

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: P638955

Luminaire Tested: GWS-SA4F-830-U-5WQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638955
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-SA4F-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: 22827 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

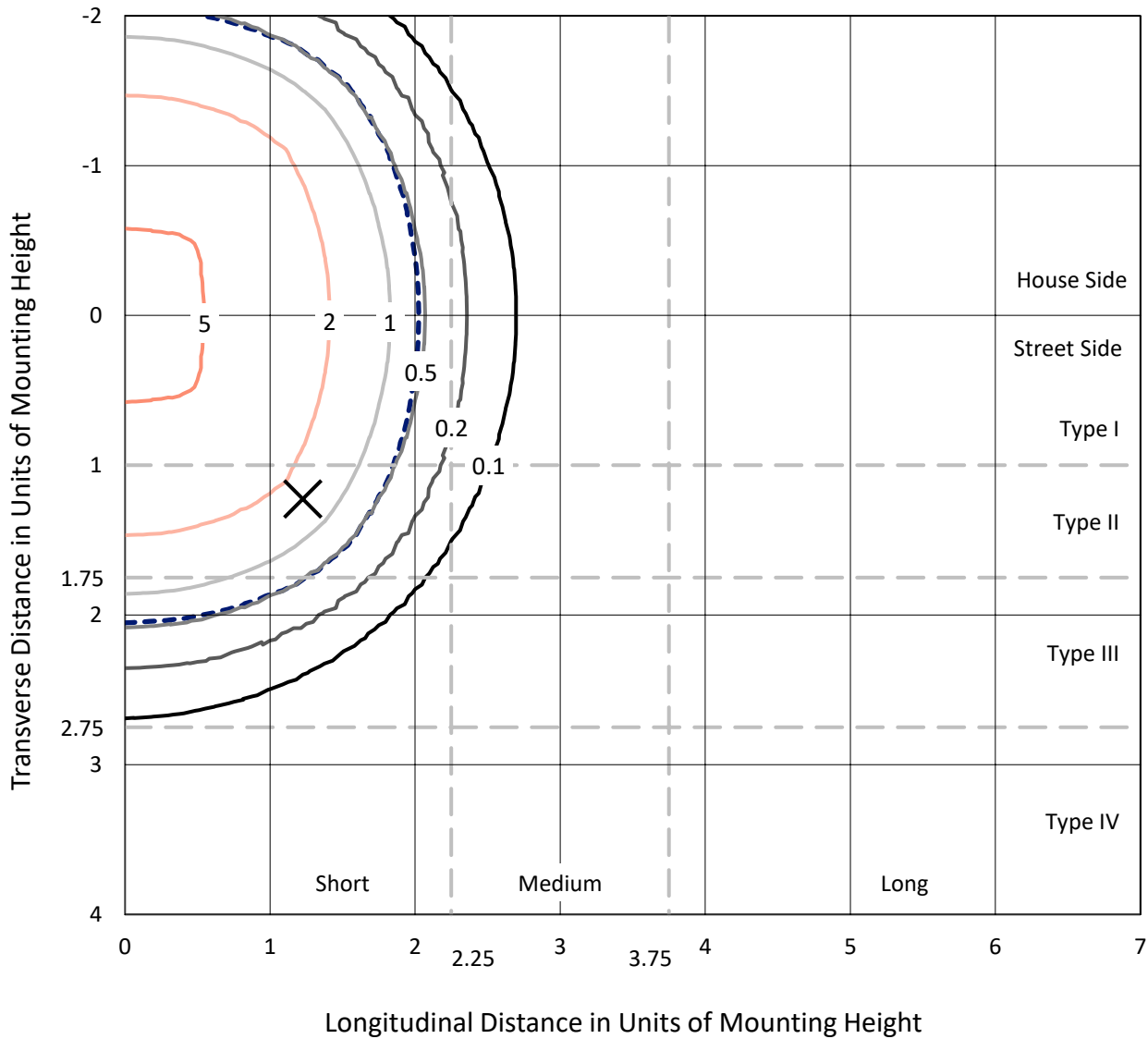
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

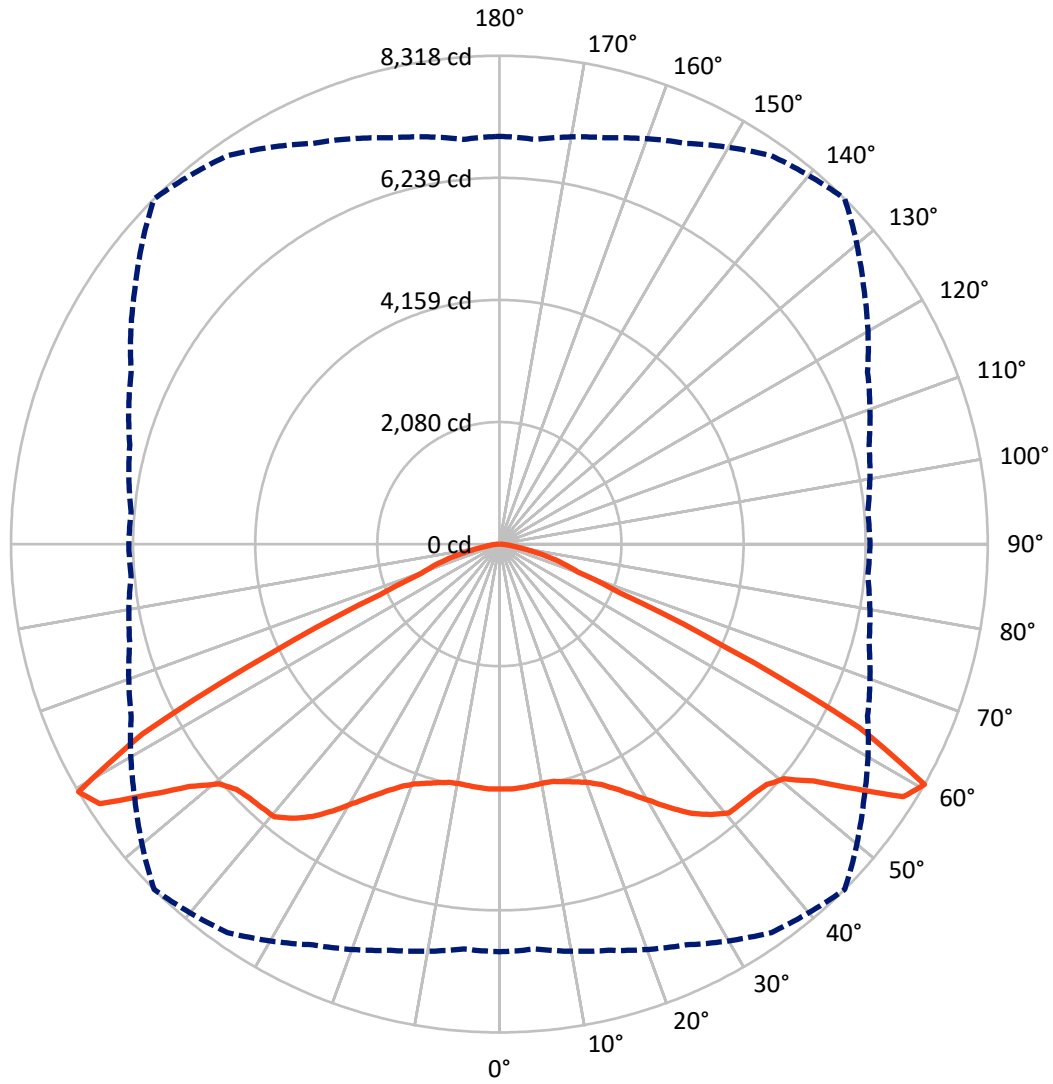
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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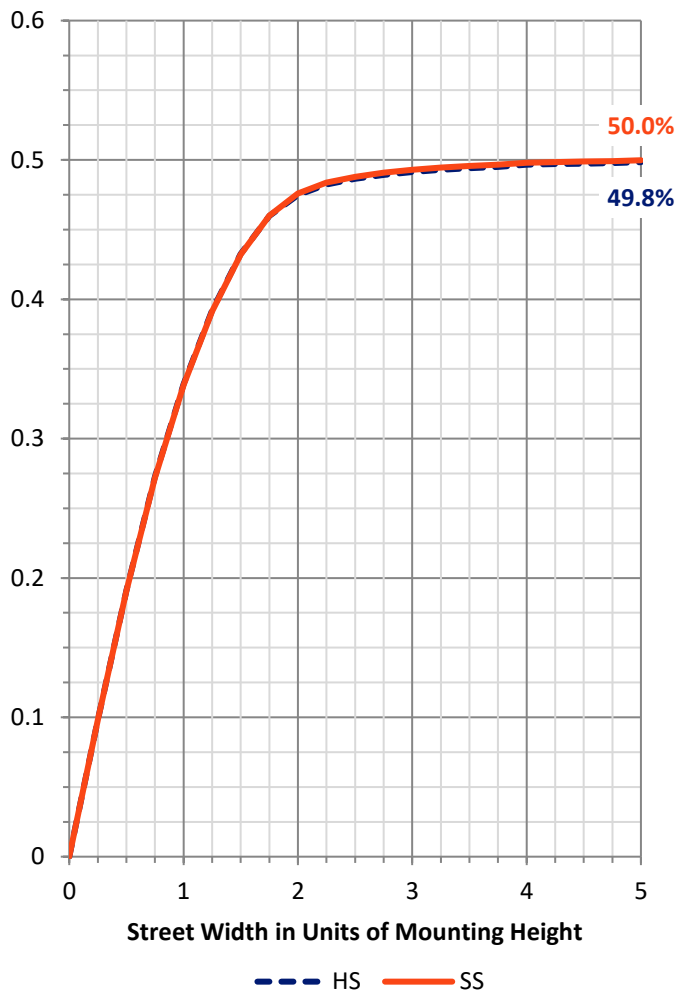
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11413.5	0.0	11413.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11413.5	0.0	11413.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22827.0	0.0	22827.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.6	1.7
10°-20°	1190.0	5.2
20°-30°	2105.2	9.2
30°-40°	3389.5	14.8
40°-50°	4658.8	20.4
50°-60°	6208.3	27.2
60°-70°	3869.3	17.0
70°-80°	889.7	3.9
80°-90°	120.7	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°	22827.0	100.0
0°-180°	22827.0	100.0

Coefficient of Utilization



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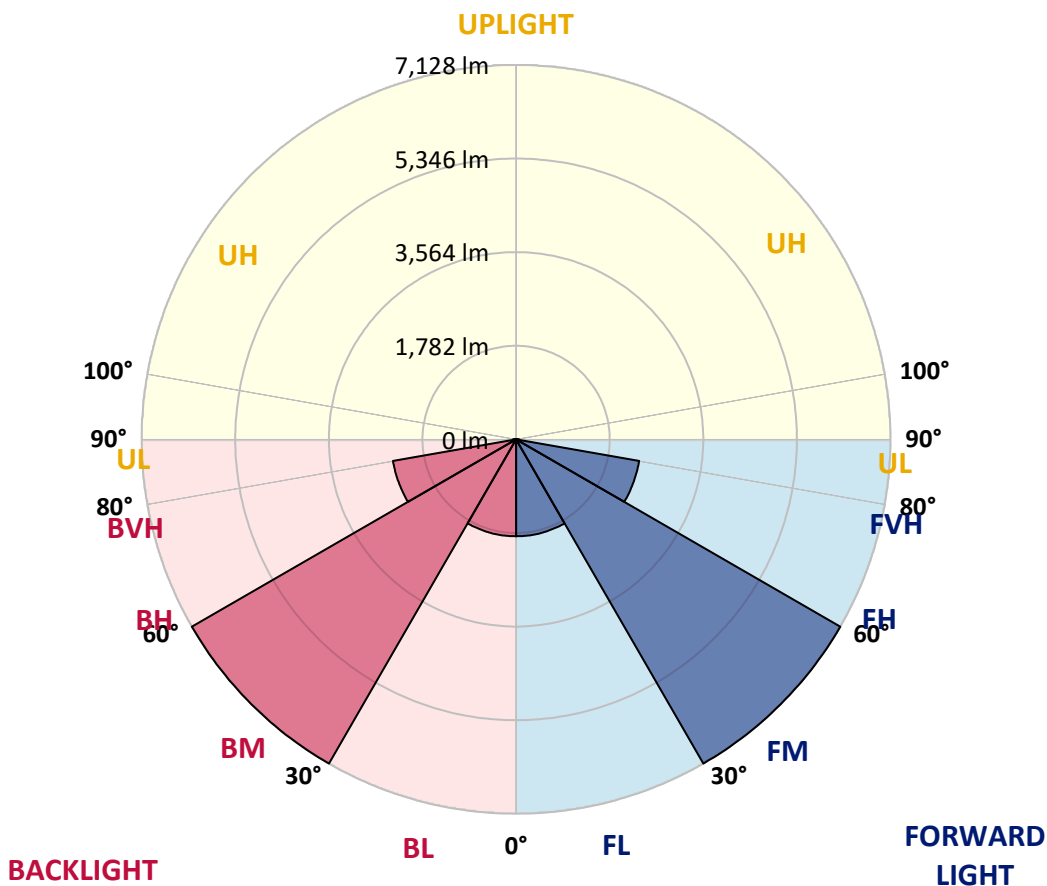
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1845.4	8.1			
FM (30°-60°)	7128.2	31.2			
FH (60°-80°)	2379.5	10.4			G2/5000
FVH (80°-90°)	60.4	0.3			G1/100
BL (0°-30°)	1845.4	8.1	B3/2500		
BM (30°-60°)	7128.2	31.2	B4/8500		
BH (60°-80°)	2379.5	10.4	B3/2500		G2/5000
BVH (80°-90°)	60.4	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°	4171.6	4171.6	4171.6	4171.6	4171.6	4171.6	4171.6	4171.6	4171.6	4171.6	4171.6
2.5°	4142.5	4146.4	4154.2	4160.0	4167.7	4175.5	4179.4	4171.6	4167.7	4152.2	4169.7
5°	4146.4	4150.3	4156.1	4156.1	4158.0	4163.9	4163.9	4154.2	4144.5	4127.0	4146.4
7.5°	4140.6	4144.5	4146.4	4144.5	4146.4	4148.4	4144.5	4132.9	4123.2	4107.7	4123.2
10°	4130.9	4134.8	4138.7	4134.8	4130.9	4136.7	4136.7	4129.0	4123.2	4107.7	4125.1
12.5°	4152.2	4158.0	4160.0	4150.3	4146.4	4148.4	4148.4	4140.6	4140.6	4127.0	4146.4
15°	4202.6	4206.5	4200.7	4189.0	4191.0	4196.8	4183.2	4163.9	4160.0	4154.2	4169.7
17.5°	4241.4	4245.2	4239.4	4231.7	4245.2	4258.8	4233.6	4196.8	4185.2	4181.3	4198.7
20°	4284.0	4289.8	4282.0	4291.7	4318.9	4334.4	4303.4	4253.0	4229.7	4223.9	4245.2
22.5°	4353.7	4361.5	4361.5	4382.8	4423.5	4448.7	4409.9	4342.1	4307.2	4297.5	4318.9
25°	4464.2	4470.0	4475.8	4518.4	4584.3	4619.2	4557.2	4464.2	4415.7	4400.2	4411.9
27.5°	4617.2	4626.9	4636.6	4698.6	4780.0	4830.4	4741.2	4625.0	4564.9	4533.9	4557.2
30°	4799.4	4812.9	4836.2	4905.9	5020.3	5076.4	4962.1	4820.7	4752.9	4719.9	4750.9
32.5°	5047.4	5049.3	5066.8	5144.3	5295.4	5359.3	5216.0	5059.0	4989.3	4950.5	4967.9
35°	5341.9	5343.8	5316.7	5396.1	5558.9	5630.6	5462.0	5303.1	5245.0	5233.4	5278.0
37.5°	5644.2	5626.7	5599.6	5634.5	5799.2	5845.7	5667.4	5531.8	5506.6	5527.9	5593.8
40°	5859.2	5830.2	5775.9	5801.1	5967.7	6022.0	5832.1	5704.2	5696.5	5748.8	5828.2
42.5°	5998.7	5967.7	5903.8	5903.8	6018.1	6041.4	5894.1	5826.3	5843.7	5903.8	5979.4
45°	6066.6	6049.1	6012.3	5992.9	6056.9	6066.6	5954.2	5927.0	5960.0	5989.0	6047.2
47.5°	6118.9	6118.9	6107.2	6087.9	6116.9	6122.7	6039.4	6031.7	6074.3	6074.3	6113.1
50°	6211.9	6221.6	6237.1	6233.2	6264.2	6283.6	6221.6	6209.9	6227.4	6171.2	6190.6
52.5°	6456.0	6481.2	6525.8	6560.6	6640.1	6700.1	6589.7	6496.7	6405.6	6281.6	6285.5
55°	6893.9	6905.5	6992.7	7095.4	7229.1	7351.2	7124.5	6835.8	6638.1	6492.8	6494.8
57.5°	7264.0	7281.4	7409.3	7624.4	7924.7	8114.6	7612.7	7130.3	6851.3	6673.0	6678.8
60°	6944.3	6921.0	7163.2	7531.4	8075.8	8318.0	7577.9	6919.1	6518.0	6297.1	6312.6
62.5°	5372.9	5328.3	5597.7	5983.2	6636.2	6878.4	6196.4	5564.7	5185.0	5012.5	4987.3
65°	3270.6	3229.9	3423.7	3660.1	4101.8	4254.9	3943.0	3607.8	3276.4	3171.8	3142.7
67.5°	1780.6	1774.8	1827.1	1943.4	2137.1	2208.8	2148.8	1989.9	1904.6	1831.0	1831.0
70°	1412.5	1400.9	1391.2	1393.1	1410.6	1420.2	1422.2	1414.4	1424.1	1426.1	1418.3
72.5°	1170.3	1166.4	1147.0	1149.0	1141.2	1137.4	1150.9	1158.7	1174.2	1176.1	1176.1
75°	848.7	839.0	848.7	850.6	842.8	842.8	852.5	850.6	858.3	862.2	840.9
77.5°	482.5	482.5	496.0	511.5	523.1	523.1	532.8	532.8	542.5	540.6	536.7
80°	265.4	265.4	273.2	282.9	294.5	306.1	315.8	317.8	323.6	321.6	315.8
82.5°	151.1	153.1	156.9	162.8	174.4	184.1	193.8	195.7	201.5	201.5	195.7
85°	71.7	69.8	71.7	75.6	81.4	89.1	98.8	104.6	108.5	108.5	104.6
87.5°	13.6	15.5	13.6	15.5	17.4	23.3	27.1	31.0	36.8	38.8	34.9
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)