

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: P638730

Luminaire Tested: GWS-SA4F-740-U-5MQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-740-U-5MQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35235.6 lumens
Efficiency: N/A
Efficacy: 156.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

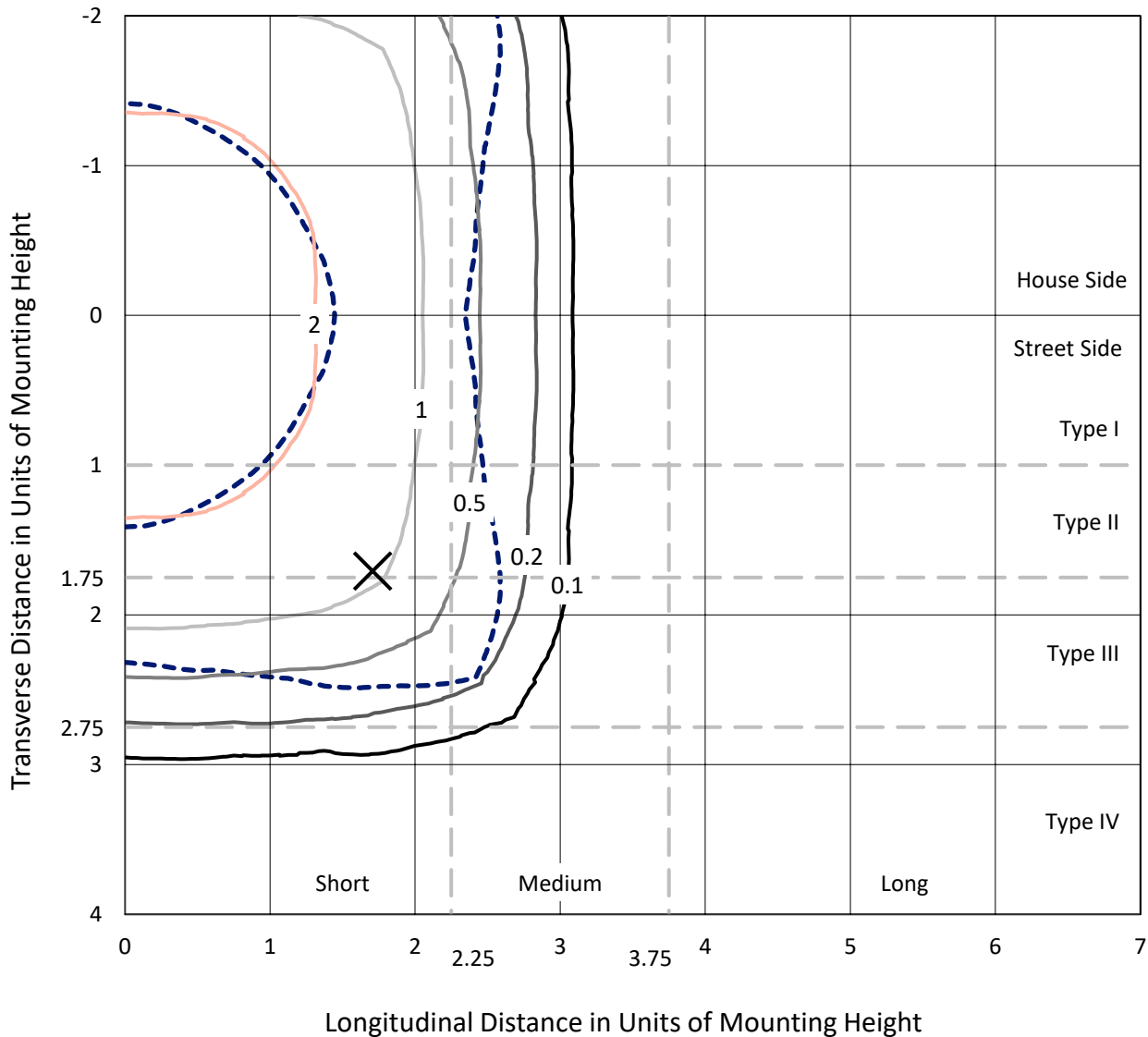
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638730
 CATALOG NUMBER: GWS-SA4F-740-U-5MQ-W

Iso-Footcandle Lines of Horizontal Illumination

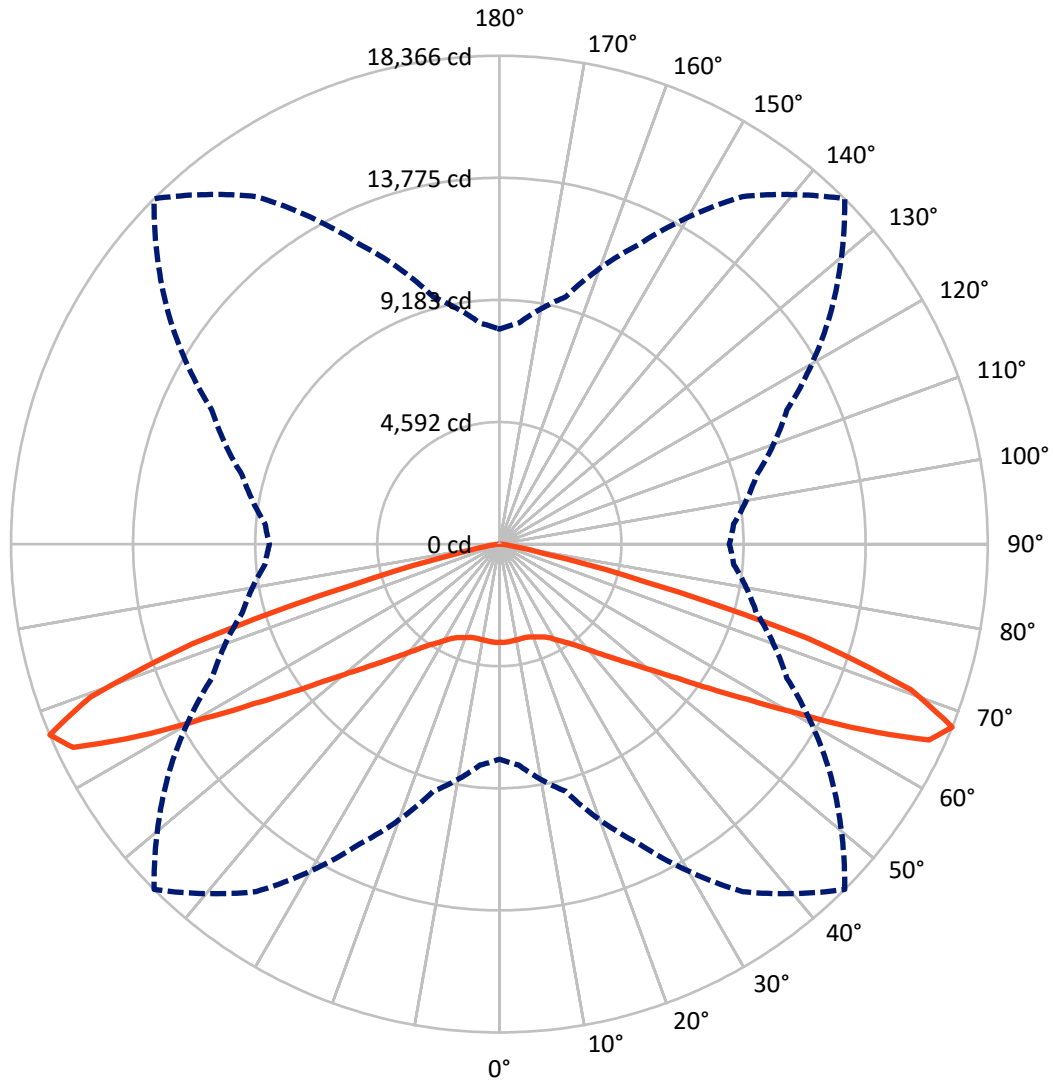
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - N/A

REPORT NUMBER: P638730
CATALOG NUMBER: GWS-SA4F-740-U-5MQ-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638730

CATALOG NUMBER: GWS-SA4F-740-U-5MQ-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17617.8	0.0	17617.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17617.8	0.0	17617.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	35235.6	0.0	35235.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.3	1.0
10°-20°	1025.9	2.9
20°-30°	1769.3	5.0
30°-40°	2877.0	8.2
40°-50°	4844.2	13.7
50°-60°	8583.0	24.4
60°-70°	12268.8	34.8
70°-80°	3367.3	9.6
80°-90°	150.9	0.4
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°	35235.6	100.0
0°-180°	35235.6	100.0

Coefficient of Utilization



REPORT NUMBER: P638730

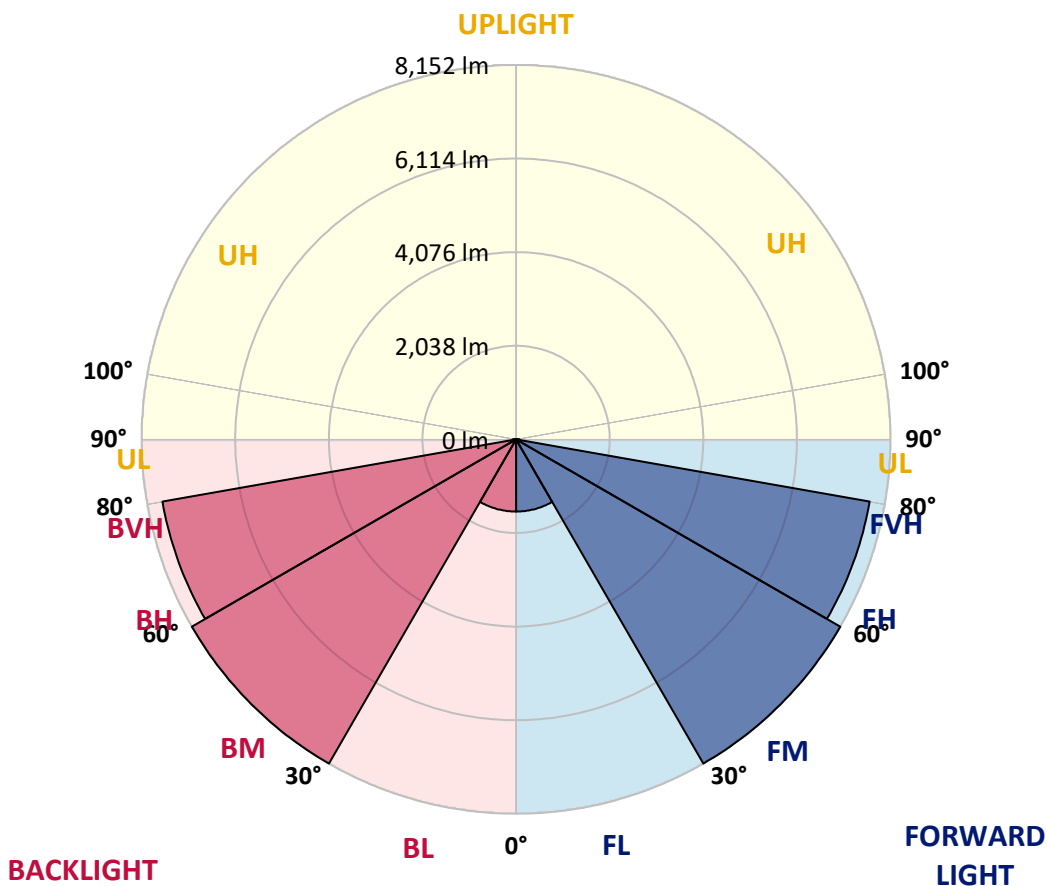
CATALOG NUMBER: GWS-SA4F-740-U-5MQ-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1572.2	4.5			
FM (30°-60°)	8152.1	23.1			
FH (60°-80°)	7818.1	22.2			G4/12000
FVH (80°-90°)	75.4	0.2			G1/100
BL (0°-30°)	1572.2	4.5	B3/2500		
BM (30°-60°)	8152.1	23.1	B4/8500		
BH (60°-80°)	7818.1	22.2	B5		G4/12000
BVH (80°-90°)	75.4	0.2			G1/100
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: P638730

CATALOG NUMBER: GWS-SA4F-740-U-5MQ-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3690.3	3690.3	3690.3	3690.3	3690.3	3690.3	3690.3	3690.3	3690.3	3690.3	3690.3
2.5°	3665.9	3663.5	3675.7	3683.0	3680.6	3697.6	3695.2	3690.3	3690.3	3683.0	3702.5
5°	3665.9	3663.5	3673.2	3675.7	3670.8	3685.4	3680.6	3675.7	3675.7	3665.9	3683.0
7.5°	3646.4	3648.8	3656.2	3661.0	3656.2	3668.4	3661.0	3651.3	3648.8	3639.1	3656.2
10°	3609.8	3612.3	3619.6	3631.8	3634.2	3656.2	3644.0	3626.9	3619.6	3609.8	3626.9
12.5°	3587.9	3590.3	3597.6	3612.3	3617.1	3646.4	3634.2	3607.4	3595.2	3585.4	3602.5
15°	3583.0	3585.4	3595.2	3609.8	3617.1	3646.4	3634.2	3602.5	3585.4	3573.2	3587.9
17.5°	3583.0	3587.9	3602.5	3624.5	3639.1	3668.4	3653.7	3617.1	3592.7	3570.8	3585.4
20°	3585.4	3592.7	3614.7	3646.4	3683.0	3724.5	3704.9	3656.2	3622.0	3595.2	3604.9
22.5°	3607.4	3619.6	3646.4	3687.9	3741.5	3790.3	3773.2	3707.4	3658.6	3622.0	3631.8
25°	3683.0	3687.9	3722.0	3775.7	3826.9	3868.4	3851.3	3790.3	3729.3	3685.4	3697.6
27.5°	3817.1	3829.3	3858.6	3914.7	3958.6	3980.6	3978.1	3936.7	3875.7	3836.7	3846.4
30°	3978.1	3990.3	4029.3	4092.8	4136.7	4161.0	4153.7	4122.0	4065.9	4012.3	4022.0
32.5°	4165.9	4170.8	4217.1	4287.9	4334.2	4370.8	4346.4	4312.3	4241.5	4178.1	4183.0
35°	4405.0	4412.3	4461.1	4526.9	4563.5	4592.8	4587.9	4553.7	4478.1	4409.8	4426.9
37.5°	4705.0	4709.8	4753.7	4836.7	4865.9	4887.9	4892.8	4875.7	4797.6	4709.8	4726.9
40°	5078.1	5080.6	5129.4	5202.5	5234.2	5248.9	5251.3	5253.8	5173.3	5107.4	5102.5
42.5°	5512.3	5524.5	5592.8	5663.5	5678.1	5670.8	5695.2	5719.6	5641.6	5551.3	5558.6
45°	6031.8	6039.1	6131.8	6209.9	6183.0	6158.6	6205.0	6253.8	6183.0	6066.0	6031.8
47.5°	6646.5	6661.1	6761.1	6839.1	6795.2	6751.3	6826.9	6878.2	6763.5	6639.1	6607.4
50°	7341.6	7351.3	7492.8	7590.4	7539.2	7458.7	7553.8	7607.4	7453.8	7300.1	7231.8
52.5°	8163.6	8144.0	8331.9	8502.6	8470.9	8366.0	8444.0	8453.8	8224.5	8007.5	7939.2
55°	9166.0	9146.5	9334.3	9522.1	9600.2	9573.3	9536.8	9478.2	9139.2	8907.5	8844.1
57.5°	10334.3	10273.4	10536.8	10790.4	10961.2	11009.9	10853.8	10717.3	10449.0	10163.6	10090.4
60°	11419.7	11417.3	11834.4	12273.4	12741.7	12936.8	12541.7	12170.9	11568.5	11049.0	10944.1
62.5°	11724.6	11775.8	12458.8	13546.6	14702.7	15393.0	14351.5	13124.6	11961.2	11178.2	11039.2
65°	10973.4	11100.2	12070.9	13788.0	16071.0	17758.8	15407.6	13146.6	11524.6	10549.0	10402.6
67.5°	8087.9	8341.6	9627.0	12441.7	15953.9	18366.2	15219.8	11929.5	10009.9	8848.9	8646.5
70°	3990.3	4231.8	5251.3	8185.5	13127.1	16417.4	13168.5	8990.4	6761.1	5644.0	5458.6
72.5°	1468.3	1565.9	1965.9	3502.5	7244.0	12127.0	9005.0	5022.0	3275.7	2607.4	2483.0
75°	719.5	736.6	797.6	1175.6	2673.2	5707.4	4231.8	1926.9	1204.9	1048.8	1014.7
77.5°	458.5	465.9	495.1	561.0	858.6	1797.6	1282.9	761.0	590.3	565.9	565.9
80°	256.1	263.4	302.4	348.8	402.4	617.1	461.0	456.1	387.8	339.0	331.7
82.5°	122.0	134.1	192.7	190.2	212.2	309.8	270.7	246.3	248.8	187.8	178.1
85°	56.1	56.1	75.6	90.2	95.1	104.9	124.4	141.5	139.0	95.1	102.4
87.5°	26.8	26.8	26.8	24.4	22.0	19.5	26.8	43.9	63.4	43.9	41.5
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)