

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: P638728

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-5)
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-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM 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: 20788.7 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

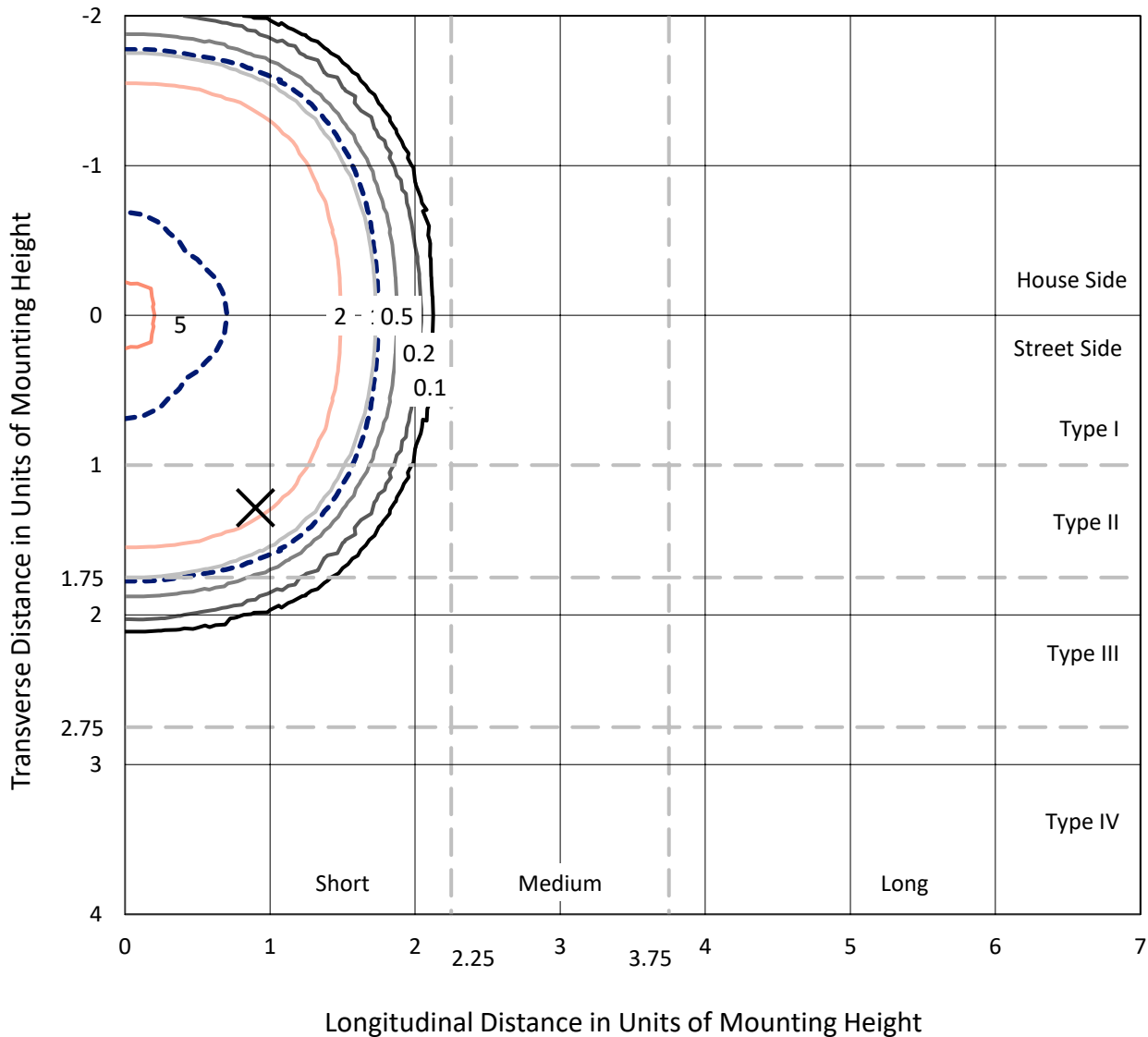
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

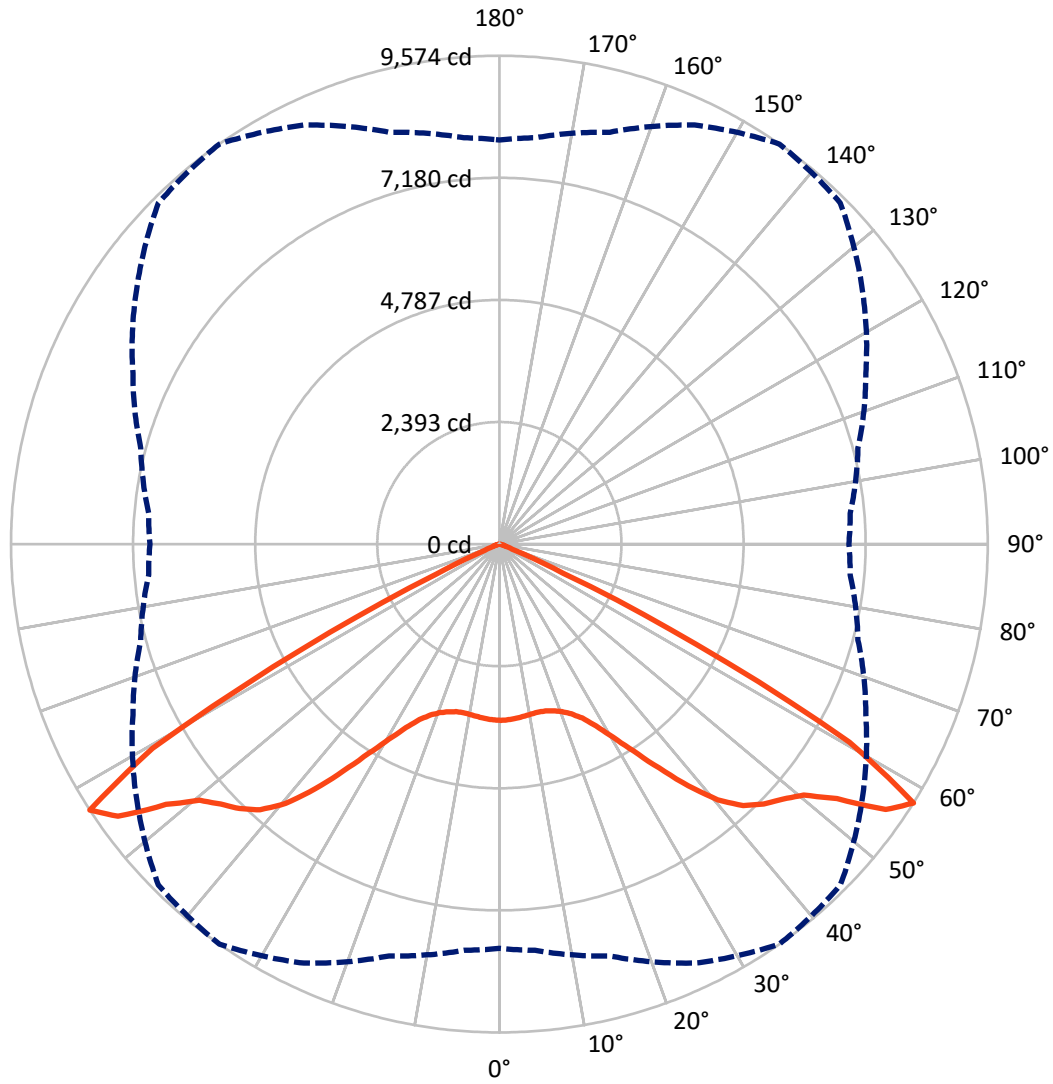
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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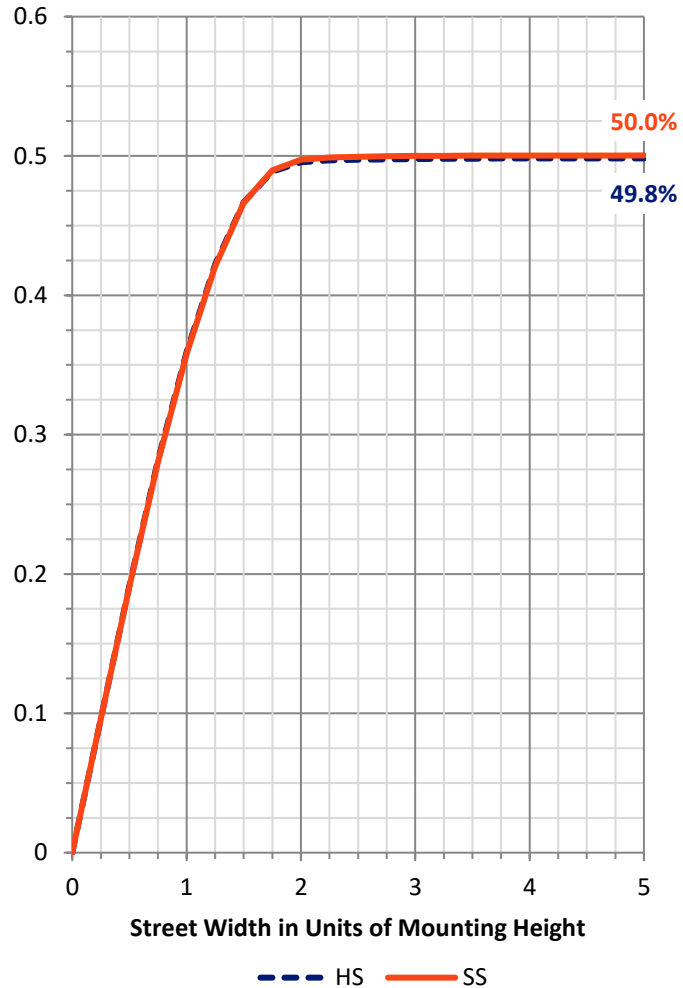
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10394.3	0.0	10394.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10394.3	0.0	10394.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	20788.7	0.0	20788.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.6	1.6
10°-20°	957.9	4.6
20°-30°	1731.4	8.3
30°-40°	3230.2	15.5
40°-50°	5418.6	26.1
50°-60°	7155.8	34.4
60°-70°	1900.4	9.1
70°-80°	67.5	0.3
80°-90°	1.2	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°	20788.7	100.0
0°-180°	20788.7	100.0

Coefficient of Utilization



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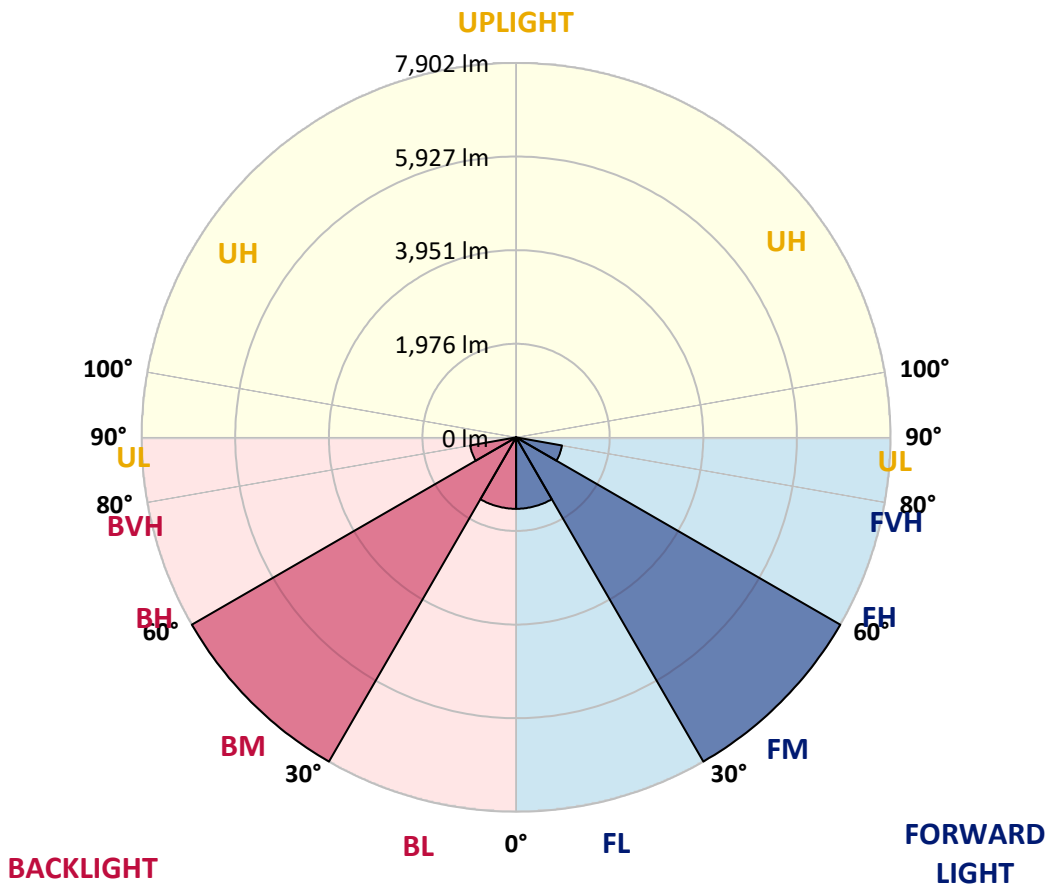
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1507.5	7.3			
FM (30°-60°)	7902.3	38.0			
FH (60°-80°)	984.0	4.7			G1/1800
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	1507.5	7.3	B3/2500		
BM (30°-60°)	7902.3	38.0	B4/8500		
BH (60°-80°)	984.0	4.7	B2/1000		G1/1800
BVH (80°-90°)	0.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3456.3	3456.3	3456.3	3456.3	3456.3	3456.3	3456.3	3456.3	3456.3	3456.3	3456.3
2.5°	3431.9	3429.5	3439.2	3446.6	3446.6	3463.6	3458.7	3453.9	3449.0	3441.7	3458.7
5°	3427.0	3424.6	3431.9	3436.8	3431.9	3446.6	3436.8	3427.0	3422.2	3412.4	3431.9
7.5°	3405.1	3407.5	3412.4	3417.3	3410.0	3422.2	3410.0	3395.3	3383.1	3373.4	3390.5
10°	3370.9	3373.4	3378.3	3388.0	3390.5	3407.5	3390.5	3363.6	3346.5	3331.9	3349.0
12.5°	3353.9	3356.3	3363.6	3375.8	3378.3	3400.2	3378.3	3339.2	3314.8	3297.8	3314.8
15°	3358.7	3363.6	3373.4	3388.0	3392.9	3414.8	3385.6	3334.3	3300.2	3278.2	3292.9
17.5°	3375.8	3380.7	3395.3	3419.7	3436.8	3458.7	3422.2	3356.3	3310.0	3278.2	3292.9
20°	3397.8	3405.1	3429.5	3468.5	3505.1	3544.1	3497.8	3407.5	3346.5	3307.5	3319.7
22.5°	3458.7	3466.1	3500.2	3551.4	3612.4	3661.2	3605.1	3490.5	3407.5	3356.3	3368.5
25°	3583.1	3590.5	3634.4	3700.2	3778.3	3841.7	3771.0	3627.1	3519.7	3461.2	3466.1
27.5°	3778.3	3785.6	3836.8	3929.5	4034.4	4124.6	4022.2	3853.9	3731.9	3663.6	3663.6
30°	4024.6	4034.4	4102.7	4227.1	4390.5	4510.0	4371.0	4166.1	4010.0	3917.3	3919.8
32.5°	4341.7	4332.0	4429.5	4600.3	4832.0	4990.5	4785.7	4536.9	4344.2	4214.9	4227.1
35°	4749.1	4746.6	4856.4	5088.1	5390.6	5580.8	5336.9	5014.9	4783.2	4651.5	4653.9
37.5°	5273.5	5271.1	5397.9	5649.1	6012.6	6171.1	5897.9	5571.1	5322.3	5195.4	5210.1
40°	5888.2	5873.5	5985.7	6227.2	6590.6	6693.1	6395.5	6132.1	5893.0	5812.5	5851.6
42.5°	6473.6	6441.9	6507.7	6727.2	7007.7	7022.4	6798.0	6617.5	6454.1	6390.6	6415.0
45°	6944.3	6919.9	6980.9	7107.8	7268.7	7195.6	7088.2	7032.1	6900.4	6832.1	6854.1
47.5°	7295.6	7295.6	7368.7	7446.8	7471.2	7337.0	7354.1	7354.1	7222.4	7115.1	7088.2
50°	7598.0	7620.0	7729.7	7810.2	7729.7	7559.0	7656.6	7637.1	7368.7	7154.1	7098.0
52.5°	8081.0	8102.9	8271.2	8381.0	8290.7	8122.4	8134.6	7890.7	7495.6	7241.9	7154.1
55°	8593.2	8646.9	8890.8	9183.5	9185.9	9012.7	8690.8	8259.0	7778.5	7502.9	7412.6
57.5°	7922.4	7995.6	8359.0	9064.0	9573.8	9454.2	8685.9	7927.3	7278.5	6902.9	6851.6
60°	5451.6	5578.4	5941.8	6905.3	7888.3	7934.6	7027.3	6176.0	5432.0	4968.6	4978.4
62.5°	2302.6	2431.9	2636.7	3429.5	4332.0	4388.1	3949.0	3339.2	2731.9	2397.7	2448.9
65°	541.5	578.1	639.1	948.8	1375.7	1439.1	1326.9	1034.2	763.5	646.4	658.6
67.5°	236.6	241.5	229.3	243.9	302.5	309.8	300.0	263.4	248.8	253.7	253.7
70°	165.9	168.3	158.5	151.2	143.9	134.2	139.0	153.7	165.9	175.6	173.2
72.5°	102.4	104.9	107.3	107.3	100.0	90.2	95.1	104.9	107.3	109.8	107.3
75°	51.2	53.7	58.5	61.0	58.5	56.1	56.1	58.5	58.5	56.1	56.1
77.5°	9.8	12.2	17.1	19.5	19.5	19.5	19.5	19.5	22.0	19.5	19.5
80°	2.4	2.4	4.9	2.4	2.4	2.4	2.4	2.4	2.4	4.9	4.9
82.5°	2.4	2.4	2.4	2.4	0.0	0.0	2.4	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	2.4	2.4	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4
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)