

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: P638460

Luminaire Tested: GWS-SA4E-830-U-5WQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-830-U-5WQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20531.2 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

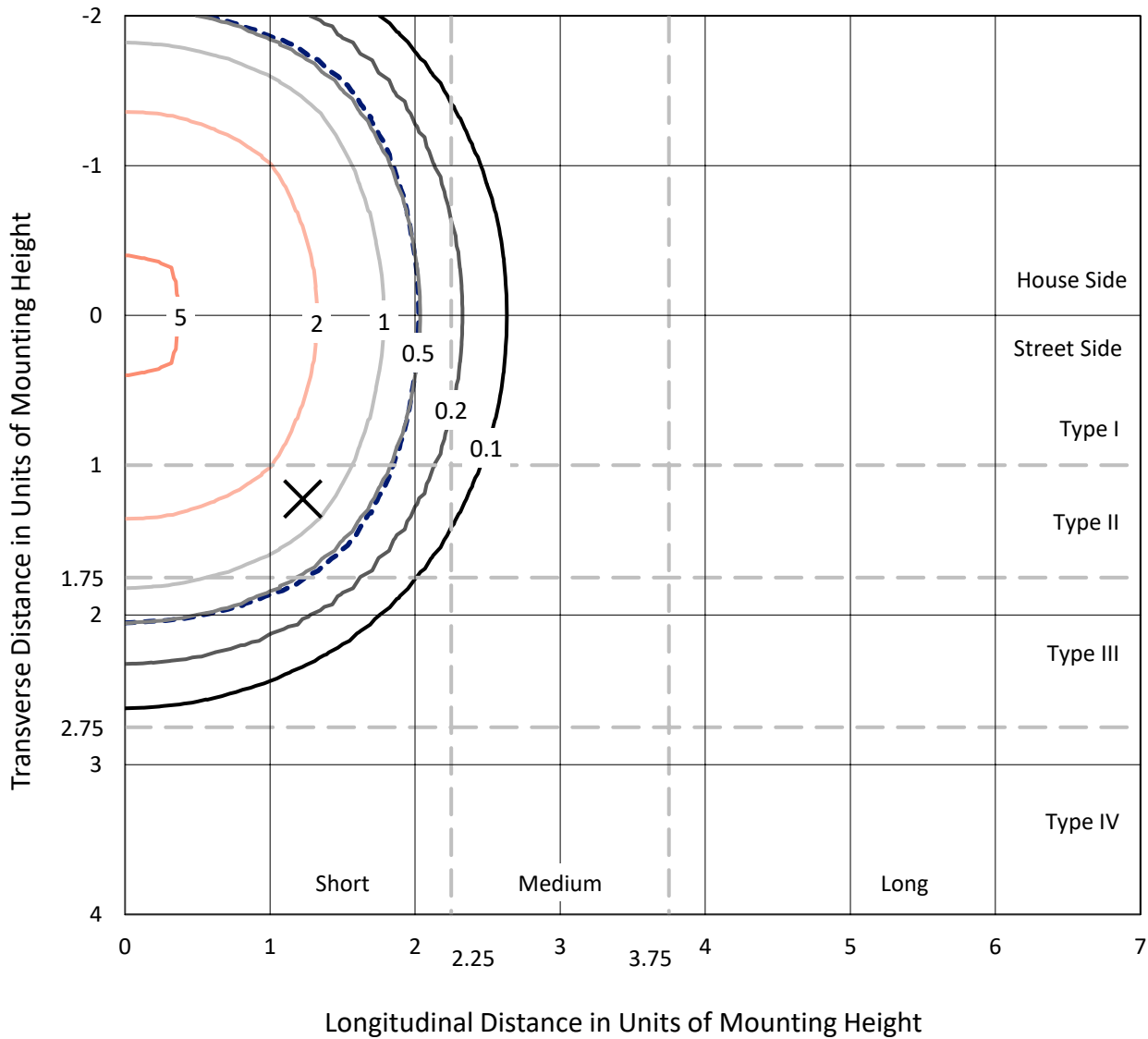
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

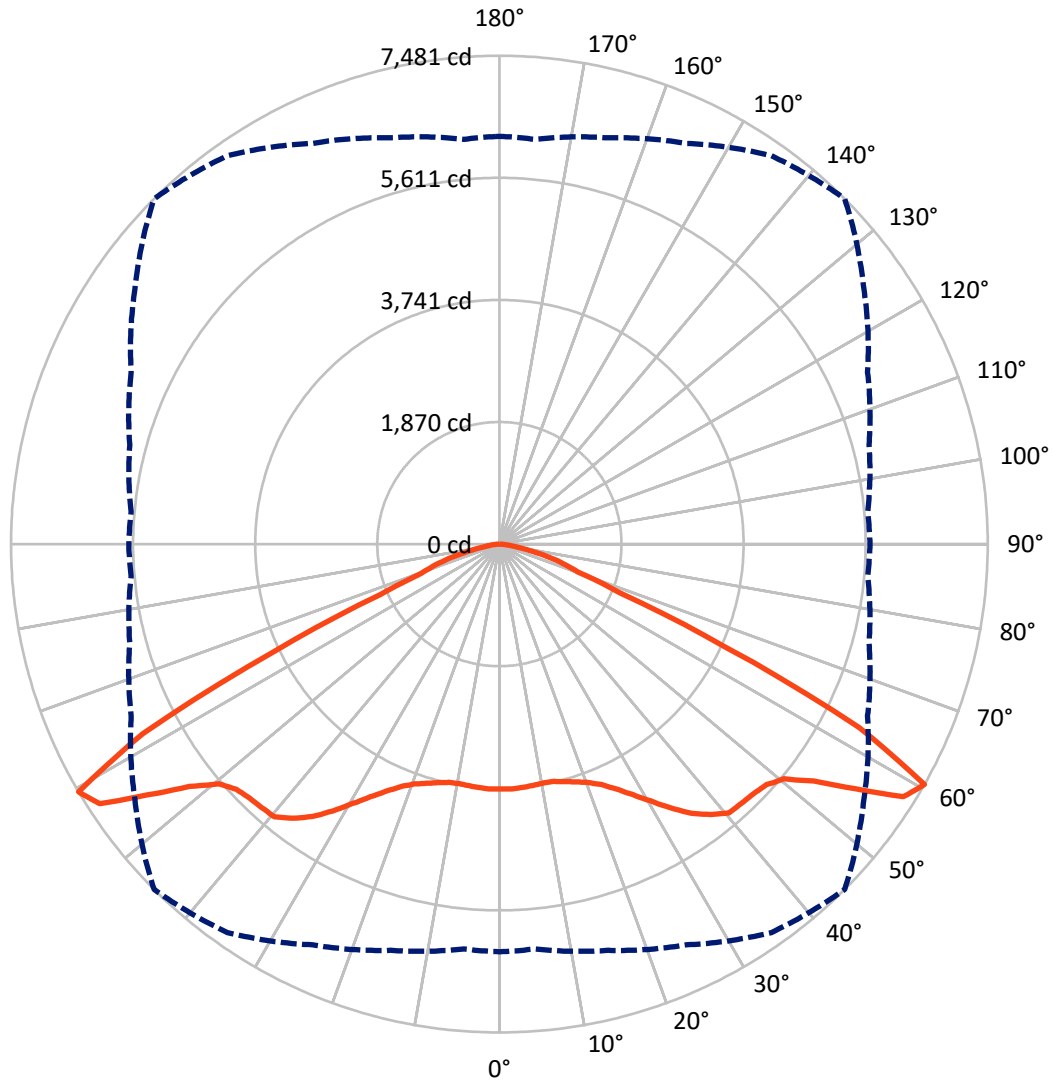
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10265.6	0.0	10265.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10265.6	0.0	10265.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	20531.2	0.0	20531.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.8	1.7
10°-20°	1070.3	5.2
20°-30°	1893.5	9.2
30°-40°	3048.6	14.8
40°-50°	4190.2	20.4
50°-60°	5583.9	27.2
60°-70°	3480.1	17.0
70°-80°	800.3	3.9
80°-90°	108.6	0.5
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°	20531.2	100.0
0°-180°	20531.2	100.0

Coefficient of Utilization



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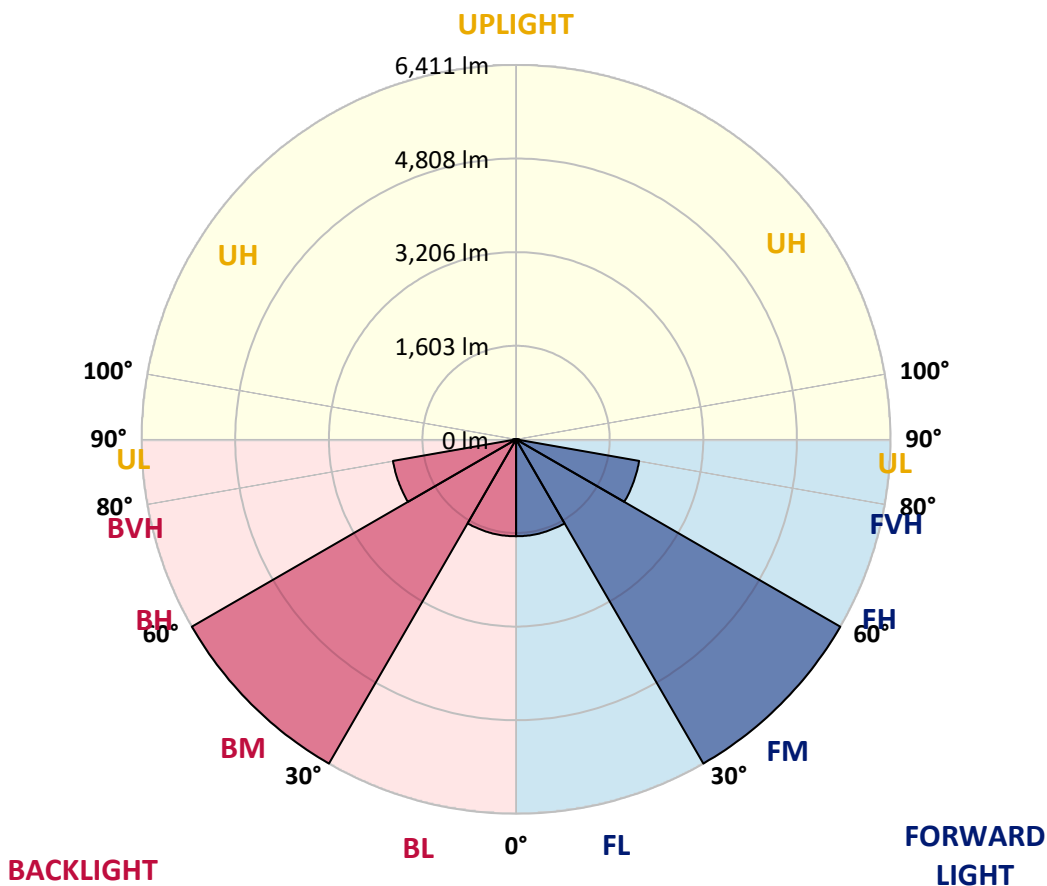
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1659.8	8.1			
FM (30°-60°)	6411.3	31.2			
FH (60°-80°)	2140.2	10.4			G2/5000
FVH (80°-90°)	54.3	0.3			G1/100
BL (0°-30°)	1659.8	8.1	B3/2500		
BM (30°-60°)	6411.3	31.2	B4/8500		
BH (60°-80°)	2140.2	10.4	B3/2500		G2/5000
BVH (80°-90°)	54.3	0.3			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°	3752.0	3752.0	3752.0	3752.0	3752.0	3752.0	3752.0	3752.0	3752.0	3752.0	3752.0
2.5°	3725.9	3729.4	3736.4	3741.6	3748.6	3755.5	3759.0	3752.0	3748.6	3734.6	3750.3
5°	3729.4	3732.9	3738.1	3738.1	3739.8	3745.1	3745.1	3736.4	3727.6	3712.0	3729.4
7.5°	3724.2	3727.6	3729.4	3727.6	3729.4	3731.1	3727.6	3717.2	3708.5	3694.5	3708.5
10°	3715.5	3718.9	3722.4	3718.9	3715.5	3720.7	3720.7	3713.7	3708.5	3694.5	3710.2
12.5°	3734.6	3739.8	3741.6	3732.9	3729.4	3731.1	3731.1	3724.2	3724.2	3712.0	3729.4
15°	3779.9	3783.4	3778.2	3767.7	3769.5	3774.7	3762.5	3745.1	3741.6	3736.4	3750.3
17.5°	3814.8	3818.3	3813.0	3806.1	3818.3	3830.5	3807.8	3774.7	3764.2	3760.8	3776.4
20°	3853.1	3858.4	3851.4	3860.1	3884.5	3898.4	3870.6	3825.2	3804.3	3799.1	3818.3
22.5°	3915.9	3922.8	3922.8	3942.0	3978.6	4001.3	3966.4	3905.4	3874.0	3865.3	3884.5
25°	4015.2	4020.4	4025.7	4064.0	4123.2	4154.6	4098.8	4015.2	3971.6	3957.7	3968.1
27.5°	4152.9	4161.6	4170.3	4226.1	4299.3	4344.6	4264.4	4159.8	4105.8	4077.9	4098.8
30°	4316.7	4328.9	4349.8	4412.5	4515.4	4565.9	4463.1	4335.9	4274.9	4245.2	4273.1
32.5°	4539.8	4541.5	4557.2	4626.9	4762.8	4820.3	4691.4	4550.2	4487.5	4452.6	4468.3
35°	4804.6	4806.4	4782.0	4853.4	4999.8	5064.3	4912.7	4769.8	4717.5	4707.1	4747.1
37.5°	5076.5	5060.8	5036.4	5067.8	5215.9	5257.7	5097.4	4975.4	4952.8	4971.9	5031.2
40°	5269.9	5243.8	5195.0	5217.7	5367.5	5416.3	5245.5	5130.5	5123.6	5170.6	5242.1
42.5°	5395.4	5367.5	5310.0	5310.0	5412.8	5433.8	5301.3	5240.3	5256.0	5310.0	5378.0
45°	5456.4	5440.7	5407.6	5390.2	5447.7	5456.4	5355.3	5330.9	5360.6	5386.7	5439.0
47.5°	5503.5	5503.5	5493.0	5475.6	5501.7	5507.0	5432.0	5425.0	5463.4	5463.4	5498.2
50°	5587.1	5595.8	5609.8	5606.3	5634.2	5651.6	5595.8	5585.4	5601.1	5550.5	5567.9
52.5°	5806.7	5829.4	5869.4	5900.8	5972.3	6026.3	5926.9	5843.3	5761.4	5649.9	5653.3
55°	6200.6	6211.0	6289.4	6381.8	6502.0	6611.8	6407.9	6148.3	5970.5	5839.8	5841.6
57.5°	6533.4	6549.1	6664.1	6857.6	7127.7	7298.5	6847.1	6413.2	6162.2	6001.9	6007.1
60°	6245.9	6224.9	6442.8	6773.9	7263.6	7481.4	6815.7	6223.2	5862.5	5663.8	5677.7
62.5°	4832.5	4792.4	5034.7	5381.5	5968.8	6186.6	5573.2	5005.1	4663.5	4508.4	4485.7
65°	2941.7	2905.1	3079.4	3292.0	3689.3	3827.0	3546.4	3244.9	2946.9	2852.8	2826.7
67.5°	1601.5	1596.3	1643.4	1747.9	1922.2	1986.7	1932.7	1789.8	1713.1	1646.9	1646.9
70°	1270.4	1260.0	1251.3	1253.0	1268.7	1277.4	1279.1	1272.2	1280.9	1282.6	1275.7
72.5°	1052.6	1049.1	1031.7	1033.4	1026.5	1023.0	1035.2	1042.1	1056.1	1057.8	1057.8
75°	763.3	754.6	763.3	765.0	758.1	758.1	766.8	765.0	772.0	775.5	756.3
77.5°	433.9	433.9	446.1	460.1	470.5	470.5	479.2	479.2	488.0	486.2	482.7
80°	238.8	238.8	245.7	254.4	264.9	275.3	284.1	285.8	291.0	289.3	284.1
82.5°	135.9	137.7	141.2	146.4	156.8	165.6	174.3	176.0	181.2	181.2	176.0
85°	64.5	62.7	64.5	68.0	73.2	80.2	88.9	94.1	97.6	97.6	94.1
87.5°	12.2	13.9	12.2	13.9	15.7	20.9	24.4	27.9	33.1	34.9	31.4
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)