

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: P638729

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638729
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-SA4F-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29791.5 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

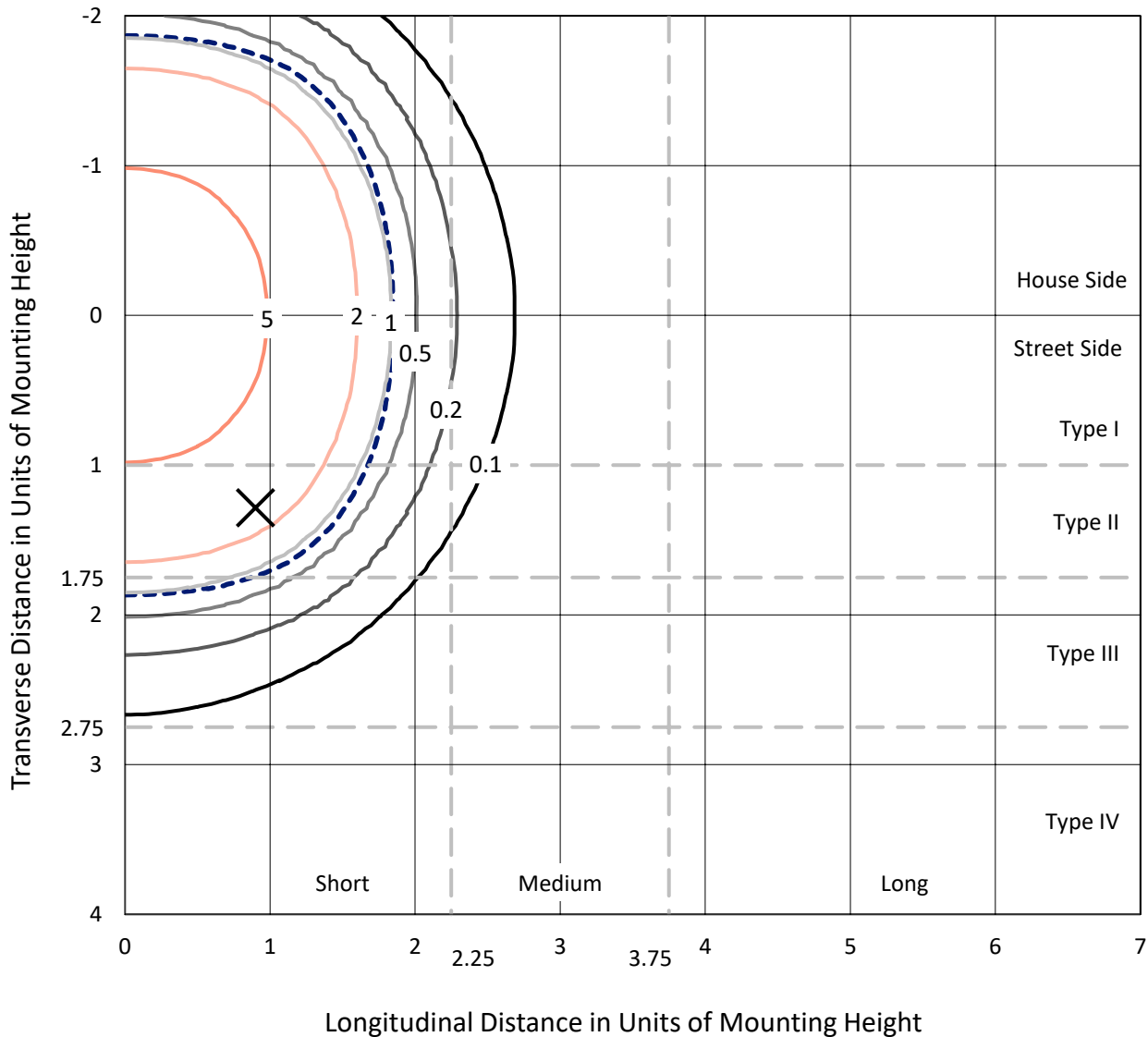
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638729
 CATALOG NUMBER: GWS-SA4F-740-U-5MQ-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

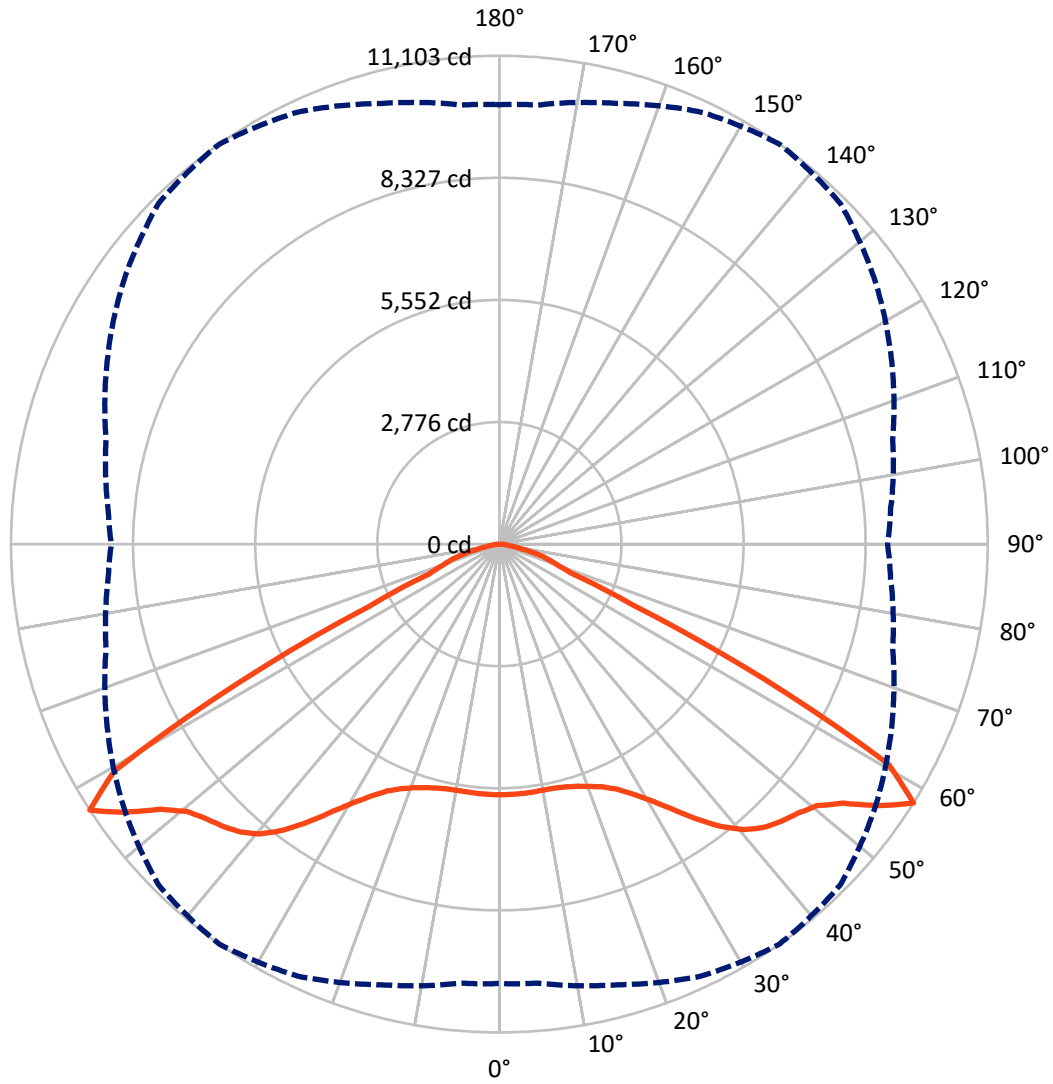
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type V - Short - N/A

REPORT NUMBER: P638729
CATALOG NUMBER: GWS-SA4F-740-U-5MQ-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P638729

CATALOG NUMBER: GWS-SA4F-740-U-5MQ-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14895.7	0.0	14895.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14895.7	0.0	14895.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	29791.5	0.0	29791.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.3	1.8
10°-20°	1617.9	5.4
20°-30°	2822.9	9.5
30°-40°	4629.0	15.5
40°-50°	6817.4	22.9
50°-60°	8700.2	29.2
60°-70°	3666.7	12.3
70°-80°	875.9	2.9
80°-90°	119.2	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°	29791.5	100.0
0°-180°	29791.5	100.0

Coefficient of Utilization



REPORT NUMBER: P638729

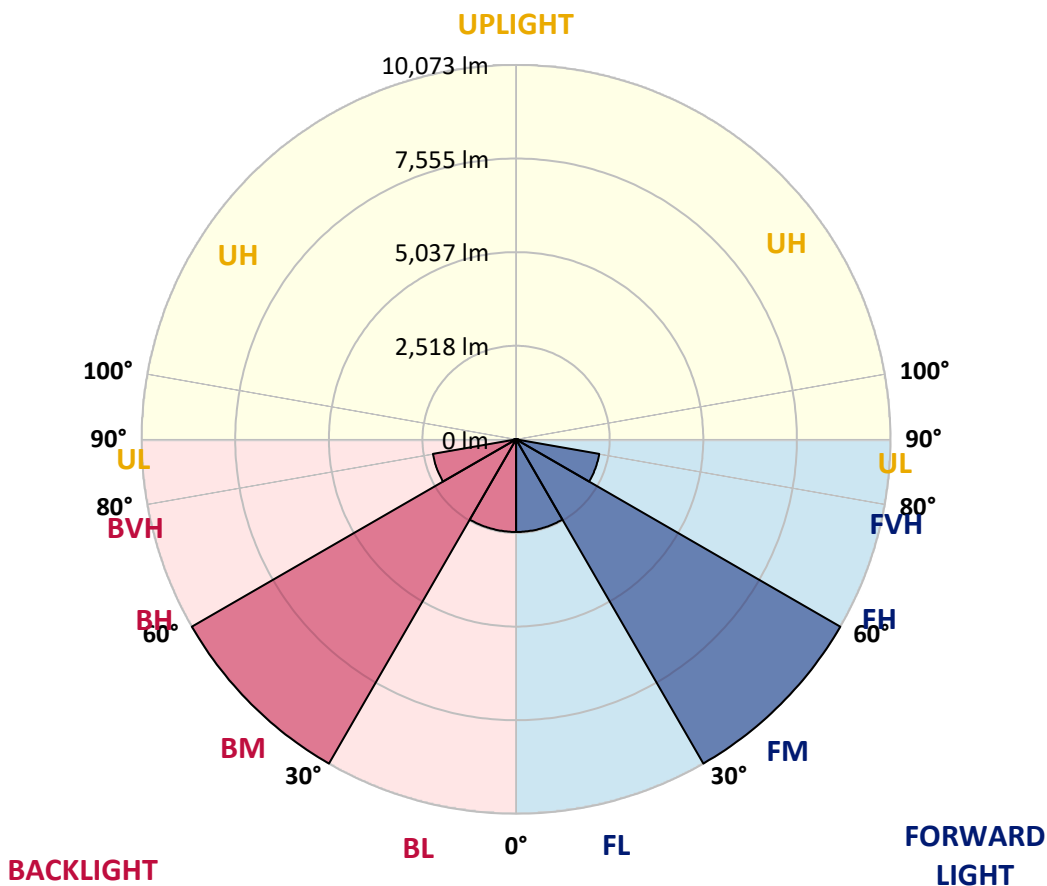
CATALOG NUMBER: GWS-SA4F-740-U-5MQ-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2491.6	8.4			
FM (30°-60°)	10073.3	33.8			
FH (60°-80°)	2271.3	7.6			G2/5000
FVH (80°-90°)	59.6	0.2			G1/100
BL (0°-30°)	2491.6	8.4	B3/2500		
BM (30°-60°)	10073.3	33.8	B5		
BH (60°-80°)	2271.3	7.6	B3/2500		G2/5000
BVH (80°-90°)	59.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





REPORT NUMBER: P638729

CATALOG NUMBER: GWS-SA4F-740-U-5MQ-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5700.3	5700.3	5700.3	5700.3	5700.3	5700.3	5700.3	5700.3	5700.3	5700.3	5700.3
2.5°	5666.1	5666.1	5678.3	5690.5	5695.4	5717.3	5714.9	5707.6	5702.7	5688.1	5707.6
5°	5678.3	5678.3	5688.1	5695.4	5692.9	5710.0	5702.7	5690.5	5683.2	5668.6	5690.5
7.5°	5675.9	5675.9	5683.2	5690.5	5685.6	5700.3	5688.1	5671.0	5658.8	5644.2	5663.7
10°	5644.2	5649.0	5656.4	5673.4	5680.7	5702.7	5685.6	5658.8	5639.3	5622.2	5641.7
12.5°	5639.3	5644.2	5653.9	5675.9	5688.1	5719.8	5697.8	5653.9	5624.6	5602.7	5622.2
15°	5661.2	5666.1	5680.7	5707.6	5727.1	5761.2	5729.5	5668.6	5627.1	5597.8	5614.9
17.5°	5688.1	5695.4	5717.3	5756.4	5788.1	5824.7	5785.6	5712.5	5653.9	5614.9	5629.5
20°	5717.3	5727.1	5761.2	5819.8	5878.3	5924.7	5875.9	5778.3	5707.6	5656.4	5671.0
22.5°	5768.6	5780.8	5824.7	5907.6	5995.4	6063.7	6002.7	5871.0	5778.3	5712.5	5724.7
25°	5873.4	5888.1	5944.2	6044.2	6168.6	6251.5	6166.1	6017.4	5888.1	5807.6	5819.8
27.5°	6058.8	6066.1	6139.3	6271.0	6424.7	6519.8	6417.4	6241.8	6097.8	6005.2	6014.9
30°	6302.7	6324.7	6397.9	6571.0	6754.0	6880.8	6746.7	6539.3	6373.5	6261.3	6271.0
32.5°	6600.3	6614.9	6724.7	6905.2	7168.6	7315.0	7132.0	6885.7	6685.7	6549.1	6558.8
35°	6990.6	7002.8	7107.6	7336.9	7656.5	7793.0	7583.3	7300.3	7068.6	6939.3	6975.9
37.5°	7456.4	7478.4	7554.0	7780.8	8137.0	8271.1	8029.6	7766.2	7524.7	7405.2	7432.0
40°	7956.5	7954.0	8015.0	8215.0	8539.4	8622.3	8405.3	8195.5	7988.2	7910.1	7954.0
42.5°	8385.8	8373.6	8417.5	8583.3	8807.7	8815.0	8671.1	8554.1	8407.7	8354.0	8395.5
45°	8685.8	8690.6	8756.5	8871.1	8985.8	8924.8	8880.9	8861.4	8746.7	8673.6	8680.9
47.5°	8922.4	8941.9	9046.8	9124.8	9139.4	9037.0	9098.0	9127.2	9032.1	8919.9	8888.2
50°	9132.1	9163.8	9300.4	9383.4	9351.7	9222.4	9341.9	9385.8	9176.0	8961.4	8898.0
52.5°	9512.6	9549.2	9715.1	9822.4	9785.8	9656.5	9768.7	9612.6	9259.0	8995.5	8915.0
55°	10120.0	10137.1	10339.5	10515.1	10498.0	10339.5	10249.3	9902.9	9473.6	9200.4	9124.8
57.5°	9990.7	10020.0	10371.2	10839.5	11103.0	10959.0	10429.7	9839.5	9256.5	8927.2	8824.8
60°	7861.3	7932.1	8368.7	9193.1	10159.0	10156.6	9173.6	8256.5	7554.0	7117.4	7073.5
62.5°	4590.5	4639.2	5036.8	5871.0	6736.9	6790.6	6100.3	5471.0	4856.3	4561.2	4419.7
65°	2173.3	2170.8	2329.4	2705.0	3290.4	3336.7	3129.4	2785.5	2422.1	2322.1	2295.2
67.5°	1605.0	1605.0	1592.8	1619.6	1731.8	1756.2	1731.8	1675.7	1641.5	1663.5	1648.9
70°	1392.7	1395.2	1380.6	1373.2	1373.2	1365.9	1375.7	1397.6	1412.3	1441.5	1426.9
72.5°	1129.3	1131.8	1131.8	1134.2	1136.6	1126.9	1141.5	1153.7	1156.2	1165.9	1156.2
75°	802.5	807.4	822.0	834.2	843.9	843.9	848.8	851.3	841.5	853.7	834.2
77.5°	441.5	446.4	473.2	495.1	517.1	519.5	526.9	531.7	526.9	536.6	522.0
80°	243.9	248.8	261.0	270.7	287.8	302.5	312.2	317.1	317.1	324.4	317.1
82.5°	139.0	143.9	151.2	156.1	170.7	182.9	192.7	200.0	200.0	202.4	197.6
85°	65.9	65.9	70.7	75.6	82.9	87.8	100.0	107.3	107.3	112.2	107.3
87.5°	9.8	12.2	14.6	14.6	19.5	24.4	29.3	31.7	36.6	39.0	39.0
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)