

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: P637741

Luminaire Tested: GWS-SA4D-740-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-740-U-5NQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17232.4 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

Input Watts (W): 162.1
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

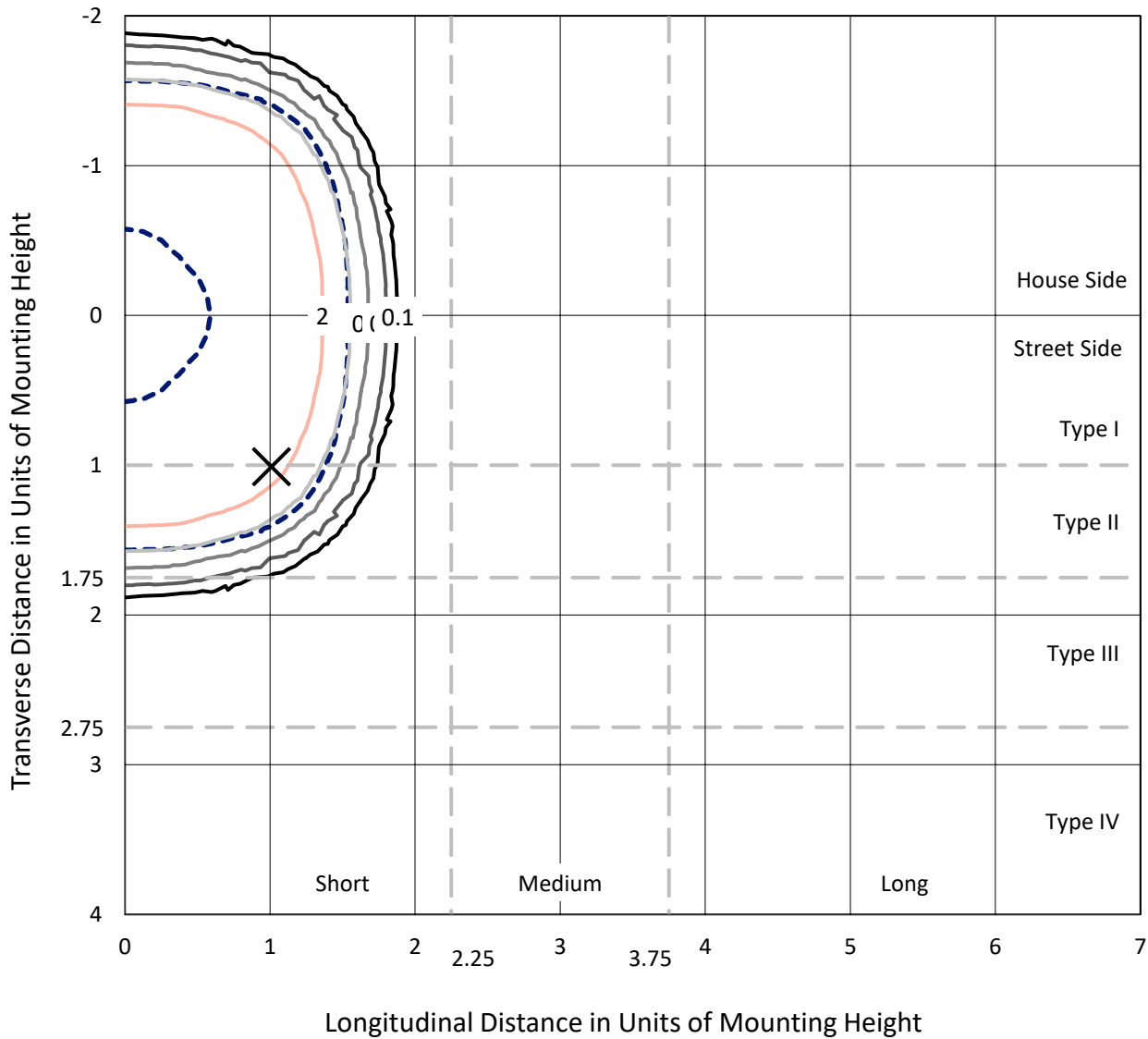


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Iso-Footcandle Lines of Horizontal Illumination

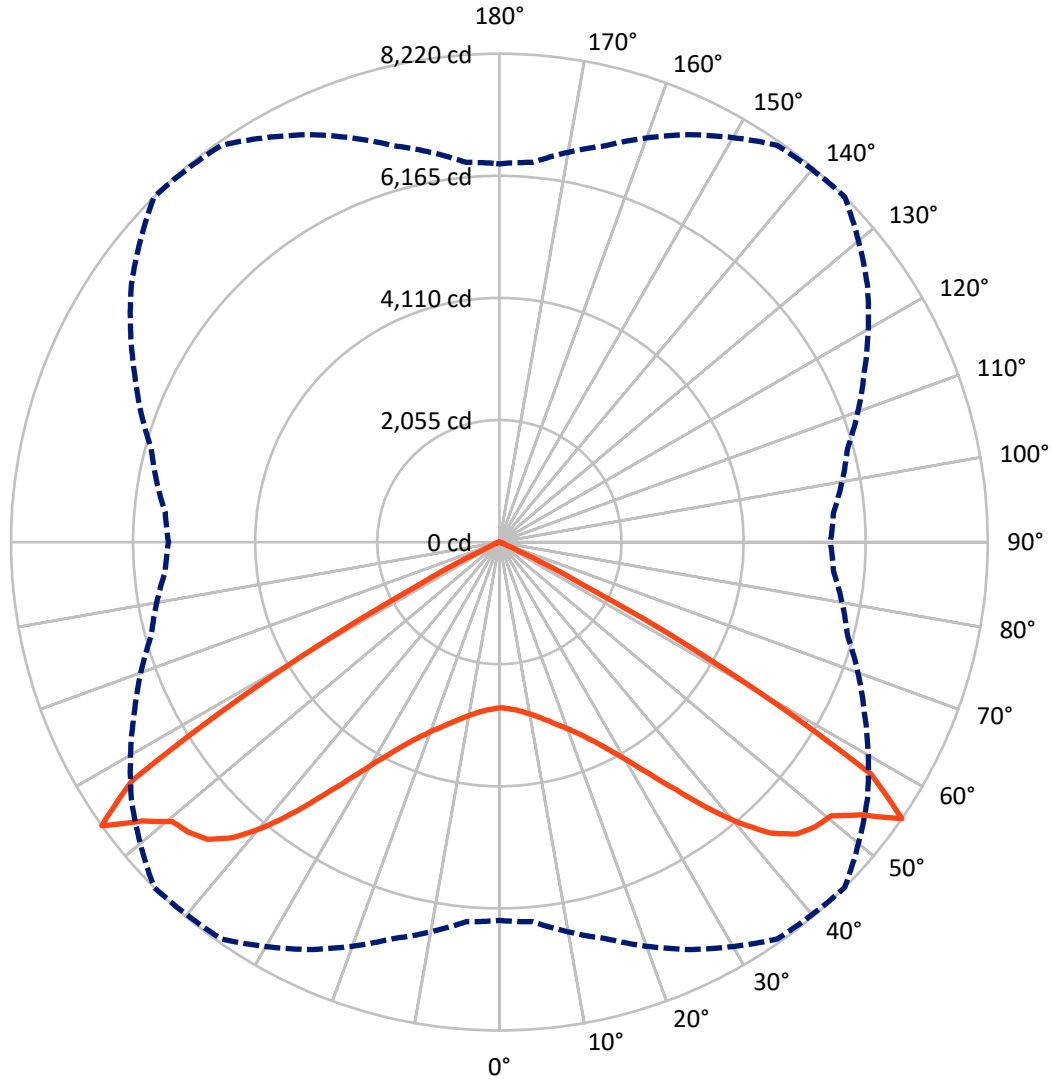
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8616.2	0.0	8616.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8616.2	0.0	8616.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	17232.4	0.0	17232.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.0	1.6
10°-20°	884.9	5.1
20°-30°	1713.7	9.9
30°-40°	3070.2	17.8
40°-50°	5147.3	29.9
50°-60°	5510.0	32.0
60°-70°	605.5	3.5
70°-80°	26.7	0.2
80°-90°	1.3	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°	17232.4	100.0
0°-180°	17232.4	100.0

Coefficient of Utilization



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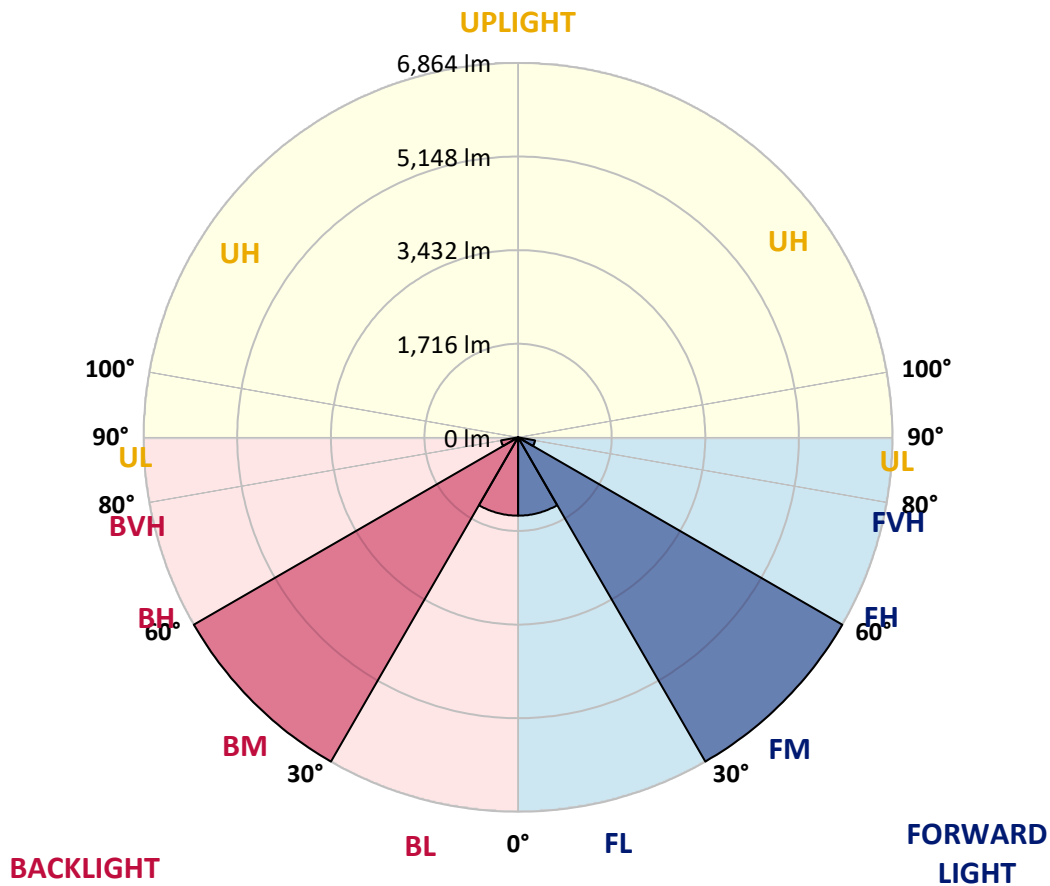
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1435.8	8.3			
FM (30°-60°)	6863.7	39.8			
FH (60°-80°)	316.1	1.8			G0/660
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	1435.8	8.3	B3/2500		
BM (30°-60°)	6863.7	39.8	B4/8500		
BH (60°-80°)	316.1	1.8	B1/500		G0/660
BVH (80°-90°)	0.6	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-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2786.1	2786.1	2786.1	2786.1	2786.1	2786.1	2786.1	2786.1	2786.1	2786.1	2786.1
2.5°	2780.9	2780.9	2787.9	2793.2	2793.2	2807.2	2801.9	2796.7	2796.7	2789.7	2803.7
5°	2821.3	2819.5	2826.5	2830.0	2823.0	2837.1	2828.3	2823.0	2819.5	2812.5	2826.5
7.5°	2865.1	2866.9	2868.7	2875.7	2872.2	2886.2	2879.2	2868.7	2865.1	2854.6	2868.7
10°	2917.8	2917.8	2921.3	2930.1	2931.9	2949.4	2942.4	2930.1	2919.6	2909.0	2923.1
12.5°	2984.5	2986.3	2991.6	3003.8	3010.9	3030.2	3019.6	2995.1	2979.3	2967.0	2982.8
15°	3081.1	3079.3	3086.4	3103.9	3112.7	3126.7	3110.9	3077.6	3058.3	3044.2	3054.8
17.5°	3186.4	3186.4	3189.9	3207.5	3219.8	3240.8	3221.5	3181.2	3163.6	3144.3	3154.8
20°	3302.3	3307.6	3311.1	3323.4	3344.4	3365.5	3349.7	3309.3	3290.0	3265.4	3277.7
22.5°	3455.0	3449.8	3451.5	3472.6	3502.4	3523.5	3511.2	3463.8	3430.5	3411.1	3418.2
25°	3625.3	3623.6	3628.8	3660.4	3693.8	3716.6	3699.1	3637.6	3604.3	3570.9	3584.9
27.5°	3834.2	3836.0	3839.5	3878.1	3930.8	3964.2	3920.3	3858.8	3813.2	3769.3	3779.8
30°	4081.8	4078.3	4088.8	4141.5	4218.7	4271.4	4220.5	4134.5	4069.5	4027.4	4032.6
32.5°	4345.1	4348.6	4376.7	4461.0	4562.8	4655.9	4552.3	4438.2	4353.9	4274.9	4285.4
35°	4629.5	4638.3	4701.5	4826.2	4992.9	5117.6	4973.6	4785.8	4666.4	4564.6	4568.1
37.5°	4964.9	4985.9	5073.7	5259.8	5498.6	5665.3	5454.7	5205.4	5050.9	4924.5	4915.7
40°	5405.5	5430.1	5549.5	5770.7	6060.4	6213.1	5969.1	5712.7	5521.4	5384.4	5363.4
42.5°	5911.1	5942.7	6072.6	6299.1	6588.8	6692.4	6453.6	6237.7	6065.6	5904.1	5897.1
45°	6481.7	6499.3	6604.6	6778.4	6987.3	7011.9	6832.8	6713.4	6539.6	6388.7	6376.4
47.5°	7017.2	7034.7	7106.7	7196.2	7245.4	7157.6	7126.0	7073.3	6848.6	6662.5	6623.9
50°	7424.5	7438.5	7528.0	7563.2	7426.2	7240.1	7301.6	7189.2	6945.2	6736.3	6676.6
52.5°	7396.4	7431.5	7661.5	7861.6	7775.6	7624.6	7459.6	7217.3	6838.1	6551.9	6478.2
55°	6367.6	6415.0	6908.3	7566.7	8154.8	8219.7	7559.6	6778.4	6065.6	5646.0	5570.5
57.5°	4092.3	4104.6	4706.8	5630.2	6955.7	7373.5	6269.3	5110.6	4224.0	3762.3	3730.7
60°	1504.6	1480.0	1934.7	2700.1	4006.3	4448.7	3690.3	2584.3	1843.4	1516.8	1490.5
62.5°	361.7	365.2	452.9	679.4	1257.0	1555.5	1228.9	686.4	437.1	366.9	363.4
65°	182.6	179.1	180.8	194.9	268.6	321.3	263.3	186.1	179.1	180.8	179.1
67.5°	117.6	115.9	119.4	121.1	119.4	112.4	110.6	114.1	114.1	115.9	112.4
70°	72.0	70.2	73.7	79.0	75.5	66.7	70.2	73.7	70.2	68.5	68.5
72.5°	38.6	38.6	42.1	45.6	42.1	38.6	38.6	40.4	38.6	38.6	38.6
75°	17.6	17.6	19.3	21.1	17.6	17.6	17.6	17.6	17.6	17.6	17.6
77.5°	5.3	5.3	7.0	7.0	5.3	5.3	5.3	5.3	7.0	7.0	7.0
80°	1.8	3.5	3.5	1.8	1.8	1.8	1.8	1.8	3.5	3.5	3.5
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
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)