

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: P641205

Luminaire Tested: GWS-SA5F-740-U-5MQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-740-U-5MQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43223.9 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

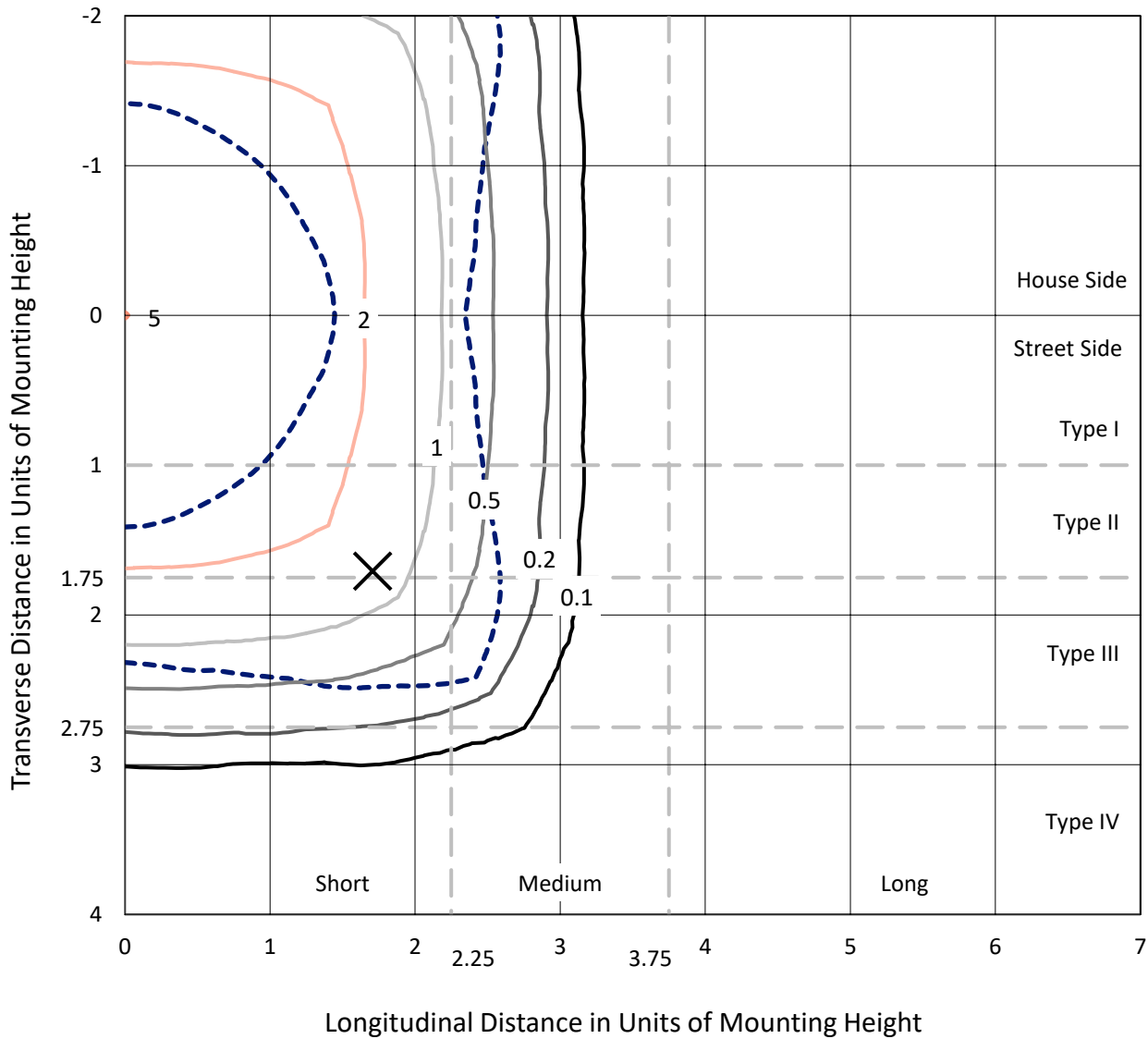
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641205
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Iso-Footcandle Lines of Horizontal Illumination

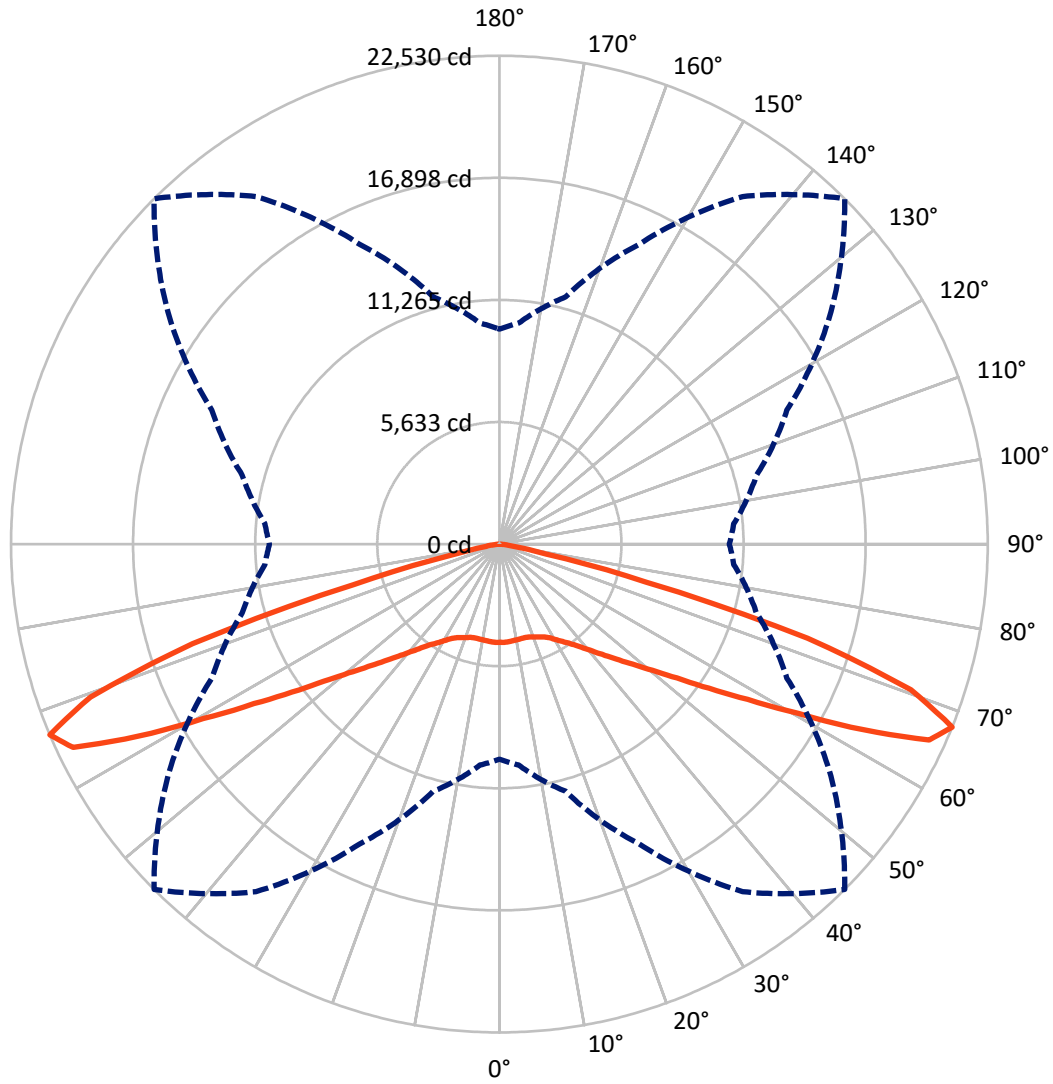
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - N/A

REPORT NUMBER: P641205
CATALOG NUMBER: GWS-SA5F-740-U-5MQ-W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21612.0	0.0	21612.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21612.0	0.0	21612.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	43223.9	0.0	43223.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.5	1.0
10°-20°	1258.4	2.9
20°-30°	2170.4	5.0
30°-40°	3529.2	8.2
40°-50°	5942.4	13.7
50°-60°	10528.9	24.4
60°-70°	15050.3	34.8
70°-80°	4130.7	9.6
80°-90°	185.1	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°	43223.9	100.0
0°-180°	43223.9	100.0

Coefficient of Utilization



REPORT NUMBER: P641205

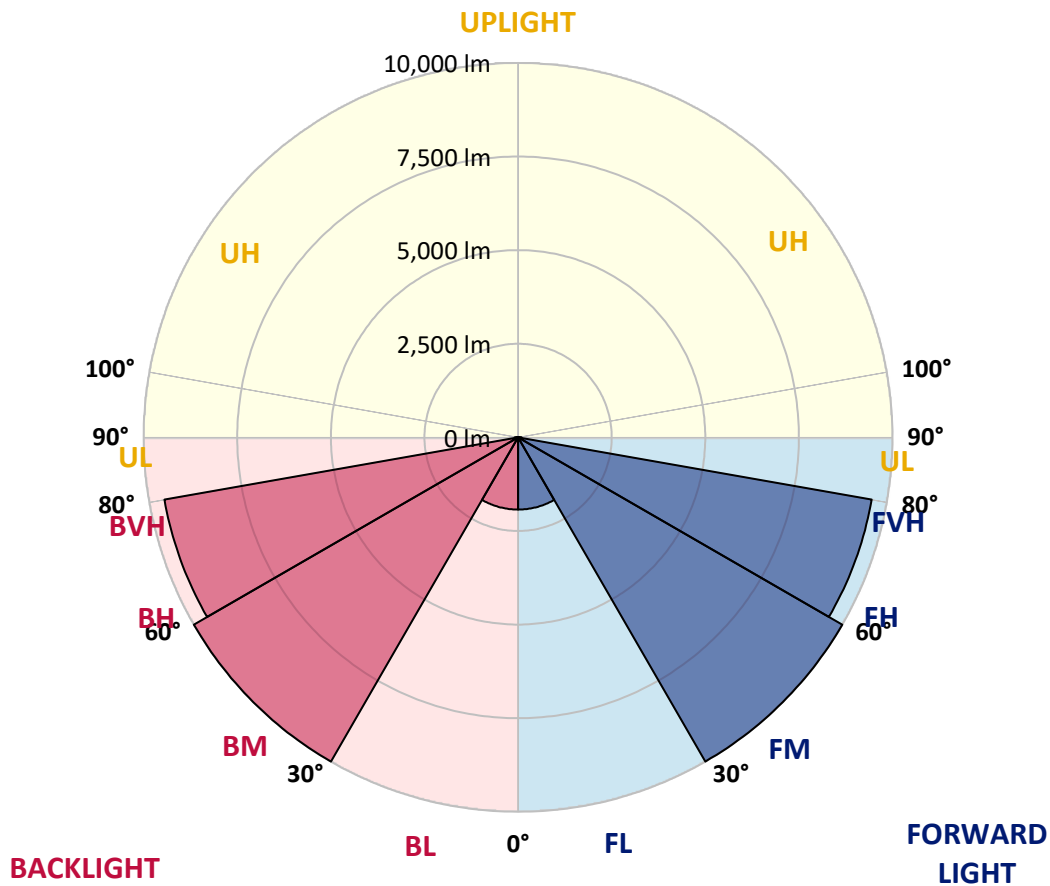
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1928.7	4.5			
FM (30°-60°)	10000.3	23.1			
FH (60°-80°)	9590.5	22.2			G4/12000
FVH (80°-90°)	92.5	0.2			G1/100
BL (0°-30°)	1928.7	4.5	B3/2500		
BM (30°-60°)	10000.3	23.1	B5		
BH (60°-80°)	9590.5	22.2	B5		G4/12000
BVH (80°-90°)	92.5	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4526.9	4526.9	4526.9	4526.9	4526.9	4526.9	4526.9	4526.9	4526.9	4526.9	4526.9
2.5°	4497.0	4494.0	4509.0	4518.0	4515.0	4535.9	4532.9	4526.9	4526.9	4518.0	4541.9
5°	4497.0	4494.0	4506.0	4509.0	4503.0	4521.0	4515.0	4509.0	4509.0	4497.0	4518.0
7.5°	4473.1	4476.1	4485.1	4491.0	4485.1	4500.0	4491.0	4479.1	4476.1	4464.1	4485.1
10°	4428.2	4431.2	4440.2	4455.1	4458.1	4485.1	4470.1	4449.1	4440.2	4428.2	4449.1
12.5°	4401.3	4404.3	4413.2	4431.2	4437.2	4473.1	4458.1	4425.2	4410.3	4398.3	4419.2
15°	4395.3	4398.3	4410.3	4428.2	4437.2	4473.1	4458.1	4419.2	4398.3	4383.3	4401.3
17.5°	4395.3	4401.3	4419.2	4446.2	4464.1	4500.0	4482.1	4437.2	4407.3	4380.3	4398.3
20°	4398.3	4407.3	4434.2	4473.1	4518.0	4568.8	4544.9	4485.1	4443.2	4410.3	4422.2
22.5°	4425.2	4440.2	4473.1	4523.9	4589.8	4649.6	4628.7	4547.9	4488.0	4443.2	4455.1
25°	4518.0	4523.9	4565.8	4631.7	4694.5	4745.4	4724.4	4649.6	4574.8	4521.0	4535.9
27.5°	4682.5	4697.5	4733.4	4802.2	4856.1	4883.0	4880.0	4829.1	4754.3	4706.5	4718.4
30°	4880.0	4895.0	4942.8	5020.6	5074.5	5104.4	5095.4	5056.5	4987.7	4921.9	4933.9
32.5°	5110.4	5116.4	5173.2	5260.0	5316.8	5361.7	5331.8	5289.9	5203.1	5125.3	5131.3
35°	5403.6	5412.6	5472.4	5553.2	5598.1	5634.0	5628.0	5586.1	5493.4	5409.6	5430.5
37.5°	5771.6	5777.6	5831.5	5933.2	5969.1	5996.0	6002.0	5981.1	5885.3	5777.6	5798.6
40°	6229.4	6232.4	6292.2	6382.0	6420.9	6438.8	6441.8	6444.8	6346.1	6265.3	6259.3
42.5°	6762.0	6776.9	6860.7	6947.5	6965.4	6956.5	6986.4	7016.3	6920.6	6809.9	6818.8
45°	7399.3	7408.3	7522.0	7617.7	7584.8	7554.9	7611.7	7671.6	7584.8	7441.2	7399.3
47.5°	8153.3	8171.2	8293.9	8389.7	8335.8	8281.9	8374.7	8437.5	8296.9	8144.3	8105.4
50°	9006.0	9018.0	9191.5	9311.2	9248.4	9149.6	9266.3	9332.1	9143.6	8955.1	8871.4
52.5°	10014.3	9990.4	10220.8	10430.2	10391.3	10262.7	10358.4	10370.4	10089.1	9822.8	9739.1
55°	11244.1	11220.1	11450.5	11680.9	11776.6	11743.7	11698.8	11627.0	11211.1	10926.9	10849.1
57.5°	12677.2	12602.4	12925.6	13236.7	13446.2	13506.0	13314.5	13147.0	12817.9	12467.8	12378.0
60°	14008.7	14005.7	14517.3	15055.9	15630.4	15869.7	15385.0	14930.2	14191.2	13553.9	13425.2
62.5°	14382.7	14445.5	15283.3	16617.7	18036.0	18882.7	17605.1	16100.1	14672.9	13712.5	13541.9
65°	13461.1	13616.7	14807.6	16913.9	19714.5	21785.0	18900.7	16127.0	14137.3	12940.5	12761.0
67.5°	9921.6	10232.7	11809.5	15262.3	19570.9	22530.0	18670.3	14634.0	12279.3	10855.1	10606.7
70°	4895.0	5191.2	6441.8	10041.3	16103.1	20139.4	16154.0	11028.6	8293.9	6923.6	6696.2
72.5°	1801.2	1920.9	2411.6	4296.6	8886.3	14876.4	11046.6	6160.6	4018.3	3198.5	3045.9
75°	882.6	903.6	978.4	1442.2	3279.3	7001.4	5191.2	2363.7	1478.1	1286.6	1244.7
77.5°	562.5	571.5	607.4	688.2	1053.2	2205.1	1573.8	933.5	724.1	694.2	694.2
80°	314.2	323.1	371.0	427.9	493.7	757.0	565.5	559.5	475.7	415.9	406.9
82.5°	149.6	164.6	236.4	233.4	260.3	380.0	332.1	302.2	305.2	230.4	218.4
85°	68.8	68.8	92.8	110.7	116.7	128.7	152.6	173.5	170.5	116.7	125.7
87.5°	32.9	32.9	32.9	29.9	26.9	23.9	32.9	53.9	77.8	53.9	50.9
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)