

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: P638512

Luminaire Tested: GWS-SA4F-722-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-722-U-5NQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22720.4 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

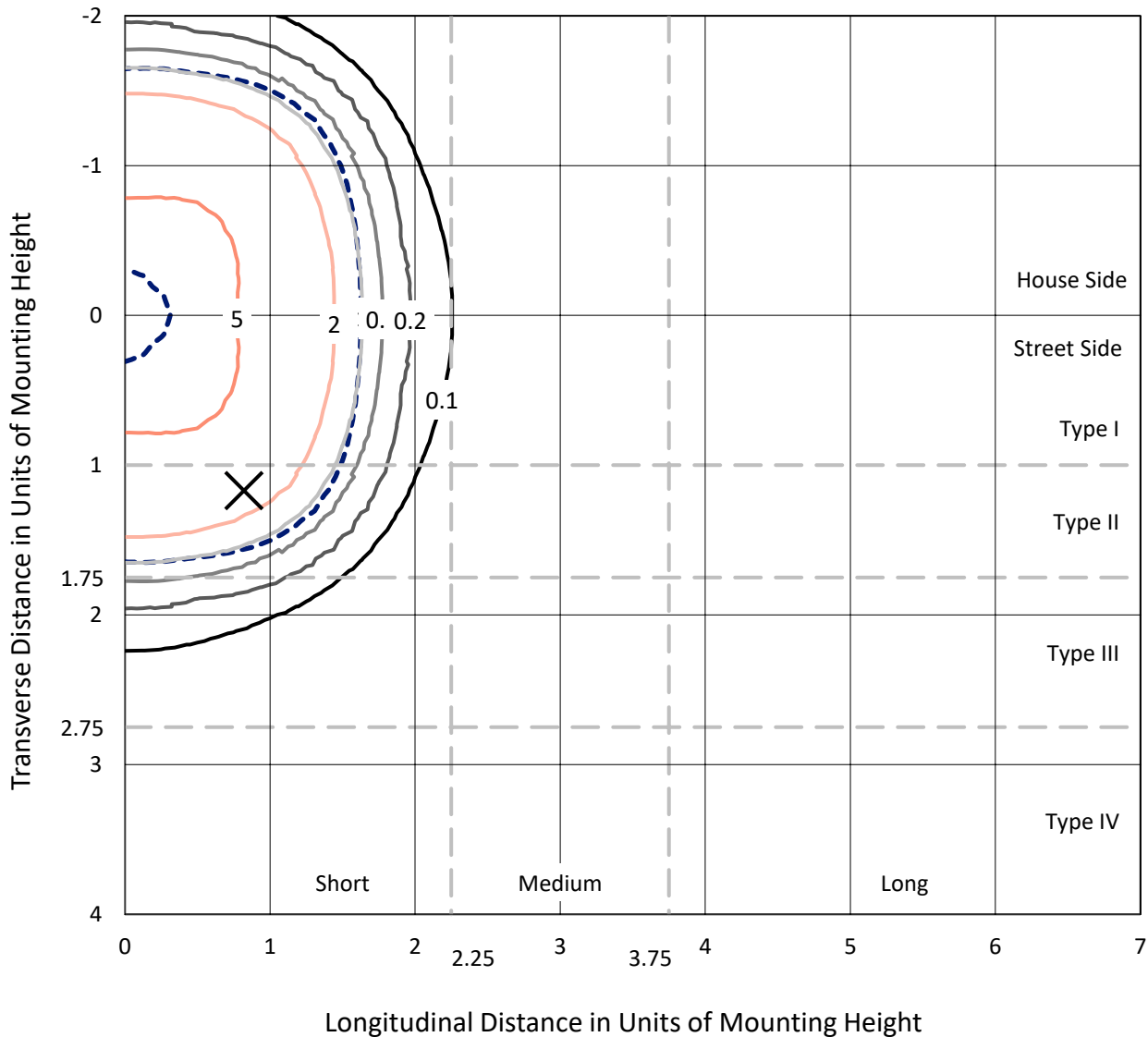
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

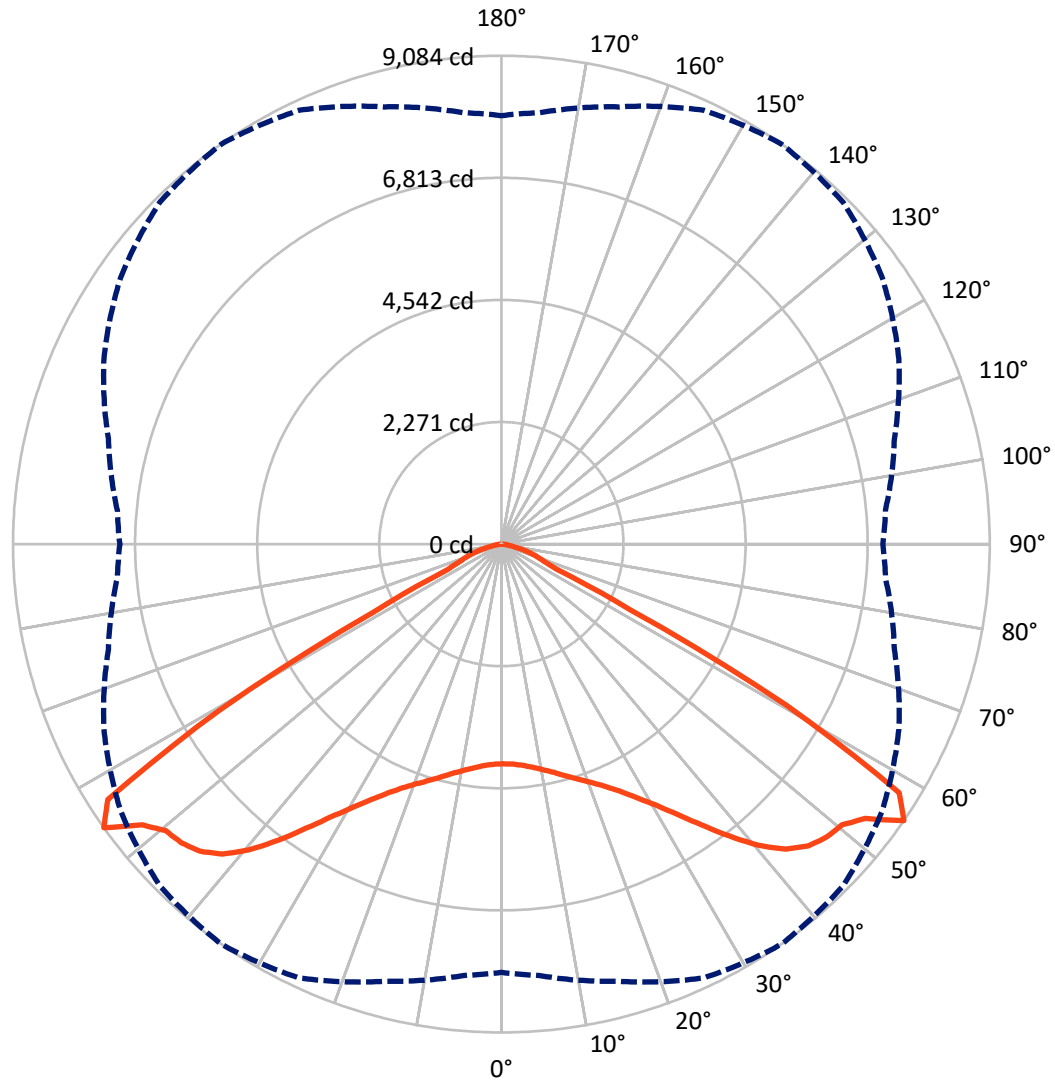
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11360.2	0.0	11360.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11360.2	0.0	11360.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	22720.4	0.0	22720.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.7	1.8
10°-20°	1269.3	5.6
20°-30°	2349.2	10.3
30°-40°	3929.8	17.3
40°-50°	5988.4	26.4
50°-60°	6708.2	29.5
60°-70°	1587.2	7.0
70°-80°	427.9	1.9
80°-90°	61.6	0.3
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°	22720.4	100.0
0°-180°	22720.4	100.0

Coefficient of Utilization



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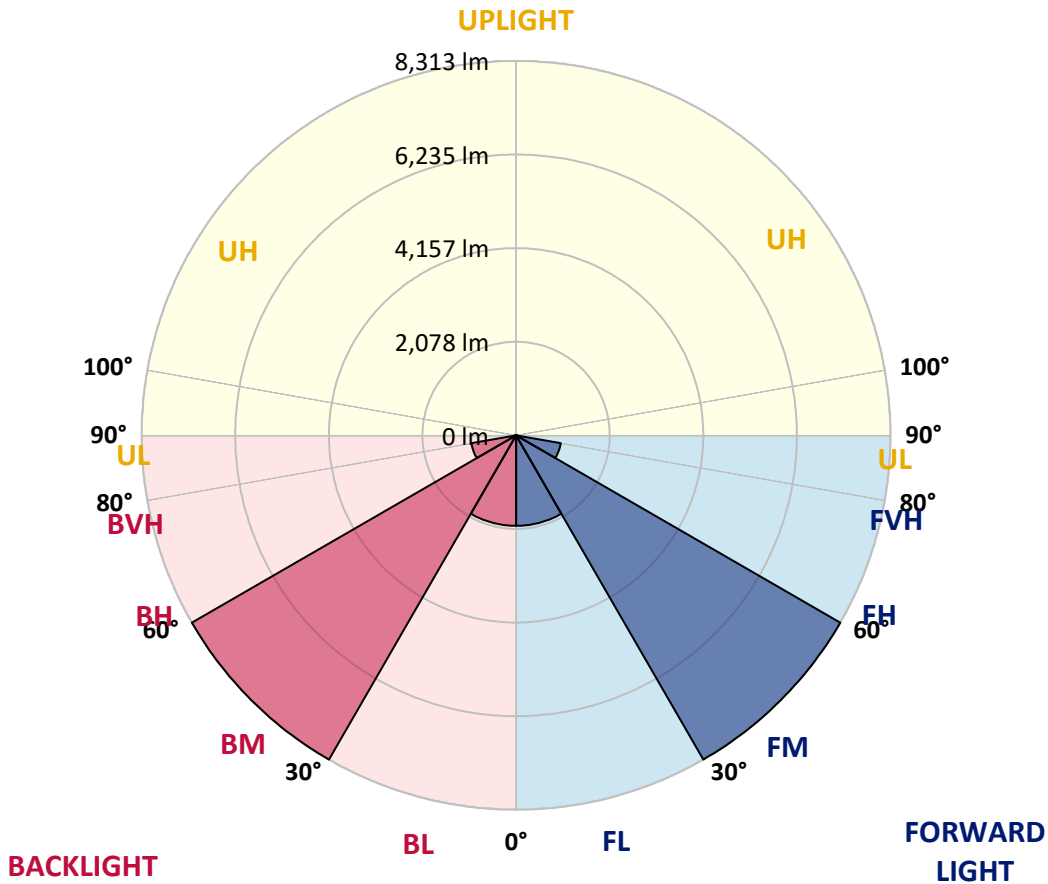
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2008.6	8.8			
FM (30°-60°)	8313.2	36.6			
FH (60°-80°)	1007.6	4.4			G1/1800
FVH (80°-90°)	30.8	0.1			G1/100
BL (0°-30°)	2008.6	8.8	B3/2500		
BM (30°-60°)	8313.2	36.6	B4/8500		
BH (60°-80°)	1007.6	4.4	B3/2500		G1/1800
BVH (80°-90°)	30.8	0.1			G1/100
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°	4087.5	4087.5	4087.5	4087.5	4087.5	4087.5	4087.5	4087.5	4087.5	4087.5	4087.5
2.5°	4078.5	4078.5	4085.7	4094.6	4096.4	4114.4	4110.8	4103.6	4100.0	4092.9	4109.0
5°	4123.4	4125.2	4130.6	4136.0	4132.4	4146.8	4141.4	4132.4	4127.0	4118.0	4134.2
7.5°	4182.7	4182.7	4188.1	4195.3	4191.7	4213.2	4202.4	4189.9	4180.9	4170.1	4184.5
10°	4236.6	4240.2	4245.6	4259.9	4267.1	4290.5	4283.3	4265.3	4251.0	4238.4	4254.6
12.5°	4317.4	4321.0	4326.4	4346.2	4358.8	4382.1	4371.3	4346.2	4324.6	4306.7	4324.6
15°	4421.6	4418.1	4432.4	4457.6	4473.7	4495.3	4482.7	4439.6	4410.9	4387.5	4405.5
17.5°	4527.6	4525.9	4540.2	4572.6	4595.9	4624.7	4603.1	4552.8	4522.3	4493.5	4511.5
20°	4642.6	4648.0	4662.4	4692.9	4727.1	4764.8	4746.8	4692.9	4658.8	4626.5	4640.8
22.5°	4784.6	4786.4	4802.5	4842.1	4887.0	4922.9	4912.1	4845.7	4802.5	4768.4	4786.4
25°	4955.3	4953.5	4975.0	5021.7	5084.6	5120.6	5097.2	5023.5	4976.8	4937.3	4951.7
27.5°	5151.1	5149.3	5181.6	5242.7	5332.6	5382.9	5334.4	5242.7	5178.0	5122.4	5134.9
30°	5397.2	5391.9	5427.8	5510.4	5627.2	5711.7	5639.8	5512.2	5427.8	5368.5	5381.1
32.5°	5670.3	5677.5	5722.4	5833.8	5981.2	6090.8	5983.0	5841.0	5727.8	5641.6	5656.0
35°	5970.4	5970.4	6062.0	6200.4	6410.6	6556.1	6389.0	6184.2	6033.3	5914.7	5918.3
37.5°	6304.6	6308.2	6428.5	6619.0	6893.9	7064.6	6838.2	6584.9	6401.6	6274.0	6266.8
40°	6712.4	6723.2	6847.2	7059.2	7368.2	7524.5	7282.0	7034.0	6847.2	6696.2	6681.9
42.5°	7172.4	7176.0	7307.1	7497.6	7758.1	7851.5	7661.1	7458.0	7305.3	7168.8	7154.4
45°	7610.8	7601.8	7715.0	7856.9	8007.8	8016.8	7910.8	7828.2	7695.2	7578.4	7556.9
47.5°	7952.1	7944.9	8047.4	8124.6	8142.6	8054.5	8088.7	8101.3	7946.7	7788.6	7747.3
50°	8160.5	8174.9	8271.9	8315.1	8209.1	8065.3	8194.7	8162.3	7941.4	7734.7	7668.3
52.5°	8286.3	8307.9	8476.8	8586.4	8476.8	8340.2	8358.2	8167.7	7849.7	7576.6	7490.4
55°	7968.3	8054.5	8419.3	8904.4	9084.0	8988.8	8647.5	8157.0	7567.6	7170.6	7096.9
57.5°	5905.7	6042.3	6583.1	7634.1	8726.5	9073.3	8076.1	6838.2	5945.2	5435.0	5391.9
60°	3014.8	3167.6	3600.6	4680.4	6085.4	6574.1	5625.4	4378.5	3480.2	3066.9	3020.2
62.5°	1230.7	1255.9	1397.8	1814.7	2689.6	3102.9	2725.6	1913.5	1437.3	1324.2	1326.0
65°	968.4	973.8	966.6	991.8	1126.5	1250.5	1155.3	1015.1	990.0	1002.6	993.6
67.5°	844.4	846.2	840.8	840.8	846.2	840.8	851.6	857.0	860.6	875.0	866.0
70°	706.1	707.9	707.9	711.5	709.7	700.7	716.9	724.1	725.9	734.8	729.5
72.5°	546.2	551.6	555.2	557.0	555.2	549.8	558.8	571.3	569.5	578.5	569.5
75°	370.1	377.3	380.9	388.1	386.3	386.3	397.1	402.5	397.1	404.3	397.1
77.5°	210.2	215.6	226.4	233.6	240.8	246.1	253.3	256.9	255.1	258.7	255.1
80°	122.2	124.0	133.0	136.5	145.5	154.5	161.7	165.3	167.1	168.9	167.1
82.5°	70.1	71.9	75.5	79.1	86.2	93.4	100.6	106.0	106.0	107.8	106.0
85°	34.1	34.1	35.9	37.7	41.3	46.7	52.1	57.5	59.3	59.3	59.3
87.5°	5.4	5.4	7.2	7.2	9.0	10.8	14.4	18.0	19.8	19.8	19.8
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)