

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: P638786

Luminaire Tested: GWS-SA4F-750-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-750-U-5NQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24491.1 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G0

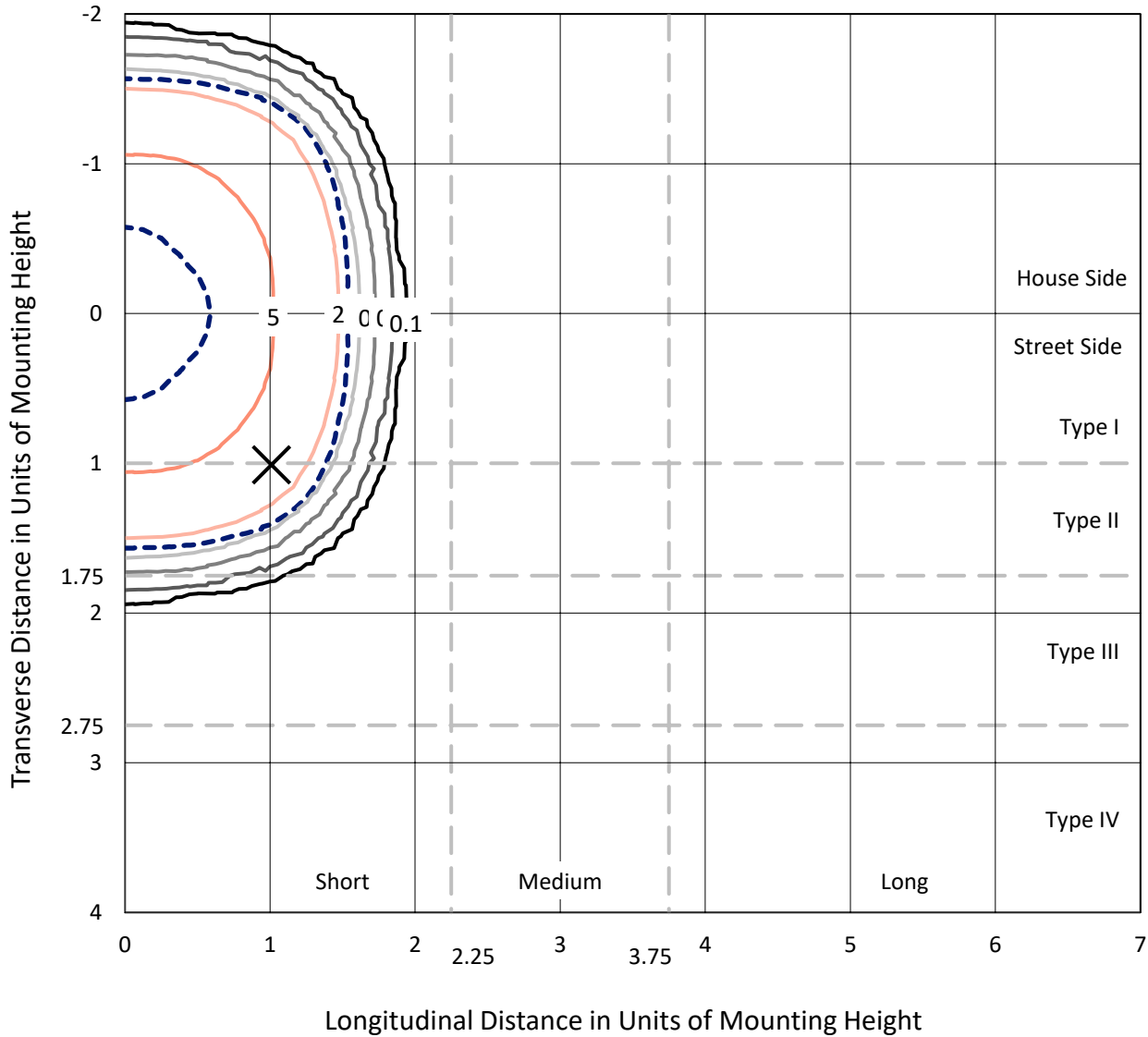
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

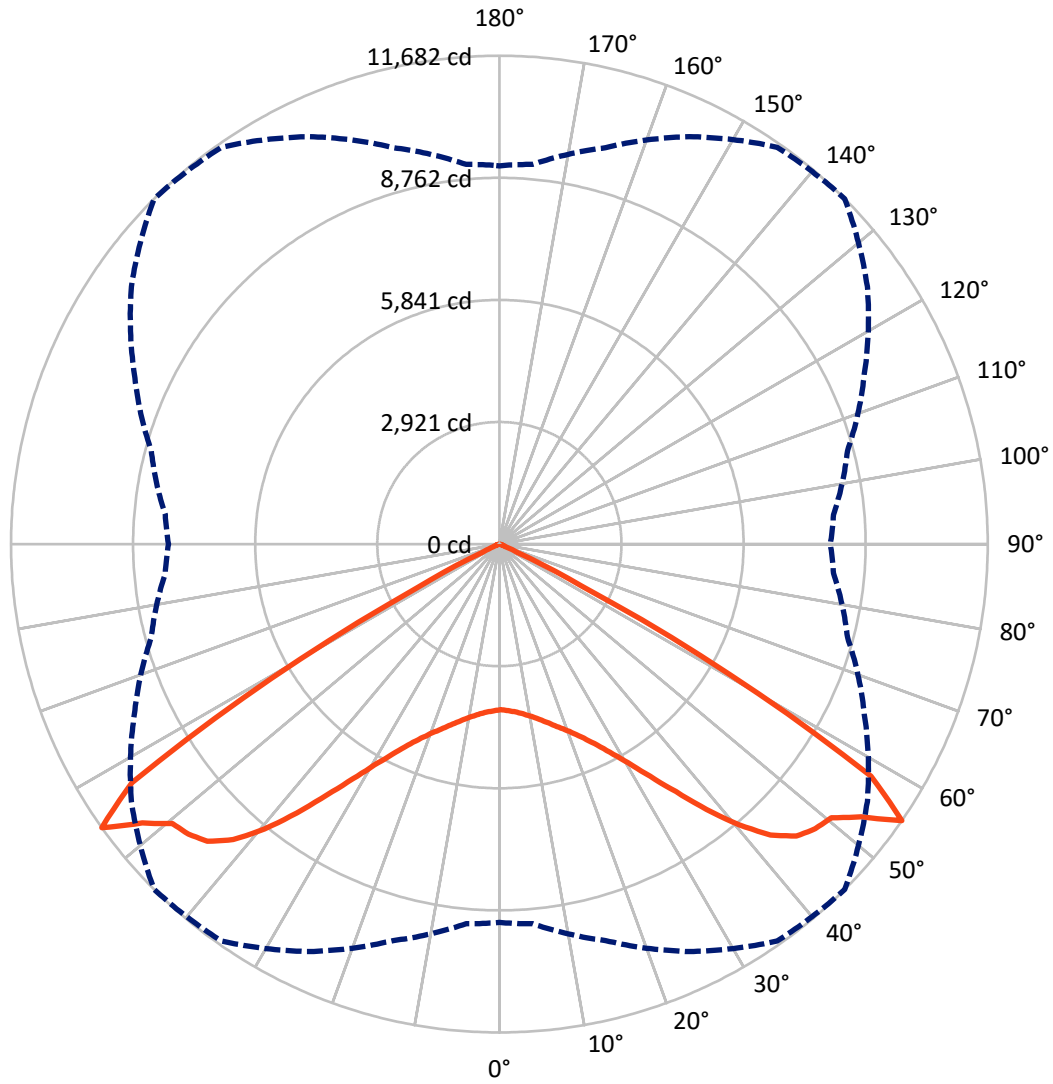
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12245.6	0.0	12245.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12245.6	0.0	12245.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	24491.1	0.0	24491.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.0	1.6
10°-20°	1257.6	5.1
20°-30°	2435.6	9.9
30°-40°	4363.4	17.8
40°-50°	7315.5	29.9
50°-60°	7830.9	32.0
60°-70°	860.5	3.5
70°-80°	37.9	0.2
80°-90°	1.8	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°	24491.1	100.0
0°-180°	24491.1	100.0

Coefficient of Utilization



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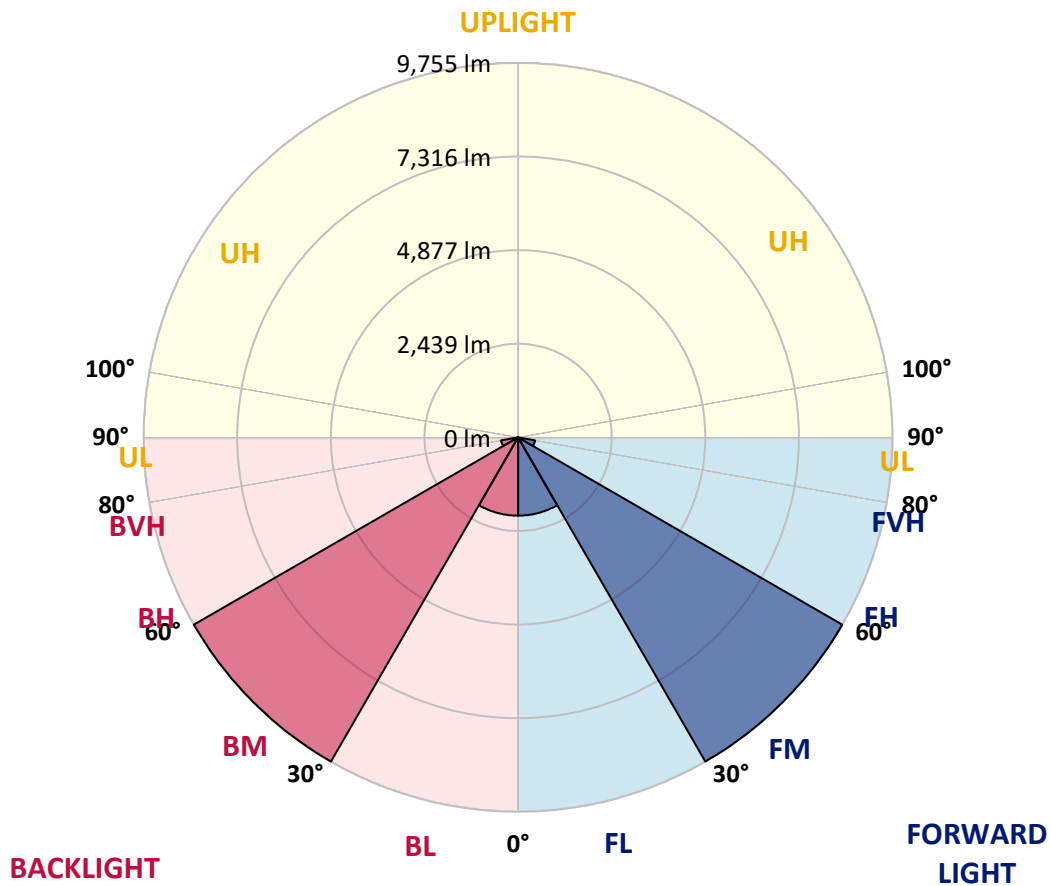
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2040.6	8.3			
FM (30°-60°)	9754.9	39.8			
FH (60°-80°)	449.2	1.8			G0/660
FVH (80°-90°)	0.9	0.0			G0/10
BL (0°-30°)	2040.6	8.3	B3/2500		
BM (30°-60°)	9754.9	39.8	B5		
BH (60°-80°)	449.2	1.8	B1/500		G0/660
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3959.7	3959.7	3959.7	3959.7	3959.7	3959.7	3959.7	3959.7	3959.7	3959.7	3959.7
2.5°	3952.3	3952.3	3962.2	3969.7	3969.7	3989.7	3982.2	3974.7	3974.7	3964.7	3984.7
5°	4009.6	4007.1	4017.1	4022.1	4012.1	4032.1	4019.6	4012.1	4007.1	3997.2	4017.1
7.5°	4072.0	4074.5	4077.0	4087.0	4082.0	4102.0	4092.0	4077.0	4072.0	4057.0	4077.0
10°	4146.9	4146.9	4151.9	4164.3	4166.8	4191.8	4181.8	4164.3	4149.4	4134.4	4154.4
12.5°	4241.7	4244.2	4251.7	4269.1	4279.1	4306.6	4291.6	4256.7	4234.2	4216.7	4239.2
15°	4378.9	4376.4	4386.4	4411.4	4423.8	4443.8	4421.3	4373.9	4346.5	4326.5	4341.5
17.5°	4528.6	4528.6	4533.6	4558.6	4576.0	4606.0	4578.5	4521.1	4496.2	4468.7	4483.7
20°	4693.3	4700.8	4705.8	4723.2	4753.2	4783.1	4760.7	4703.3	4675.8	4640.9	4658.4
22.5°	4910.4	4902.9	4905.4	4935.3	4977.7	5007.7	4990.2	4922.9	4875.4	4848.0	4858.0
25°	5152.4	5149.9	5157.4	5202.3	5249.7	5282.1	5257.2	5169.9	5122.5	5075.1	5095.0
27.5°	5449.3	5451.8	5456.8	5511.7	5586.6	5634.0	5571.6	5484.3	5419.4	5357.0	5372.0
30°	5801.1	5796.1	5811.1	5886.0	5995.7	6070.6	5998.2	5876.0	5783.7	5723.8	5731.3
32.5°	6175.4	6180.4	6220.3	6340.1	6484.8	6617.0	6469.8	6307.6	6187.9	6075.6	6090.6
35°	6579.6	6592.1	6681.9	6859.1	7096.1	7273.2	7068.6	6801.7	6632.0	6487.3	6492.3
37.5°	7056.2	7086.1	7210.9	7475.3	7814.7	8051.7	7752.3	7398.0	7178.4	6998.8	6986.3
40°	7682.4	7717.4	7887.0	8201.4	8613.1	8830.2	8483.4	8119.1	7847.1	7652.5	7622.6
42.5°	8401.0	8445.9	8630.6	8952.5	9364.1	9511.4	9172.0	8865.1	8620.6	8391.1	8381.1
45°	9211.9	9236.9	9386.6	9633.6	9930.5	9965.5	9711.0	9541.3	9294.3	9079.7	9062.2
47.5°	9973.0	9997.9	10100.2	10227.5	10297.3	10172.6	10127.6	10052.8	9733.4	9468.9	9414.0
50°	10551.8	10571.8	10699.0	10748.9	10554.3	10289.8	10377.2	10217.5	9870.7	9573.7	9488.9
52.5°	10511.9	10561.8	10888.7	11173.1	11050.8	10836.3	10601.7	10257.4	9718.5	9311.7	9207.0
55°	9049.8	9117.1	9818.3	10753.9	11589.8	11682.1	10743.9	9633.6	8620.6	8024.3	7917.0
57.5°	5816.1	5833.6	6689.4	8001.8	9885.6	10479.5	8910.0	7263.3	6003.2	5347.0	5302.1
60°	2138.3	2103.4	2749.6	3837.5	5693.8	6322.6	5244.7	3672.8	2619.9	2155.8	2118.3
62.5°	514.0	519.0	643.7	965.6	1786.5	2210.7	1746.6	975.6	621.3	521.5	516.5
65°	259.5	254.5	257.0	277.0	381.8	456.6	374.3	264.5	254.5	257.0	254.5
67.5°	167.2	164.7	169.7	172.2	169.7	159.7	157.2	162.2	162.2	164.7	159.7
70°	102.3	99.8	104.8	112.3	107.3	94.8	99.8	104.8	99.8	97.3	97.3
72.5°	54.9	54.9	59.9	64.9	59.9	54.9	54.9	57.4	54.9	54.9	54.9
75°	25.0	25.0	27.4	29.9	25.0	25.0	25.0	25.0	25.0	25.0	25.0
77.5°	7.5	7.5	10.0	10.0	7.5	7.5	7.5	7.5	10.0	10.0	10.0
80°	2.5	5.0	5.0	2.5	2.5	2.5	2.5	2.5	5.0	5.0	5.0
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	2.5	2.5	2.5	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	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)