

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: P641425

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-4)
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
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34336.6 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

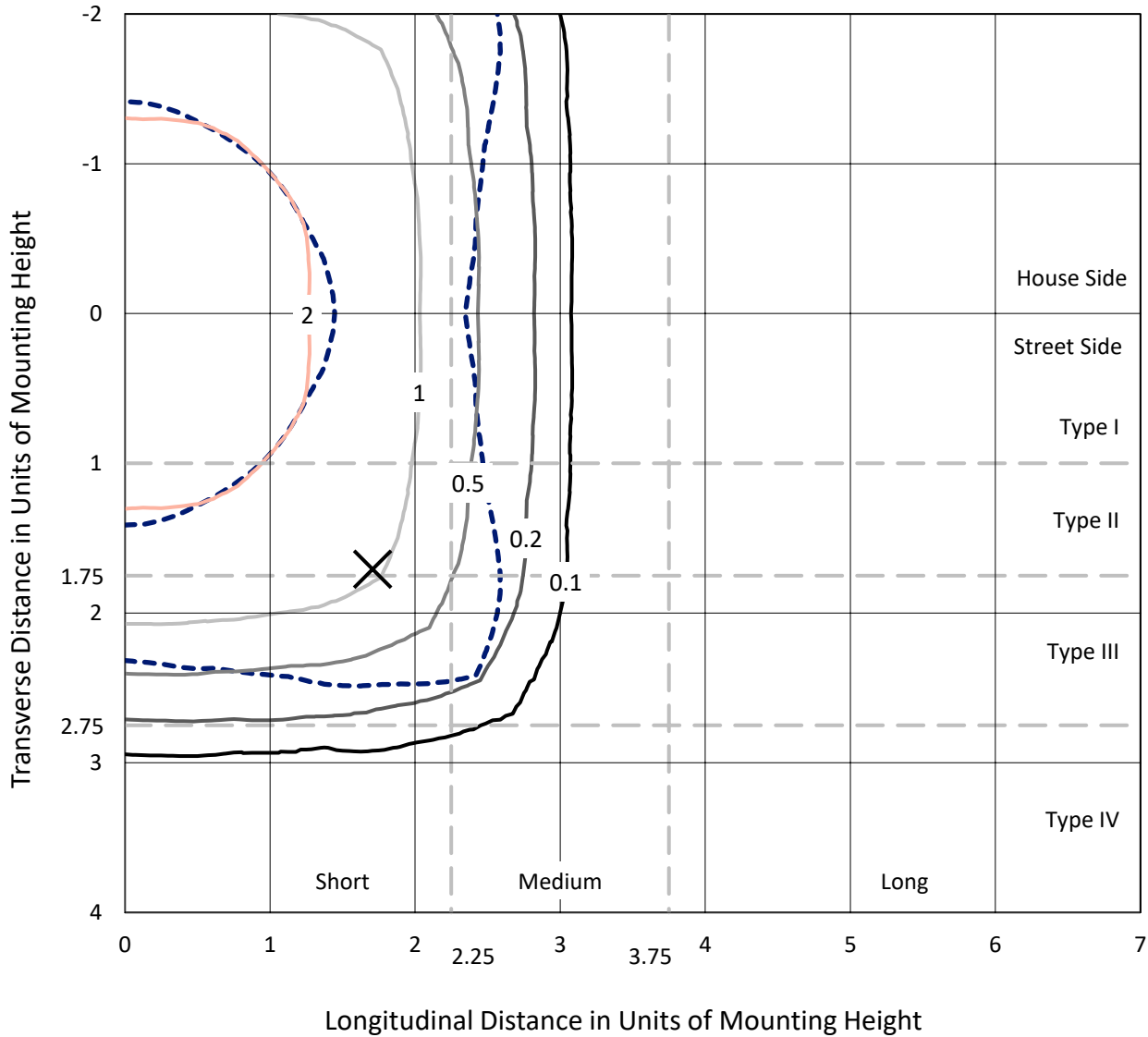
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

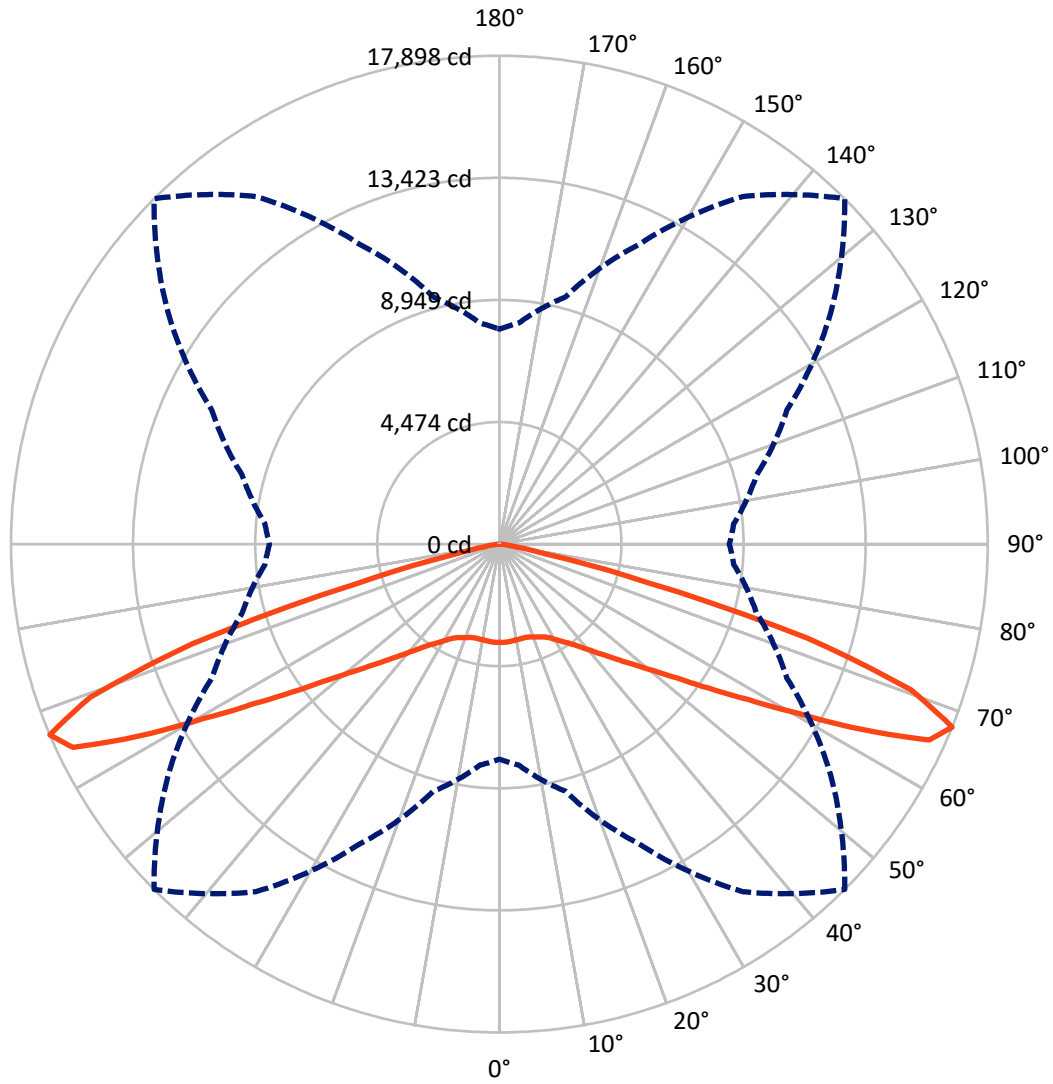
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17168.3	0.0	17168.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17168.3	0.0	17168.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	34336.6	0.0	34336.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.4	1.0
10°-20°	999.7	2.9
20°-30°	1724.2	5.0
30°-40°	2803.6	8.2
40°-50°	4720.6	13.7
50°-60°	8364.0	24.4
60°-70°	11955.8	34.8
70°-80°	3281.4	9.6
80°-90°	147.0	0.4
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°	34336.6	100.0
0°-180°	34336.6	100.0

Coefficient of Utilization



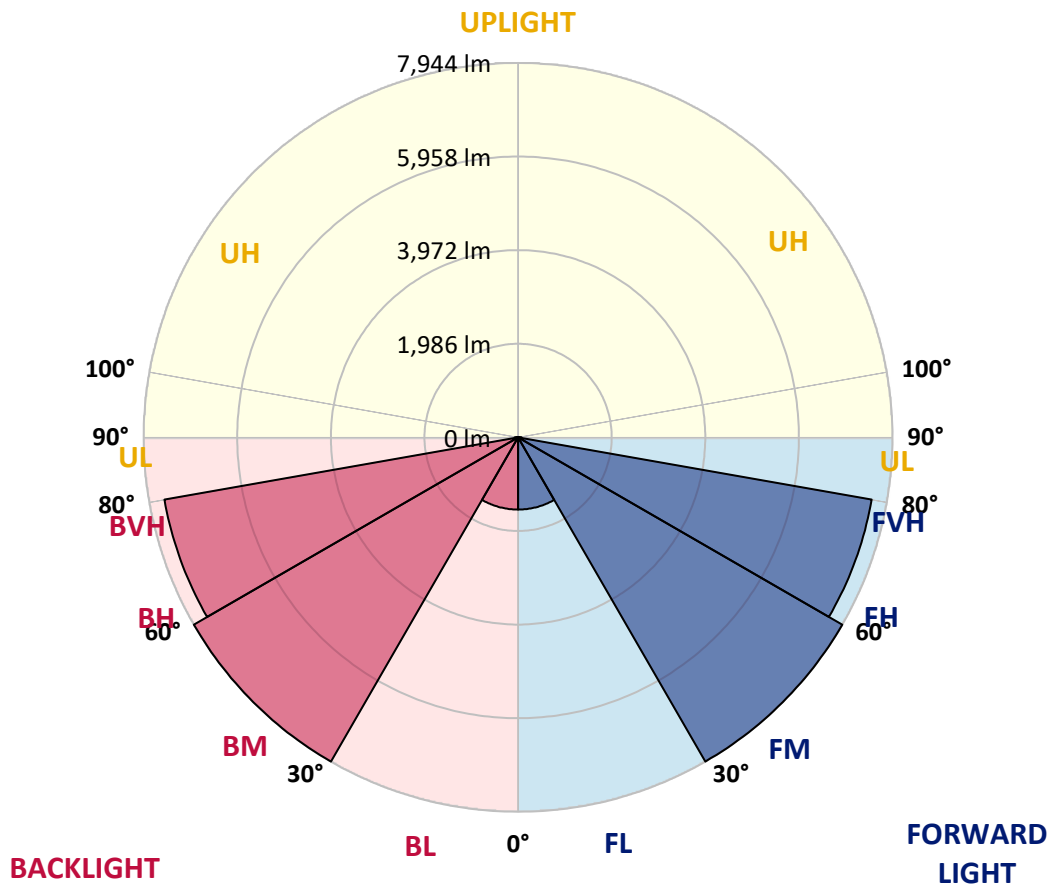
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1532.1	4.5			
FM (30°-60°)	7944.1	23.1			
FH (60°-80°)	7618.6	22.2			G4/12000
FVH (80°-90°)	73.5	0.2			G1/100
BL (0°-30°)	1532.1	4.5	B3/2500		
BM (30°-60°)	7944.1	23.1	B4/8500		
BH (60°-80°)	7618.6	22.2	B5		G4/12000
BVH (80°-90°)	73.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3596.2	3596.2	3596.2	3596.2	3596.2	3596.2	3596.2	3596.2	3596.2	3596.2	3596.2
2.5°	3572.4	3570.0	3581.9	3589.0	3586.6	3603.3	3600.9	3596.2	3596.2	3589.0	3608.0
5°	3572.4	3570.0	3579.5	3581.9	3577.1	3591.4	3586.6	3581.9	3581.9	3572.4	3589.0
7.5°	3553.4	3555.7	3562.9	3567.6	3562.9	3574.8	3567.6	3558.1	3555.7	3546.2	3562.9
10°	3517.7	3520.1	3527.2	3539.1	3541.5	3562.9	3551.0	3534.4	3527.2	3517.7	3534.4
12.5°	3496.3	3498.7	3505.8	3520.1	3524.8	3553.4	3541.5	3515.3	3503.5	3493.9	3510.6
15°	3491.6	3493.9	3503.5	3517.7	3524.8	3553.4	3541.5	3510.6	3493.9	3482.1	3496.3
17.5°	3491.6	3496.3	3510.6	3532.0	3546.2	3574.8	3560.5	3524.8	3501.1	3479.7	3493.9
20°	3493.9	3501.1	3522.5	3553.4	3589.0	3629.4	3610.4	3562.9	3529.6	3503.5	3513.0
22.5°	3515.3	3527.2	3553.4	3593.8	3646.1	3693.6	3677.0	3612.8	3565.3	3529.6	3539.1
25°	3589.0	3593.8	3627.1	3679.3	3729.3	3769.7	3753.0	3693.6	3634.2	3591.4	3603.3
27.5°	3719.7	3731.6	3760.2	3814.8	3857.6	3879.0	3876.6	3836.2	3776.8	3738.8	3748.3
30°	3876.6	3888.5	3926.5	3988.3	4031.1	4054.9	4047.8	4016.9	3962.2	3909.9	3919.4
32.5°	4059.6	4064.4	4109.6	4178.5	4223.6	4259.3	4235.5	4202.2	4133.3	4071.5	4076.3
35°	4292.6	4299.7	4347.2	4411.4	4447.1	4475.6	4470.8	4437.6	4363.9	4297.3	4314.0
37.5°	4584.9	4589.7	4632.5	4713.3	4741.8	4763.2	4767.9	4751.3	4675.2	4589.7	4606.3
40°	4948.6	4951.0	4998.5	5069.8	5100.7	5115.0	5117.3	5119.7	5041.3	4977.1	4972.3
42.5°	5371.7	5383.5	5450.1	5519.0	5533.3	5526.1	5549.9	5573.7	5497.6	5409.7	5416.8
45°	5877.9	5885.0	5975.4	6051.4	6025.3	6001.5	6046.7	6094.2	6025.3	5911.2	5877.9
47.5°	6476.9	6491.1	6588.6	6664.7	6621.9	6579.1	6652.8	6702.7	6591.0	6469.7	6438.9
50°	7154.3	7163.8	7301.6	7396.7	7346.8	7268.4	7361.1	7413.4	7263.6	7113.9	7047.3
52.5°	7955.3	7936.3	8119.3	8285.7	8254.8	8152.5	8228.6	8238.1	8014.7	7803.2	7736.6
55°	8932.2	8913.1	9096.2	9279.2	9355.2	9329.1	9293.4	9236.4	8906.0	8680.2	8618.4
57.5°	10070.7	10011.2	10267.9	10515.1	10681.5	10729.0	10576.9	10443.8	10182.4	9904.3	9833.0
60°	11128.3	11126.0	11532.4	11960.2	12416.6	12606.7	12221.7	11860.4	11273.3	10767.1	10664.9
62.5°	11425.5	11475.4	12140.9	13201.0	14327.6	15000.2	13985.3	12789.8	11656.0	10893.0	10757.6
65°	10693.4	10817.0	11763.0	13436.3	15661.0	17305.7	15014.5	12811.1	11230.6	10279.8	10137.2
67.5°	7881.6	8128.8	9381.4	12124.2	15546.9	17897.6	14831.5	11625.1	9754.5	8623.2	8425.9
70°	3888.5	4123.8	5117.3	7976.7	12792.1	15998.5	12832.5	8761.0	6588.6	5500.0	5319.4
72.5°	1430.9	1525.9	1915.7	3413.1	7059.2	11817.6	8775.3	4893.9	3192.1	2540.8	2419.6
75°	701.2	717.8	777.2	1145.6	2605.0	5561.8	4123.8	1877.7	1174.2	1022.0	988.8
77.5°	446.8	454.0	482.5	546.7	836.6	1751.7	1250.2	741.6	575.2	551.4	551.4
80°	249.6	256.7	294.7	339.9	392.2	601.3	449.2	444.5	377.9	330.4	323.2
82.5°	118.8	130.7	187.8	185.4	206.8	301.9	263.8	240.1	242.4	183.0	173.5
85°	54.7	54.7	73.7	87.9	92.7	102.2	121.2	137.9	135.5	92.7	99.8
87.5°	26.1	26.1	26.1	23.8	21.4	19.0	26.1	42.8	61.8	42.8	40.4
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)