

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: P638953

Luminaire Tested: GWS-SA4F-830-U-5NQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638953
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-830-U-5NQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28250.4 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

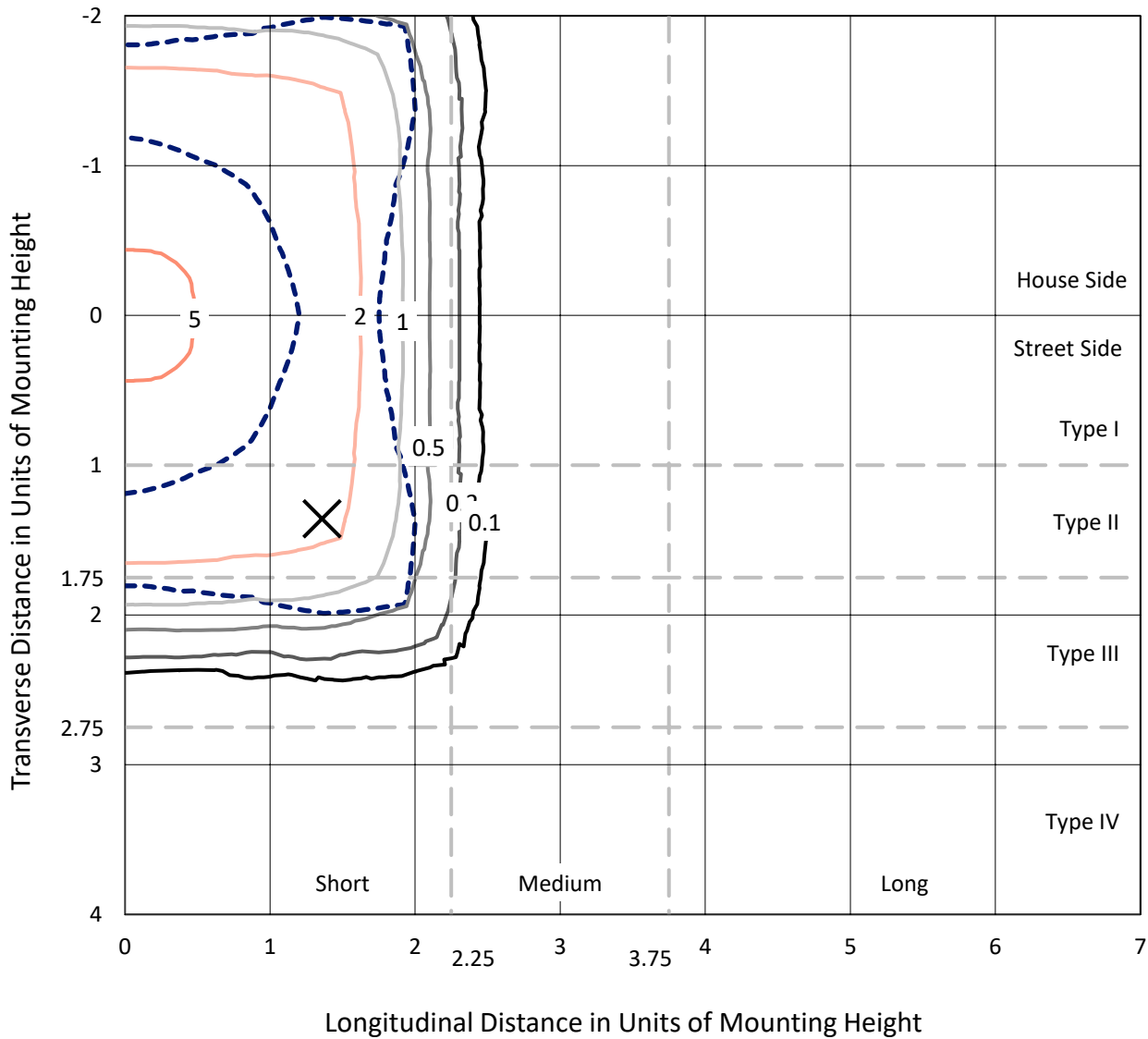
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

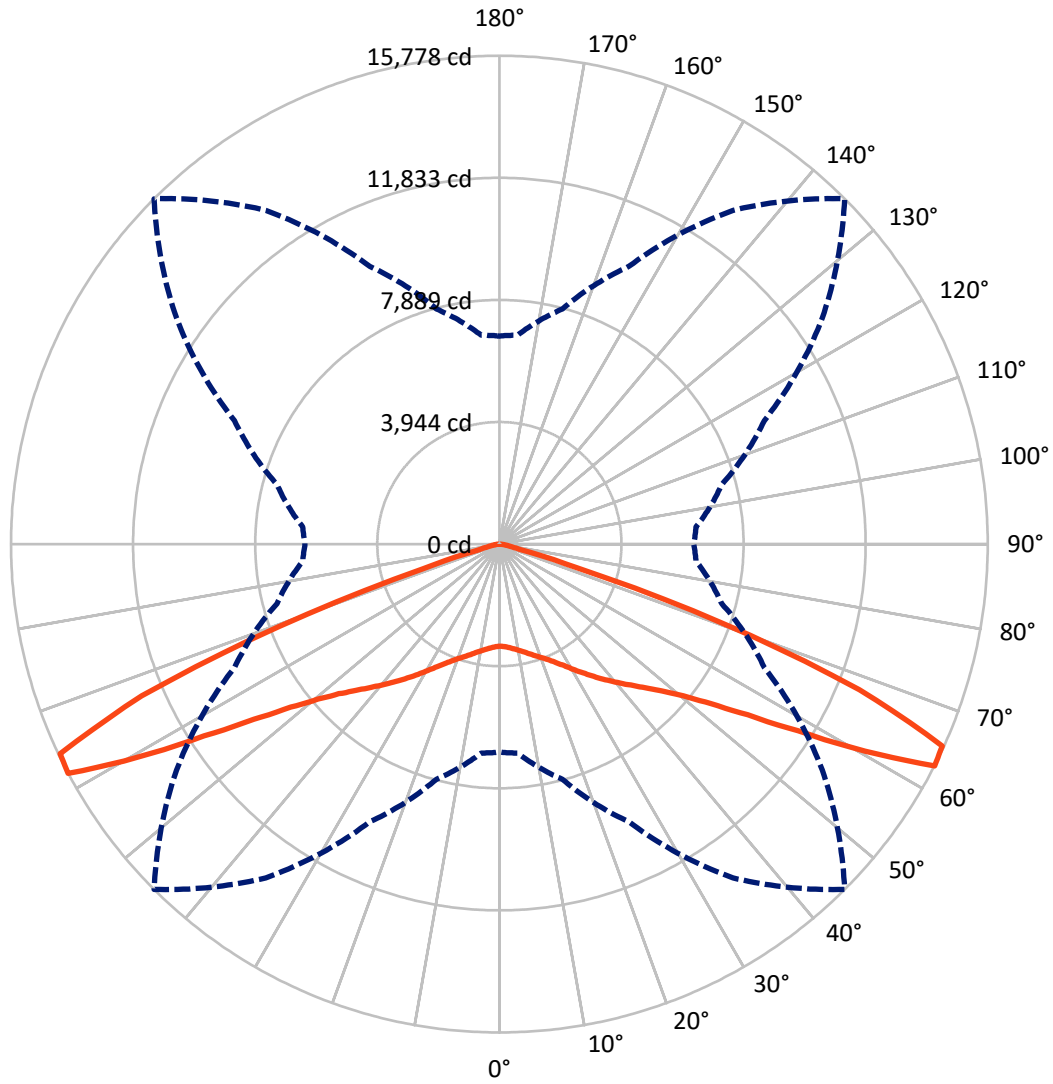
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	14125.2	0.0	14125.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14125.2	0.0	14125.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	28250.4	0.0	28250.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.4	1.1
10°-20°	1042.8	3.7
20°-30°	1972.8	7.0
30°-40°	3320.6	11.8
40°-50°	5305.3	18.8
50°-60°	8551.8	30.3
60°-70°	6977.3	24.7
70°-80°	677.6	2.4
80°-90°	78.8	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°	28250.4	100.0
0°-180°	28250.4	100.0

Coefficient of Utilization



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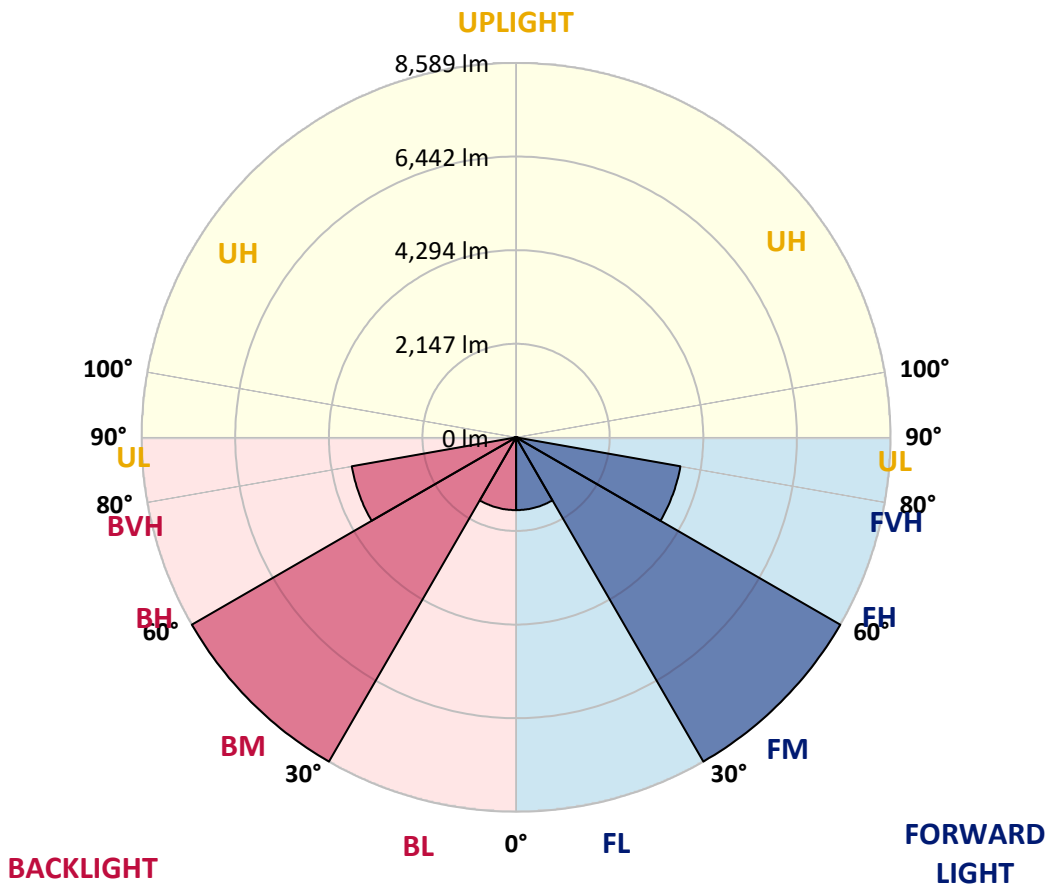
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1669.5	5.9			
FM (30°-60°)	8588.9	30.4			
FH (60°-80°)	3827.4	13.5			G2/5000
FVH (80°-90°)	39.4	0.1			G1/100
BL (0°-30°)	1669.5	5.9	B3/2500		
BM (30°-60°)	8588.9	30.4	B5		
BH (60°-80°)	3827.4	13.5	B4/5000		G2/5000
BVH (80°-90°)	39.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3295.8	3295.8	3295.8	3295.8	3295.8	3295.8	3295.8	3295.8	3295.8	3295.8	3295.8
2.5°	3291.9	3291.9	3299.7	3305.5	3301.6	3317.1	3315.2	3311.3	3309.4	3303.5	3321.0
5°	3336.5	3336.5	3342.3	3348.1	3338.4	3357.8	3350.0	3346.2	3344.2	3336.5	3352.0
7.5°	3386.9	3392.7	3394.6	3404.3	3398.5	3419.8	3414.0	3406.2	3402.4	3392.7	3406.2
10°	3443.0	3446.9	3448.9	3466.3	3468.2	3493.4	3487.6	3477.9	3470.2	3460.5	3479.9
12.5°	3518.6	3520.5	3526.4	3547.7	3553.5	3572.9	3570.9	3557.4	3547.7	3534.1	3555.4
15°	3615.5	3617.4	3627.1	3648.4	3658.1	3681.4	3673.6	3652.3	3638.7	3623.2	3640.7
17.5°	3716.2	3724.0	3733.7	3755.0	3768.6	3795.7	3786.0	3762.7	3751.1	3735.6	3747.2
20°	3846.1	3848.0	3853.8	3877.1	3886.7	3917.7	3919.7	3896.4	3890.6	3875.1	3892.6
22.5°	3989.4	3991.4	3997.2	4022.4	4039.8	4059.2	4070.8	4057.3	4047.6	4028.2	4049.5
25°	4148.3	4167.7	4173.5	4204.5	4223.9	4235.5	4249.1	4243.3	4229.7	4206.4	4216.1
27.5°	4371.1	4375.0	4384.7	4419.6	4431.2	4442.8	4456.4	4458.3	4439.0	4411.8	4425.4
30°	4625.0	4623.0	4644.3	4671.5	4681.1	4690.8	4710.2	4721.8	4696.6	4667.6	4681.1
32.5°	4884.6	4907.8	4935.0	4960.2	4954.3	4958.2	4989.2	5010.5	4975.7	4923.3	4935.0
35°	5177.2	5192.7	5227.5	5264.4	5256.6	5250.8	5270.2	5291.5	5243.0	5175.2	5192.7
37.5°	5477.5	5500.7	5553.0	5597.6	5586.0	5558.9	5580.2	5603.4	5556.9	5479.4	5471.7
40°	5812.7	5849.5	5925.1	5961.9	5930.9	5878.6	5915.4	5971.6	5925.1	5835.9	5814.6
42.5°	6206.0	6250.6	6326.1	6382.3	6314.5	6229.3	6291.3	6372.6	6361.0	6242.8	6206.0
45°	6692.3	6721.4	6814.4	6841.5	6740.8	6622.6	6735.0	6859.0	6829.9	6702.0	6653.6
47.5°	7221.3	7265.9	7347.2	7397.6	7234.9	7087.6	7244.5	7411.2	7380.2	7260.0	7203.8
50°	7895.6	7953.7	8060.3	8102.9	7878.1	7709.6	7911.1	8122.3	8062.2	7901.4	7827.7
52.5°	8629.9	8676.4	8858.5	8943.8	8732.6	8550.5	8726.8	8934.1	8806.2	8593.1	8494.3
55°	9277.0	9323.5	9590.9	9873.8	9864.1	9738.2	9827.3	9831.2	9484.4	9131.7	9027.1
57.5°	9416.5	9463.0	9972.6	10712.8	11235.9	11381.2	11119.7	10569.4	9695.6	9077.5	8959.3
60°	8672.5	8724.8	9534.7	10887.2	12607.7	13578.4	12373.3	10553.9	9042.6	8205.6	8093.2
62.5°	6719.5	6775.6	7864.6	9895.1	13161.8	15777.6	12737.5	9443.7	7438.3	6378.4	6279.6
65°	3208.6	3208.6	4592.0	7097.3	12057.4	15725.2	11683.5	6986.8	4477.7	3439.2	3353.9
67.5°	794.4	798.3	1181.9	2763.0	8201.7	12549.6	8335.4	3353.9	1577.2	1116.0	1087.0
70°	496.0	494.1	548.3	747.9	2869.5	7616.5	3408.2	1011.4	641.3	565.8	561.9
72.5°	385.6	385.6	412.7	478.6	751.8	2594.4	994.0	561.9	465.0	418.5	418.5
75°	304.2	304.2	323.6	358.4	443.7	668.5	529.0	416.6	360.4	329.4	325.5
77.5°	226.7	230.6	246.1	269.3	302.3	375.9	335.2	313.9	280.9	257.7	249.9
80°	147.3	153.1	172.4	186.0	197.6	248.0	218.9	228.6	213.1	186.0	182.1
82.5°	79.4	81.4	104.6	108.5	112.4	135.6	139.5	145.3	151.1	118.2	110.4
85°	29.1	29.1	34.9	40.7	44.6	48.4	65.9	81.4	85.3	67.8	65.9
87.5°	5.8	5.8	5.8	3.9	3.9	3.9	11.6	21.3	34.9	27.1	27.1
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)