

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: P638185

Luminaire Tested: GWS-SA4E-735-U-5WQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638185
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25491.1 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

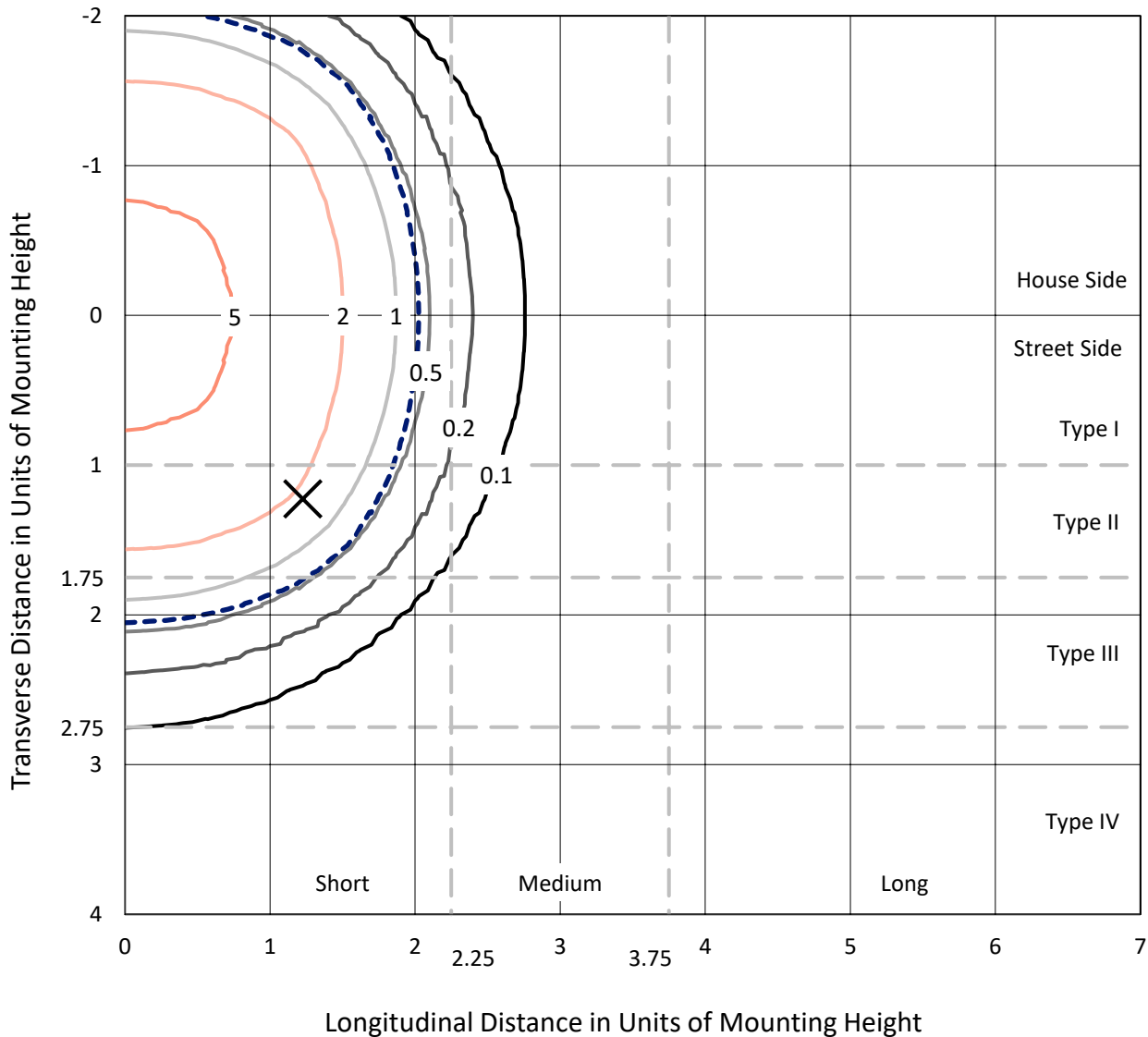
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

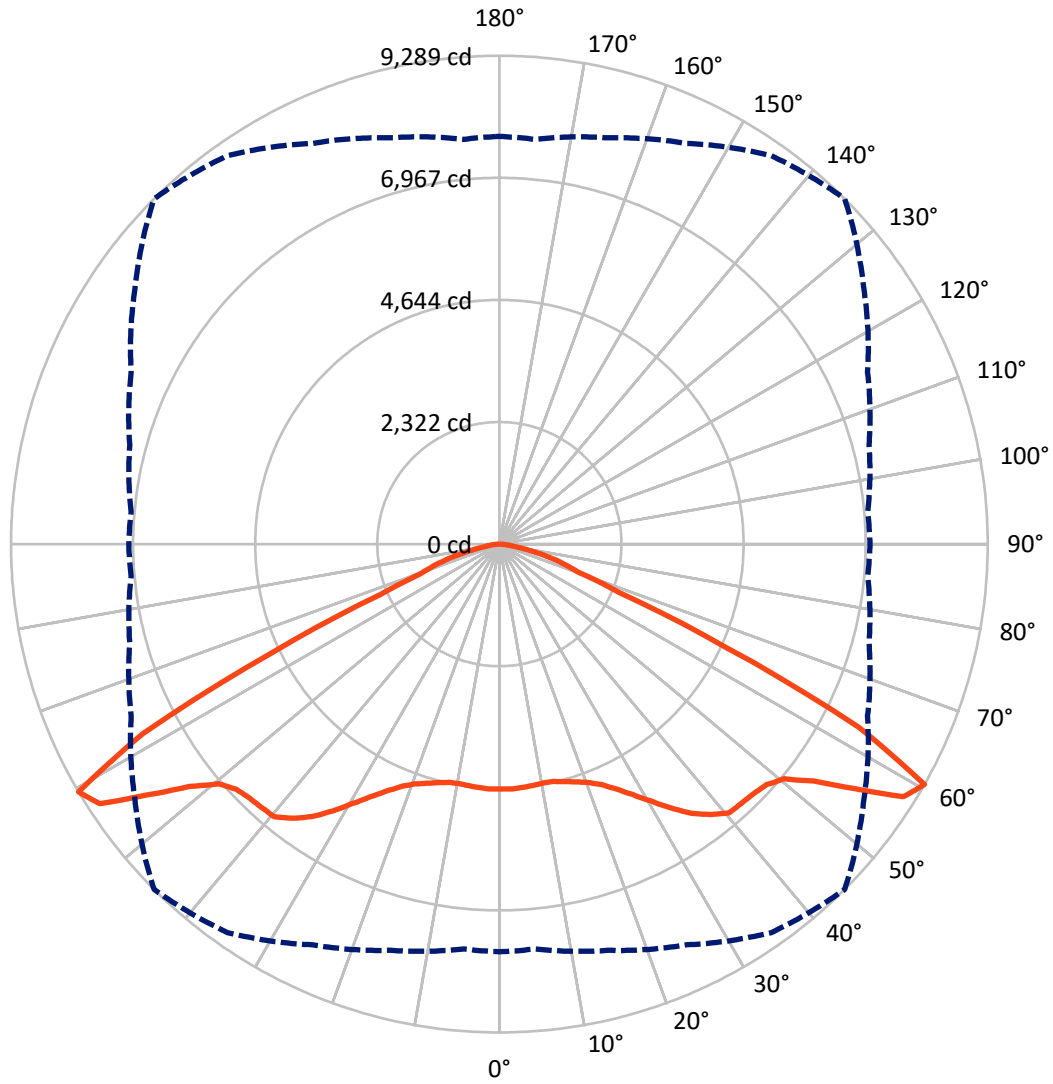
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	12745.6	0.0	12745.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12745.6	0.0	12745.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	25491.1	0.0	25491.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.8	1.7
10°-20°	1328.8	5.2
20°-30°	2350.9	9.2
30°-40°	3785.0	14.8
40°-50°	5202.5	20.4
50°-60°	6932.8	27.2
60°-70°	4320.8	17.0
70°-80°	993.6	3.9
80°-90°	134.8	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°	25491.1	100.0
0°-180°	25491.1	100.0

Coefficient of Utilization



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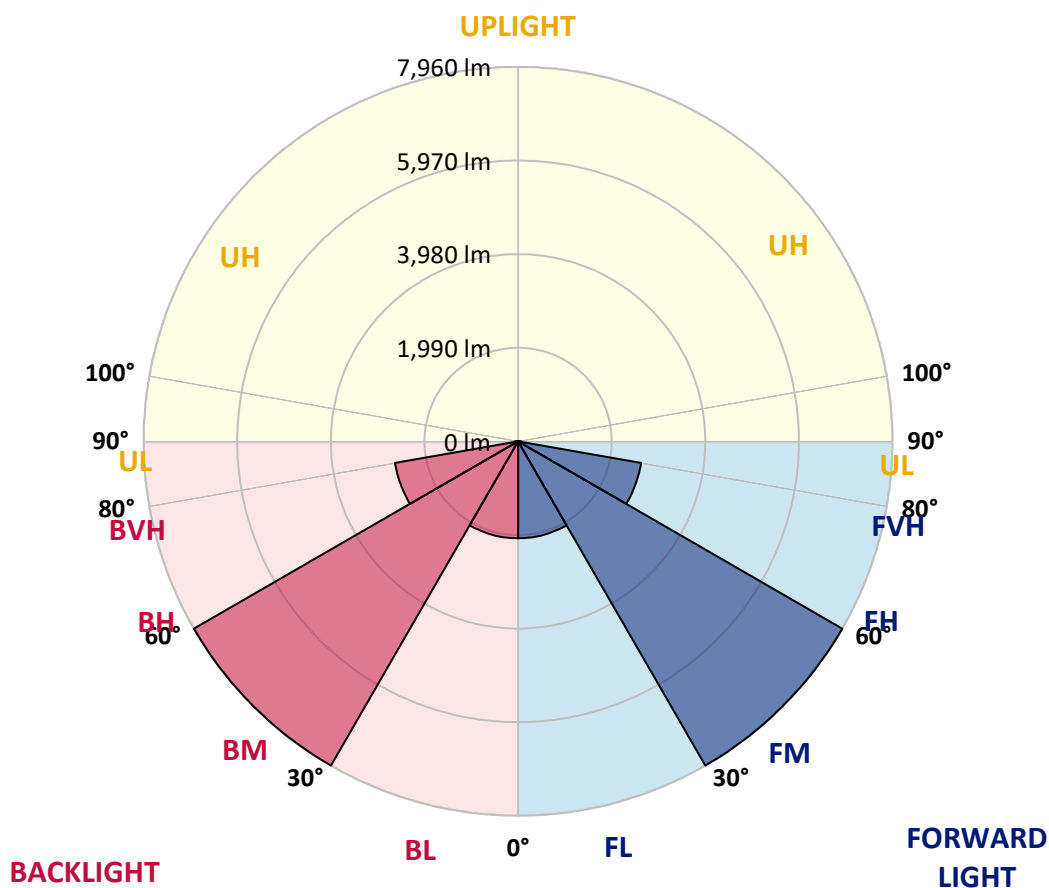
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2060.8	8.1			
FM (30°-60°)	7960.2	31.2			
FH (60°-80°)	2657.2	10.4			G2/5000
FVH (80°-90°)	67.4	0.3			G1/100
BL (0°-30°)	2060.8	8.1	B3/2500		
BM (30°-60°)	7960.2	31.2	B4/8500		
BH (60°-80°)	2657.2	10.4	B4/5000		G2/5000
BVH (80°-90°)	67.4	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°	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5	4658.5
2.5°	4626.0	4630.3	4639.0	4645.5	4654.1	4662.8	4667.1	4658.5	4654.1	4636.8	4656.3
5°	4630.3	4634.7	4641.2	4641.2	4643.3	4649.8	4649.8	4639.0	4628.2	4608.7	4630.3
7.5°	4623.8	4628.2	4630.3	4628.2	4630.3	4632.5	4628.2	4615.2	4604.4	4587.1	4604.4
10°	4613.0	4617.4	4621.7	4617.4	4613.0	4619.5	4619.5	4610.9	4604.4	4587.1	4606.5
12.5°	4636.8	4643.3	4645.5	4634.7	4630.3	4632.5	4632.5	4623.8	4623.8	4608.7	4630.3
15°	4693.1	4697.4	4690.9	4677.9	4680.1	4686.6	4671.4	4649.8	4645.5	4639.0	4656.3
17.5°	4736.4	4740.7	4734.2	4725.5	4740.7	4755.8	4727.7	4686.6	4673.6	4669.3	4688.8
20°	4784.0	4790.4	4781.8	4792.6	4822.9	4840.2	4805.6	4749.3	4723.4	4716.9	4740.7
22.5°	4861.9	4870.5	4870.5	4894.3	4939.7	4967.9	4924.6	4848.9	4809.9	4799.1	4822.9
25°	4985.2	4991.7	4998.2	5045.8	5119.3	5158.3	5089.0	4985.2	4931.1	4913.8	4926.8
27.5°	5156.1	5166.9	5177.8	5247.0	5337.9	5394.1	5294.6	5164.8	5097.7	5063.1	5089.0
30°	5359.5	5374.6	5400.6	5478.5	5606.2	5668.9	5541.3	5383.3	5307.6	5270.8	5305.4
32.5°	5636.5	5638.6	5658.1	5744.6	5913.4	5984.8	5824.7	5649.4	5571.5	5528.3	5547.7
35°	5965.3	5967.5	5937.2	6025.9	6207.7	6287.7	6099.5	5922.1	5857.2	5844.2	5893.9
37.5°	6302.9	6283.4	6253.1	6292.1	6476.0	6527.9	6328.8	6177.4	6149.3	6173.1	6246.6
40°	6543.1	6510.6	6450.0	6478.1	6664.2	6724.8	6512.8	6370.0	6361.3	6419.7	6508.4
42.5°	6698.8	6664.2	6592.8	6592.8	6720.5	6746.4	6582.0	6506.3	6525.7	6592.8	6677.2
45°	6774.6	6755.1	6714.0	6692.3	6763.7	6774.6	6649.1	6618.8	6655.6	6688.0	6752.9
47.5°	6833.0	6833.0	6820.0	6798.4	6830.8	6837.3	6744.3	6735.6	6783.2	6783.2	6826.5
50°	6936.8	6947.7	6965.0	6960.6	6995.3	7016.9	6947.7	6934.7	6954.2	6891.4	6913.0
52.5°	7209.5	7237.6	7287.4	7326.3	7415.0	7482.1	7358.8	7254.9	7153.2	7014.7	7019.1
55°	7698.5	7711.5	7808.8	7923.5	8072.8	8209.1	7956.0	7633.6	7412.9	7250.6	7252.7
57.5°	8111.7	8131.2	8274.0	8514.2	8849.6	9061.6	8501.2	7962.4	7650.9	7451.8	7458.3
60°	7754.7	7728.8	7999.2	8410.3	9018.3	9288.8	8462.3	7726.6	7278.7	7032.0	7049.4
62.5°	6000.0	5950.2	6251.0	6681.5	7410.7	7681.2	6919.5	6214.2	5790.1	5597.5	5569.4
65°	3652.3	3606.9	3823.3	4087.2	4580.6	4751.5	4403.1	4028.8	3658.8	3542.0	3509.5
67.5°	1988.4	1982.0	2040.4	2170.2	2386.6	2466.6	2399.6	2222.1	2126.9	2044.7	2044.7
70°	1577.3	1564.4	1553.5	1555.7	1575.2	1586.0	1588.2	1579.5	1590.3	1592.5	1583.8
72.5°	1306.9	1302.6	1280.9	1283.1	1274.4	1270.1	1285.2	1293.9	1311.2	1313.4	1313.4
75°	947.7	936.9	947.7	949.9	941.2	941.2	952.0	949.9	958.5	962.8	939.0
77.5°	538.8	538.8	553.9	571.2	584.2	584.2	595.0	595.0	605.8	603.7	599.3
80°	296.4	296.4	305.1	315.9	328.9	341.9	352.7	354.8	361.3	359.2	352.7
82.5°	168.8	170.9	175.3	181.8	194.7	205.6	216.4	218.5	225.0	225.0	218.5
85°	80.1	77.9	80.1	84.4	90.9	99.5	110.3	116.8	121.2	121.2	116.8
87.5°	15.1	17.3	15.1	17.3	19.5	26.0	30.3	34.6	41.1	43.3	38.9
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)