

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: P638840

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638840
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-760-U-5MQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35549.1 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

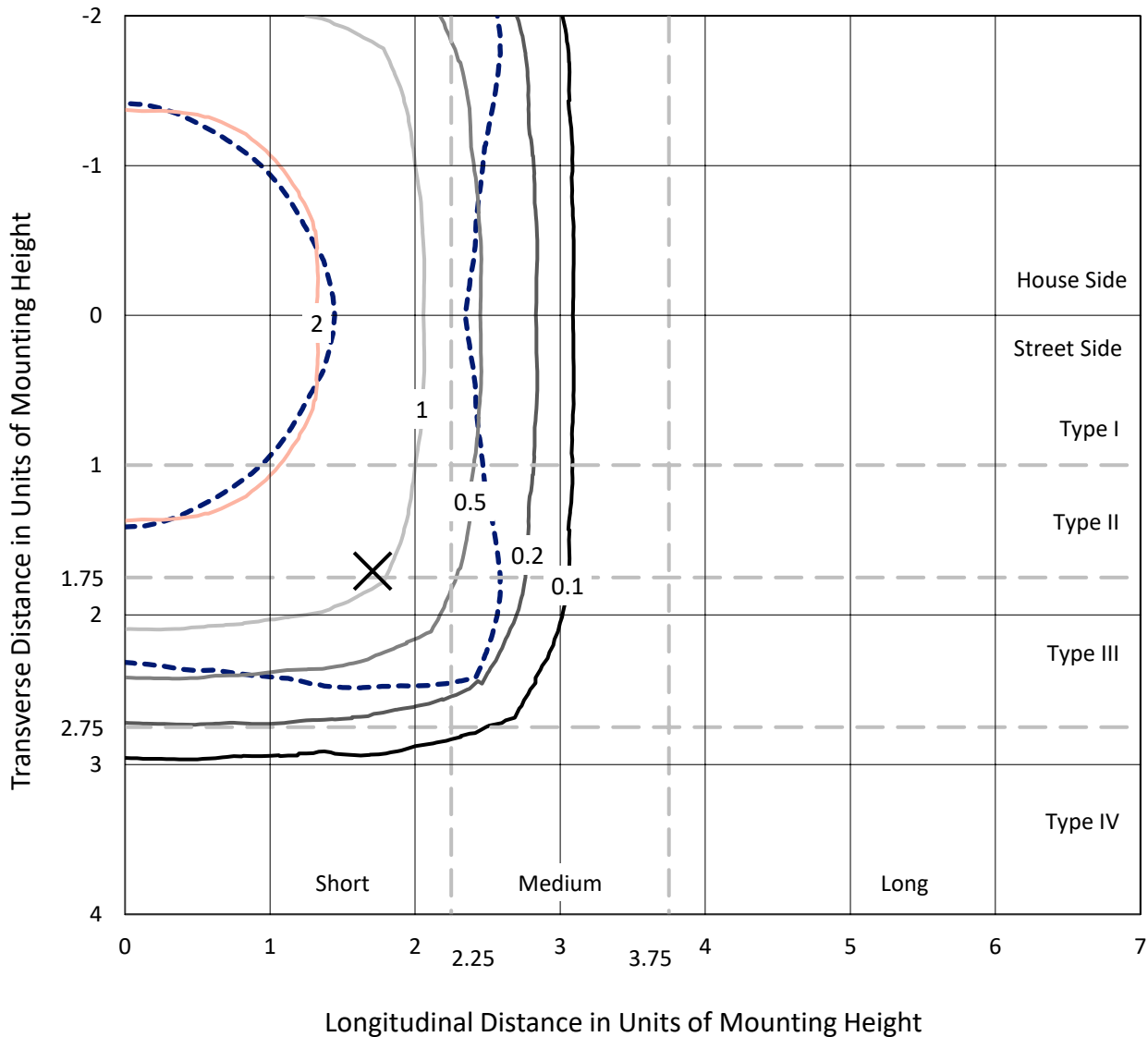
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

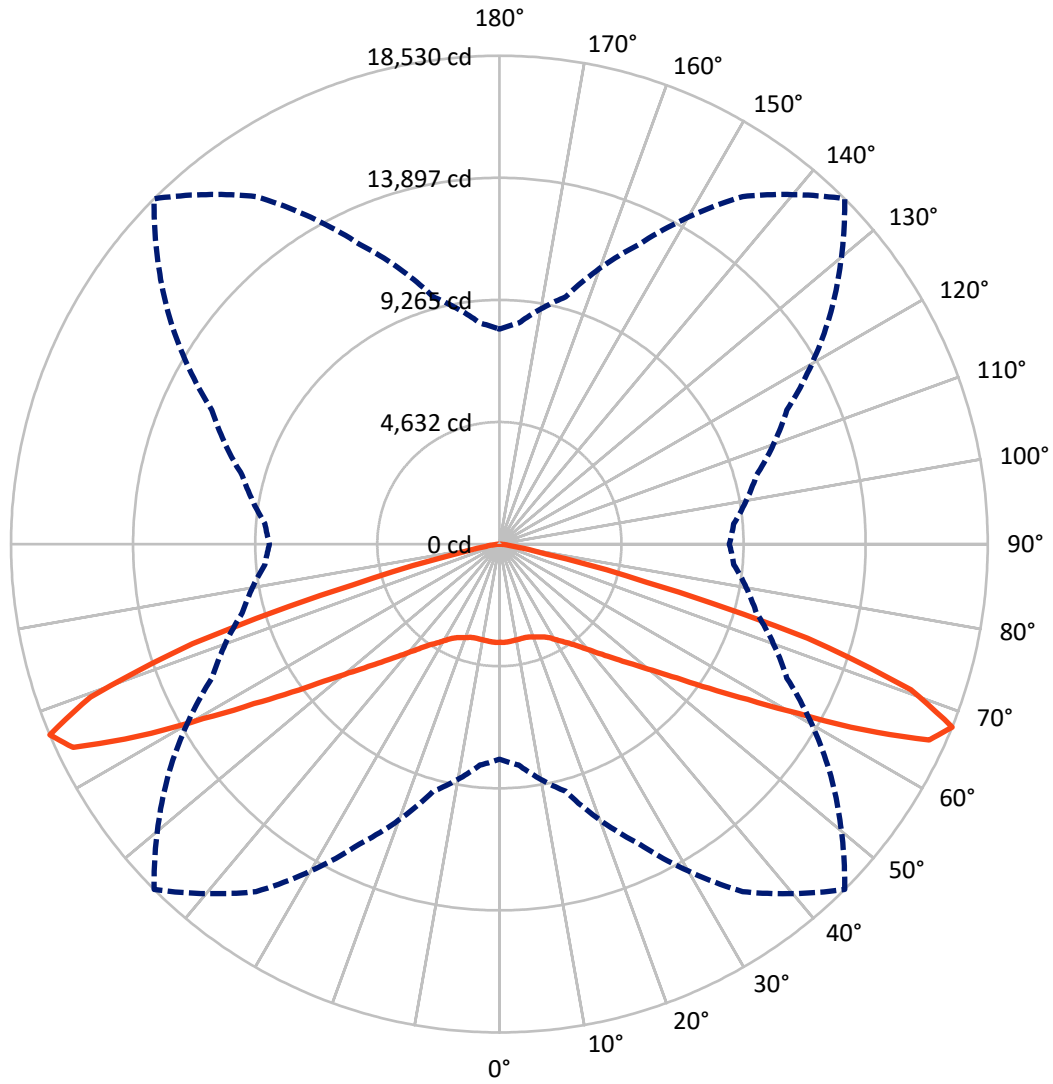
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.1 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	17774.5	0.0	17774.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17774.5	0.0	17774.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	35549.1	0.0	35549.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.4	1.0
10°-20°	1035.0	2.9
20°-30°	1785.0	5.0
30°-40°	2902.6	8.2
40°-50°	4887.3	13.7
50°-60°	8659.4	24.4
60°-70°	12378.0	34.8
70°-80°	3397.3	9.6
80°-90°	152.2	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°	35549.1	100.0
0°-180°	35549.1	100.0

Coefficient of Utilization



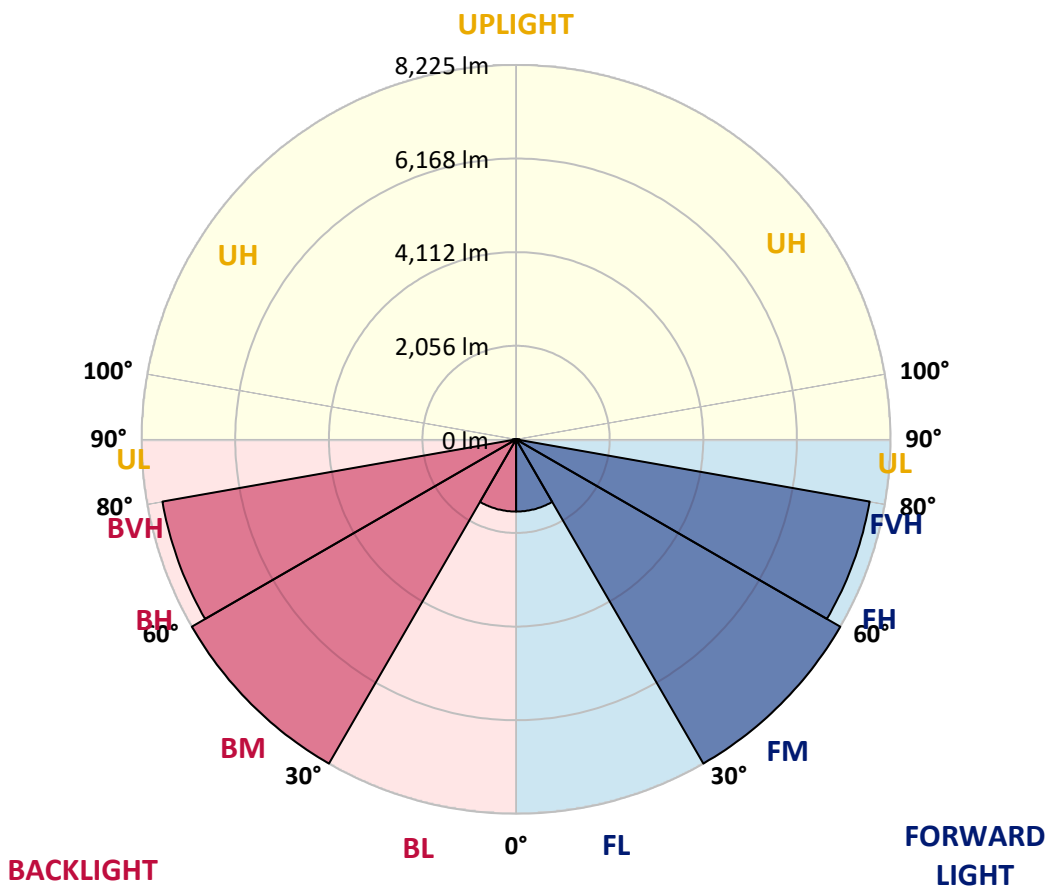
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1586.2	4.5			
FM (30°-60°)	8224.6	23.1			
FH (60°-80°)	7887.6	22.2			G4/12000
FVH (80°-90°)	76.1	0.2			G1/100
BL (0°-30°)	1586.2	4.5	B3/2500		
BM (30°-60°)	8224.6	23.1	B4/8500		
BH (60°-80°)	7887.6	22.2	B5		G4/12000
BVH (80°-90°)	76.1	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°	3723.1	3723.1	3723.1	3723.1	3723.1	3723.1	3723.1	3723.1	3723.1	3723.1	3723.1
2.5°	3698.5	3696.1	3708.4	3715.8	3713.3	3730.5	3728.1	3723.1	3723.1	3715.8	3735.4
5°	3698.5	3696.1	3705.9	3708.4	3703.5	3718.2	3713.3	3708.4	3708.4	3698.5	3715.8
7.5°	3678.8	3681.3	3688.7	3693.6	3688.7	3701.0	3693.6	3683.8	3681.3	3671.5	3688.7
10°	3641.9	3644.4	3651.8	3664.1	3666.5	3688.7	3676.4	3659.2	3651.8	3641.9	3659.2
12.5°	3619.8	3622.3	3629.6	3644.4	3649.3	3678.8	3666.5	3639.5	3627.2	3617.3	3634.6
15°	3614.9	3617.3	3627.2	3641.9	3649.3	3678.8	3666.5	3634.6	3617.3	3605.0	3619.8
17.5°	3614.9	3619.8	3634.6	3656.7	3671.5	3701.0	3686.2	3649.3	3624.7	3602.6	3617.3
20°	3617.3	3624.7	3646.9	3678.8	3715.8	3757.6	3737.9	3688.7	3654.2	3627.2	3637.0
22.5°	3639.5	3651.8	3678.8	3720.7	3774.8	3824.0	3806.8	3740.4	3691.2	3654.2	3664.1
25°	3715.8	3720.7	3755.1	3809.3	3860.9	3902.8	3885.6	3824.0	3762.5	3718.2	3730.5
27.5°	3851.1	3863.4	3892.9	3949.5	3993.8	4016.0	4013.5	3971.7	3910.2	3870.8	3880.6
30°	4013.5	4025.8	4065.2	4129.2	4173.5	4198.1	4190.7	4158.7	4102.1	4048.0	4057.8
32.5°	4203.0	4207.9	4254.7	4326.0	4372.8	4409.7	4385.1	4350.6	4279.3	4215.3	4220.2
35°	4444.1	4451.5	4500.7	4567.2	4604.1	4633.6	4628.7	4594.3	4518.0	4449.1	4466.3
37.5°	4746.8	4751.7	4796.0	4879.7	4909.2	4931.4	4936.3	4919.1	4840.3	4751.7	4769.0
40°	5123.3	5125.8	5175.0	5248.8	5280.8	5295.6	5298.0	5300.5	5219.3	5152.8	5147.9
42.5°	5561.3	5573.6	5642.5	5713.9	5728.7	5721.3	5745.9	5770.5	5691.8	5600.7	5608.1
45°	6085.5	6092.9	6186.4	6265.1	6238.0	6213.4	6260.2	6309.4	6238.0	6119.9	6085.5
47.5°	6705.6	6720.4	6821.2	6900.0	6855.7	6811.4	6887.7	6939.4	6823.7	6698.2	6666.2
50°	7406.9	7416.8	7559.5	7657.9	7606.2	7525.0	7621.0	7675.1	7520.1	7365.1	7296.2
52.5°	8236.2	8216.5	8406.0	8578.2	8546.2	8440.4	8519.2	8529.0	8297.7	8078.7	8009.8
55°	9247.6	9227.9	9417.4	9606.8	9685.6	9658.5	9621.6	9562.5	9220.5	8986.7	8922.7
57.5°	10426.3	10364.8	10630.5	10886.4	11058.7	11107.9	10950.4	10812.6	10541.9	10254.0	10180.2
60°	11521.3	11518.9	11939.6	12382.6	12855.1	13051.9	12653.3	12279.2	11671.4	11147.3	11041.5
62.5°	11828.9	11880.6	12569.6	13667.1	14833.5	15529.9	14479.2	13241.4	12067.6	11277.7	11137.4
65°	11071.0	11199.0	12178.3	13910.7	16214.0	17916.9	15544.7	13263.5	11627.1	10642.8	10495.2
67.5°	8159.9	8415.8	9712.7	12552.4	16095.9	18529.6	15355.2	12035.6	10099.0	8927.7	8723.4
70°	4025.8	4269.4	5298.0	8258.3	13243.9	16563.4	13285.7	9070.4	6821.2	5694.2	5507.2
72.5°	1481.4	1579.8	1983.4	3533.7	7308.5	12234.9	9085.2	5066.7	3304.8	2630.6	2505.1
75°	725.9	743.2	804.7	1186.1	2697.0	5758.2	4269.4	1944.0	1215.6	1058.1	1023.7
77.5°	462.6	470.0	499.5	566.0	866.2	1813.6	1294.4	767.8	595.5	570.9	570.9
80°	258.4	265.8	305.1	351.9	406.0	622.6	465.1	460.2	391.3	342.0	334.7
82.5°	123.0	135.3	194.4	191.9	214.1	312.5	273.1	248.5	251.0	189.5	179.6
85°	56.6	56.6	76.3	91.0	96.0	105.8	125.5	142.7	140.3	96.0	103.4
87.5°	27.1	27.1	27.1	24.6	22.1	19.7	27.1	44.3	64.0	44.3	41.8
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)