

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: P641209

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641209  
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-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21965 lumens  
Efficiency: N/A  
Efficacy: 70.8 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

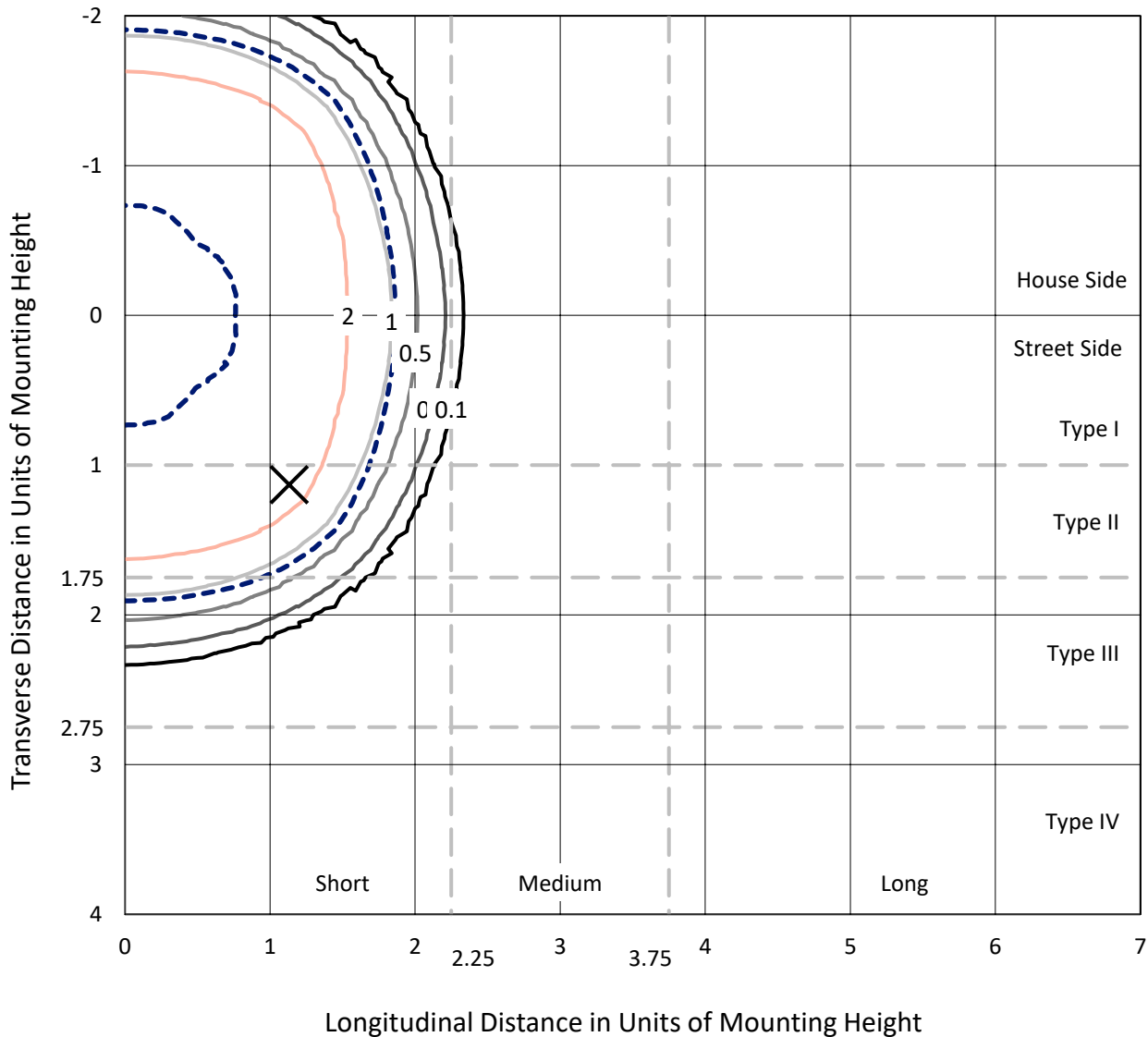


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### Iso-Footcandle Lines of Horizontal Illumination

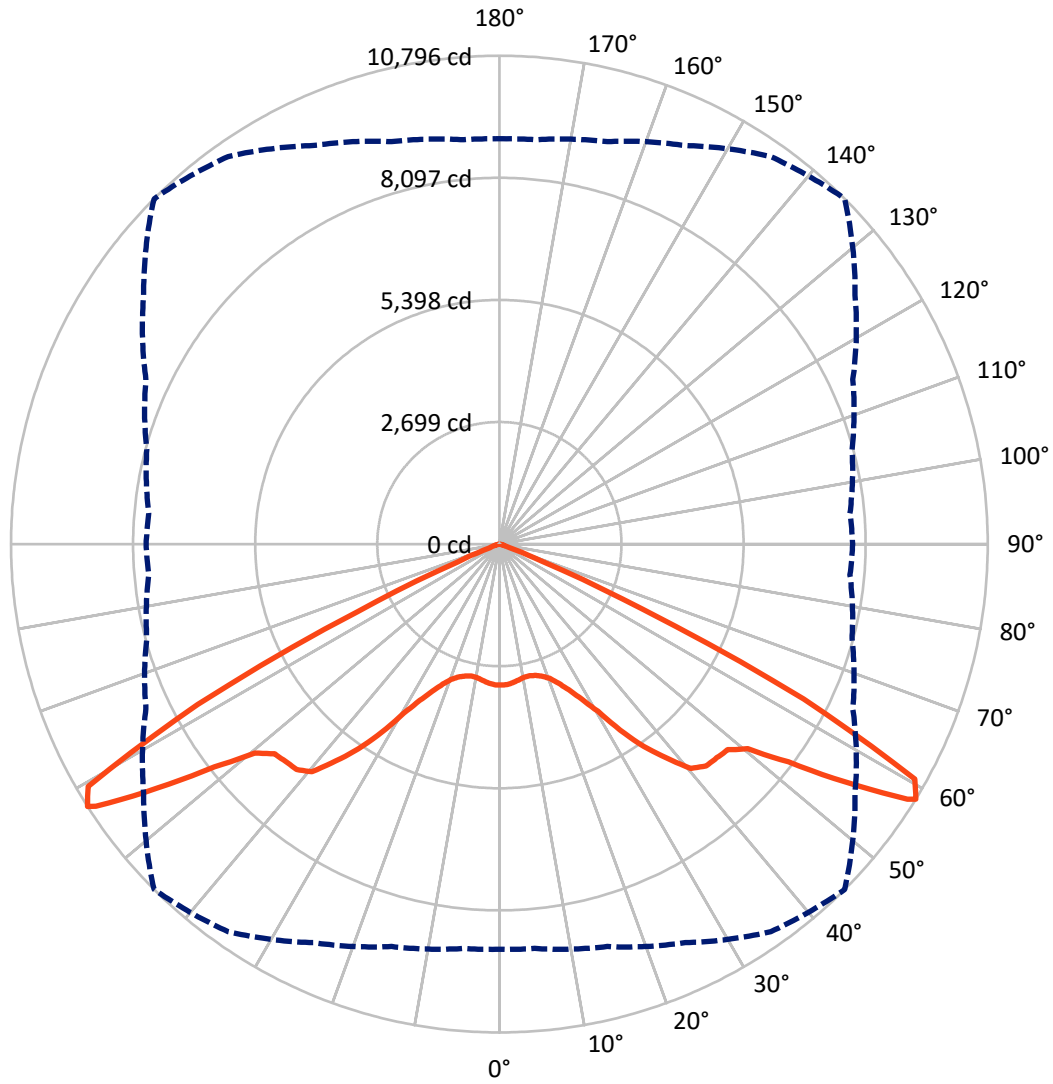
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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
<b>House Side</b>	Lumens	10982.5	0.0	10982.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10982.5	0.0	10982.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21965.0	0.0	21965.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.6	1.3
10°-20°	859.9	3.9
20°-30°	1626.4	7.4
30°-40°	3207.6	14.6
40°-50°	5076.0	23.1
50°-60°	7461.4	34.0
60°-70°	3330.5	15.2
70°-80°	111.6	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°	21965.0	100.0
0°-180°	21965.0	100.0

**Coefficient of Utilization**



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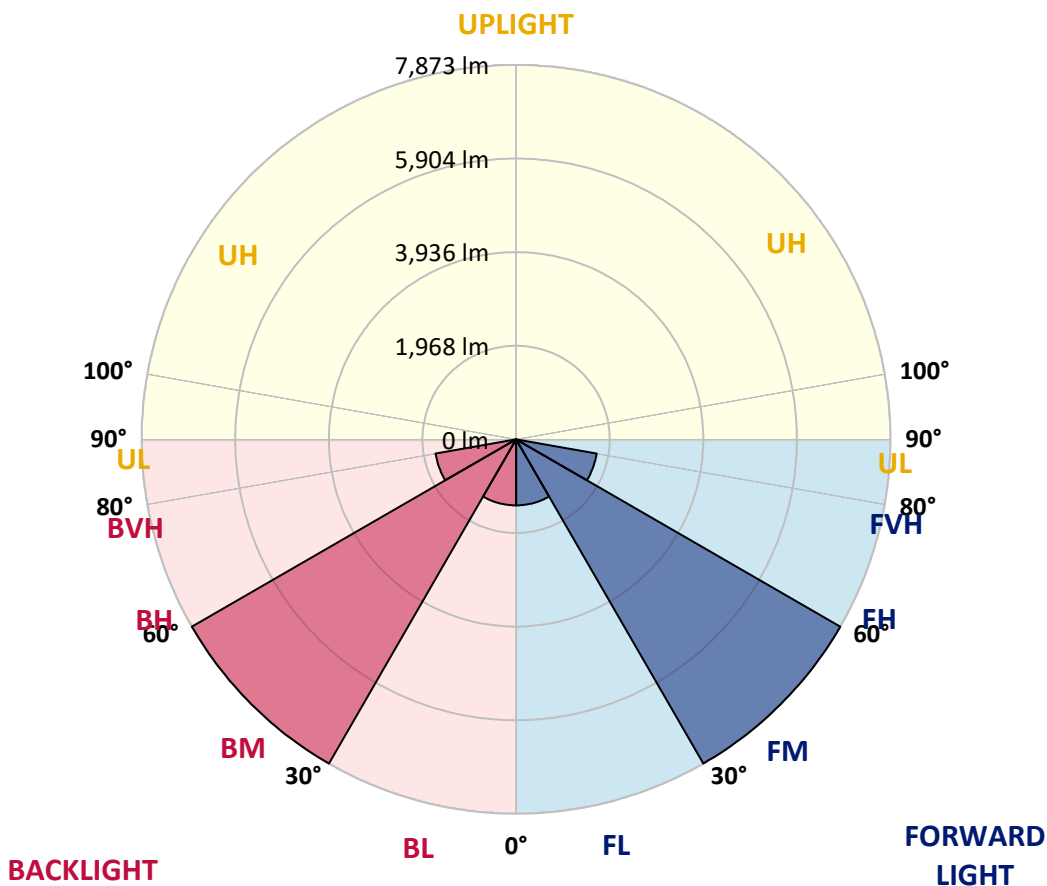
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1388.5	6.3			
FM (30°-60°)	7872.5	35.8			
FH (60°-80°)	1721.0	7.8			G1/1800
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	1388.5	6.3	B3/2500		
BM (30°-60°)	7872.5	35.8	B4/8500		
BH (60°-80°)	1721.0	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°	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9	3114.9
2.5°	3085.0	3091.0	3097.0	3100.0	3103.0	3111.9	3114.9	3106.0	3106.0	3088.0	3108.9
5°	3070.0	3076.0	3082.0	3079.0	3079.0	3079.0	3076.0	3064.1	3061.1	3043.1	3064.1
7.5°	3043.1	3049.1	3049.1	3040.1	3034.1	3034.1	3031.1	3016.2	3013.2	2995.2	3016.2
10°	3022.2	3025.2	3022.2	3004.2	2992.2	2992.2	2989.3	2983.3	2986.3	2974.3	2992.2
12.5°	3034.1	3037.1	3025.2	3001.2	2986.3	2983.3	2974.3	2965.3	2974.3	2971.3	2989.3
15°	3073.0	3076.0	3055.1	3025.2	3013.2	3013.2	2989.3	2965.3	2977.3	2980.3	3001.2
17.5°	3120.9	3120.9	3094.0	3067.1	3070.0	3070.0	3031.1	2989.3	2992.2	3004.2	3025.2
20°	3177.8	3177.8	3150.8	3144.9	3165.8	3168.8	3120.9	3055.1	3040.1	3049.1	3073.0
22.5°	3279.5	3279.5	3258.6	3273.5	3321.4	3336.4	3264.5	3171.8	3135.9	3141.9	3165.8
25°	3438.1	3438.1	3432.1	3468.0	3536.8	3569.8	3474.0	3351.3	3291.5	3282.5	3309.4
27.5°	3704.4	3707.4	3698.4	3752.3	3839.1	3878.0	3746.3	3584.7	3512.9	3497.9	3524.9
30°	4048.5	4048.5	4051.5	4126.3	4240.0	4290.9	4117.3	3928.8	3845.0	3797.2	3833.1
32.5°	4431.5	4437.5	4467.4	4593.1	4793.6	4898.3	4644.0	4380.7	4246.0	4195.1	4234.0
35°	5062.9	5006.0	4970.1	5062.9	5353.1	5490.8	5164.6	4856.4	4754.7	4748.7	4847.4
37.5°	5688.3	5655.3	5580.5	5676.3	5936.6	5999.5	5640.4	5383.1	5311.2	5350.1	5448.9
40°	6185.0	6125.1	6026.4	6116.2	6457.3	6520.1	6077.3	5822.9	5796.0	5882.8	6017.4
42.5°	6577.0	6493.2	6361.5	6382.5	6657.8	6702.6	6310.6	6119.1	6137.1	6244.8	6397.4
45°	6753.5	6687.7	6571.0	6562.0	6735.5	6738.5	6430.3	6331.6	6379.5	6463.3	6582.9
47.5°	6828.3	6798.4	6732.6	6717.6	6816.3	6792.4	6600.9	6559.0	6603.9	6627.8	6696.6
50°	7013.8	7013.8	7022.8	7034.8	7136.5	7112.6	6977.9	6930.0	6873.2	6789.4	6810.4
52.5°	7534.5	7555.4	7642.2	7738.0	7923.5	8001.3	7782.8	7504.6	7232.3	7049.7	7049.7
55°	8474.0	8495.0	8596.7	8758.3	9099.4	9284.9	8776.3	8162.9	7788.8	7540.5	7573.4
57.5°	8991.7	9015.6	9225.1	9662.0	10323.3	10637.4	9545.3	8635.6	8112.0	7827.7	7851.7
58°	8958.8	8973.7	9210.1	9721.8	10457.9	10796.0	9599.1	8620.7	8070.1	7779.8	7809.8
60°	7959.4	7938.4	8315.5	9045.6	10083.9	10550.7	9063.5	7869.6	7229.3	6933.0	6948.0
62.5°	5203.5	5215.5	5541.6	6304.7	7112.6	7552.4	6331.6	5442.9	4928.2	4748.7	4703.8
65°	2172.4	2133.5	2334.0	2758.9	3243.6	3489.0	2998.2	2537.4	2220.2	2100.6	2133.5
67.5°	559.6	544.6	556.6	697.2	852.8	1008.4	846.8	646.3	562.5	568.5	568.5
70°	317.2	299.2	242.4	224.4	218.4	218.4	218.4	218.4	251.3	296.2	305.2
72.5°	239.4	224.4	176.5	152.6	134.7	125.7	131.7	152.6	182.5	221.4	227.4
75°	119.7	119.7	107.7	101.7	89.8	83.8	86.8	95.8	110.7	125.7	122.7
77.5°	23.9	26.9	29.9	35.9	29.9	29.9	29.9	35.9	35.9	38.9	35.9
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)