

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: P638838

Luminaire Tested: GWS-SA4F-760-U-5MQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638838
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20973.6 lumens
Efficiency: N/A
Efficacy: 93.1 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

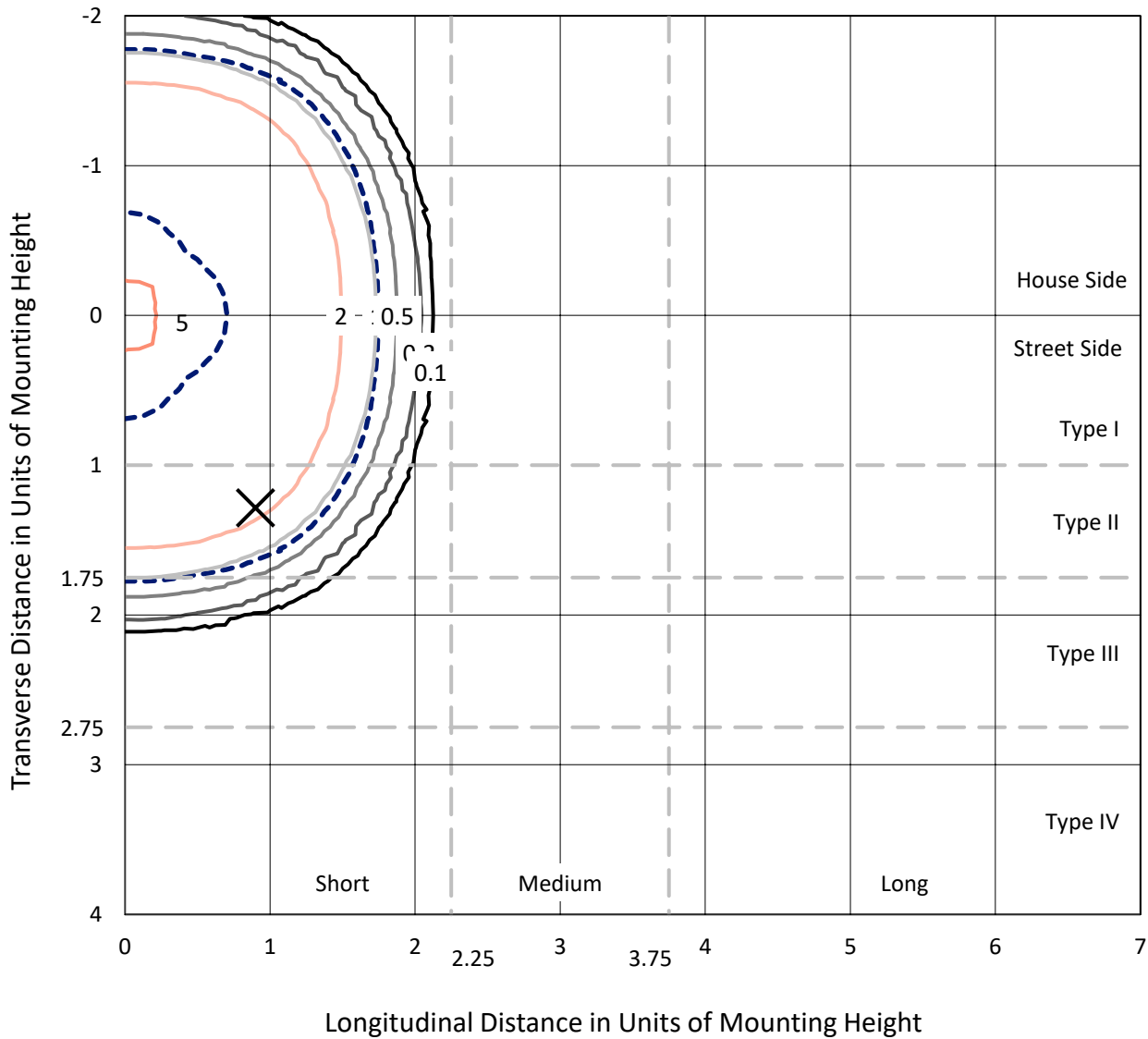


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Iso-Footcandle Lines of Horizontal Illumination

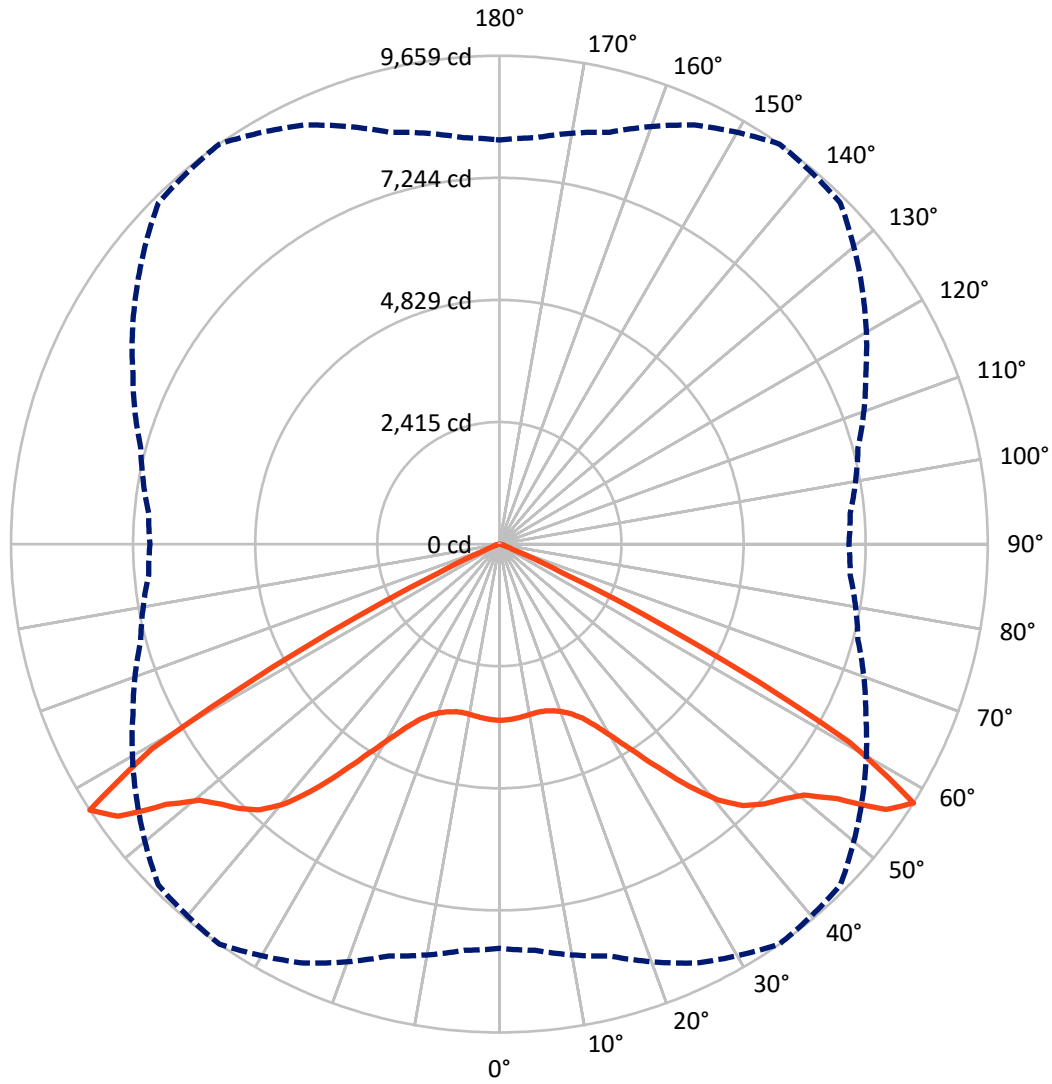
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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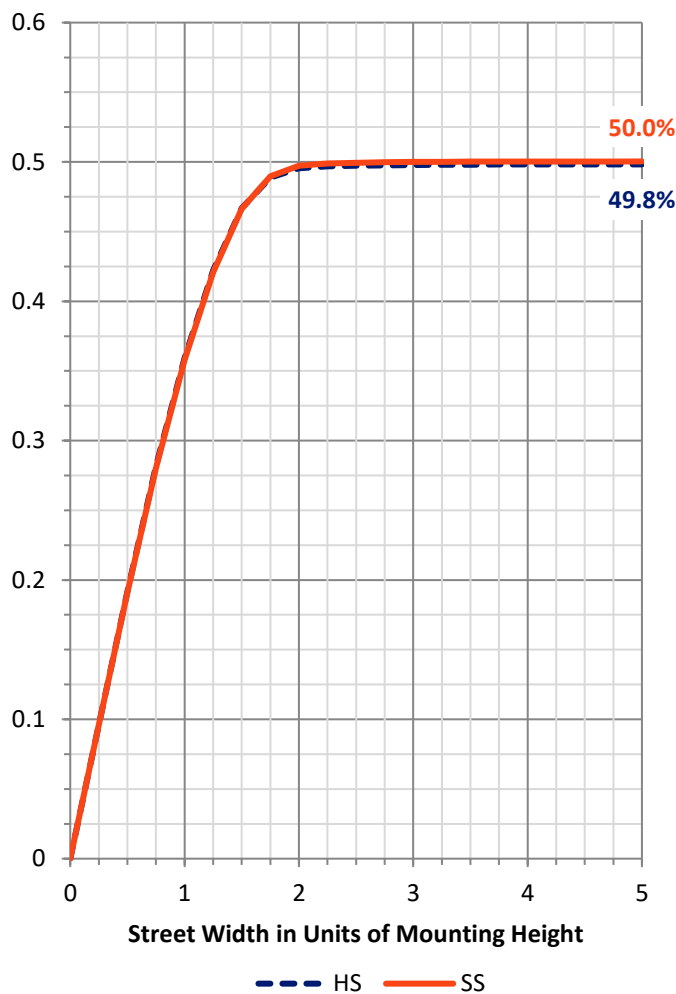
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10486.8	0.0	10486.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10486.8	0.0	10486.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	20973.6	0.0	20973.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.5	1.6
10°-20°	966.4	4.6
20°-30°	1746.8	8.3
30°-40°	3258.9	15.5
40°-50°	5466.8	26.1
50°-60°	7219.5	34.4
60°-70°	1917.3	9.1
70°-80°	68.1	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°	20973.6	100.0
0°-180°	20973.6	100.0

Coefficient of Utilization



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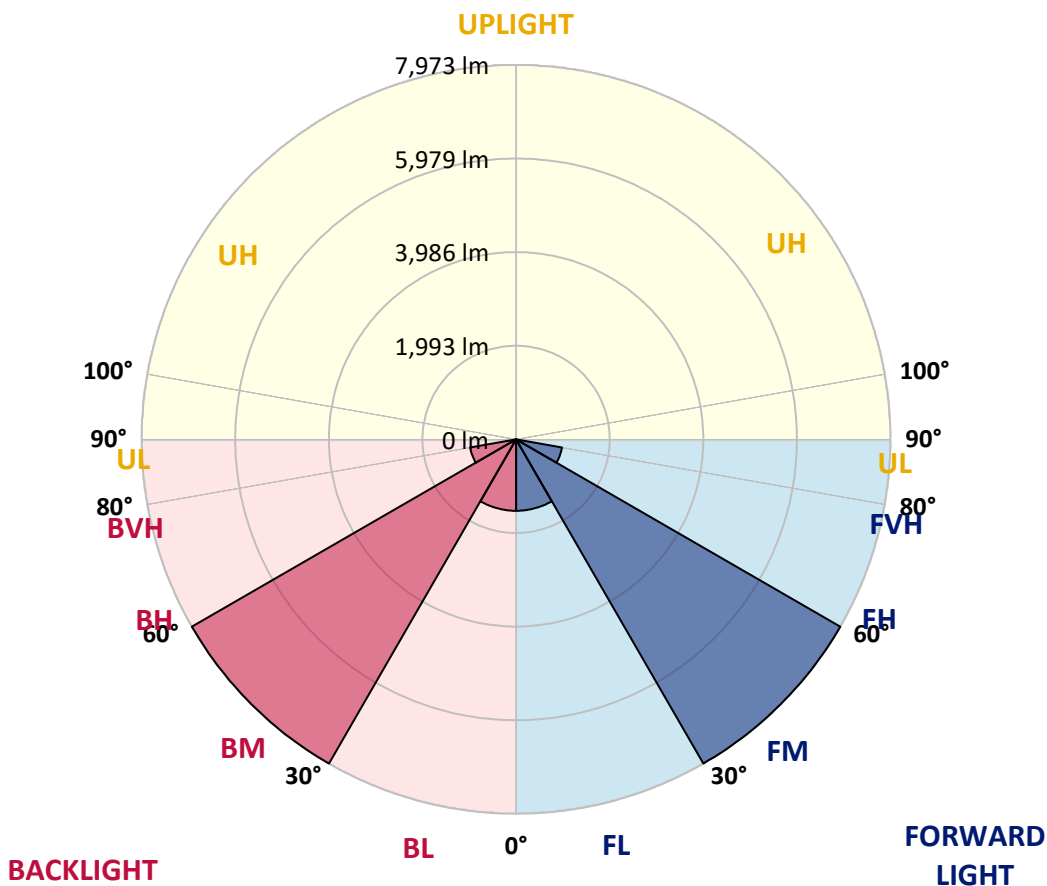
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1520.9	7.3			
FM (30°-60°)	7972.6	38.0			
FH (60°-80°)	992.7	4.7			G1/1800
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	1520.9	7.3	B3/2500		
BM (30°-60°)	7972.6	38.0	B4/8500		
BH (60°-80°)	992.7	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°	3487.0	3487.0	3487.0	3487.0	3487.0	3487.0	3487.0	3487.0	3487.0	3487.0	3487.0
2.5°	3462.4	3460.0	3469.8	3477.2	3477.2	3494.4	3489.5	3484.6	3479.7	3472.3	3489.5
5°	3457.5	3455.1	3462.4	3467.4	3462.4	3477.2	3467.4	3457.5	3452.6	3442.8	3462.4
7.5°	3435.4	3437.8	3442.8	3447.7	3440.3	3452.6	3440.3	3425.5	3413.2	3403.4	3420.6
10°	3400.9	3403.4	3408.3	3418.1	3420.6	3437.8	3420.6	3393.5	3376.3	3361.5	3378.8
12.5°	3383.7	3386.2	3393.5	3405.8	3408.3	3430.4	3408.3	3368.9	3344.3	3327.1	3344.3
15°	3388.6	3393.5	3403.4	3418.1	3423.1	3445.2	3415.7	3364.0	3329.6	3307.4	3322.2
17.5°	3405.8	3410.8	3425.5	3450.1	3467.4	3489.5	3452.6	3386.2	3339.4	3307.4	3322.2
20°	3428.0	3435.4	3460.0	3499.4	3536.3	3575.6	3528.9	3437.8	3376.3	3336.9	3349.2
22.5°	3489.5	3496.9	3531.3	3583.0	3644.5	3693.8	3637.2	3521.5	3437.8	3386.2	3398.5
25°	3615.0	3622.4	3666.7	3733.1	3811.9	3875.9	3804.5	3659.3	3551.0	3492.0	3496.9
27.5°	3811.9	3819.3	3870.9	3964.5	4070.3	4161.3	4058.0	3888.2	3765.1	3696.2	3696.2
30°	4060.4	4070.3	4139.2	4264.7	4429.6	4550.1	4409.9	4203.2	4045.7	3952.2	3954.6
32.5°	4380.3	4370.5	4468.9	4641.2	4875.0	5034.9	4828.2	4577.2	4382.8	4252.4	4264.7
35°	4791.3	4788.8	4899.6	5133.4	5438.5	5630.5	5384.4	5059.5	4825.8	4692.9	4695.3
37.5°	5320.4	5317.9	5445.9	5699.4	6066.0	6226.0	5950.4	5620.6	5369.6	5241.6	5256.4
40°	5940.5	5925.8	6039.0	6282.6	6649.3	6752.6	6452.4	6186.6	5945.5	5864.2	5903.6
42.5°	6531.1	6499.2	6565.6	6787.1	7070.1	7084.8	6858.4	6676.3	6511.5	6447.5	6472.1
45°	7006.1	6981.5	7043.0	7171.0	7333.4	7259.6	7151.3	7094.7	6961.8	6892.9	6915.0
47.5°	7360.5	7360.5	7434.3	7513.0	7537.6	7402.3	7419.5	7419.5	7286.6	7178.4	7151.3
50°	7665.6	7687.8	7798.5	7879.7	7798.5	7626.2	7724.7	7705.0	7434.3	7217.7	7161.1
52.5°	8152.9	8175.0	8344.8	8455.5	8364.5	8194.7	8207.0	7960.9	7562.2	7306.3	7217.7
55°	8669.6	8723.8	8969.9	9265.2	9267.6	9092.9	8768.1	8332.5	7847.7	7569.6	7478.6
57.5°	7992.9	8066.7	8433.4	9144.6	9658.9	9538.3	8763.2	7997.8	7343.2	6964.3	6912.6
60°	5500.0	5628.0	5994.7	6966.7	7958.4	8005.2	7089.8	6230.9	5480.4	5012.8	5022.6
62.5°	2323.1	2453.5	2660.2	3460.0	4370.5	4427.1	3984.1	3368.9	2756.2	2419.0	2470.7
65°	546.3	583.2	644.7	957.3	1387.9	1451.9	1338.7	1043.4	770.3	652.1	664.4
67.5°	238.7	243.6	231.3	246.1	305.1	312.5	302.7	265.8	251.0	255.9	255.9
70°	167.3	169.8	160.0	152.6	145.2	135.3	140.3	155.0	167.3	177.2	174.7
72.5°	103.4	105.8	108.3	108.3	100.9	91.1	96.0	105.8	108.3	110.7	108.3
75°	51.7	54.1	59.1	61.5	59.1	56.6	56.6	59.1	59.1	56.6	56.6
77.5°	9.8	12.3	17.2	19.7	19.7	19.7	19.7	19.7	22.1	19.7	19.7
80°	2.5	2.5	4.9	2.5	2.5	2.5	2.5	2.5	2.5	4.9	4.9
82.5°	2.5	2.5	2.5	2.5	0.0	0.0	2.5	2.5	2.5	2.5	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5
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)