

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: P638513

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-7)
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
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26195.1 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

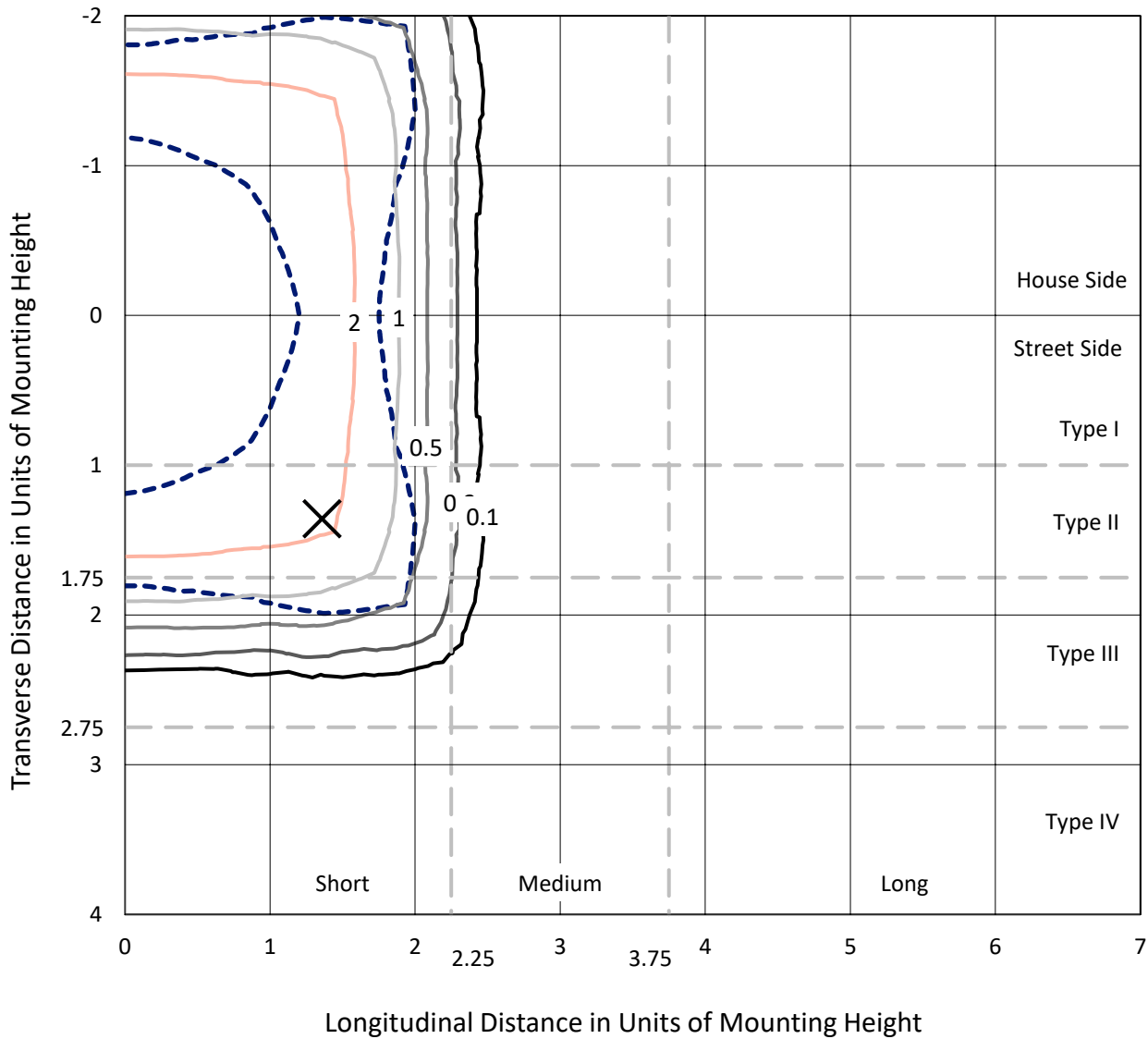
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

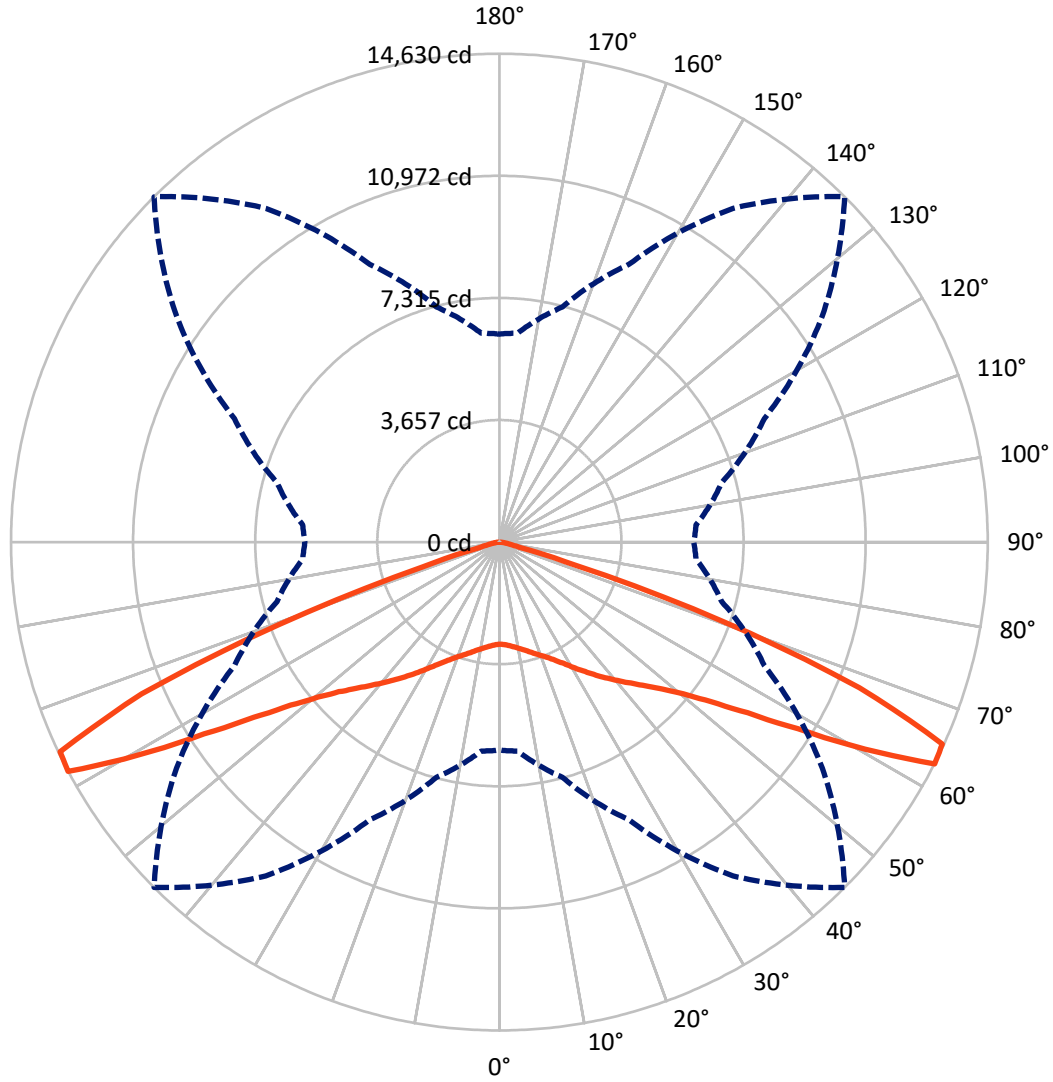
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13097.6	0.0	13097.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13097.6	0.0	13097.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	26195.1	0.0	26195.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.8	1.1
10°-20°	966.9	3.7
20°-30°	1829.3	7.0
30°-40°	3079.0	11.8
40°-50°	4919.3	18.8
50°-60°	7929.7	30.3
60°-70°	6469.7	24.7
70°-80°	628.3	2.4
80°-90°	73.1	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°	26195.1	100.0
0°-180°	26195.1	100.0

Coefficient of Utilization



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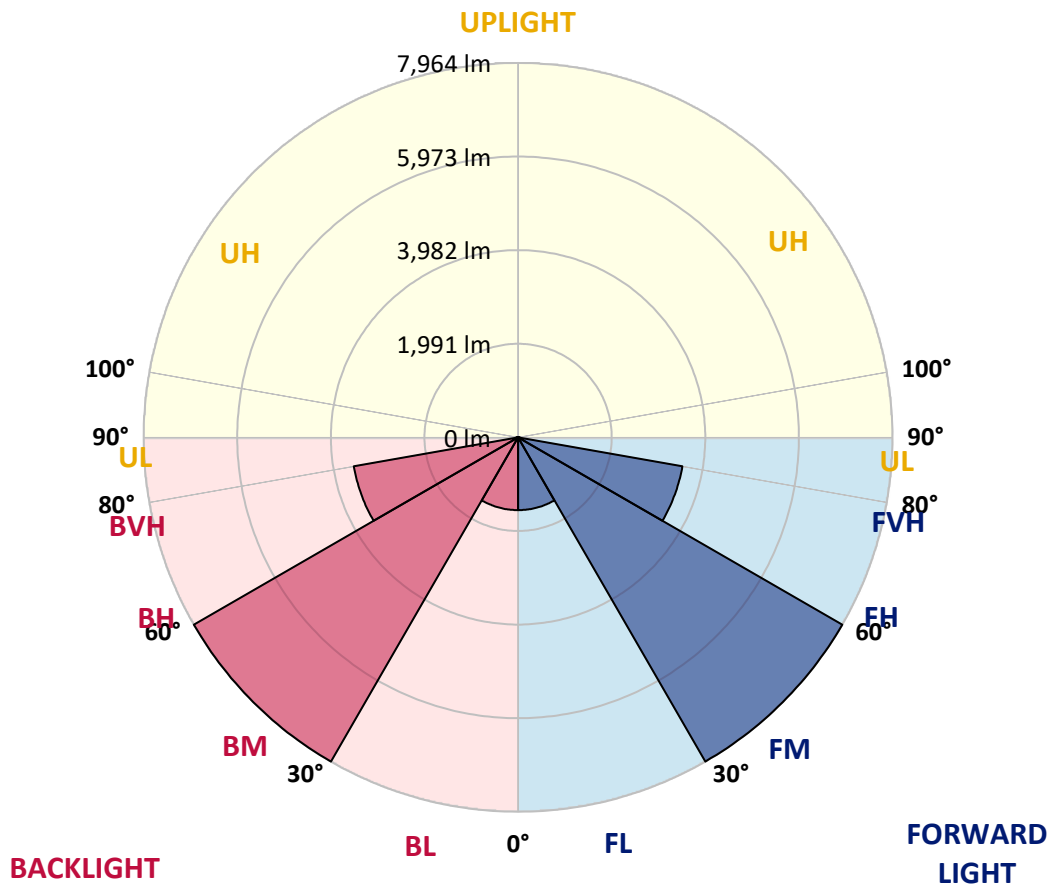
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1548.0	5.9			
FM (30°-60°)	7964.0	30.4			
FH (60°-80°)	3549.0	13.5			G2/5000
FVH (80°-90°)	36.6	0.1			G1/100
BL (0°-30°)	1548.0	5.9	B3/2500		
BM (30°-60°)	7964.0	30.4	B4/8500		
BH (60°-80°)	3549.0	13.5	B4/5000		G2/5000
BVH (80°-90°)	36.6	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3056.0	3056.0	3056.0	3056.0	3056.0	3056.0	3056.0	3056.0	3056.0	3056.0	3056.0
2.5°	3052.4	3052.4	3059.6	3065.0	3061.4	3075.8	3074.0	3070.4	3068.6	3063.2	3079.4
5°	3093.7	3093.7	3099.1	3104.5	3095.5	3113.5	3106.3	3102.7	3100.9	3093.7	3108.1
7.5°	3140.5	3145.8	3147.6	3156.6	3151.2	3171.0	3165.6	3158.4	3154.8	3145.8	3158.4
10°	3192.6	3196.1	3197.9	3214.1	3215.9	3239.3	3233.9	3224.9	3217.7	3208.7	3226.7
12.5°	3262.6	3264.4	3269.8	3289.6	3295.0	3312.9	3311.1	3298.6	3289.6	3277.0	3296.8
15°	3352.5	3354.2	3363.2	3383.0	3392.0	3413.5	3406.3	3386.6	3374.0	3359.6	3375.8
17.5°	3445.9	3453.1	3462.0	3481.8	3494.4	3519.5	3510.6	3489.0	3478.2	3463.8	3474.6
20°	3566.2	3568.0	3573.4	3595.0	3604.0	3632.7	3634.5	3613.0	3607.6	3593.2	3609.4
22.5°	3699.2	3701.0	3706.4	3729.7	3745.9	3763.9	3774.7	3762.1	3753.1	3735.1	3754.9
25°	3846.5	3864.5	3869.9	3898.6	3916.6	3927.4	3939.9	3934.5	3922.0	3900.4	3909.4
27.5°	4053.1	4056.7	4065.7	4098.0	4108.8	4119.6	4132.2	4134.0	4116.0	4090.9	4103.4
30°	4288.5	4286.7	4306.4	4331.6	4340.6	4349.6	4367.5	4378.3	4355.0	4328.0	4340.6
32.5°	4529.2	4550.8	4575.9	4599.3	4593.9	4597.5	4626.2	4646.0	4613.7	4565.2	4575.9
35°	4800.5	4814.9	4847.2	4881.4	4874.2	4868.8	4886.7	4906.5	4861.6	4798.7	4814.9
37.5°	5079.0	5100.5	5149.0	5190.4	5179.6	5154.4	5174.2	5195.8	5152.6	5080.8	5073.6
40°	5389.8	5423.9	5494.0	5528.1	5499.4	5450.9	5485.0	5537.1	5494.0	5411.4	5391.6
42.5°	5754.5	5795.8	5865.9	5918.0	5855.1	5776.1	5833.6	5909.0	5898.2	5788.6	5754.5
45°	6205.4	6232.4	6318.6	6343.8	6250.4	6140.8	6245.0	6360.0	6333.0	6214.4	6169.5
47.5°	6695.9	6737.2	6812.7	6859.4	6708.5	6572.0	6717.5	6872.0	6843.2	6731.8	6679.7
50°	7321.1	7375.0	7473.8	7513.4	7305.0	7148.7	7335.5	7531.3	7475.6	7326.5	7258.3
52.5°	8002.0	8045.2	8214.0	8293.1	8097.3	7928.4	8091.9	8284.1	8165.5	7967.9	7876.3
55°	8602.1	8645.2	8893.2	9155.5	9146.5	9029.7	9112.3	9115.9	8794.3	8467.4	8370.3
57.5°	8731.5	8774.6	9247.1	9933.4	10418.5	10553.2	10310.7	9800.4	8990.2	8417.1	8307.5
60°	8041.6	8090.1	8841.1	10095.1	11690.5	12590.6	11473.1	9786.1	8384.7	7608.6	7504.4
62.5°	6230.6	6282.7	7292.4	9175.2	12204.3	14629.7	11810.8	8756.6	6897.1	5914.4	5822.8
65°	2975.2	2975.2	4257.9	6580.9	11180.2	14581.2	10833.5	6478.5	4151.9	3189.0	3109.9
67.5°	736.6	740.2	1095.9	2561.9	7605.0	11636.6	7729.0	3109.9	1462.4	1034.8	1007.9
70°	459.9	458.1	508.4	693.5	2660.8	7062.4	3160.2	937.8	594.7	524.6	521.0
72.5°	357.5	357.5	382.7	443.8	697.1	2405.6	921.7	521.0	431.2	388.1	388.1
75°	282.1	282.1	300.0	332.4	411.4	619.8	490.5	386.3	334.2	305.4	301.8
77.5°	210.2	213.8	228.2	249.7	280.3	348.5	310.8	291.0	260.5	238.9	231.8
80°	136.5	141.9	159.9	172.5	183.3	230.0	203.0	212.0	197.6	172.5	168.9
82.5°	73.7	75.5	97.0	100.6	104.2	125.8	129.4	134.7	140.1	109.6	102.4
85°	26.9	26.9	32.3	37.7	41.3	44.9	61.1	75.5	79.1	62.9	61.1
87.5°	5.4	5.4	5.4	3.6	3.6	3.6	10.8	19.8	32.3	25.2	25.2
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)