

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: P643682

Luminaire Tested: GWS-SA6F-740-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643682
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-SA6F-740-U-5NQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45119.3 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 372.6
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

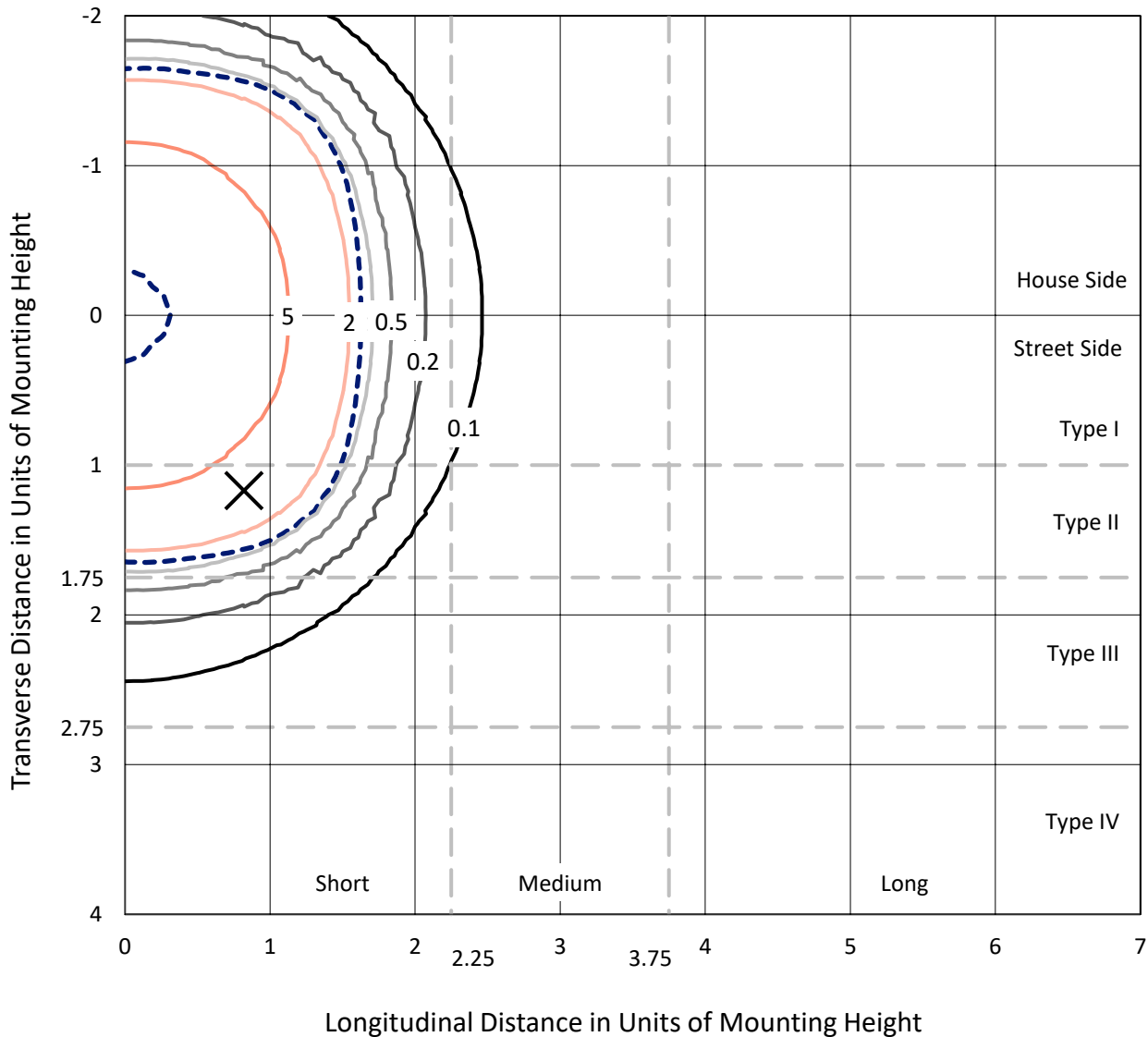


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Iso-Footcandle Lines of Horizontal Illumination

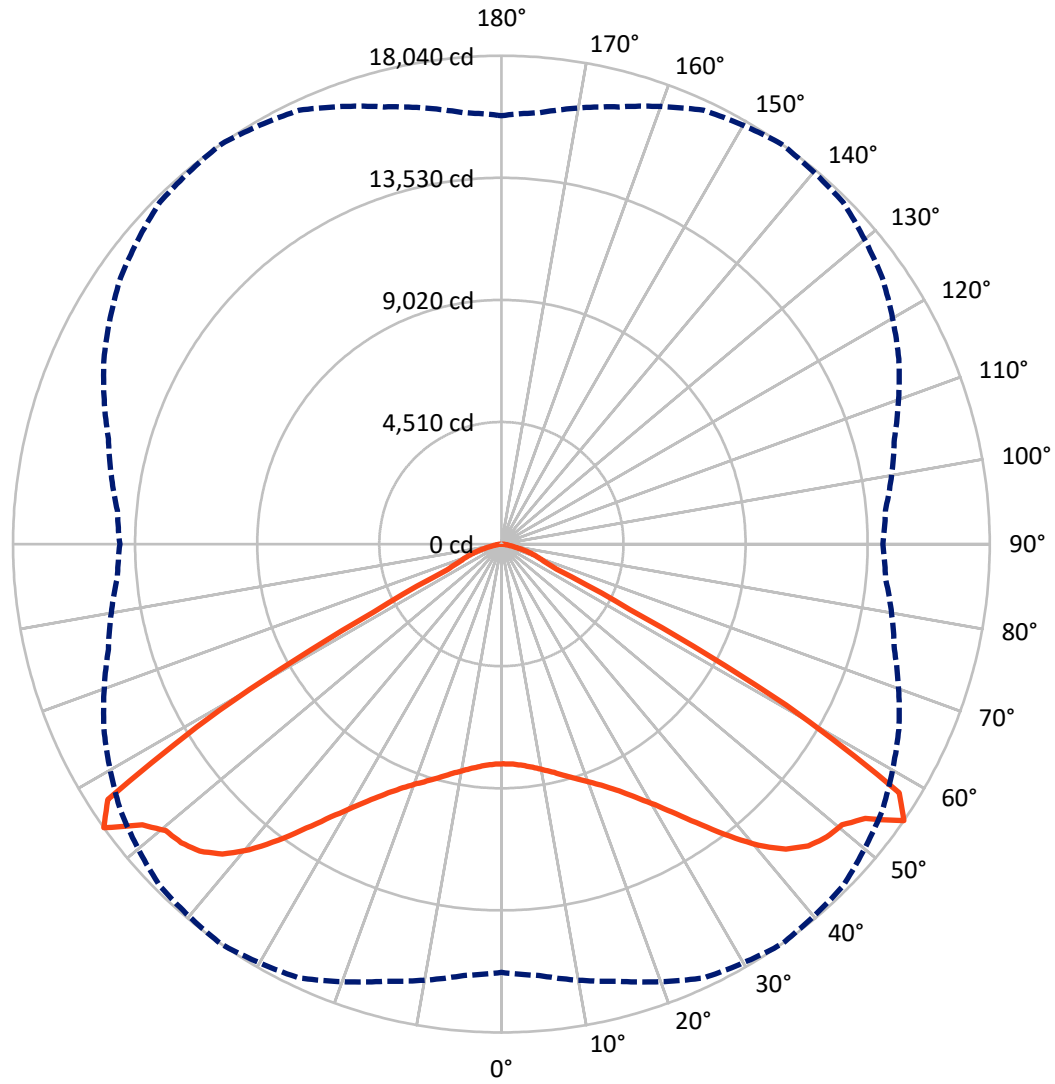
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 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	22559.6	0.0	22559.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22559.6	0.0	22559.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	45119.3	0.0	45119.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	791.7	1.8
10°-20°	2520.7	5.6
20°-30°	4665.2	10.3
30°-40°	7804.0	17.3
40°-50°	11892.0	26.4
50°-60°	13321.6	29.5
60°-70°	3152.0	7.0
70°-80°	849.8	1.9
80°-90°	122.3	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°	45119.3	100.0
0°-180°	45119.3	100.0

Coefficient of Utilization



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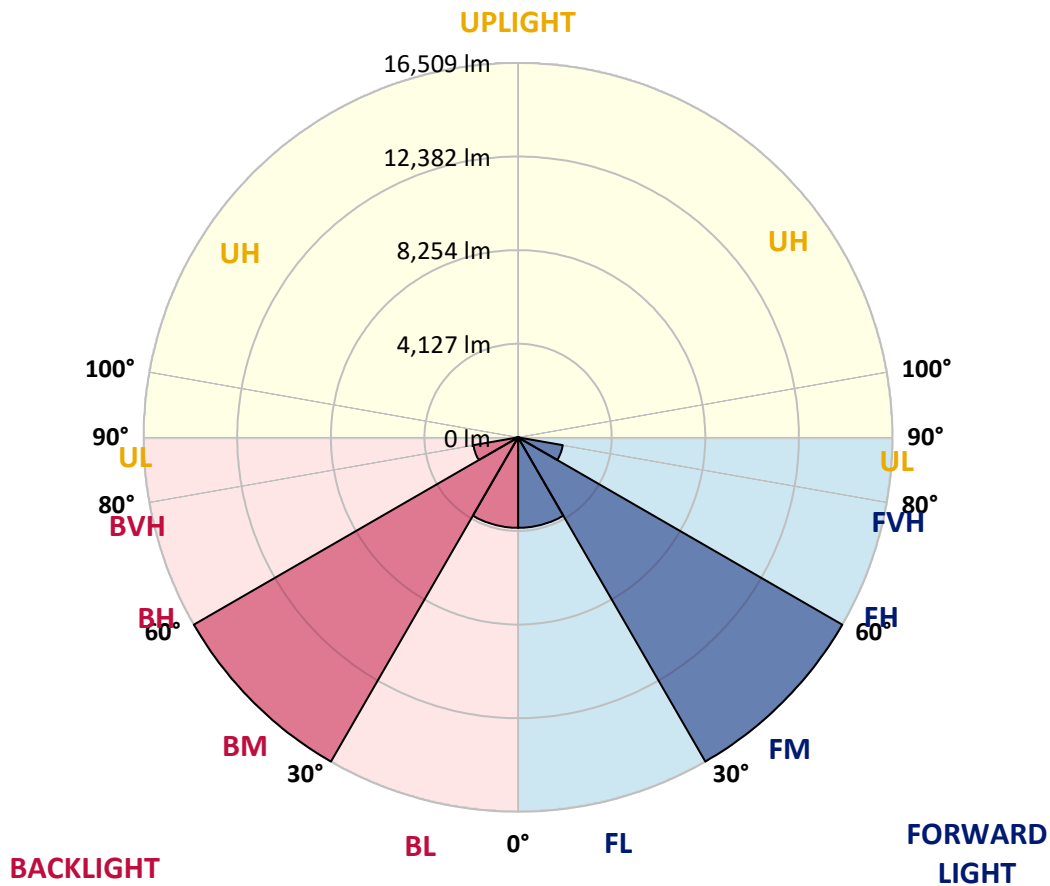
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3988.8	8.8			
FM (30°-60°)	16508.8	36.6			
FH (60°-80°)	2000.9	4.4			G2/5000
FVH (80°-90°)	61.1	0.1			G1/100
BL (0°-30°)	3988.8	8.8	B4/5000		
BM (30°-60°)	16508.8	36.6	B5		
BH (60°-80°)	2000.9	4.4	B3/2500		G2/5000
BVH (80°-90°)	61.1	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8117.1	8117.1	8117.1	8117.1	8117.1	8117.1	8117.1	8117.1	8117.1	8117.1	8117.1
2.5°	8099.2	8099.2	8113.5	8131.4	8134.9	8170.6	8163.5	8149.2	8142.1	8127.8	8159.9
5°	8188.4	8192.0	8202.7	8213.4	8206.3	8234.8	8224.1	8206.3	8195.6	8177.7	8209.8
7.5°	8306.2	8306.2	8316.9	8331.2	8324.0	8366.8	8345.4	8320.5	8302.6	8281.2	8309.8
10°	8413.2	8420.4	8431.1	8459.6	8473.9	8520.3	8506.0	8470.3	8441.8	8416.8	8448.9
12.5°	8573.8	8580.9	8591.6	8630.9	8655.8	8702.2	8680.8	8630.9	8588.1	8552.4	8588.1
15°	8780.7	8773.6	8802.1	8852.1	8884.2	8927.0	8902.0	8816.4	8759.3	8712.9	8748.6
17.5°	8991.2	8987.7	9016.2	9080.4	9126.8	9183.9	9141.1	9041.2	8980.5	8923.4	8959.1
20°	9219.6	9230.3	9258.8	9319.5	9387.3	9462.2	9426.5	9319.5	9251.7	9187.5	9216.0
22.5°	9501.4	9505.0	9537.1	9615.6	9704.8	9776.2	9754.8	9622.8	9537.1	9469.3	9505.0
25°	9840.4	9836.8	9879.6	9972.4	10097.3	10168.7	10122.3	9976.0	9883.2	9804.7	9833.3
27.5°	10229.3	10225.7	10290.0	10411.3	10589.7	10689.6	10593.2	10411.3	10282.8	10172.2	10197.2
30°	10718.1	10707.4	10778.8	10942.9	11174.8	11342.5	11199.8	10946.5	10778.8	10661.0	10686.0
32.5°	11260.4	11274.7	11363.9	11585.1	11877.7	12095.3	11881.3	11599.4	11374.6	11203.4	11231.9
35°	11856.3	11856.3	12038.3	12313.0	12730.4	13019.4	12687.6	12280.9	11981.2	11745.7	11752.8
37.5°	12519.9	12527.1	12766.1	13144.3	13690.2	14029.2	13579.6	13076.5	12712.6	12459.3	12445.0
40°	13329.9	13351.3	13597.5	14018.5	14632.2	14942.6	14460.9	13968.5	13597.5	13297.7	13269.2
42.5°	14243.3	14250.4	14510.8	14889.0	15406.4	15591.9	15213.7	14810.6	14507.3	14236.1	14207.6
45°	15113.8	15096.0	15320.8	15602.6	15902.3	15920.2	15709.7	15545.6	15281.5	15049.6	15006.8
47.5°	15791.7	15777.5	15980.8	16134.3	16169.9	15995.1	16062.9	16087.9	15781.0	15467.1	15385.0
50°	16205.6	16234.2	16426.8	16512.5	16302.0	16016.5	16273.4	16209.2	15770.3	15360.0	15228.0
52.5°	16455.4	16498.2	16833.6	17051.2	16833.6	16562.4	16598.1	16219.9	15588.4	15046.0	14874.8
55°	15823.9	15995.1	16719.4	17682.8	18039.5	17850.4	17172.5	16198.5	15028.2	14239.7	14093.4
57.5°	11727.8	11999.0	13073.0	15160.2	17329.5	18018.1	16037.9	13579.6	11806.3	10793.0	10707.4
60°	5987.0	6290.3	7150.2	9294.5	12084.6	13055.1	11171.2	8695.1	6911.1	6090.5	5997.7
62.5°	2444.0	2494.0	2775.9	3603.6	5341.2	6161.8	5412.6	3799.9	2854.4	2629.6	2633.1
65°	1923.1	1933.8	1919.6	1969.5	2237.1	2483.3	2294.2	2015.9	1965.9	1990.9	1973.1
67.5°	1676.9	1680.5	1669.8	1669.8	1680.5	1669.8	1691.2	1701.9	1709.0	1737.6	1719.8
70°	1402.2	1405.8	1405.8	1412.9	1409.3	1391.5	1423.6	1437.9	1441.5	1459.3	1448.6
72.5°	1084.7	1095.4	1102.5	1106.1	1102.5	1091.8	1109.6	1134.6	1131.0	1148.9	1131.0
75°	735.0	749.3	756.4	770.7	767.1	767.1	788.5	799.2	788.5	802.8	788.5
77.5°	417.4	428.2	449.6	463.8	478.1	488.8	503.1	510.2	506.6	513.8	506.6
80°	242.6	246.2	264.0	271.2	289.0	306.8	321.1	328.3	331.8	335.4	331.8
82.5°	139.1	142.7	149.9	157.0	171.3	185.5	199.8	210.5	210.5	214.1	210.5
85°	67.8	67.8	71.4	74.9	82.1	92.8	103.5	114.2	117.7	117.7	117.7
87.5°	10.7	10.7	14.3	14.3	17.8	21.4	28.5	35.7	39.2	39.2	39.2
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)