

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: P638732

Luminaire Tested: GWS-SA4F-740-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-740-U-5NQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30845.2 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

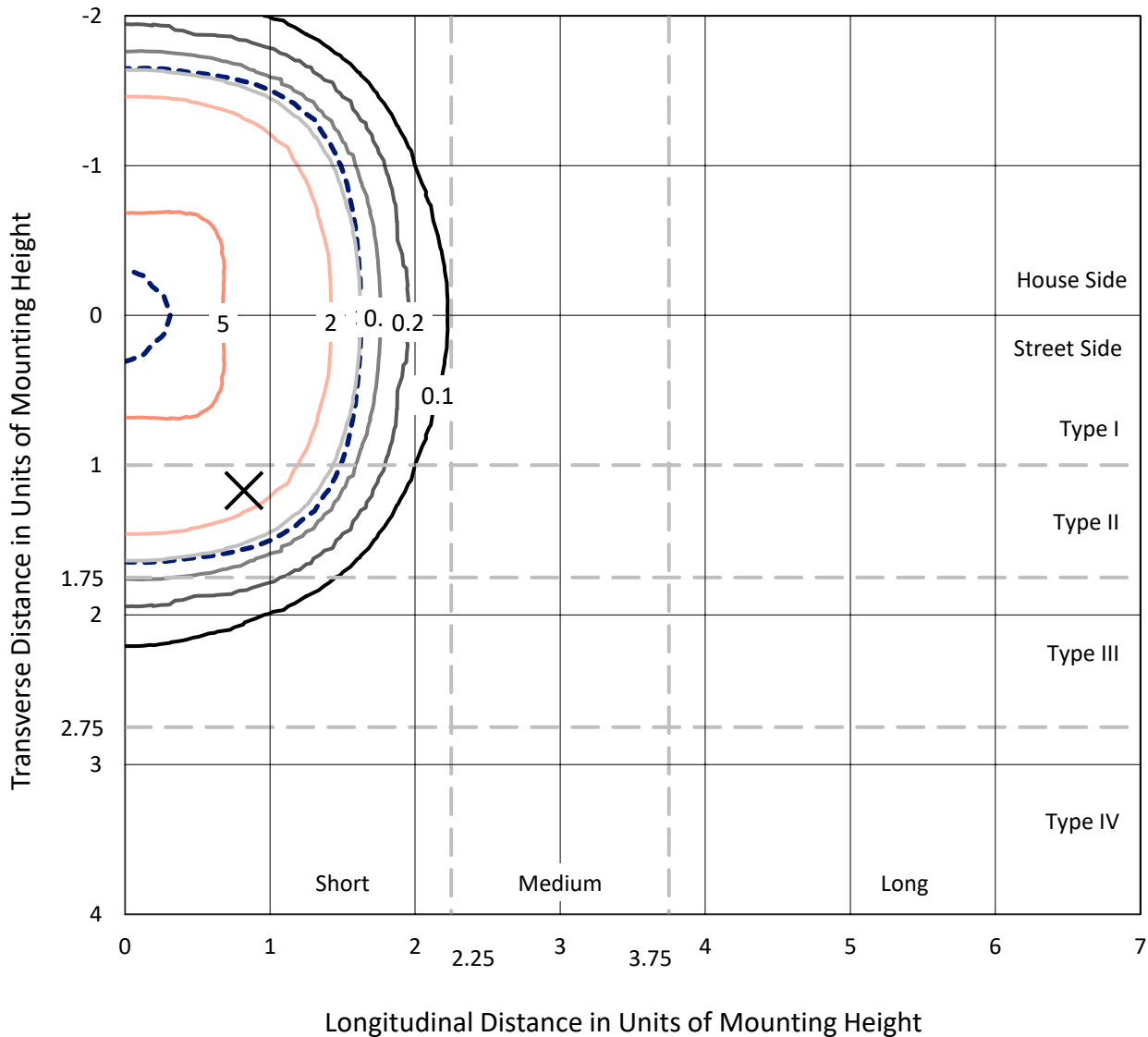
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

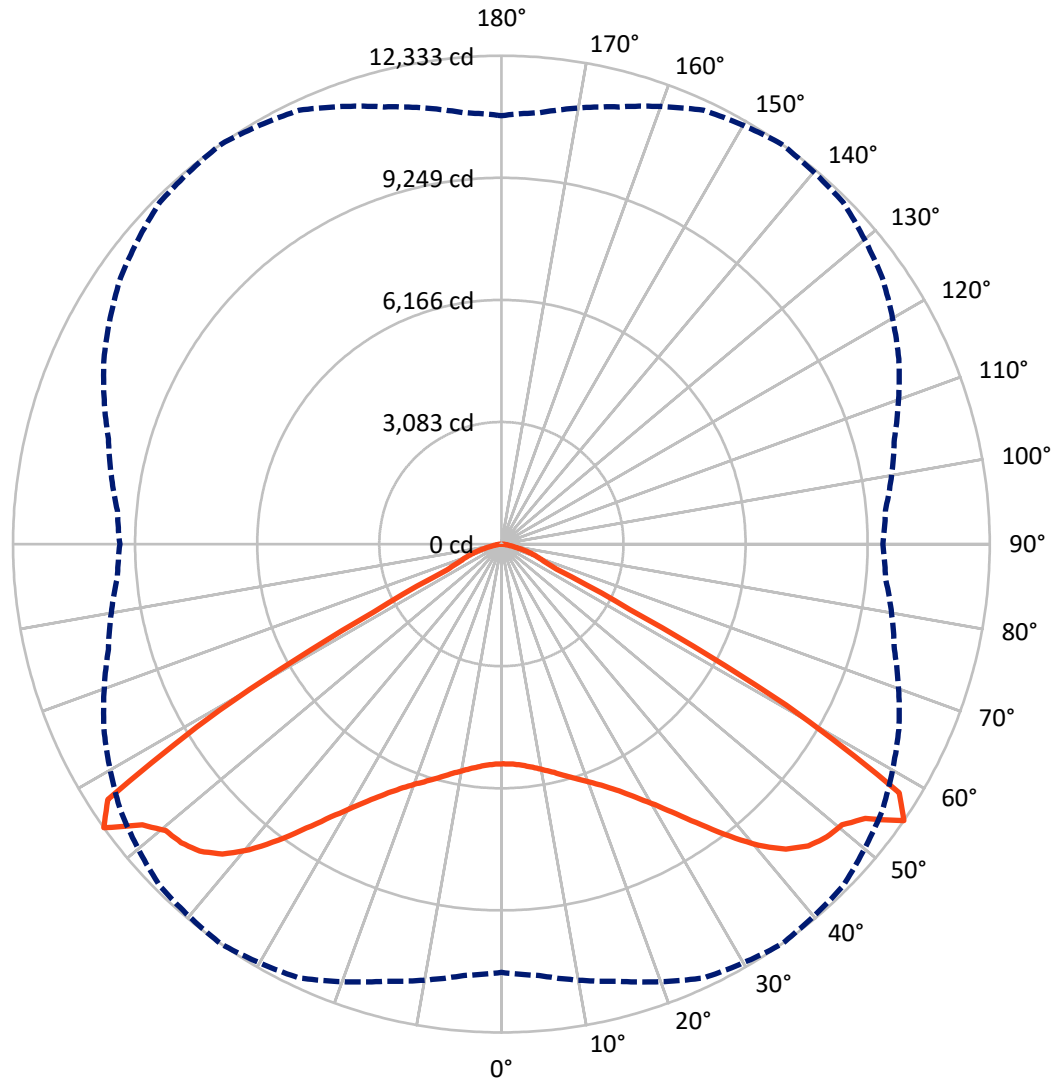
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15422.6	0.0	15422.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15422.6	0.0	15422.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	30845.2	0.0	30845.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.2	1.8
10°-20°	1723.2	5.6
20°-30°	3189.3	10.3
30°-40°	5335.1	17.3
40°-50°	8129.8	26.4
50°-60°	9107.1	29.5
60°-70°	2154.8	7.0
70°-80°	580.9	1.9
80°-90°	83.6	0.3
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°	30845.2	100.0
0°-180°	30845.2	100.0

Coefficient of Utilization



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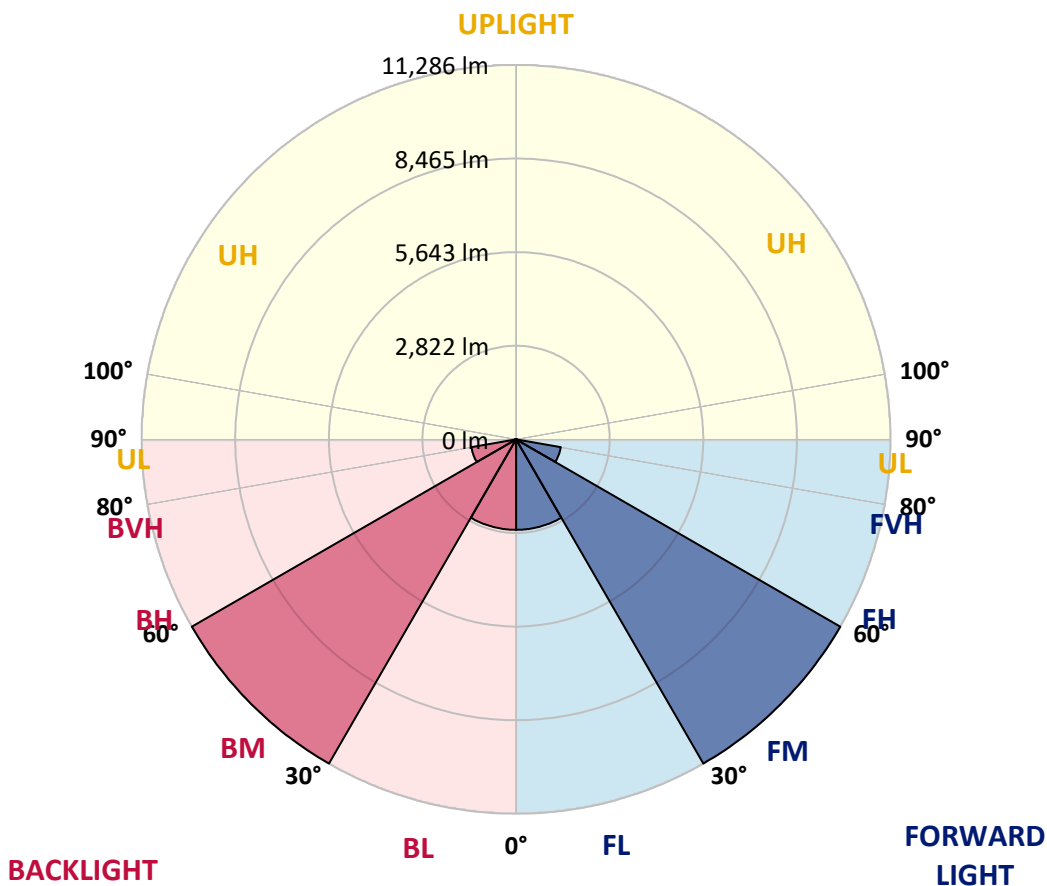
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2726.9	8.8			
FM (30°-60°)	11286.0	36.6			
FH (60°-80°)	1367.9	4.4			G1/1800
FVH (80°-90°)	41.8	0.1			G1/100
BL (0°-30°)	2726.9	8.8	B4/5000		
BM (30°-60°)	11286.0	36.6	B5		
BH (60°-80°)	1367.9	4.4	B3/2500		G1/1800
BVH (80°-90°)	41.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5549.1	5549.1	5549.1	5549.1	5549.1	5549.1	5549.1	5549.1	5549.1	5549.1	5549.1
2.5°	5536.9	5536.9	5546.7	5558.9	5561.3	5585.7	5580.8	5571.1	5566.2	5556.5	5578.4
5°	5597.9	5600.4	5607.7	5615.0	5610.1	5629.6	5622.3	5610.1	5602.8	5590.6	5612.6
7.5°	5678.4	5678.4	5685.7	5695.5	5690.6	5719.9	5705.2	5688.2	5676.0	5661.3	5680.8
10°	5751.6	5756.5	5763.8	5783.3	5793.1	5824.8	5815.0	5790.6	5771.1	5754.0	5776.0
12.5°	5861.3	5866.2	5873.5	5900.4	5917.5	5949.2	5934.5	5900.4	5871.1	5846.7	5871.1
15°	6002.8	5997.9	6017.5	6051.6	6073.6	6102.8	6085.8	6027.2	5988.2	5956.5	5980.9
17.5°	6146.7	6144.3	6163.8	6207.7	6239.4	6278.4	6249.2	6180.9	6139.4	6100.4	6124.8
20°	6302.8	6310.2	6329.7	6371.1	6417.5	6468.7	6444.3	6371.1	6324.8	6280.9	6300.4
22.5°	6495.5	6498.0	6519.9	6573.6	6634.6	6683.4	6668.7	6578.5	6519.9	6473.6	6498.0
25°	6727.3	6724.8	6754.1	6817.5	6902.9	6951.7	6920.0	6819.9	6756.5	6702.9	6722.4
27.5°	6993.1	6990.7	7034.6	7117.5	7239.5	7307.8	7241.9	7117.5	7029.7	6954.1	6971.2
30°	7327.3	7320.0	7368.8	7481.0	7639.5	7754.2	7656.6	7483.4	7368.8	7288.3	7305.3
32.5°	7698.1	7707.8	7768.8	7920.0	8120.0	8268.8	8122.5	7929.8	7776.1	7659.0	7678.5
35°	8105.4	8105.4	8229.8	8417.6	8703.0	8900.6	8673.7	8395.7	8190.8	8029.8	8034.7
37.5°	8559.1	8564.0	8727.4	8985.9	9359.1	9590.9	9283.5	8939.6	8690.8	8517.6	8507.9
40°	9112.8	9127.4	9295.7	9583.5	10003.1	10215.3	9886.0	9549.4	9295.7	9090.8	9071.3
42.5°	9737.2	9742.1	9920.1	10178.7	10532.4	10659.2	10400.7	10125.0	9917.7	9732.3	9712.8
45°	10332.4	10320.2	10473.8	10666.5	10871.4	10883.6	10739.7	10627.5	10447.0	10288.5	10259.2
47.5°	10795.8	10786.1	10925.1	11030.0	11054.4	10934.8	10981.2	10998.3	10788.5	10573.8	10517.7
50°	11078.8	11098.3	11230.0	11288.5	11144.6	10949.5	11125.1	11081.2	10781.2	10500.7	10410.4
52.5°	11249.5	11278.8	11508.1	11656.8	11508.1	11322.7	11347.1	11088.5	10656.8	10286.0	10168.9
55°	10817.8	10934.8	11430.0	12088.6	12332.5	12203.2	11739.8	11073.9	10273.8	9734.8	9634.8
57.5°	8017.6	8203.0	8937.2	10364.1	11847.1	12317.9	10964.1	9283.5	8071.2	7378.5	7320.0
60°	4092.9	4300.3	4888.1	6354.1	8261.5	8925.0	7637.1	5944.3	4724.7	4163.7	4100.3
62.5°	1670.8	1705.0	1897.7	2463.6	3651.5	4212.5	3700.2	2597.7	1951.3	1797.7	1800.1
65°	1314.7	1322.0	1312.3	1346.4	1529.4	1697.7	1568.4	1378.1	1344.0	1361.1	1348.9
67.5°	1146.4	1148.9	1141.5	1141.5	1148.9	1141.5	1156.2	1163.5	1168.4	1187.9	1175.7
70°	958.6	961.0	961.0	965.9	963.5	951.3	973.2	983.0	985.4	997.6	990.3
72.5°	741.5	748.8	753.7	756.1	753.7	746.4	758.6	775.7	773.2	785.4	773.2
75°	502.5	512.2	517.1	526.9	524.4	524.4	539.1	546.4	539.1	548.8	539.1
77.5°	285.4	292.7	307.3	317.1	326.9	334.2	343.9	348.8	346.4	351.2	346.4
80°	165.9	168.3	180.5	185.4	197.6	209.8	219.5	224.4	226.8	229.3	226.8
82.5°	95.1	97.6	102.4	107.3	117.1	126.8	136.6	143.9	143.9	146.4	143.9
85°	46.3	46.3	48.8	51.2	56.1	63.4	70.7	78.1	80.5	80.5	80.5
87.5°	7.3	7.3	9.8	9.8	12.2	14.6	19.5	24.4	26.8	26.8	26.8
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)