

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: P638291

Luminaire Tested: GWS-SA4E-750-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638291  
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-SA4E-750-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) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

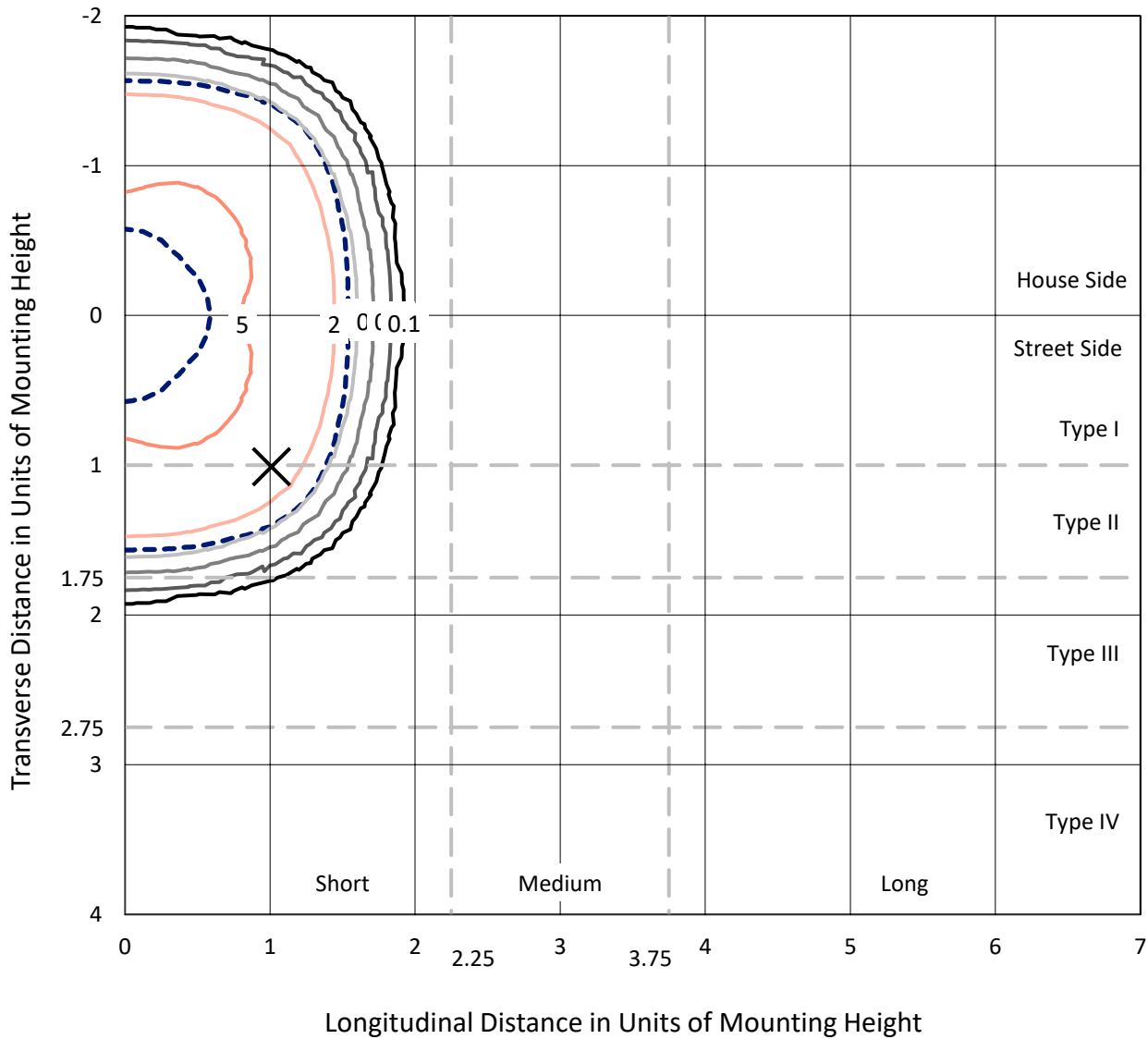
Lumens per Lamp: N/A  
Luminaire Lumens: 22028 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G0  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

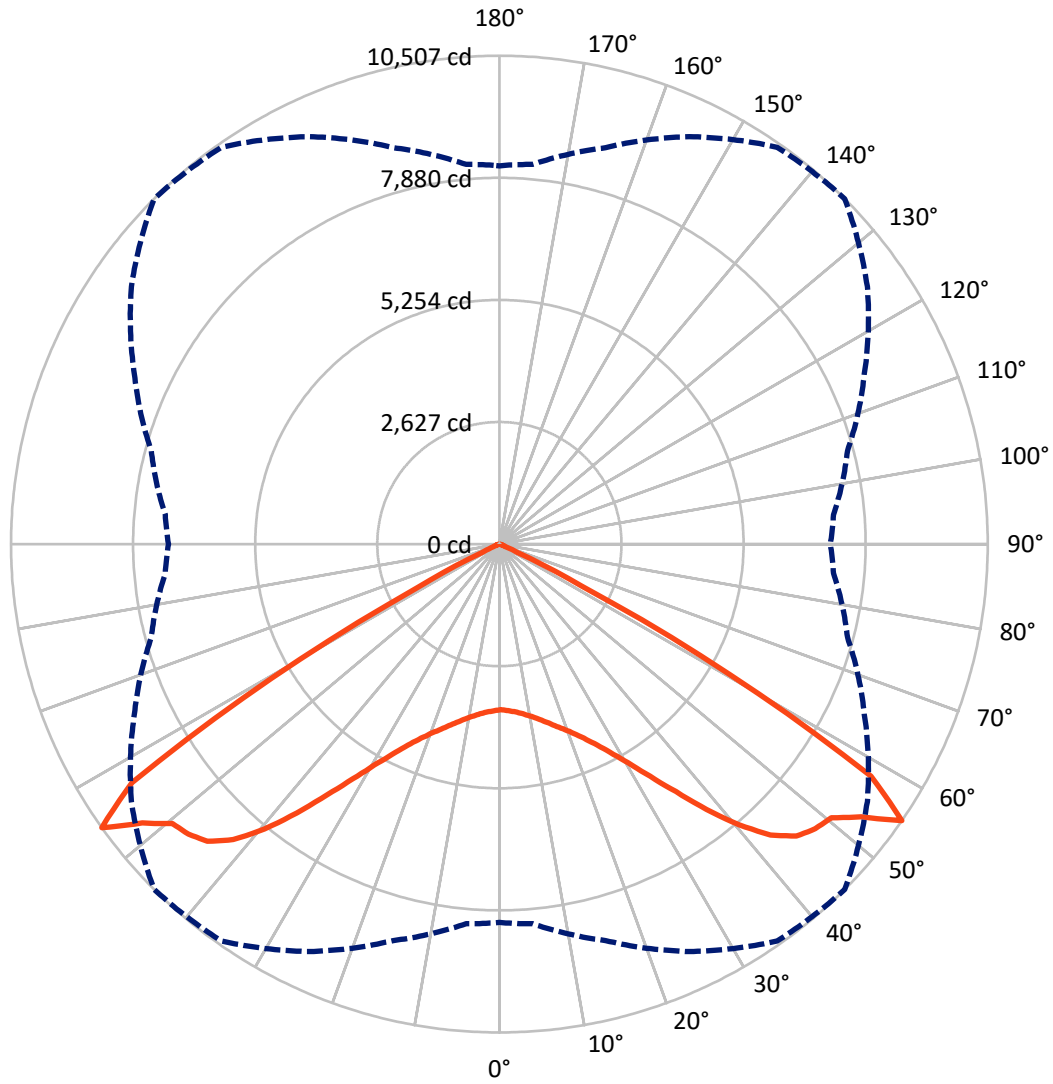
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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
<b>House Side</b>	Lumens	11014.0	0.0	11014.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11014.0	0.0	11014.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22028.0	0.0	22028.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.0	1.6
10°-20°	1131.1	5.1
20°-30°	2190.6	9.9
30°-40°	3924.5	17.8
40°-50°	6579.8	29.9
50°-60°	7043.4	32.0
60°-70°	774.0	3.5
70°-80°	34.1	0.2
80°-90°	1.6	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°	22028.0	100.0
0°-180°	22028.0	100.0

**Coefficient of Utilization**



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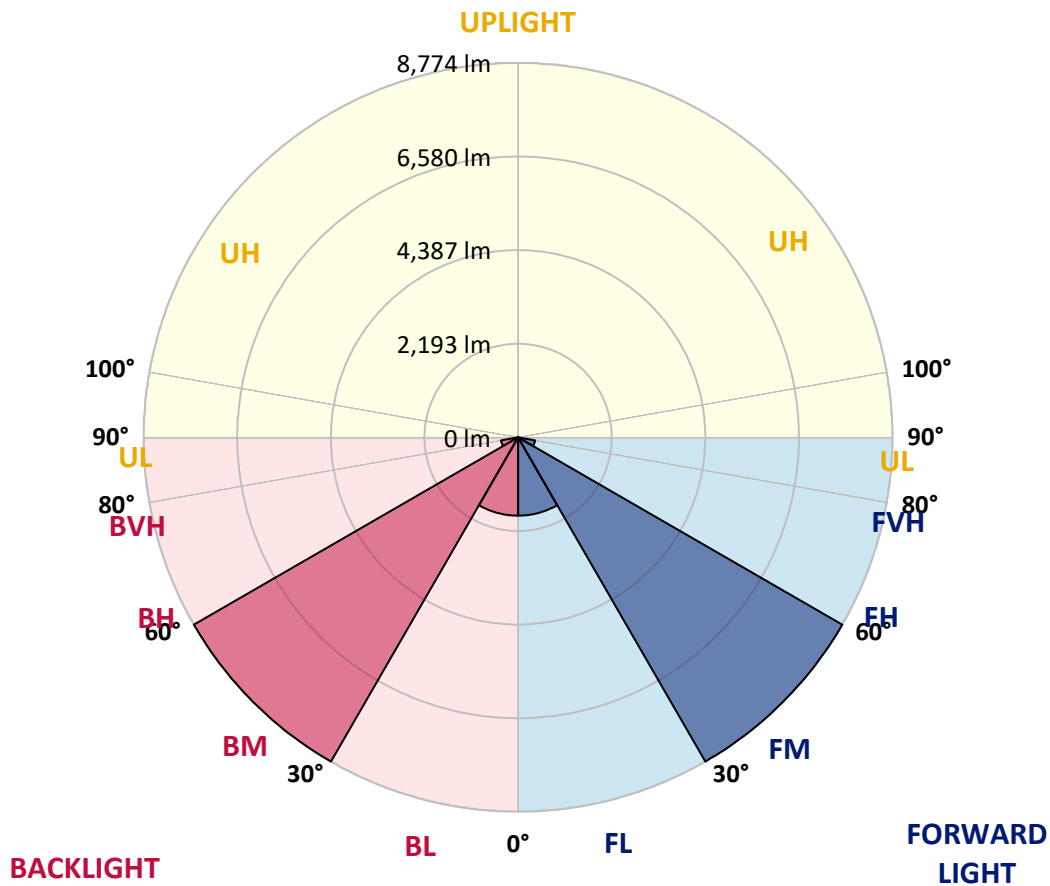
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1835.3	8.3			
FM (30°-60°)	8773.8	39.8			
FH (60°-80°)	404.0	1.8			G0/660
FVH (80°-90°)	0.8	0.0			G0/10
BL (0°-30°)	1835.3	8.3	B3/2500		
BM (30°-60°)	8773.8	39.8	B5		
BH (60°-80°)	404.0	1.8	B1/500		G0/660
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5	3561.5
2.5°	3554.8	3554.8	3563.7	3570.5	3570.5	3588.4	3581.7	3575.0	3575.0	3566.0	3583.9
5°	3606.4	3604.1	3613.1	3617.6	3608.6	3626.6	3615.4	3608.6	3604.1	3595.2	3613.1
7.5°	3662.5	3664.7	3667.0	3676.0	3671.5	3689.4	3680.4	3667.0	3662.5	3649.0	3667.0
10°	3729.8	3729.8	3734.3	3745.5	3747.8	3770.2	3761.2	3745.5	3732.1	3718.6	3736.5
12.5°	3815.1	3817.3	3824.1	3839.8	3848.8	3873.4	3860.0	3828.6	3808.4	3792.7	3812.9
15°	3938.5	3936.3	3945.3	3967.7	3978.9	3996.9	3976.7	3934.0	3909.3	3891.4	3904.9
17.5°	4073.2	4073.2	4077.7	4100.1	4115.8	4142.7	4118.1	4066.4	4044.0	4019.3	4032.8
20°	4221.3	4228.0	4232.5	4248.2	4275.2	4302.1	4281.9	4230.3	4205.6	4174.2	4189.9
22.5°	4416.5	4409.8	4412.0	4439.0	4477.1	4504.1	4488.3	4427.8	4385.1	4360.4	4369.4
25°	4634.2	4632.0	4638.7	4679.1	4721.7	4750.9	4728.5	4649.9	4607.3	4564.6	4582.6
27.5°	4901.3	4903.5	4908.0	4957.4	5024.7	5067.3	5011.2	4932.7	4874.3	4818.2	4831.7
30°	5217.7	5213.2	5226.7	5294.0	5392.7	5460.1	5395.0	5285.0	5202.0	5148.1	5154.9
32.5°	5554.3	5558.8	5594.7	5702.4	5832.6	5951.5	5819.1	5673.3	5565.5	5464.6	5478.0
35°	5917.9	5929.1	6009.9	6169.2	6382.4	6541.8	6357.7	6117.6	5965.0	5834.9	5839.3
37.5°	6346.5	6373.5	6485.7	6723.5	7028.8	7241.9	6972.6	6654.0	6456.5	6294.9	6283.7
40°	6909.8	6941.2	7093.8	7376.6	7746.9	7942.1	7630.2	7302.5	7057.9	6882.9	6855.9
42.5°	7556.1	7596.5	7762.6	8052.1	8422.4	8554.8	8249.6	7973.5	7753.6	7547.2	7538.2
45°	8285.5	8307.9	8442.6	8664.8	8931.8	8963.2	8734.3	8581.7	8359.5	8166.5	8150.8
47.5°	8970.0	8992.4	9084.4	9198.9	9261.7	9149.5	9109.1	9041.8	8754.5	8516.6	8467.3
50°	9490.6	9508.6	9623.0	9667.9	9492.9	9255.0	9333.5	9189.9	8877.9	8610.9	8534.6
52.5°	9454.7	9499.6	9793.6	10049.4	9939.4	9746.4	9535.5	9225.8	8741.1	8375.3	8281.0
55°	8139.6	8200.2	8830.8	9672.4	10424.2	10507.2	9663.4	8664.8	7753.6	7217.3	7120.8
57.5°	5231.2	5246.9	6016.6	7197.1	8891.4	9425.5	8013.9	6532.8	5399.5	4809.3	4768.9
60°	1923.3	1891.8	2473.1	3451.5	5121.2	5686.7	4717.3	3303.4	2356.4	1939.0	1905.3
62.5°	462.3	466.8	579.0	868.5	1606.8	1988.3	1570.9	877.5	558.8	469.0	464.5
65°	233.4	228.9	231.1	249.1	343.4	410.7	336.6	237.9	228.9	231.1	228.9
67.5°	150.4	148.1	152.6	154.8	152.6	143.6	141.4	145.9	145.9	148.1	143.6
70°	92.0	89.8	94.3	101.0	96.5	85.3	89.8	94.3	89.8	87.5	87.5
72.5°	49.4	49.4	53.9	58.3	53.9	49.4	49.4	51.6	49.4	49.4	49.4
75°	22.4	22.4	24.7	26.9	22.4	22.4	22.4	22.4	22.4	22.4	22.4
77.5°	6.7	6.7	9.0	9.0	6.7	6.7	6.7	6.7	9.0	9.0	9.0
80°	2.2	4.5	4.5	2.2	2.2	2.2	2.2	2.2	4.5	4.5	4.5
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
85°	2.2	2.2	2.2	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2
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)