

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: P638454

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-830-U-5MQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM 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: 21285.8 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

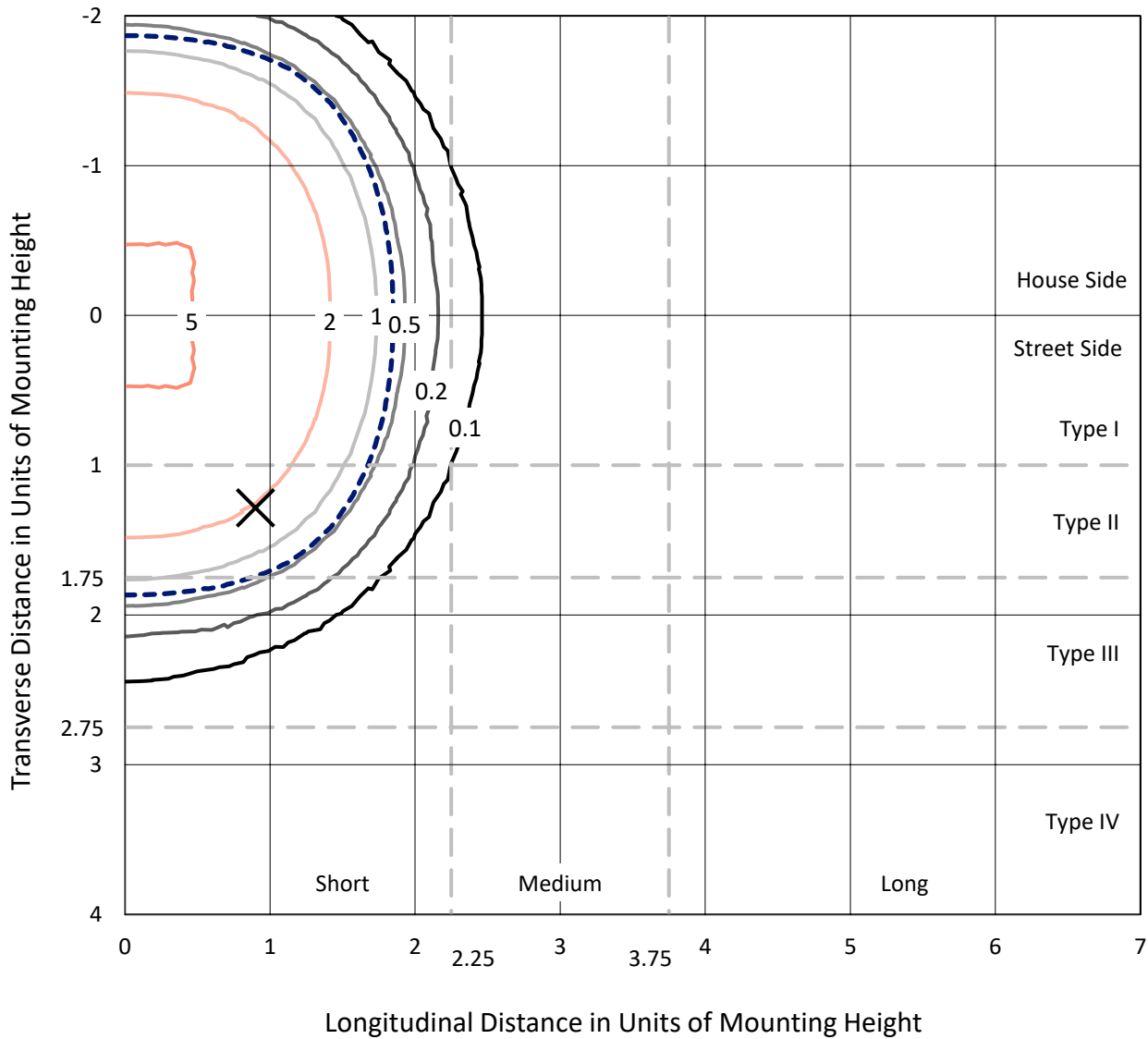
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

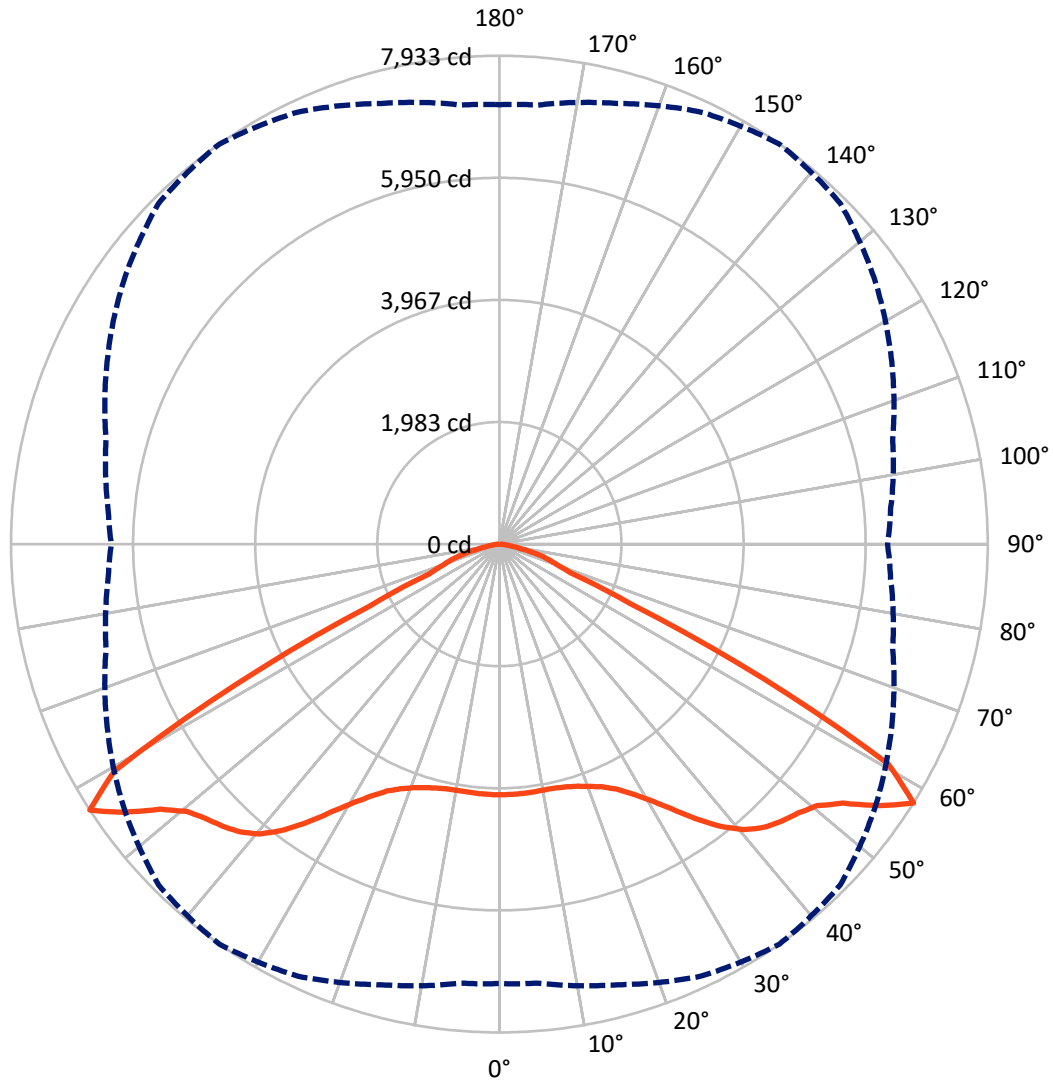
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	10642.9	0.0	10642.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10642.9	0.0	10642.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	21285.8	0.0	21285.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.5	1.8
10°-20°	1156.0	5.4
20°-30°	2017.0	9.5
30°-40°	3307.4	15.5
40°-50°	4871.0	22.9
50°-60°	6216.2	29.2
60°-70°	2619.8	12.3
70°-80°	625.8	2.9
80°-90°	85.2	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°	21285.8	100.0
0°-180°	21285.8	100.0

Coefficient of Utilization



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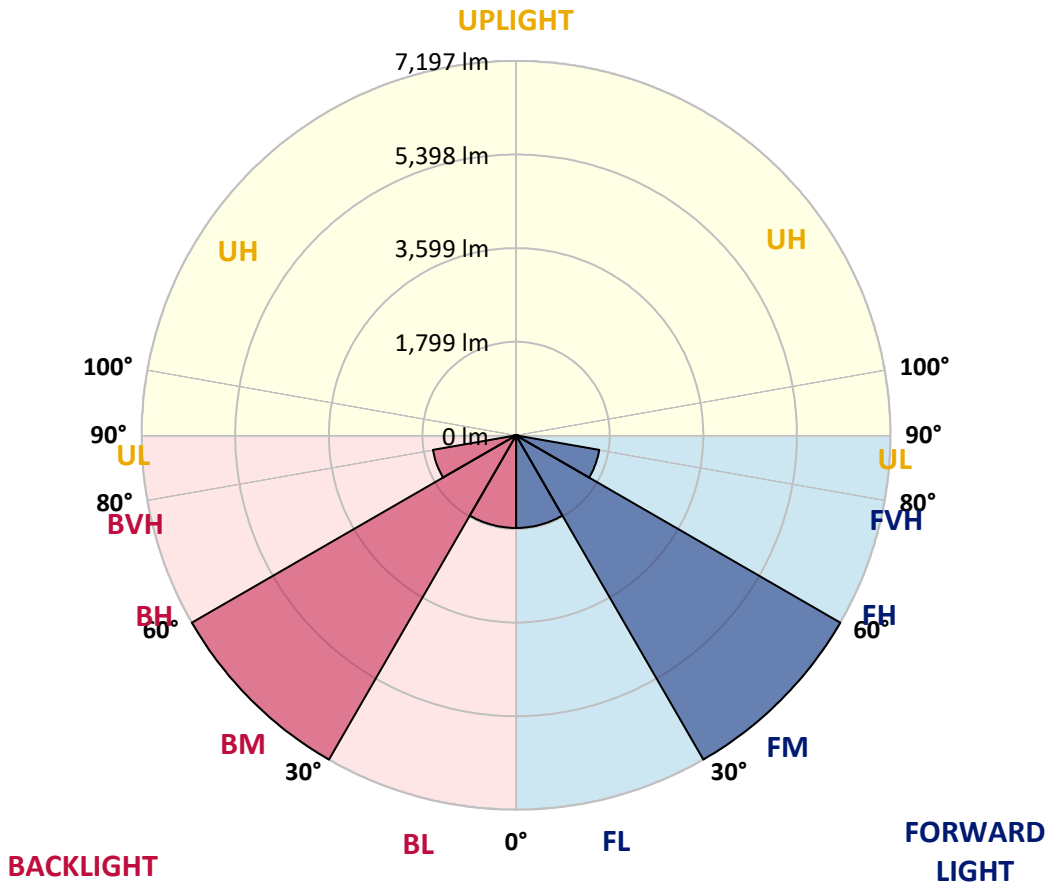
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1780.2	8.4			
FM (30°-60°)	7197.3	33.8			
FH (60°-80°)	1622.8	7.6			G1/1800
FVH (80°-90°)	42.6	0.2			G1/100
BL (0°-30°)	1780.2	8.4	B3/2500		
BM (30°-60°)	7197.3	33.8	B4/8500		
BH (60°-80°)	1622.8	7.6	B3/2500		G1/1800
BVH (80°-90°)	42.6	0.2			G1/100
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°	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8	4072.8
2.5°	4048.4	4048.4	4057.1	4065.8	4069.3	4085.0	4083.3	4078.0	4074.5	4064.1	4078.0
5°	4057.1	4057.1	4064.1	4069.3	4067.6	4079.8	4074.5	4065.8	4060.6	4050.1	4065.8
7.5°	4055.4	4055.4	4060.6	4065.8	4062.3	4072.8	4064.1	4051.9	4043.2	4032.7	4046.7
10°	4032.7	4036.2	4041.4	4053.6	4058.9	4074.5	4062.3	4043.2	4029.2	4017.0	4031.0
12.5°	4029.2	4032.7	4039.7	4055.4	4064.1	4086.7	4071.1	4039.7	4018.8	4003.1	4017.0
15°	4044.9	4048.4	4058.9	4078.0	4092.0	4116.4	4093.7	4050.1	4020.5	3999.6	4011.8
17.5°	4064.1	4069.3	4085.0	4112.9	4135.5	4161.7	4133.8	4081.5	4039.7	4011.8	4022.3
20°	4085.0	4092.0	4116.4	4158.2	4200.0	4233.1	4198.3	4128.6	4078.0	4041.4	4051.9
22.5°	4121.6	4130.3	4161.7	4220.9	4283.7	4332.5	4288.9	4194.8	4128.6	4081.5	4090.2
25°	4196.5	4207.0	4247.1	4318.5	4407.4	4466.7	4405.7	4299.4	4207.0	4149.5	4158.2
27.5°	4329.0	4334.2	4386.5	4480.6	4590.4	4658.4	4585.2	4459.7	4356.9	4290.6	4297.6
30°	4503.3	4518.9	4571.2	4695.0	4825.7	4916.3	4820.4	4672.3	4553.8	4473.6	4480.6
32.5°	4715.9	4726.3	4804.7	4933.7	5121.9	5226.5	5095.8	4919.8	4776.9	4679.3	4686.2
35°	4994.7	5003.4	5078.4	5242.2	5470.5	5568.1	5418.2	5216.0	5050.5	4958.1	4984.2
37.5°	5327.6	5343.3	5397.3	5559.4	5813.8	5909.6	5737.1	5548.9	5376.4	5291.0	5310.1
40°	5684.8	5683.1	5726.7	5869.6	6101.3	6160.6	6005.5	5855.6	5707.5	5651.7	5683.1
42.5°	5991.6	5982.8	6014.2	6132.7	6293.1	6298.3	6195.5	6111.8	6007.2	5968.9	5998.5
45°	6205.9	6209.4	6256.5	6338.4	6420.3	6376.7	6345.3	6331.4	6249.5	6197.2	6202.4
47.5°	6375.0	6388.9	6463.8	6519.6	6530.1	6456.9	6500.4	6521.4	6453.4	6373.2	6350.6
50°	6524.8	6547.5	6645.1	6704.3	6681.7	6589.3	6674.7	6706.1	6556.2	6402.8	6357.5
52.5°	6796.7	6822.8	6941.4	7018.0	6991.9	6899.5	6979.7	6868.2	6615.5	6427.2	6369.7
55°	7230.6	7242.8	7387.5	7513.0	7500.8	7387.5	7323.0	7075.5	6768.8	6573.6	6519.6
57.5°	7138.3	7159.2	7410.2	7744.8	7933.0	7830.2	7452.0	7030.2	6613.7	6378.4	6305.3
60°	5616.9	5667.4	5979.4	6568.4	7258.5	7256.8	6554.5	5899.2	5397.3	5085.3	5054.0
62.5°	3279.8	3314.7	3598.8	4194.8	4813.5	4851.8	4358.6	3909.0	3469.8	3258.9	3157.9
65°	1552.8	1551.0	1664.3	1932.7	2351.0	2384.1	2235.9	1990.2	1730.5	1659.1	1639.9
67.5°	1146.7	1146.7	1138.0	1157.2	1237.3	1254.8	1237.3	1197.3	1172.9	1188.6	1178.1
70°	995.1	996.8	986.4	981.2	981.2	975.9	982.9	998.6	1009.0	1030.0	1019.5
72.5°	806.9	808.6	808.6	810.4	812.1	805.1	815.6	824.3	826.1	833.0	826.1
75°	573.4	576.8	587.3	596.0	603.0	603.0	606.5	608.2	601.2	610.0	596.0
77.5°	315.4	318.9	338.1	353.8	369.5	371.2	376.4	379.9	376.4	383.4	372.9
80°	174.3	177.8	186.5	193.4	205.6	216.1	223.1	226.6	226.6	231.8	226.6
82.5°	99.3	102.8	108.1	111.5	122.0	130.7	137.7	142.9	142.9	144.6	141.2
85°	47.1	47.1	50.5	54.0	59.3	62.7	71.5	76.7	76.7	80.2	76.7
87.5°	7.0	8.7	10.5	10.5	13.9	17.4	20.9	22.7	26.1	27.9	27.9
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)