.5°	5361.5	5293.2	5185.8	5202.9	5427.3	5463.9	5144.4	4988.3	5002.9	5090.7	5215.1
45°	5505.4	5451.7	5356.6	5349.3	5490.7	5493.2	5241.9	5161.4	5200.5	5268.8	5366.3
47.5°	5566.4	5542.0	5488.3	5476.1	5556.6	5537.1	5381.0	5346.8	5383.4	5402.9	5459.0
50°	5717.6	5717.6	5724.9	5734.7	5817.6	5798.1	5688.3	5649.3	5602.9	5534.6	5551.7
52.5°	6142.0	6159.1	6229.8	6307.9	6459.1	6522.5	6344.5	6117.6	5895.7	5746.9	5746.9
55°	6907.9	6925.0	7007.9	7139.7	7417.7	7569.0	7154.3	6654.3	6349.4	6146.9	6173.7
57.5°	7329.9	7349.4	7520.2	7876.3	8415.4	8671.5	7781.2	7039.7	6612.8	6381.1	6400.6
58°	7303.1	7315.3	7508.0	7925.1	8525.2	8800.8	7825.1	7027.5	6578.6	6342.0	6366.4
60°	6488.4	6471.3	6778.7	7373.8	8220.3	8600.8	7388.5	6415.2	5893.2	5651.7	5663.9
62.5°	4241.8	4251.6	4517.5	5139.5	5798.1	6156.7	5161.4	4437.0	4017.4	3871.1	3834.5
65°	1770.9	1739.2	1902.6	2249.0	2644.1	2844.2	2444.1	2068.5	1809.9	1712.3	1739.2
67.5°	456.1	443.9	453.7	568.3	695.2	822.0	690.3	526.9	458.6	463.5	463.5
70°	258.6	243.9	197.6	182.9	178.1	178.1	178.1	178.1	204.9	241.5	248.8
72.5°	195.1	182.9	143.9	124.4	109.8	102.4	107.3	124.4	148.8	180.5	185.4
75°	97.6	97.6	87.8	82.9	73.2	68.3	70.7	78.1	90.3	102.4	100.0
77.5°	19.5	22.0	24.4	29.3	24.4	24.4	24.4	29.3	29.3	31.7	29.3
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	0.0	2.4	2.4	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4
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)