

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: P638676

Luminaire Tested: GWS-SA4F-735-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638676
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23614.3 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G0

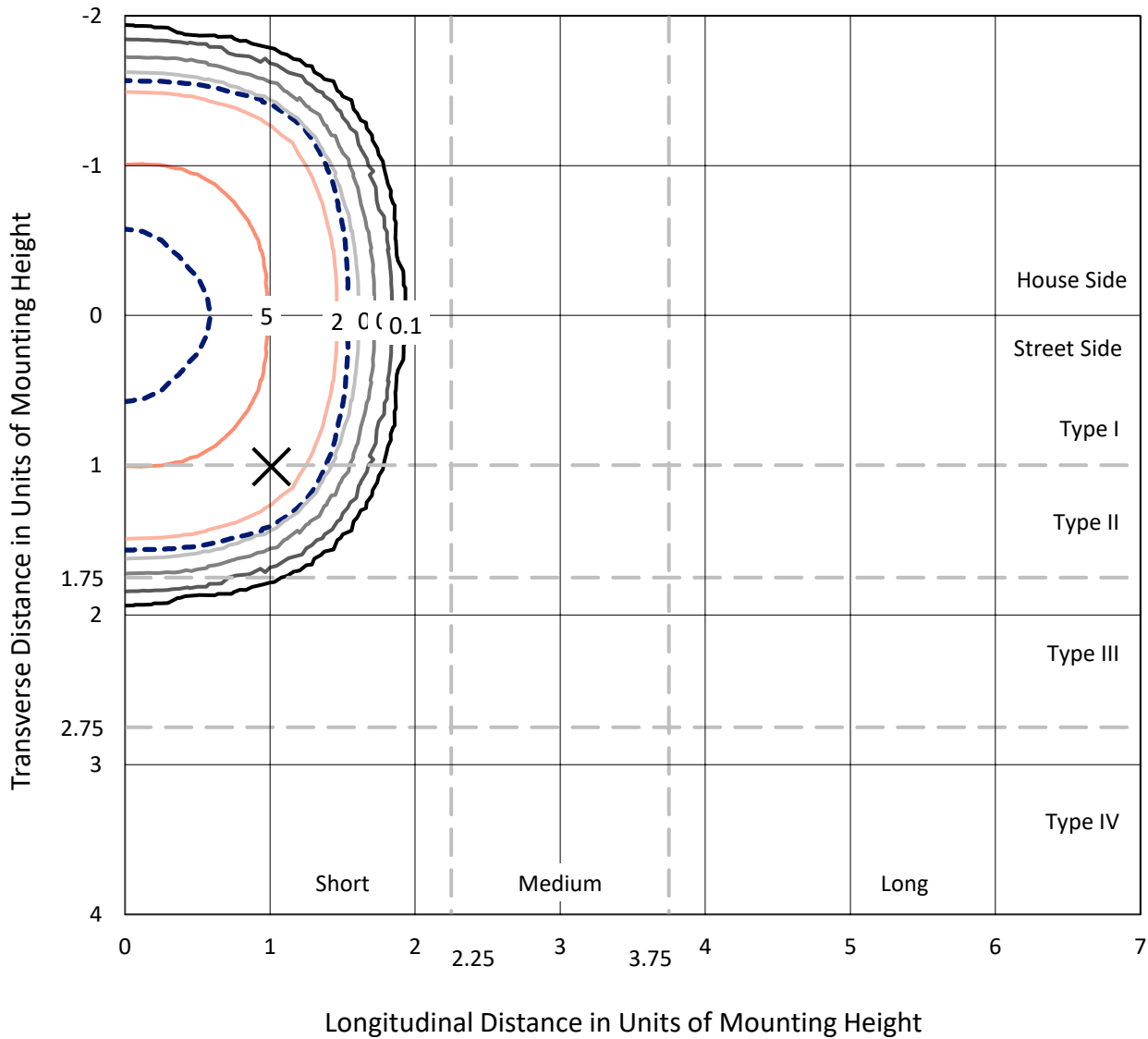
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

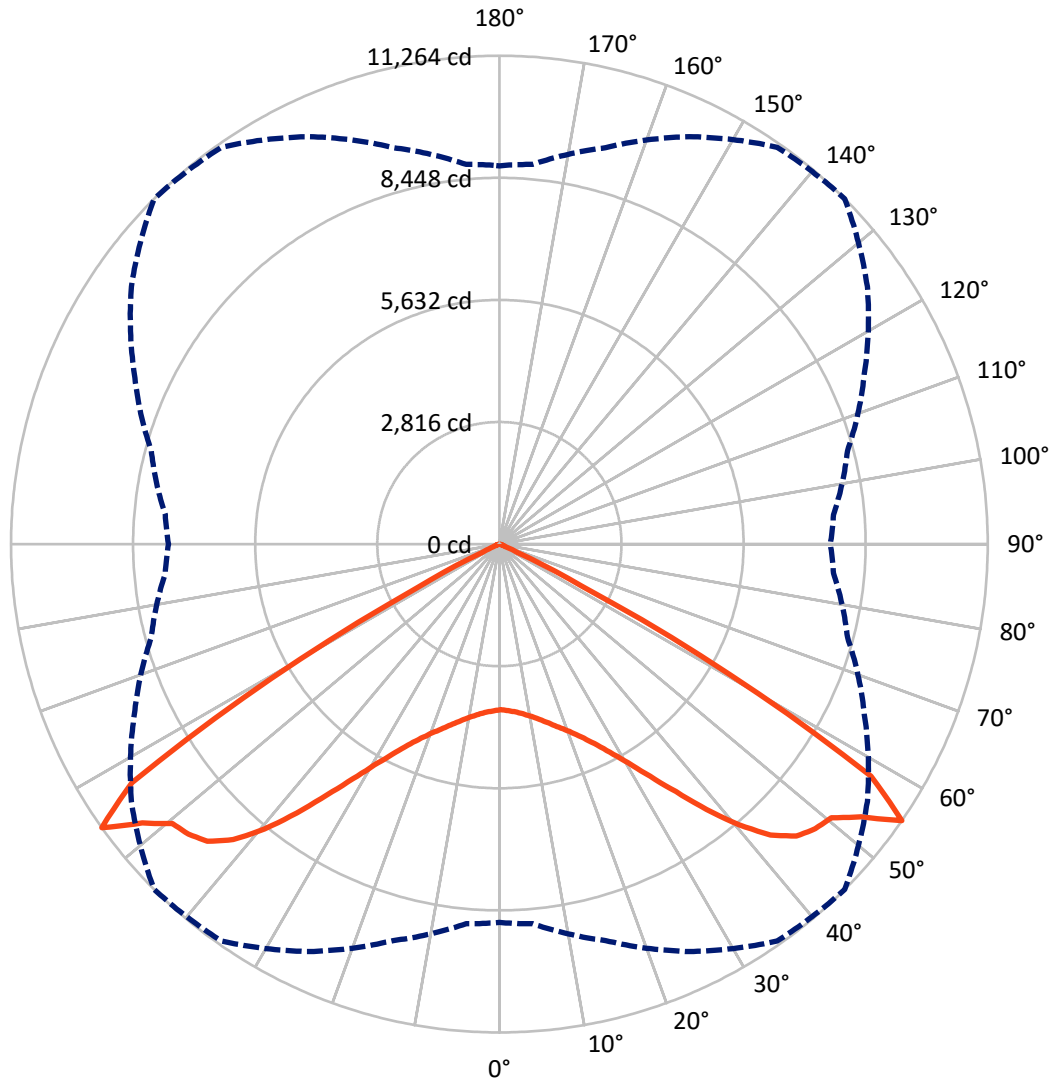
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	11807.1	0.0	11807.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11807.1	0.0	11807.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	23614.3	0.0	23614.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.1	1.6
10°-20°	1212.6	5.1
20°-30°	2348.4	9.9
30°-40°	4207.2	17.8
40°-50°	7053.6	29.9
50°-60°	7550.6	32.0
60°-70°	829.7	3.5
70°-80°	36.5	0.2
80°-90°	1.7	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°	23614.3	100.0
0°-180°	23614.3	100.0

Coefficient of Utilization



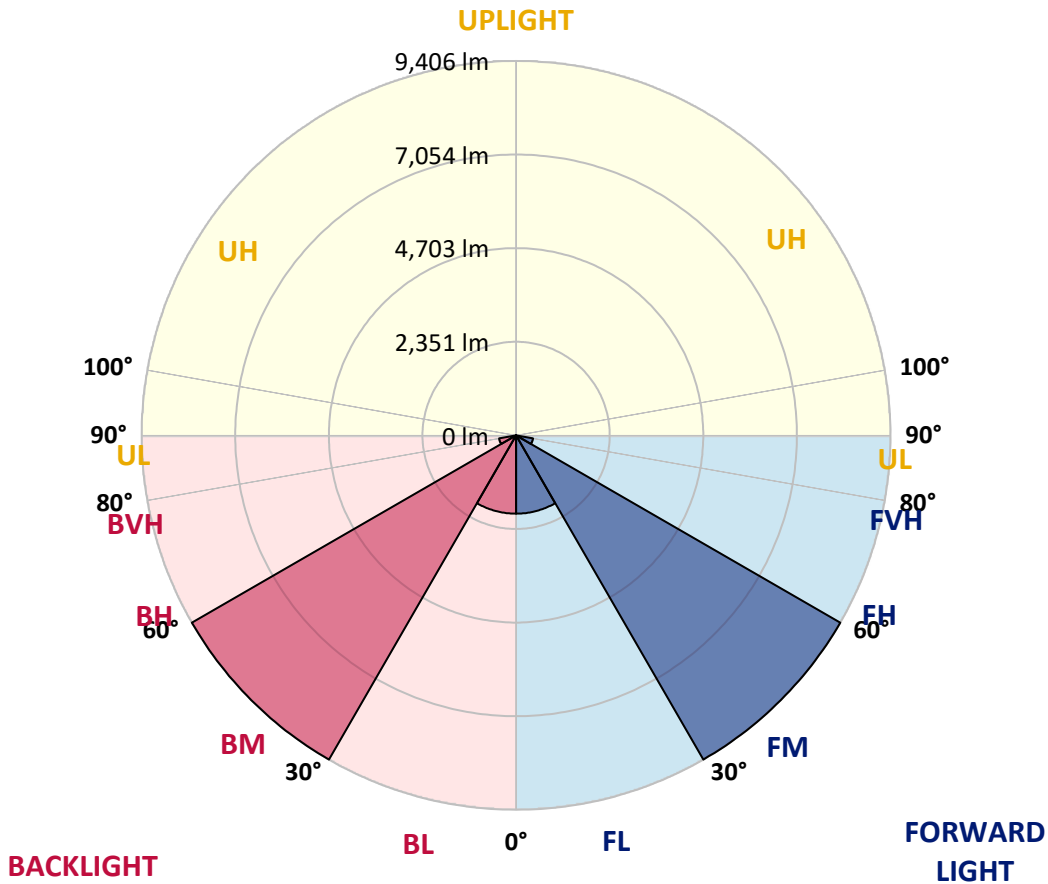
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1967.5	8.3			
FM (30°-60°)	9405.7	39.8			
FH (60°-80°)	433.1	1.8			G0/660
FVH (80°-90°)	0.8	0.0			G0/10
BL (0°-30°)	1967.5	8.3	B3/2500		
BM (30°-60°)	9405.7	39.8	B5		
BH (60°-80°)	433.1	1.8	B1/500		G0/660
BVH (80°-90°)	0.8	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°	3818.0	3818.0	3818.0	3818.0	3818.0	3818.0	3818.0	3818.0	3818.0	3818.0	3818.0
2.5°	3810.8	3810.8	3820.4	3827.6	3827.6	3846.8	3839.6	3832.4	3832.4	3822.8	3842.0
5°	3866.1	3863.7	3873.3	3878.1	3868.5	3887.7	3875.7	3868.5	3863.7	3854.1	3873.3
7.5°	3926.2	3928.6	3931.0	3940.7	3935.9	3955.1	3945.5	3931.0	3926.2	3911.8	3931.0
10°	3998.4	3998.4	4003.2	4015.3	4017.7	4041.7	4032.1	4015.3	4000.8	3986.4	4005.6
12.5°	4089.8	4092.2	4099.5	4116.3	4125.9	4152.4	4137.9	4104.3	4082.6	4065.8	4087.4
15°	4222.1	4219.7	4229.4	4253.4	4265.5	4284.7	4263.0	4217.3	4190.9	4171.6	4186.1
17.5°	4366.5	4366.5	4371.3	4395.4	4412.2	4441.1	4414.6	4359.3	4335.2	4308.8	4323.2
20°	4525.3	4532.5	4537.3	4554.1	4583.0	4611.9	4590.2	4534.9	4508.4	4474.8	4491.6
22.5°	4734.6	4727.4	4729.8	4758.6	4799.5	4828.4	4811.6	4746.6	4700.9	4674.4	4684.1
25°	4967.9	4965.5	4972.8	5016.1	5061.8	5093.0	5069.0	4984.8	4939.1	4893.4	4912.6
27.5°	5254.2	5256.6	5261.4	5314.4	5386.5	5432.3	5372.1	5287.9	5225.4	5165.2	5179.7
30°	5593.4	5588.6	5603.1	5675.2	5781.1	5853.3	5783.5	5665.6	5576.6	5518.9	5526.1
32.5°	5954.3	5959.1	5997.6	6113.1	6252.6	6380.1	6238.2	6081.8	5966.3	5858.1	5872.5
35°	6344.0	6356.1	6442.7	6613.5	6842.0	7012.9	6815.6	6558.2	6394.6	6255.0	6259.8
37.5°	6803.6	6832.4	6952.7	7207.7	7534.9	7763.5	7474.8	7133.1	6921.4	6748.2	6736.2
40°	7407.4	7441.1	7604.7	7907.8	8304.8	8514.1	8179.7	7828.4	7566.2	7378.5	7349.7
42.5°	8100.3	8143.6	8321.6	8631.9	9028.9	9170.8	8843.7	8547.7	8312.0	8090.6	8081.0
45°	8882.1	8906.2	9050.6	9288.7	9575.0	9608.7	9363.3	9199.7	8961.5	8754.6	8737.8
47.5°	9615.9	9640.0	9738.6	9861.3	9928.7	9808.4	9765.1	9692.9	9385.0	9129.9	9077.0
50°	10174.1	10193.3	10316.0	10364.1	10176.5	9921.4	10005.7	9851.7	9517.3	9231.0	9149.2
52.5°	10135.6	10183.7	10498.8	10773.1	10655.2	10448.3	10222.2	9890.2	9370.5	8978.4	8877.3
55°	8725.8	8790.7	9466.8	10368.9	11174.9	11263.9	10359.3	9288.7	8312.0	7737.0	7633.5
57.5°	5607.9	5624.7	6449.9	7715.3	9531.7	10104.3	8591.1	7003.2	5788.3	5155.6	5112.3
60°	2061.8	2028.1	2651.2	3700.1	5490.0	6096.3	5057.0	3541.3	2526.1	2078.6	2042.5
62.5°	495.6	500.4	620.7	931.0	1722.5	2131.5	1684.0	940.7	599.0	502.8	498.0
65°	250.2	245.4	247.8	267.0	368.1	440.3	360.9	255.0	245.4	247.8	245.4
67.5°	161.2	158.8	163.6	166.0	163.6	154.0	151.6	156.4	156.4	158.8	154.0
70°	98.6	96.2	101.0	108.3	103.4	91.4	96.2	101.0	96.2	93.8	93.8
72.5°	52.9	52.9	57.7	62.6	57.7	52.9	52.9	55.3	52.9	52.9	52.9
75°	24.1	24.1	26.5	28.9	24.1	24.1	24.1	24.1	24.1	24.1	24.1
77.5°	7.2	7.2	9.6	9.6	7.2	7.2	7.2	7.2	9.6	9.6	9.6
80°	2.4	4.8	4.8	2.4	2.4	2.4	2.4	2.4	4.8	4.8	4.8
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
85°	2.4	2.4	2.4	0.0	0.0	0.0	0.0	2.4	2.4	2.4	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	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)