

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: P641423

Luminaire Tested: GWS-SA5F-830-U-5MQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-830-U-5MQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20258.3 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

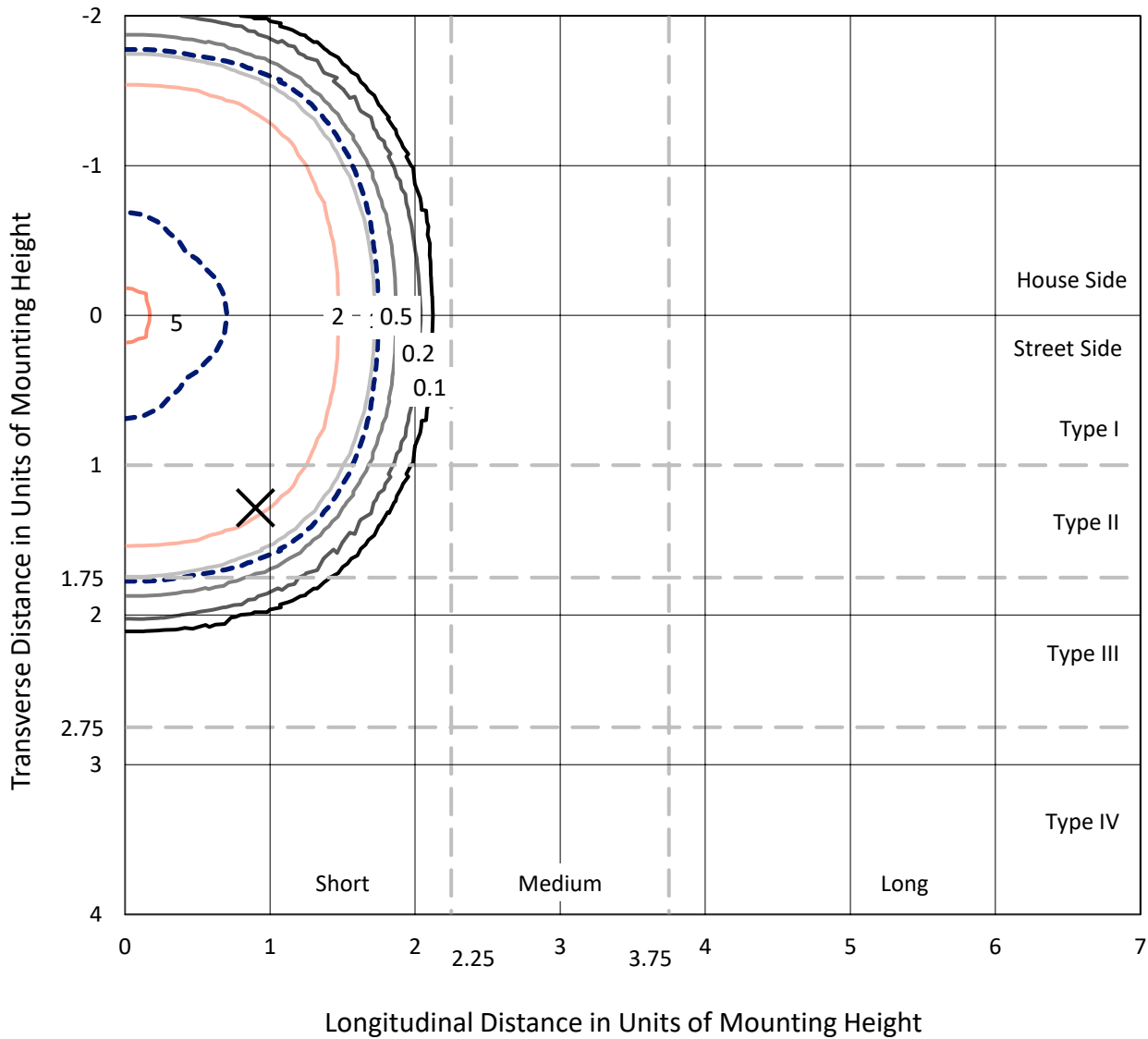
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

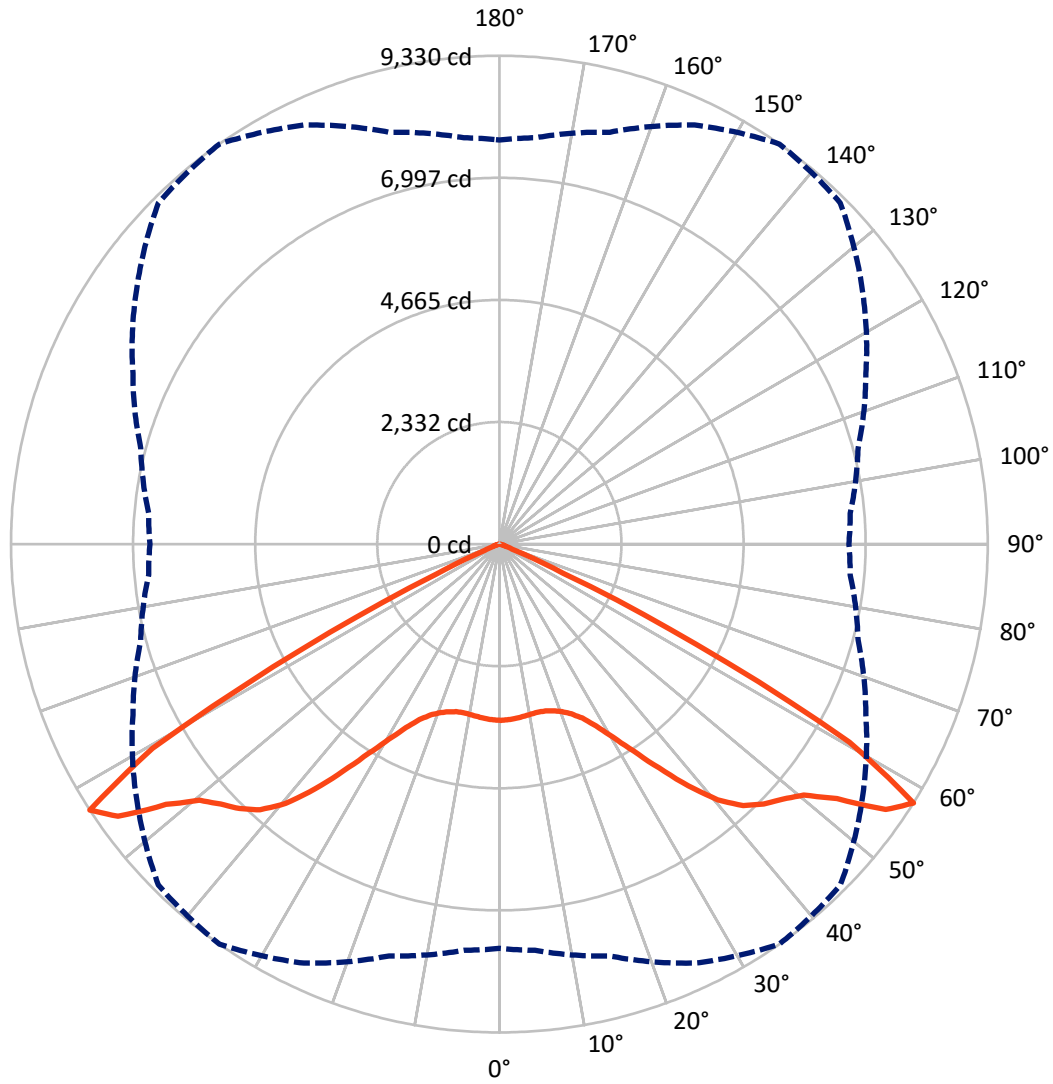
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10129.2	0.0	10129.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10129.2	0.0	10129.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	20258.3	0.0	20258.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.3	1.6
10°-20°	933.5	4.6
20°-30°	1687.3	8.3
30°-40°	3147.7	15.5
40°-50°	5280.4	26.1
50°-60°	6973.3	34.4
60°-70°	1851.9	9.1
70°-80°	65.8	0.3
80°-90°	1.2	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°	20258.3	100.0
0°-180°	20258.3	100.0

Coefficient of Utilization



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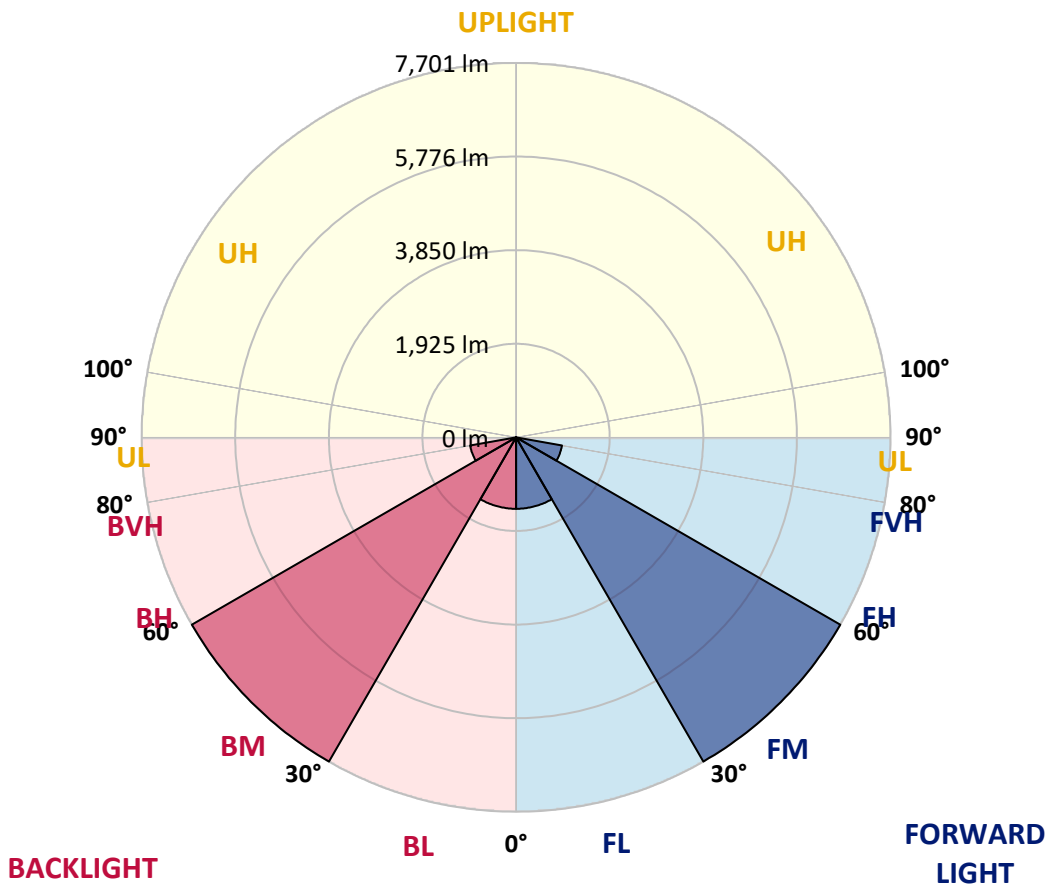
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1469.0	7.3			
FM (30°-60°)	7700.7	38.0			
FH (60°-80°)	958.8	4.7			G1/1800
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	1469.0	7.3	B3/2500		
BM (30°-60°)	7700.7	38.0	B4/8500		
BH (60°-80°)	958.8	4.7	B2/1000		G1/1800
BVH (80°-90°)	0.6	0.0			G0/10
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°	3368.1	3368.1	3368.1	3368.1	3368.1	3368.1	3368.1	3368.1	3368.1	3368.1	3368.1
2.5°	3344.4	3342.0	3351.5	3358.6	3358.6	3375.3	3370.5	3365.7	3361.0	3353.9	3370.5
5°	3339.6	3337.2	3344.4	3349.1	3344.4	3358.6	3349.1	3339.6	3334.8	3325.3	3344.4
7.5°	3318.2	3320.6	3325.3	3330.1	3323.0	3334.8	3323.0	3308.7	3296.8	3287.3	3303.9
10°	3284.9	3287.3	3292.1	3301.6	3303.9	3320.6	3303.9	3277.8	3261.2	3246.9	3263.5
12.5°	3268.3	3270.7	3277.8	3289.7	3292.1	3313.5	3292.1	3254.0	3230.3	3213.6	3230.3
15°	3273.0	3277.8	3287.3	3301.6	3306.3	3327.7	3299.2	3249.3	3216.0	3194.6	3208.9
17.5°	3289.7	3294.4	3308.7	3332.5	3349.1	3370.5	3334.8	3270.7	3225.5	3194.6	3208.9
20°	3311.1	3318.2	3342.0	3380.0	3415.7	3453.7	3408.5	3320.6	3261.2	3223.1	3235.0
22.5°	3370.5	3377.6	3410.9	3460.8	3520.2	3567.8	3513.1	3401.4	3320.6	3270.7	3282.6
25°	3491.7	3498.9	3541.6	3605.8	3681.9	3743.7	3674.8	3534.5	3429.9	3372.9	3377.6
27.5°	3681.9	3689.0	3738.9	3829.3	3931.5	4019.4	3919.6	3755.6	3636.7	3570.2	3570.2
30°	3922.0	3931.5	3998.0	4119.2	4278.5	4395.0	4259.5	4059.8	3907.7	3817.4	3819.7
32.5°	4231.0	4221.4	4316.5	4482.9	4708.7	4863.2	4663.6	4421.1	4233.3	4107.4	4119.2
35°	4627.9	4625.5	4732.5	4958.3	5253.0	5438.4	5200.7	4887.0	4661.2	4532.8	4535.2
37.5°	5138.9	5136.6	5260.2	5505.0	5859.2	6013.7	5747.4	5428.9	5186.5	5062.9	5077.1
40°	5737.9	5723.7	5833.0	6068.3	6422.5	6522.3	6232.3	5975.6	5742.7	5664.2	5702.3
42.5°	6308.4	6277.5	6341.7	6555.6	6829.0	6843.2	6624.5	6448.6	6289.4	6227.6	6251.4
45°	6767.1	6743.4	6802.8	6926.4	7083.3	7012.0	6907.4	6852.7	6724.4	6657.8	6679.2
47.5°	7109.4	7109.4	7180.7	7256.8	7280.6	7149.8	7166.5	7166.5	7038.1	6933.5	6907.4
50°	7404.2	7425.6	7532.5	7611.0	7532.5	7366.1	7461.2	7442.2	7180.7	6971.6	6916.9
52.5°	7874.8	7896.2	8060.2	8167.2	8079.2	7915.2	7927.1	7689.4	7304.3	7057.1	6971.6
55°	8374.0	8426.3	8663.9	8949.2	8951.6	8782.8	8469.0	8048.3	7580.1	7311.5	7223.5
57.5°	7720.3	7791.6	8145.8	8832.7	9329.5	9213.0	8464.3	7725.1	7092.8	6726.7	6676.8
60°	5312.5	5436.1	5790.2	6729.1	7687.0	7732.2	6848.0	6018.4	5293.4	4841.8	4851.3
62.5°	2243.8	2369.8	2569.5	3342.0	4221.4	4276.1	3848.3	3254.0	2662.2	2336.5	2386.4
65°	527.7	563.3	622.8	924.6	1340.6	1402.4	1293.1	1007.8	744.0	629.9	641.8
67.5°	230.6	235.3	223.4	237.7	294.7	301.9	292.4	256.7	242.4	247.2	247.2
70°	161.6	164.0	154.5	147.4	140.2	130.7	135.5	149.7	161.6	171.1	168.8
72.5°	99.8	102.2	104.6	104.6	97.5	87.9	92.7	102.2	104.6	107.0	104.6
75°	49.9	52.3	57.0	59.4	57.0	54.7	54.7	57.0	57.0	54.7	54.7
77.5°	9.5	11.9	16.6	19.0	19.0	19.0	19.0	19.0	21.4	19.0	19.0
80°	2.4	2.4	4.8	2.4	2.4	2.4	2.4	2.4	2.4	4.8	4.8
82.5°	2.4	2.4	2.4	2.4	0.0	0.0	2.4	2.4	2.4	2.4	2.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)