

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: P638675

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638675
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-735-U-5MQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34752.7 lumens
Efficiency: N/A
Efficacy: 154.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

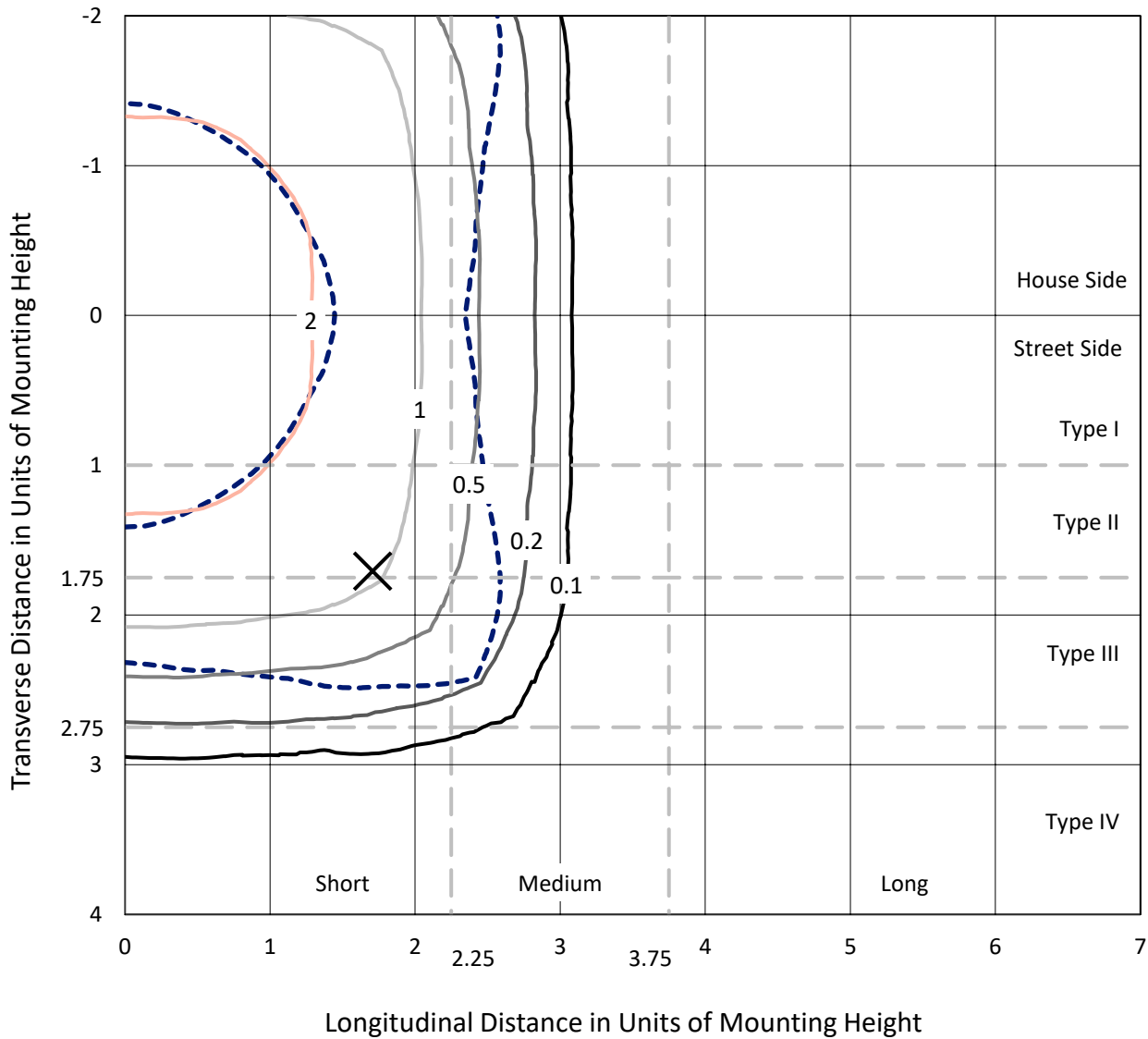
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

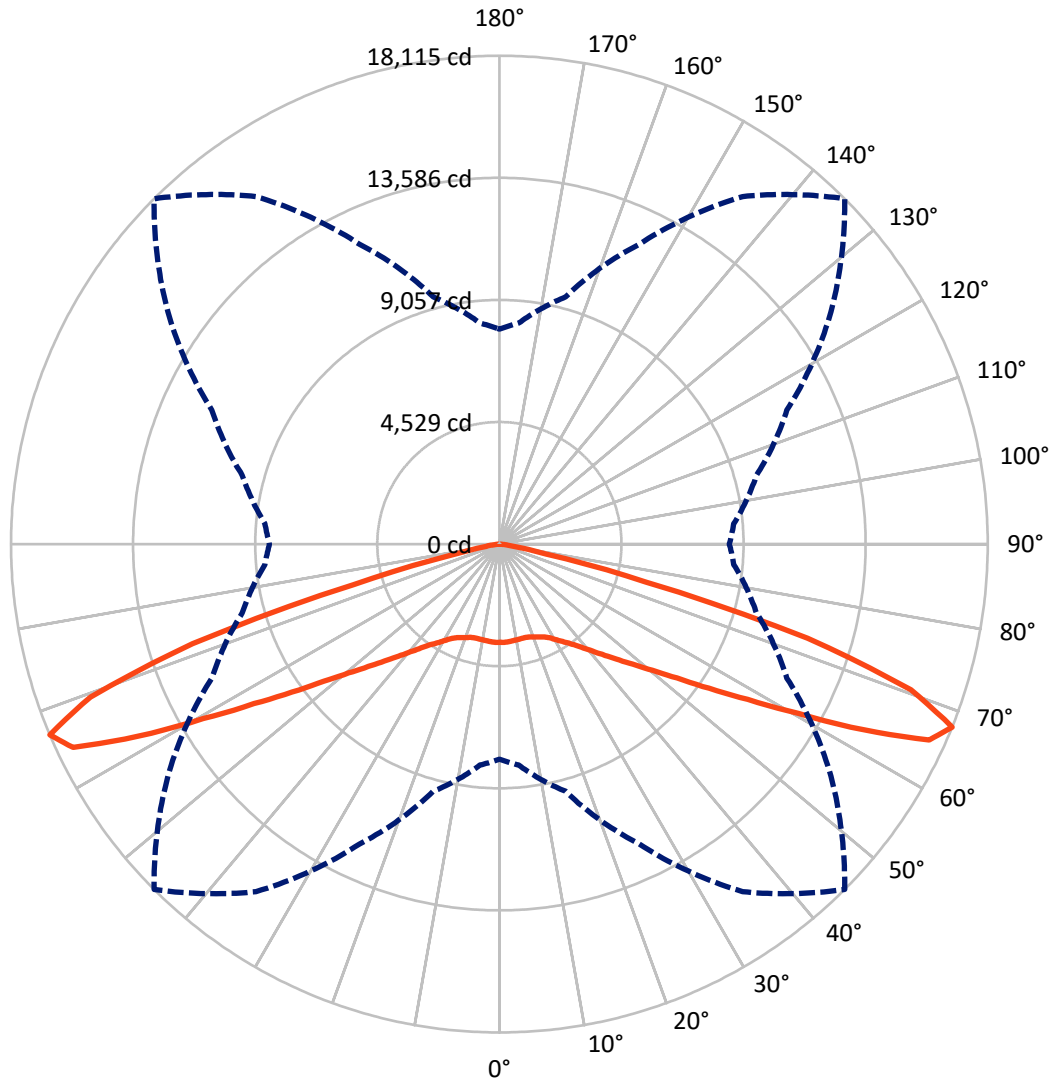
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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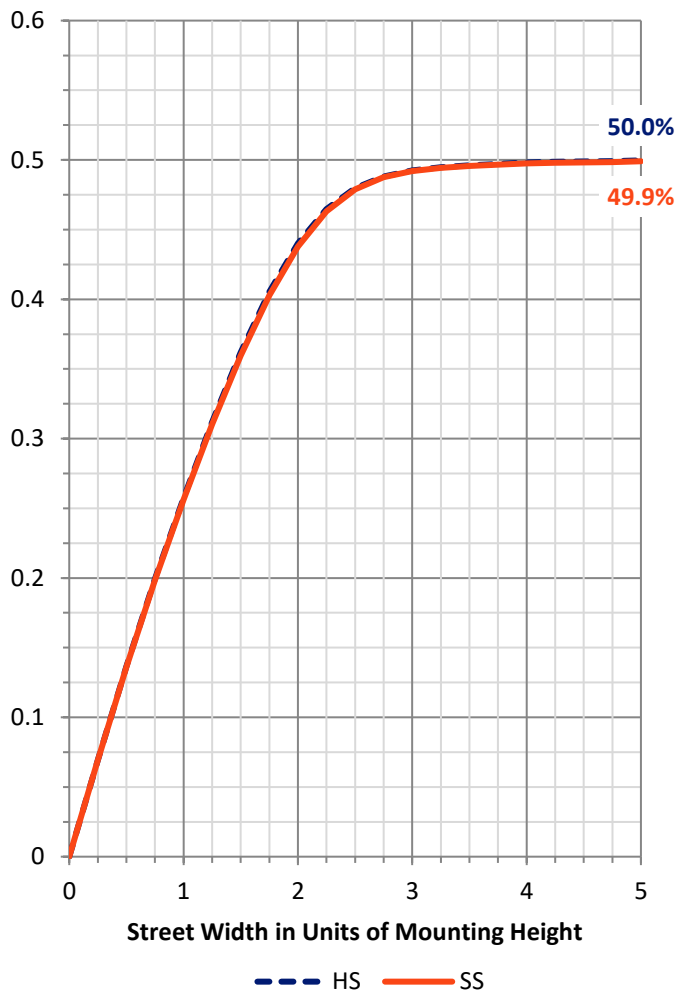
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17376.4	0.0	17376.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17376.4	0.0	17376.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	34752.7	0.0	34752.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.5	1.0
10°-20°	1011.8	2.9
20°-30°	1745.1	5.0
30°-40°	2837.5	8.2
40°-50°	4777.8	13.7
50°-60°	8465.4	24.4
60°-70°	12100.7	34.8
70°-80°	3321.1	9.6
80°-90°	148.8	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°	34752.7	100.0
0°-180°	34752.7	100.0

Coefficient of Utilization



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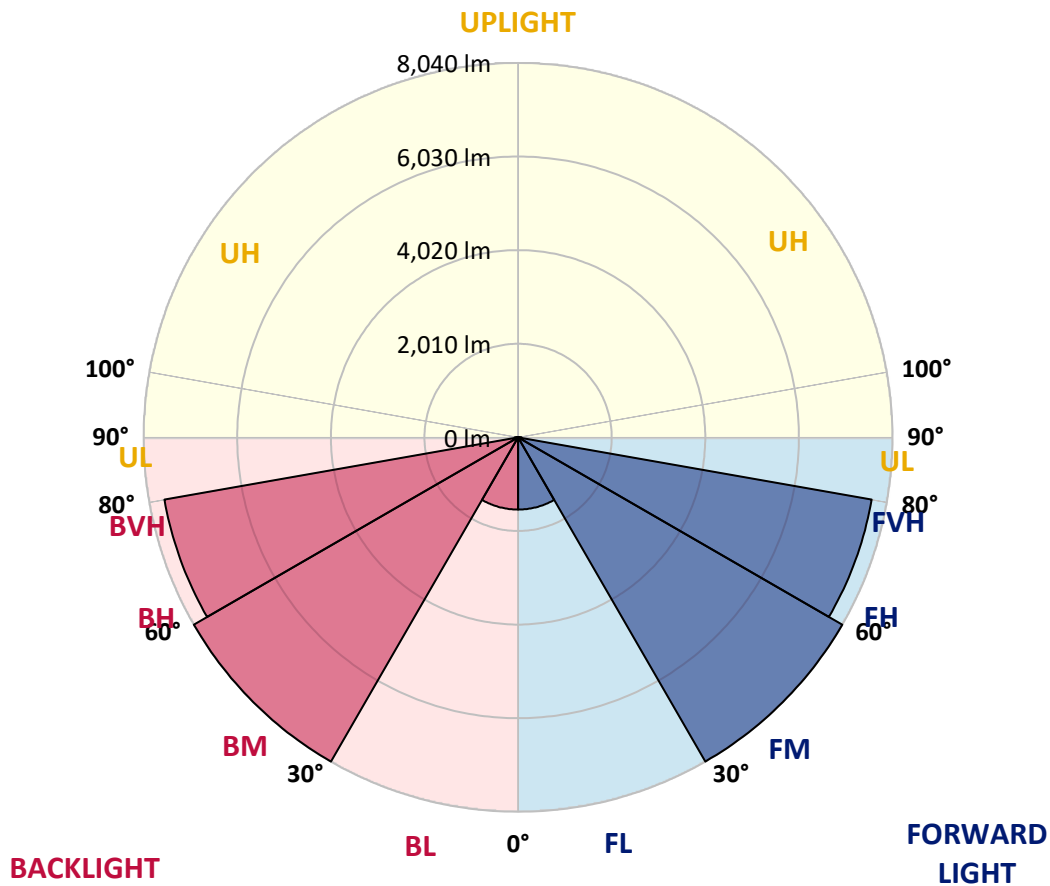
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1550.7	4.5			
FM (30°-60°)	8040.4	23.1			
FH (60°-80°)	7710.9	22.2			G4/12000
FVH (80°-90°)	74.4	0.2			G1/100
BL (0°-30°)	1550.7	4.5	B3/2500		
BM (30°-60°)	8040.4	23.1	B4/8500		
BH (60°-80°)	7710.9	22.2	B5		G4/12000
BVH (80°-90°)	74.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7	3639.7
2.5°	3615.7	3613.3	3625.3	3632.5	3630.1	3646.9	3644.5	3639.7	3639.7	3632.5	3651.8
5°	3615.7	3613.3	3622.9	3625.3	3620.5	3634.9	3630.1	3625.3	3625.3	3615.7	3632.5
7.5°	3596.4	3598.8	3606.1	3610.9	3606.1	3618.1	3610.9	3601.2	3598.8	3589.2	3606.1
10°	3560.3	3562.8	3570.0	3582.0	3584.4	3606.1	3594.0	3577.2	3570.0	3560.3	3577.2
12.5°	3538.7	3541.1	3548.3	3562.8	3567.6	3596.4	3584.4	3557.9	3545.9	3536.3	3553.1
15°	3533.9	3536.3	3545.9	3560.3	3567.6	3596.4	3584.4	3553.1	3536.3	3524.3	3538.7
17.5°	3533.9	3538.7	3553.1	3574.8	3589.2	3618.1	3603.6	3567.6	3543.5	3521.9	3536.3
20°	3536.3	3543.5	3565.2	3596.4	3632.5	3673.4	3654.2	3606.1	3572.4	3545.9	3555.5
22.5°	3557.9	3570.0	3596.4	3637.3	3690.3	3738.4	3721.5	3656.6	3608.5	3572.4	3582.0
25°	3632.5	3637.3	3671.0	3723.9	3774.4	3815.3	3798.5	3738.4	3678.2	3634.9	3646.9
27.5°	3764.8	3776.9	3805.7	3861.1	3904.4	3926.0	3923.6	3882.7	3822.6	3784.1	3793.7
30°	3923.6	3935.6	3974.1	4036.7	4080.0	4104.0	4096.8	4065.5	4010.2	3957.3	3966.9
32.5°	4108.8	4113.6	4159.4	4229.1	4274.8	4310.9	4286.9	4253.2	4183.4	4120.9	4125.7
35°	4344.6	4351.8	4399.9	4464.9	4501.0	4529.8	4525.0	4491.3	4416.8	4349.4	4366.2
37.5°	4640.5	4645.3	4688.6	4770.4	4799.3	4820.9	4825.7	4808.9	4731.9	4645.3	4662.1
40°	5008.5	5010.9	5059.1	5131.2	5162.5	5176.9	5179.3	5181.7	5102.4	5037.4	5032.6
42.5°	5436.7	5448.8	5516.1	5585.9	5600.3	5593.1	5617.2	5641.2	5564.2	5475.2	5482.5
45°	5949.1	5956.4	6047.8	6124.8	6098.3	6074.2	6119.9	6168.1	6098.3	5982.8	5949.1
47.5°	6555.4	6569.8	6668.4	6745.4	6702.1	6658.8	6733.4	6783.9	6670.8	6548.2	6516.9
50°	7241.0	7250.6	7390.1	7486.4	7435.8	7356.4	7450.3	7503.2	7351.6	7200.1	7132.7
52.5°	8051.7	8032.4	8217.7	8386.1	8354.8	8251.3	8328.3	8337.9	8111.8	7897.7	7830.4
55°	9040.4	9021.1	9206.4	9391.6	9468.6	9442.1	9406.1	9348.3	9013.9	8785.4	8722.8
57.5°	10192.7	10132.6	10392.4	10642.6	10810.9	10859.1	10705.1	10570.4	10305.8	10024.3	9952.1
60°	11263.2	11260.8	11672.2	12105.2	12567.1	12759.5	12369.8	12004.1	11409.9	10897.5	10794.1
62.5°	11563.9	11614.4	12288.0	13360.9	14501.2	15182.0	14154.8	12944.7	11797.3	11025.0	10887.9
65°	10823.0	10948.1	11905.5	13599.1	15850.8	17515.5	15196.4	12966.4	11366.6	10404.4	10260.1
67.5°	7977.1	8227.3	9495.1	12271.2	15735.3	18114.5	15011.2	11766.0	9872.7	8727.7	8528.0
70°	3935.6	4173.8	5179.3	8073.3	12947.2	16192.4	12988.0	8867.2	6668.4	5566.7	5383.8
72.5°	1448.2	1544.4	1938.9	3454.5	7144.8	11960.8	8881.6	4953.2	3230.8	2571.6	2448.9
75°	709.7	726.5	786.6	1159.5	2636.6	5629.2	4173.8	1900.5	1188.4	1034.4	1000.7
77.5°	452.3	459.5	488.3	553.3	846.8	1773.0	1265.4	750.6	582.2	558.1	558.1
80°	252.6	259.8	298.3	344.0	396.9	608.6	454.7	449.9	382.5	334.4	327.2
82.5°	120.3	132.3	190.0	187.6	209.3	305.5	267.0	243.0	245.4	185.2	175.6
85°	55.3	55.3	74.6	89.0	93.8	103.4	122.7	139.5	137.1	93.8	101.0
87.5°	26.5	26.5	26.5	24.1	21.7	19.2	26.5	43.3	62.5	43.3	40.9
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)