

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: P641154

Luminaire Tested: GWS-SA5F-735-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-735-U-5WQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21664 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

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

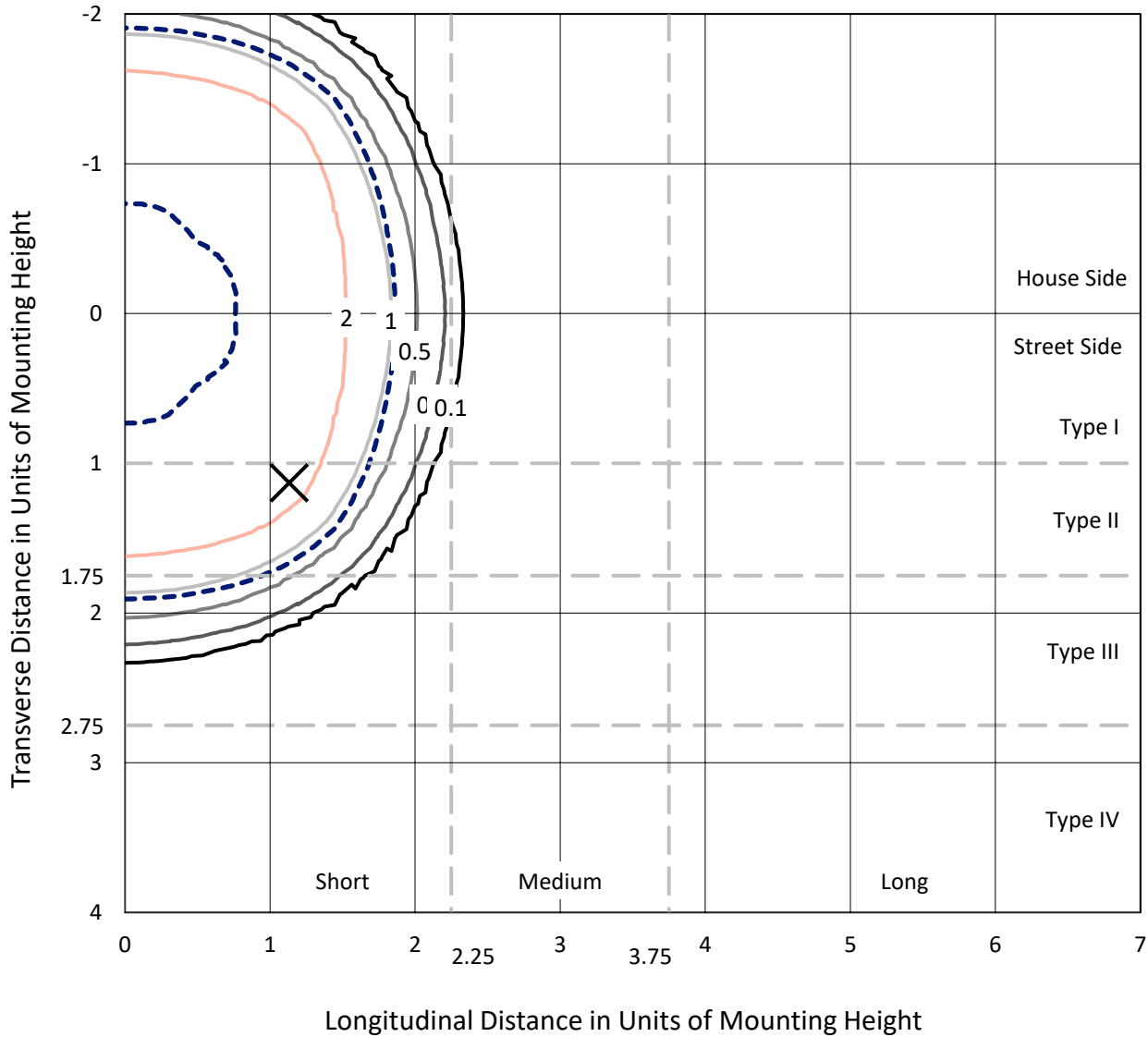


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Iso-Footcandle Lines of Horizontal Illumination

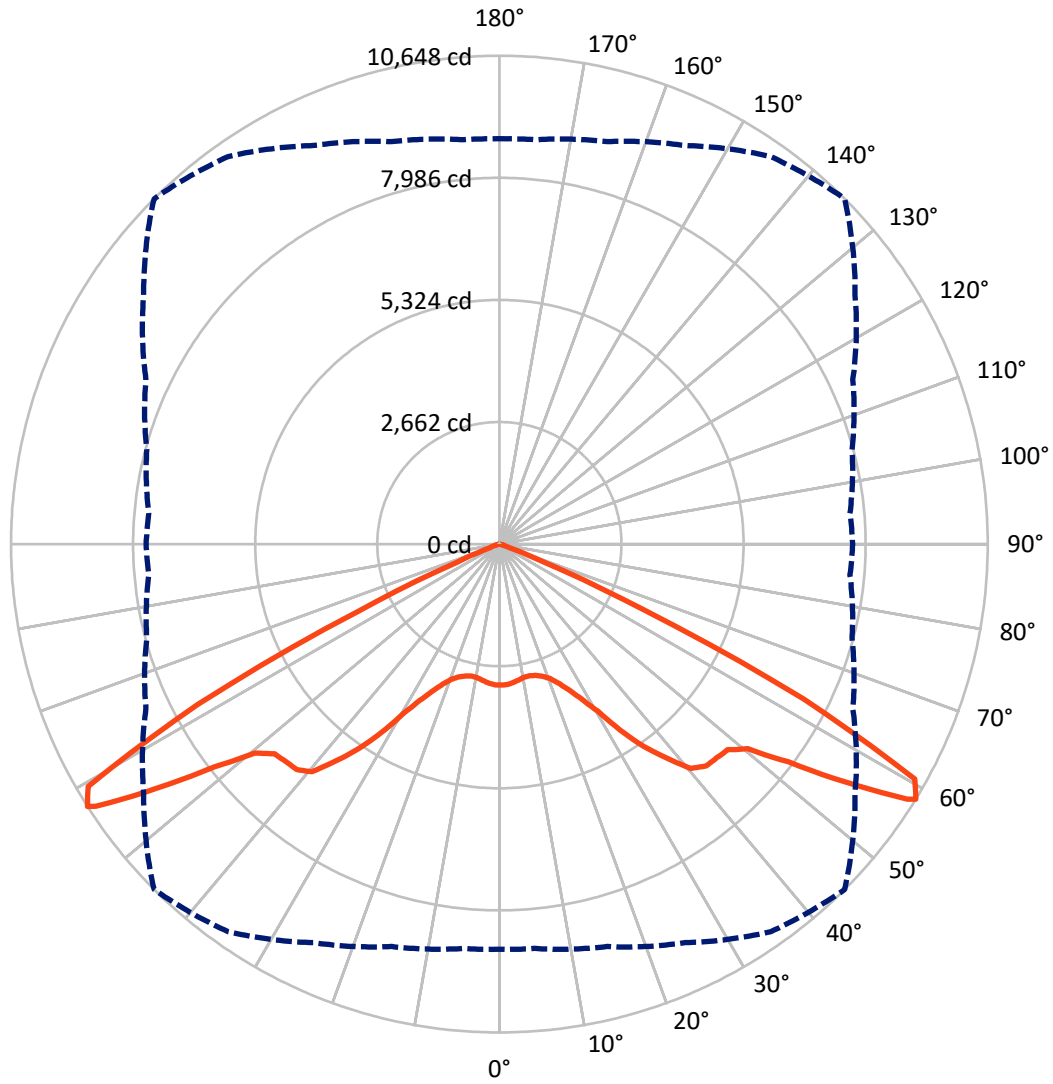
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10832.0	0.0	10832.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10832.0	0.0	10832.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21664.0	0.0	21664.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.7	1.3
10°-20°	848.2	3.9
20°-30°	1604.1	7.4
30°-40°	3163.7	14.6
40°-50°	5006.4	23.1
50°-60°	7359.2	34.0
60°-70°	3284.8	15.2
70°-80°	110.0	0.5
80°-90°	0.9	0.0
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°	21664.0	100.0
0°-180°	21664.0	100.0

Coefficient of Utilization



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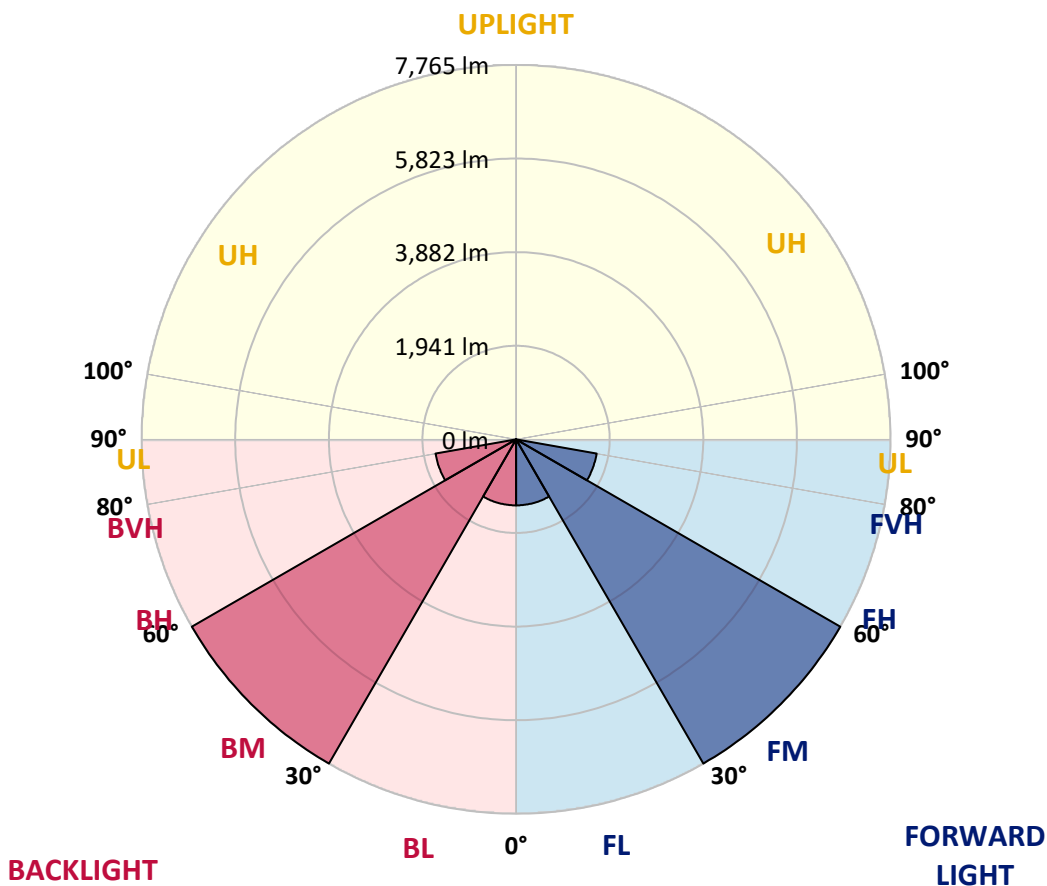
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1369.5	6.3			
FM (30°-60°)	7764.6	35.8			
FH (60°-80°)	1697.4	7.8			G1/1800
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	1369.5	6.3	B3/2500		
BM (30°-60°)	7764.6	35.8	B4/8500		
BH (60°-80°)	1697.4	7.8	B3/2500		G1/1800
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3072.2	3072.2	3072.2	3072.2	3072.2	3072.2	3072.2	3072.2	3072.2	3072.2	3072.2
2.5°	3042.7	3048.6	3054.5	3057.5	3060.4	3069.3	3072.2	3063.4	3063.4	3045.7	3066.3
5°	3028.0	3033.9	3039.8	3036.8	3036.8	3036.8	3033.9	3022.1	3019.1	3001.4	3022.1
7.5°	3001.4	3007.3	3007.3	2998.5	2992.6	2992.6	2989.6	2974.9	2971.9	2954.2	2974.9
10°	2980.8	2983.7	2980.8	2963.0	2951.2	2951.2	2948.3	2942.4	2945.3	2933.5	2951.2
12.5°	2992.6	2995.5	2983.7	2960.1	2945.3	2942.4	2933.5	2924.7	2933.5	2930.6	2948.3
15°	3030.9	3033.9	3013.2	2983.7	2971.9	2971.9	2948.3	2924.7	2936.5	2939.4	2960.1
17.5°	3078.1	3078.1	3051.6	3025.0	3028.0	3028.0	2989.6	2948.3	2951.2	2963.0	2983.7
20°	3134.2	3134.2	3107.7	3101.8	3122.4	3125.4	3078.1	3013.2	2998.5	3007.3	3030.9
22.5°	3234.6	3234.6	3213.9	3228.7	3275.9	3290.6	3219.8	3128.3	3092.9	3098.8	3122.4
25°	3391.0	3391.0	3385.1	3420.5	3488.4	3520.8	3426.4	3305.4	3246.4	3237.5	3264.1
27.5°	3653.6	3656.6	3647.7	3700.9	3786.4	3824.8	3695.0	3535.6	3464.8	3450.0	3476.6
30°	3993.0	3993.0	3996.0	4069.8	4181.9	4232.1	4060.9	3875.0	3792.3	3745.1	3780.5
32.5°	4370.8	4376.7	4406.2	4530.2	4727.9	4831.2	4580.3	4320.6	4187.8	4137.6	4176.0
35°	4993.5	4937.4	4902.0	4993.5	5279.8	5415.5	5093.8	4789.9	4689.5	4683.6	4781.0
37.5°	5610.3	5577.8	5504.1	5598.5	5855.3	5917.2	5563.1	5309.3	5238.5	5276.8	5374.2
40°	6100.2	6041.2	5943.8	6032.3	6368.8	6430.8	5994.0	5743.1	5716.6	5802.1	5934.9
42.5°	6486.8	6404.2	6274.3	6295.0	6566.5	6610.8	6224.2	6035.3	6053.0	6159.2	6309.8
45°	6661.0	6596.0	6480.9	6472.1	6643.2	6646.2	6342.2	6244.8	6292.0	6374.7	6492.7
47.5°	6734.7	6705.2	6640.3	6625.5	6722.9	6699.3	6510.4	6469.1	6513.4	6537.0	6604.9
50°	6917.7	6917.7	6926.6	6938.4	7038.7	7015.1	6882.3	6835.1	6779.0	6696.4	6717.0
52.5°	7431.2	7451.9	7537.5	7631.9	7814.9	7891.6	7676.2	7401.7	7133.2	6953.1	6953.1
55°	8357.9	8378.6	8478.9	8638.3	8974.7	9157.7	8656.0	8051.0	7682.1	7437.1	7469.6
57.5°	8868.5	8892.1	9098.7	9529.6	10181.8	10491.7	9414.5	8517.3	8000.8	7720.5	7744.1
58°	8836.0	8850.8	9083.9	9588.6	10314.6	10648.1	9467.6	8502.5	7959.5	7673.2	7702.7
60°	7850.3	7829.6	8201.5	8921.6	9945.7	10406.1	8939.3	7761.8	7130.2	6838.0	6852.8
62.5°	5132.2	5144.0	5465.7	6218.3	7015.1	7448.9	6244.8	5368.3	4860.7	4683.6	4639.4
65°	2142.6	2104.2	2302.0	2721.0	3199.1	3441.1	2957.1	2502.7	2189.8	2071.8	2104.2
67.5°	551.9	537.1	548.9	687.6	841.1	994.6	835.2	637.5	554.8	560.7	560.7
70°	312.8	295.1	239.1	221.3	215.4	215.4	215.4	215.4	247.9	292.2	301.0
72.5°	236.1	221.3	174.1	150.5	132.8	124.0	129.9	150.5	180.0	218.4	224.3
75°	118.0	118.0	106.2	100.3	88.5	82.6	85.6	94.4	109.2	124.0	121.0
77.5°	23.6	26.6	29.5	35.4	29.5	29.5	29.5	35.4	35.4	38.4	35.4
80°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
82.5°	0.0	3.0	3.0	0.0	0.0	0.0	0.0	3.0	3.0	3.0	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)