

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: P637852

Luminaire Tested: GWS-SA4D-760-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637852  
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-SA4D-760-U-5NQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

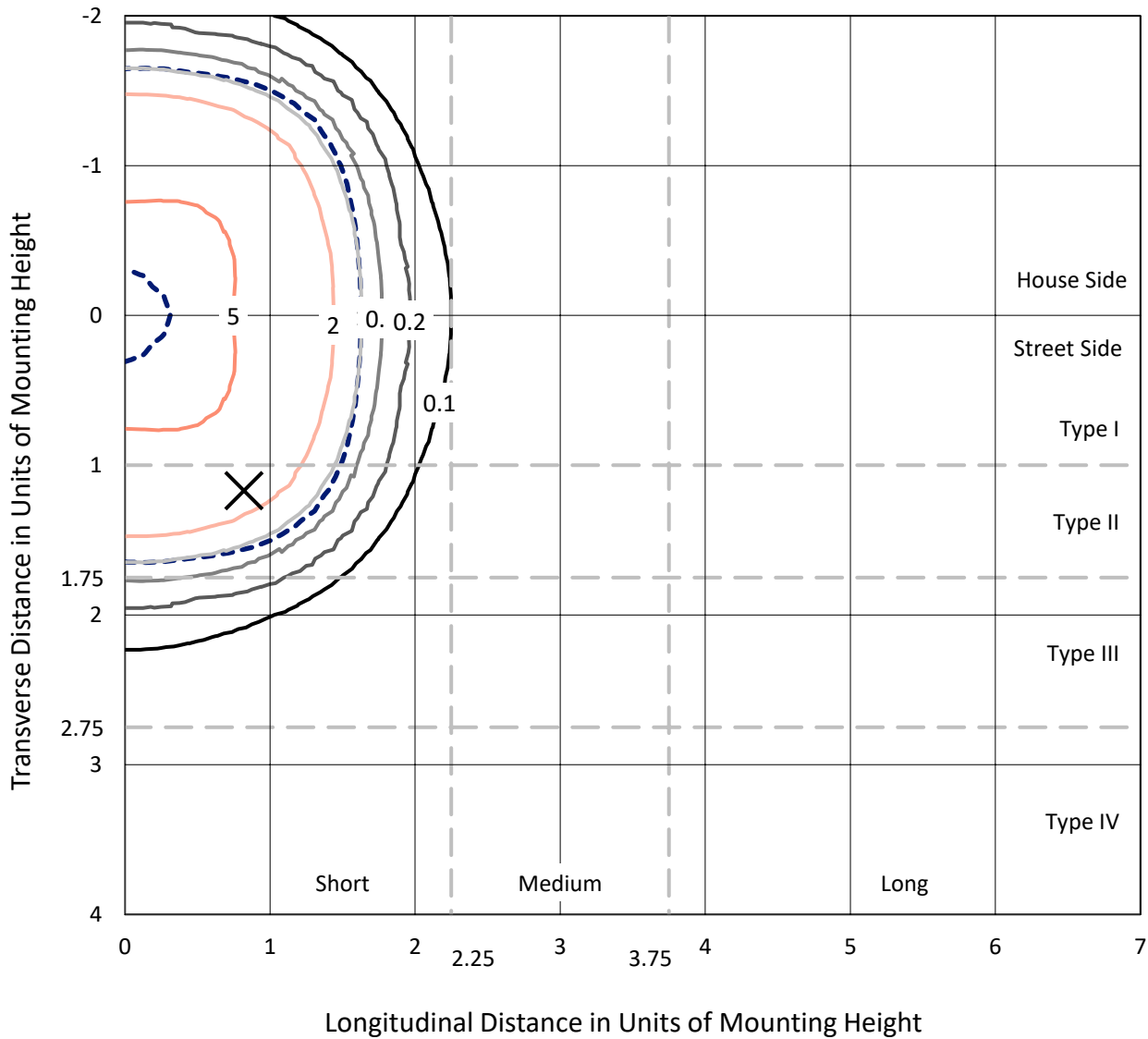
Lumens per Lamp: N/A  
Luminaire Lumens: 22398.1 lumens  
Efficiency: N/A  
Efficacy: 138.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

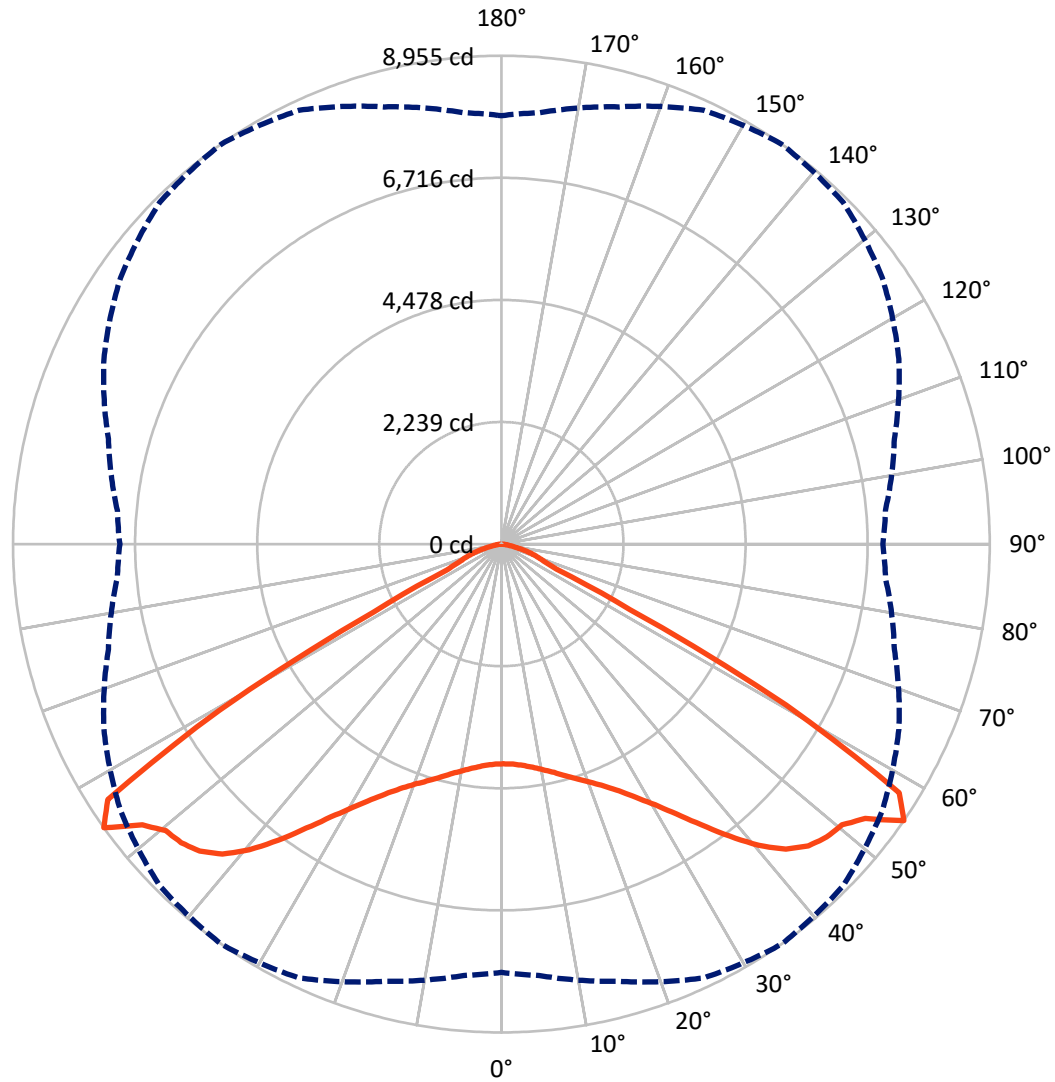
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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
<b>House Side</b>	Lumens	11199.0	0.0	11199.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11199.0	0.0	11199.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22398.1	0.0	22398.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	393.0	1.8
10°-20°	1251.3	5.6
20°-30°	2315.9	10.3
30°-40°	3874.1	17.3
40°-50°	5903.4	26.4
50°-60°	6613.1	29.5
60°-70°	1564.7	7.0
70°-80°	421.9	1.9
80°-90°	60.7	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°	22398.1	100.0
0°-180°	22398.1	100.0

**Coefficient of Utilization**



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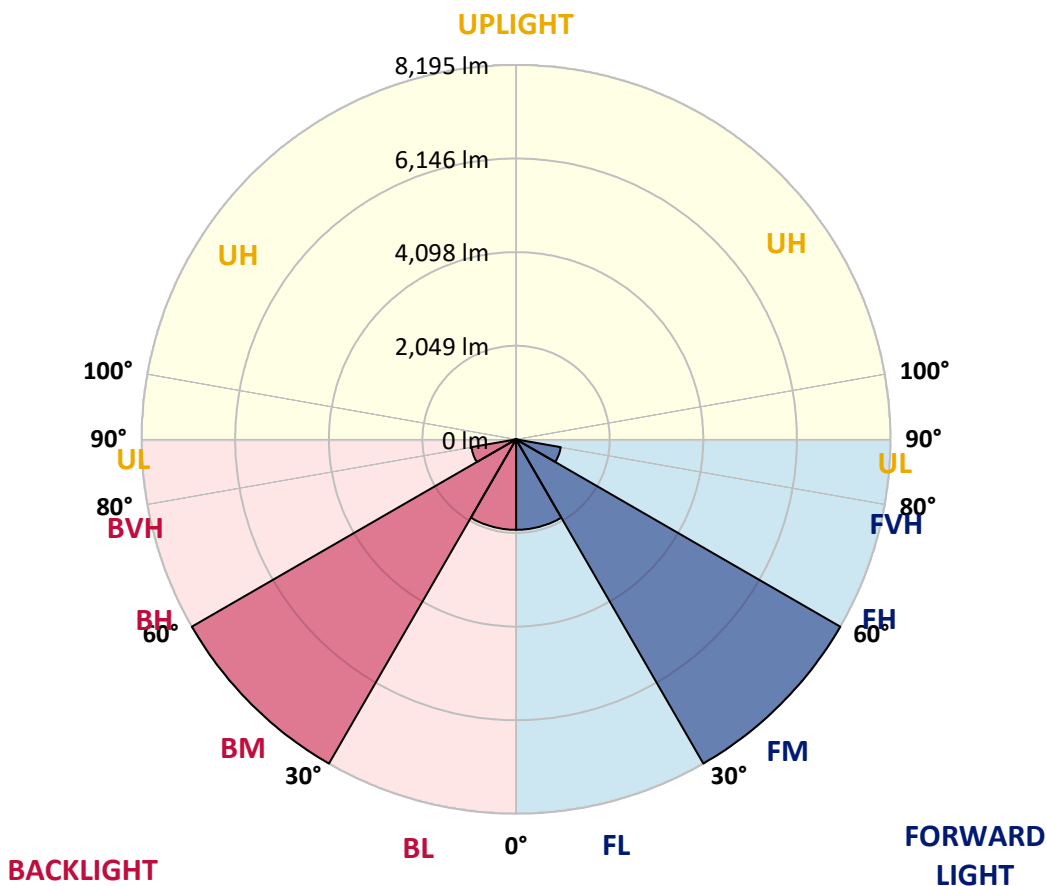
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1980.1	8.8			
FM (30°-60°)	8195.3	36.6			
FH (60°-80°)	993.3	4.4			G1/1800
FVH (80°-90°)	30.4	0.1			G1/100
BL (0°-30°)	1980.1	8.8	B3/2500		
BM (30°-60°)	8195.3	36.6	B4/8500		
BH (60°-80°)	993.3	4.4	B2/1000		G1/1800
BVH (80°-90°)	30.4	0.1			G1/100
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°	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5	4029.5
2.5°	4020.6	4020.6	4027.7	4036.6	4038.3	4056.0	4052.5	4045.4	4041.9	4034.8	4050.7
5°	4064.9	4066.7	4072.0	4077.3	4073.8	4087.9	4082.6	4073.8	4068.4	4059.6	4075.5
7.5°	4123.4	4123.4	4128.7	4135.8	4132.2	4153.5	4142.8	4130.4	4121.6	4111.0	4125.1
10°	4176.5	4180.0	4185.3	4199.5	4206.6	4229.6	4222.5	4204.8	4190.7	4178.3	4194.2
12.5°	4256.2	4259.7	4265.0	4284.5	4296.9	4320.0	4309.3	4284.5	4263.3	4245.6	4263.3
15°	4358.9	4355.4	4369.5	4394.3	4410.3	4431.5	4419.1	4376.6	4348.3	4325.3	4343.0
17.5°	4463.4	4461.7	4475.8	4507.7	4530.7	4559.1	4537.8	4488.2	4458.1	4429.8	4447.5
20°	4576.8	4582.1	4596.3	4626.4	4660.0	4697.2	4679.5	4626.4	4592.7	4560.8	4575.0
22.5°	4716.7	4718.5	4734.4	4773.4	4817.7	4853.1	4842.5	4776.9	4734.4	4700.8	4718.5
25°	4885.0	4883.2	4904.5	4950.5	5012.5	5047.9	5024.9	4952.3	4906.2	4867.3	4881.4
27.5°	5078.0	5076.3	5108.1	5168.4	5256.9	5306.5	5258.7	5168.4	5104.6	5049.7	5062.1
30°	5320.7	5315.4	5350.8	5432.3	5547.4	5630.6	5559.8	5434.0	5350.8	5292.3	5304.7
32.5°	5589.9	5597.0	5641.3	5751.1	5896.3	6004.4	5898.1	5758.2	5646.6	5561.6	5575.7
35°	5885.7	5885.7	5976.0	6112.4	6319.6	6463.1	6298.4	6096.5	5947.7	5830.8	5834.3
37.5°	6215.1	6218.7	6337.4	6525.1	6796.1	6964.4	6741.2	6491.4	6310.8	6185.0	6177.9
40°	6617.2	6627.8	6750.0	6959.0	7263.7	7417.8	7178.7	6934.2	6750.0	6601.3	6587.1
42.5°	7070.6	7074.2	7203.5	7391.2	7648.0	7740.1	7552.4	7352.2	7201.7	7067.1	7052.9
45°	7502.8	7493.9	7605.5	7745.5	7894.2	7903.1	7798.6	7717.1	7586.0	7470.9	7449.7
47.5°	7839.3	7832.2	7933.2	8009.4	8027.1	7940.3	7973.9	7986.3	7834.0	7678.1	7637.4
50°	8044.8	8059.0	8154.6	8197.1	8092.6	7950.9	8078.4	8046.6	7828.7	7625.0	7559.5
52.5°	8168.8	8190.0	8356.5	8464.6	8356.5	8221.9	8239.6	8051.9	7738.4	7469.1	7384.1
55°	7855.3	7940.3	8299.8	8778.1	8955.2	8861.3	8524.8	8041.2	7460.3	7068.9	6996.2
57.5°	5821.9	5956.5	6489.7	7525.8	8602.7	8944.6	7961.5	6741.2	5860.9	5357.9	5315.4
60°	2972.1	3122.6	3549.5	4614.0	5999.1	6480.8	5545.6	4316.4	3430.8	3023.4	2977.4
62.5°	1213.3	1238.1	1378.0	1788.9	2651.5	3058.9	2686.9	1886.3	1417.0	1305.4	1307.1
65°	954.7	960.0	952.9	977.7	1110.5	1232.8	1138.9	1000.7	975.9	988.3	979.5
67.5°	832.5	834.2	828.9	828.9	834.2	828.9	839.5	844.9	848.4	862.6	853.7
70°	696.1	697.9	697.9	701.4	699.6	690.8	706.7	713.8	715.6	724.4	719.1
72.5°	538.4	543.8	547.3	549.1	547.3	542.0	550.8	563.2	561.5	570.3	561.5
75°	364.9	372.0	375.5	382.6	380.8	380.8	391.4	396.7	391.4	398.5	391.4
77.5°	207.2	212.5	223.2	230.3	237.3	242.7	249.7	253.3	251.5	255.1	251.5
80°	120.4	122.2	131.1	134.6	143.5	152.3	159.4	163.0	164.7	166.5	164.7
82.5°	69.1	70.8	74.4	77.9	85.0	92.1	99.2	104.5	104.5	106.3	104.5
85°	33.7	33.7	35.4	37.2	40.7	46.1	51.4	56.7	58.4	58.4	58.4
87.5°	5.3	5.3	7.1	7.1	8.9	10.6	14.2	17.7	19.5	19.5	19.5
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)