

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: P641210

Luminaire Tested: GWS-SA5F-740-U-5WQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641210
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-SA5F-740-U-5WQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35250 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

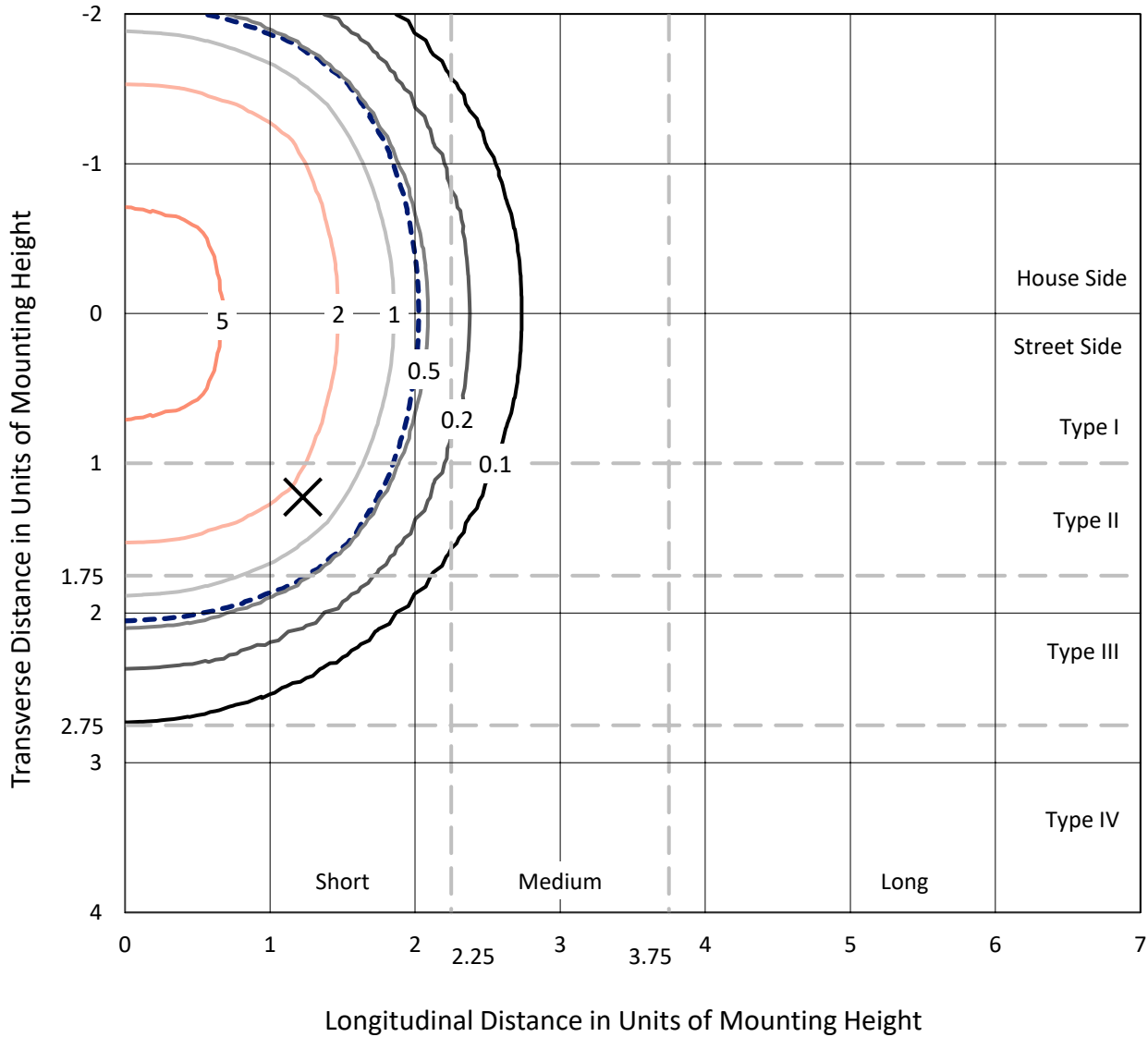
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

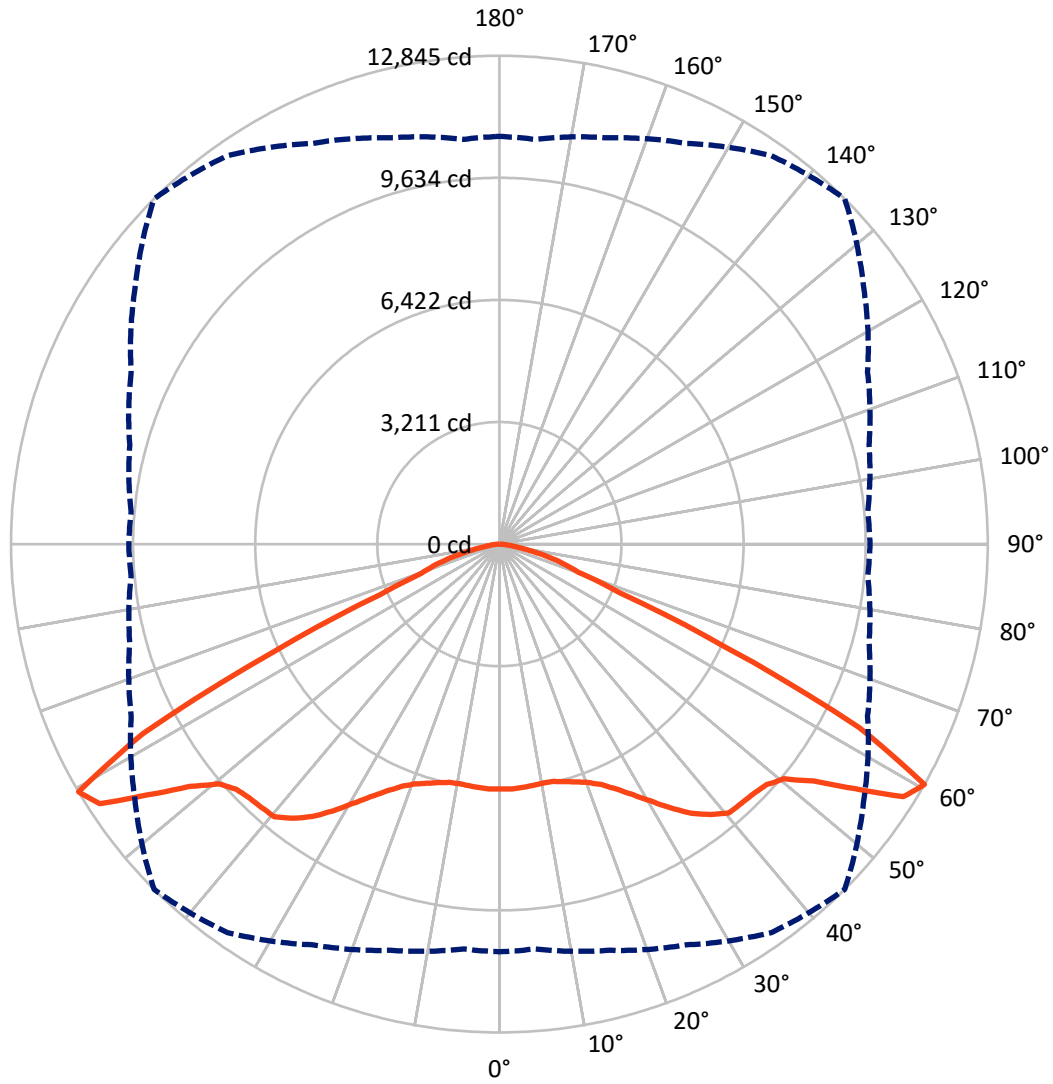
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 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	17625.0	0.0	17625.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17625.0	0.0	17625.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35250.0	0.0	35250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.9	1.7
10°-20°	1837.6	5.2
20°-30°	3250.9	9.2
30°-40°	5234.1	14.8
40°-50°	7194.2	20.4
50°-60°	9586.9	27.2
60°-70°	5975.0	17.0
70°-80°	1374.0	3.9
80°-90°	186.4	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°	35250.0	100.0
0°-180°	35250.0	100.0

Coefficient of Utilization



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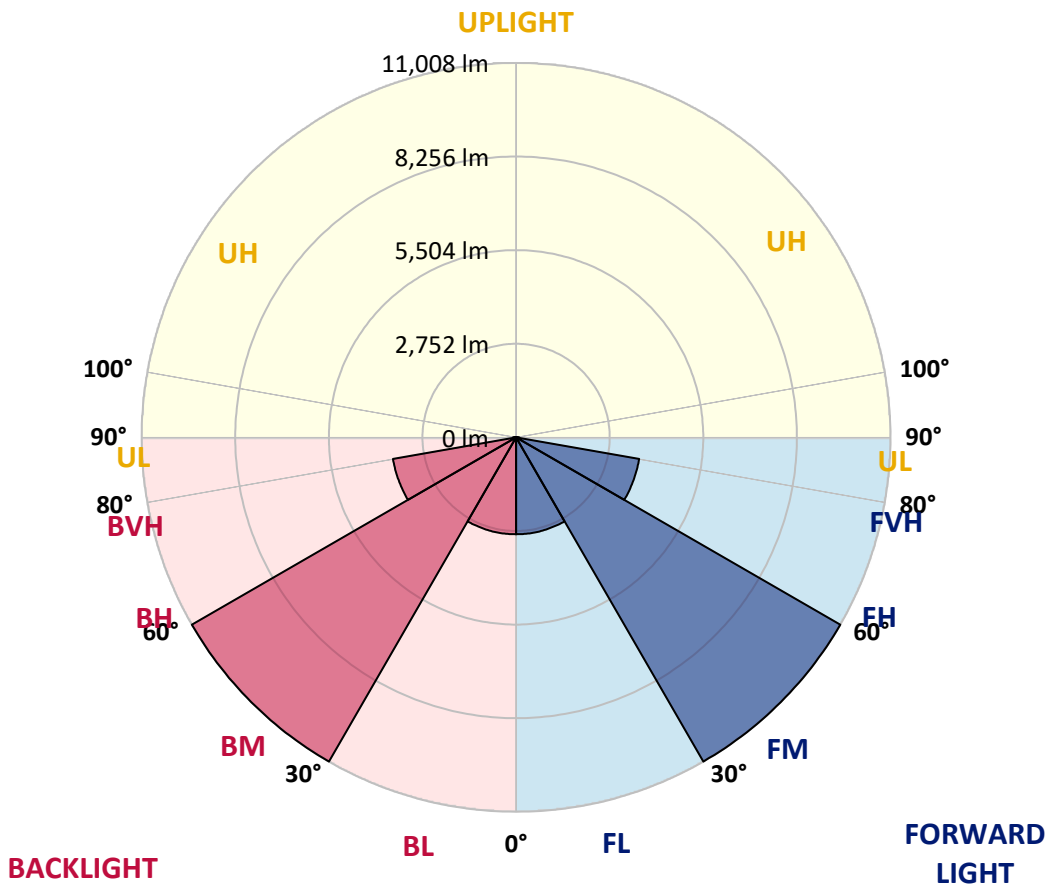
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2849.7	8.1			
FM (30°-60°)	11007.6	31.2			
FH (60°-80°)	3674.5	10.4			G2/5000
FVH (80°-90°)	93.2	0.3			G1/100
BL (0°-30°)	2849.7	8.1	B4/5000		
BM (30°-60°)	11007.6	31.2	B5		
BH (60°-80°)	3674.5	10.4	B4/5000		G2/5000
BVH (80°-90°)	93.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6441.9	6441.9	6441.9	6441.9	6441.9	6441.9	6441.9	6441.9	6441.9	6441.9	6441.9
2.5°	6397.0	6403.0	6415.0	6423.9	6435.9	6447.9	6453.9	6441.9	6435.9	6412.0	6438.9
5°	6403.0	6409.0	6418.0	6418.0	6420.9	6429.9	6429.9	6415.0	6400.0	6373.1	6403.0
7.5°	6394.0	6400.0	6403.0	6400.0	6403.0	6406.0	6400.0	6382.0	6367.1	6343.1	6367.1
10°	6379.1	6385.0	6391.0	6385.0	6379.1	6388.0	6388.0	6376.1	6367.1	6343.1	6370.1
12.5°	6412.0	6420.9	6423.9	6409.0	6403.0	6406.0	6406.0	6394.0	6394.0	6373.1	6403.0
15°	6489.8	6495.7	6486.8	6468.8	6471.8	6480.8	6459.8	6429.9	6423.9	6415.0	6438.9
17.5°	6549.6	6555.6	6546.6	6534.6	6555.6	6576.5	6537.6	6480.8	6462.8	6456.8	6483.8
20°	6615.4	6624.4	6612.4	6627.4	6669.3	6693.2	6645.3	6567.6	6531.6	6522.7	6555.6
22.5°	6723.1	6735.1	6735.1	6768.0	6830.9	6869.8	6809.9	6705.2	6651.3	6636.4	6669.3
25°	6893.7	6902.7	6911.6	6977.5	7079.2	7133.1	7037.3	6893.7	6818.9	6794.9	6812.9
27.5°	7130.1	7145.0	7160.0	7255.7	7381.4	7459.2	7321.6	7142.0	7049.3	7001.4	7037.3
30°	7411.3	7432.3	7468.2	7575.9	7752.4	7839.2	7662.6	7444.2	7339.5	7288.6	7336.5
32.5°	7794.3	7797.3	7824.2	7943.9	8177.3	8276.0	8054.6	7812.2	7704.5	7644.7	7671.6
35°	8249.1	8252.1	8210.2	8332.9	8584.2	8694.9	8434.6	8189.2	8099.5	8081.5	8150.3
37.5°	8715.8	8688.9	8647.0	8700.9	8955.2	9027.0	8751.8	8542.3	8503.4	8536.3	8638.1
40°	9048.0	9003.1	8919.3	8958.2	9215.5	9299.3	9006.1	8808.6	8796.6	8877.4	9000.1
42.5°	9263.4	9215.5	9116.8	9116.8	9293.3	9329.2	9101.8	8997.1	9024.0	9116.8	9233.5
45°	9368.1	9341.2	9284.3	9254.4	9353.2	9368.1	9194.6	9152.7	9203.6	9248.4	9338.2
47.5°	9448.9	9448.9	9430.9	9401.0	9445.9	9454.9	9326.2	9314.3	9380.1	9380.1	9439.9
50°	9592.5	9607.5	9631.4	9625.4	9673.3	9703.2	9607.5	9589.5	9616.5	9529.7	9559.6
52.5°	9969.5	10008.4	10077.2	10131.1	10253.8	10346.5	10176.0	10032.3	9891.7	9700.2	9706.2
55°	10645.7	10663.7	10798.3	10956.9	11163.3	11351.8	11001.8	10556.0	10250.8	10026.4	10029.4
57.5°	11217.2	11244.1	11441.6	11773.7	12237.5	12530.7	11755.8	11010.7	10579.9	10304.6	10313.6
60°	10723.5	10687.6	11061.6	11630.1	12470.9	12844.9	11701.9	10684.6	10065.3	9724.2	9748.1
62.5°	8297.0	8228.1	8644.0	9239.5	10247.8	10621.8	9568.6	8593.2	8006.7	7740.4	7701.5
65°	5050.6	4987.8	5287.0	5652.0	6334.2	6570.5	6088.8	5571.2	5059.6	4898.0	4853.1
67.5°	2749.7	2740.7	2821.5	3001.0	3300.2	3410.9	3318.2	3072.8	2941.2	2827.5	2827.5
70°	2181.2	2163.3	2148.3	2151.3	2178.2	2193.2	2196.2	2184.2	2199.2	2202.1	2190.2
72.5°	1807.2	1801.2	1771.3	1774.3	1762.3	1756.3	1777.3	1789.2	1813.2	1816.2	1816.2
75°	1310.5	1295.6	1310.5	1313.5	1301.5	1301.5	1316.5	1313.5	1325.5	1331.5	1298.6
77.5°	745.0	745.0	766.0	789.9	807.9	807.9	822.8	822.8	837.8	834.8	828.8
80°	409.9	409.9	421.9	436.8	454.8	472.7	487.7	490.7	499.7	496.7	487.7
82.5°	233.4	236.4	242.4	251.3	269.3	284.2	299.2	302.2	311.2	311.2	302.2
85°	110.7	107.7	110.7	116.7	125.7	137.6	152.6	161.6	167.6	167.6	161.6
87.5°	20.9	23.9	20.9	23.9	26.9	35.9	41.9	47.9	56.8	59.8	53.9
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)