

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: P638346

Luminaire Tested: GWS-SA4E-760-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638346  
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-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

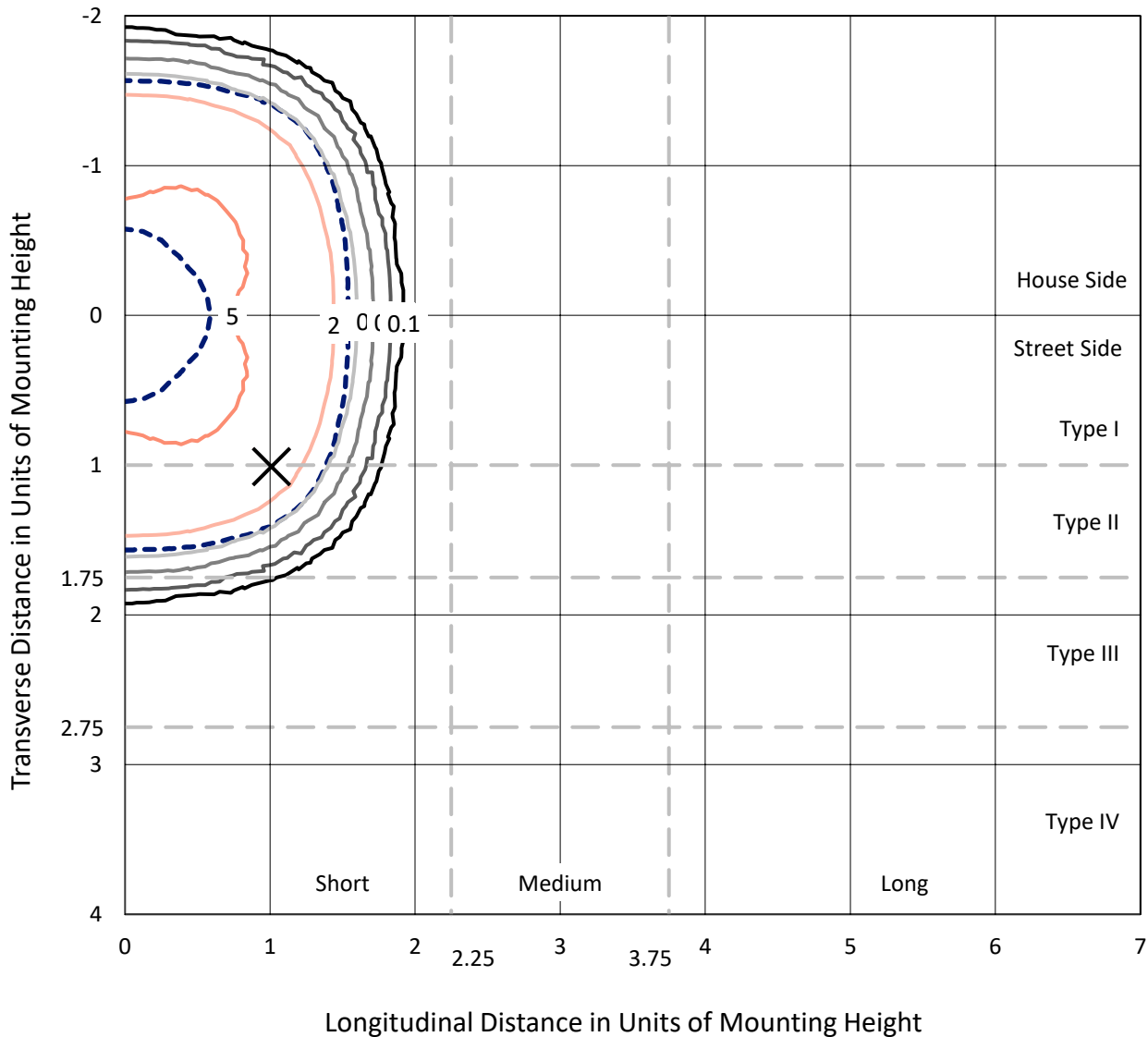
Lumens per Lamp: N/A  
Luminaire Lumens: 21726.1 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G0  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

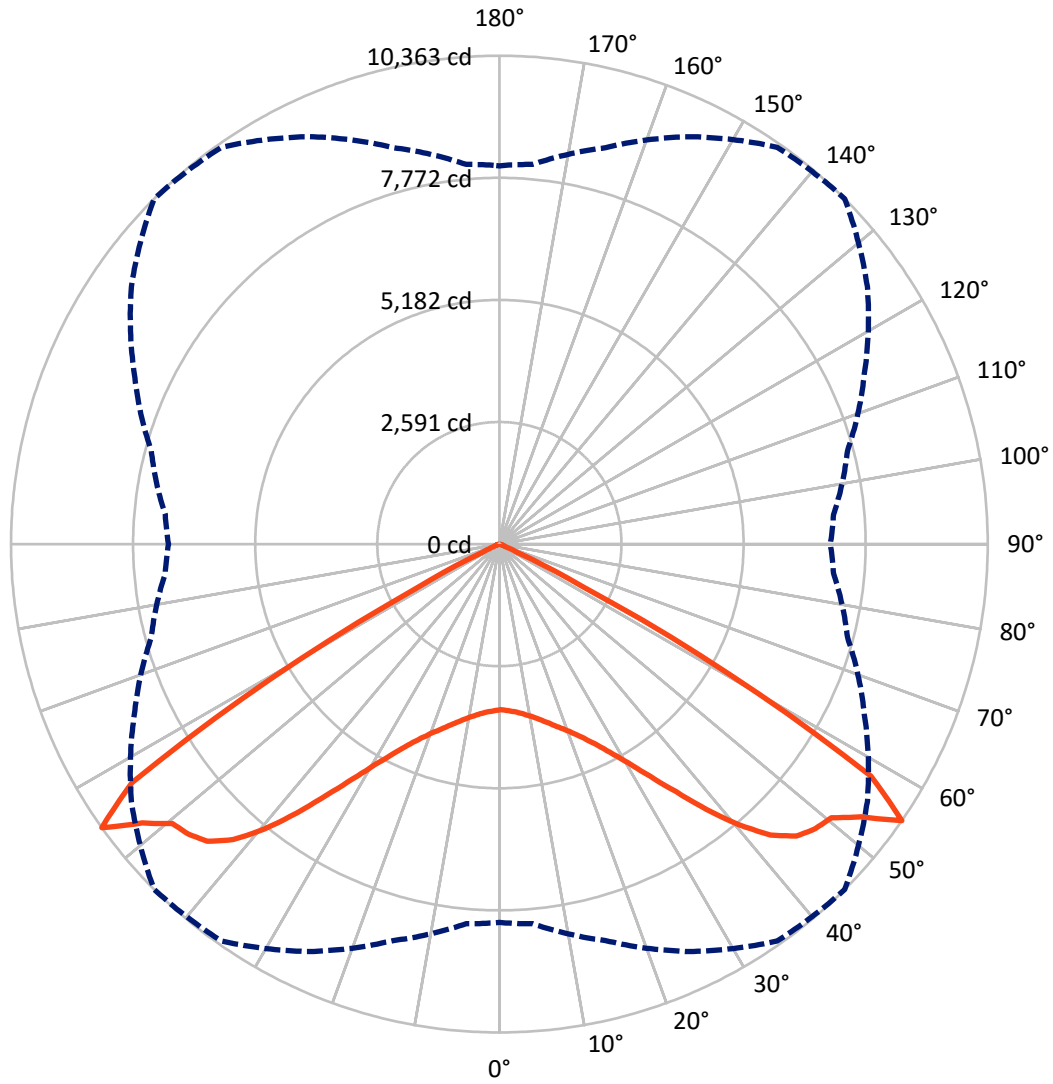
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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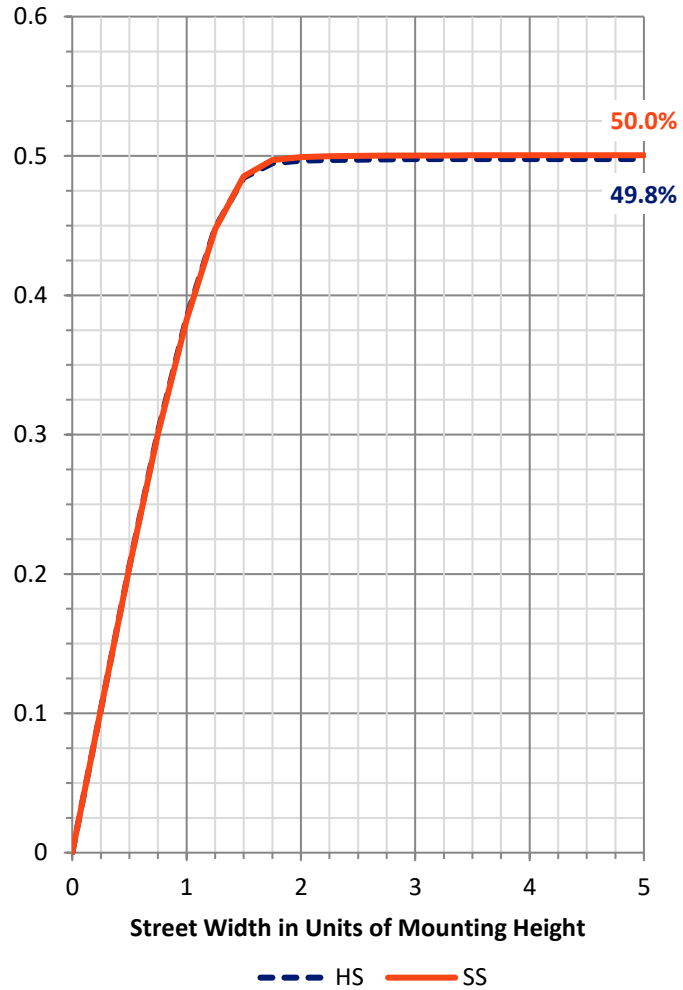
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10863.0	0.0	10863.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10863.0	0.0	10863.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21726.1	0.0	21726.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.2	1.6
10°-20°	1115.6	5.1
20°-30°	2160.6	9.9
30°-40°	3870.8	17.8
40°-50°	6489.6	29.9
50°-60°	6946.8	32.0
60°-70°	763.4	3.5
70°-80°	33.6	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°	21726.1	100.0
0°-180°	21726.1	100.0

**Coefficient of Utilization**



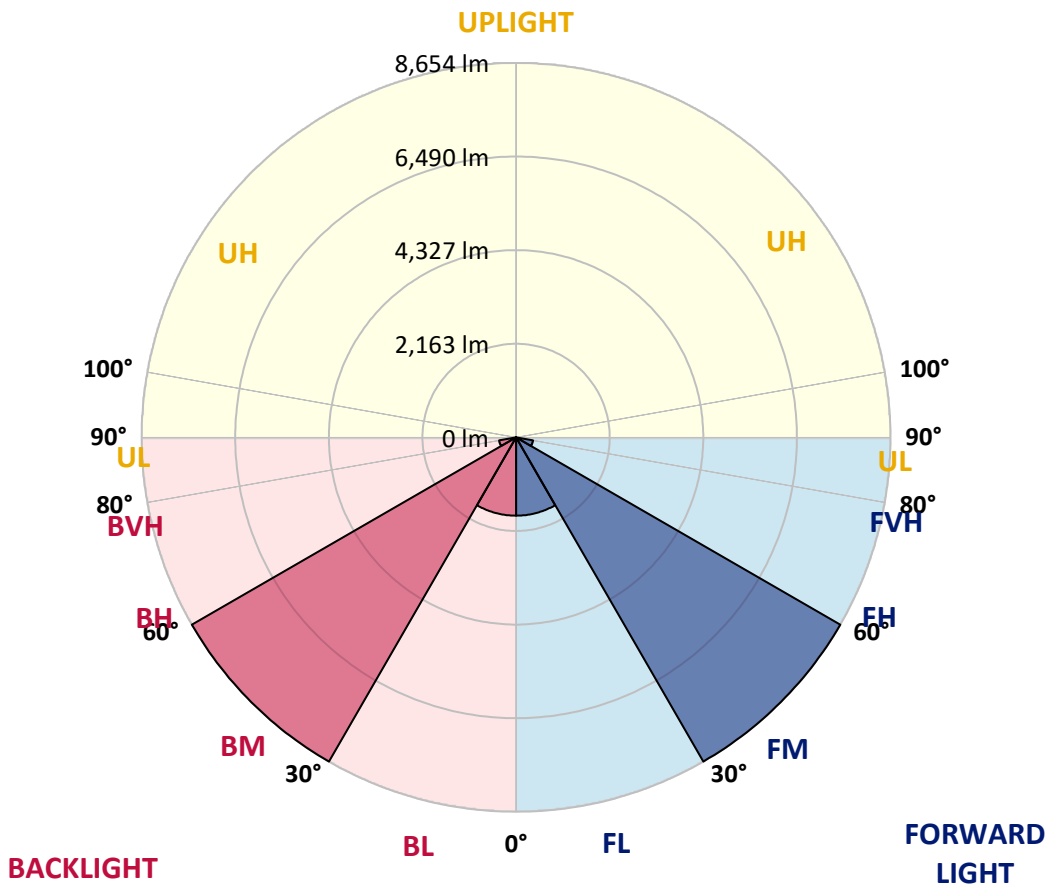
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1810.2	8.3			
FM (30°-60°)	8653.6	39.8			
FH (60°-80°)	398.5	1.8			G0/660
FVH (80°-90°)	0.8	0.0			G0/10
BL (0°-30°)	1810.2	8.3	B3/2500		
BM (30°-60°)	8653.6	39.8	B5		
BH (60°-80°)	398.5	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°	3512.7	3512.7	3512.7	3512.7	3512.7	3512.7	3512.7	3512.7	3512.7	3512.7	3512.7
2.5°	3506.1	3506.1	3514.9	3521.5	3521.5	3539.3	3532.6	3526.0	3526.0	3517.1	3534.8
5°	3557.0	3554.7	3563.6	3568.0	3559.2	3576.9	3565.8	3559.2	3554.7	3545.9	3563.6
7.5°	3612.3	3614.5	3616.7	3625.6	3621.1	3638.9	3630.0	3616.7	3612.3	3599.0	3616.7
10°	3678.7	3678.7	3683.1	3694.2	3696.4	3718.5	3709.7	3694.2	3680.9	3667.6	3685.3
12.5°	3762.8	3765.0	3771.7	3787.2	3796.0	3820.4	3807.1	3776.1	3756.2	3740.7	3760.6
15°	3884.5	3882.3	3891.2	3913.3	3924.4	3942.1	3922.2	3880.1	3855.8	3838.1	3851.3
17.5°	4017.4	4017.4	4021.8	4043.9	4059.4	4086.0	4061.6	4010.7	3988.6	3964.2	3977.5
20°	4163.4	4170.1	4174.5	4190.0	4216.6	4243.1	4223.2	4172.3	4147.9	4117.0	4132.4
22.5°	4356.0	4349.4	4351.6	4378.1	4415.8	4442.3	4426.8	4367.1	4325.0	4300.7	4309.5
25°	4570.7	4568.5	4575.1	4615.0	4657.0	4685.8	4663.7	4586.2	4544.1	4502.1	4519.8
27.5°	4834.1	4836.3	4840.7	4889.4	4955.8	4997.9	4942.6	4865.1	4807.5	4752.2	4765.5
30°	5146.2	5141.8	5155.0	5221.4	5318.8	5385.2	5321.1	5212.6	5130.7	5077.6	5084.2
32.5°	5478.2	5482.6	5518.0	5624.3	5752.7	5870.0	5739.4	5595.5	5489.3	5389.7	5402.9
35°	5836.8	5847.8	5927.5	6084.7	6295.0	6452.1	6270.6	6033.8	5883.3	5754.9	5759.3
37.5°	6259.5	6286.1	6396.8	6631.4	6932.4	7142.7	6877.1	6562.8	6368.0	6208.6	6197.6
40°	6815.1	6846.1	6996.6	7275.5	7640.7	7833.3	7525.6	7202.5	6961.2	6788.5	6762.0
42.5°	7452.6	7492.4	7656.2	7941.7	8307.0	8437.5	8136.5	7864.3	7647.4	7443.7	7434.9
45°	8171.9	8194.1	8326.9	8546.0	8809.4	8840.4	8614.6	8464.1	8245.0	8054.6	8039.1
47.5°	8847.0	8869.2	8959.9	9072.8	9134.8	9024.1	8984.3	8917.9	8634.5	8399.9	8351.2
50°	9360.5	9378.2	9491.1	9535.4	9362.8	9128.1	9205.6	9063.9	8756.3	8492.9	8417.6
52.5°	9325.1	9369.4	9659.3	9911.7	9803.2	9612.9	9404.8	9099.4	8621.3	8260.5	8167.5
55°	8028.1	8087.8	8709.8	9539.8	10281.3	10363.2	9531.0	8546.0	7647.4	7118.3	7023.2
57.5°	5159.5	5175.0	5934.2	7098.4	8769.6	9296.3	7904.1	6443.3	5325.5	4743.4	4703.5
60°	1896.9	1865.9	2439.2	3404.2	5051.0	5608.8	4652.6	3258.1	2324.1	1912.4	1879.2
62.5°	456.0	460.4	571.1	856.6	1584.8	1961.1	1549.4	865.4	551.1	462.6	458.2
65°	230.2	225.8	228.0	245.7	338.7	405.1	332.0	234.6	225.8	228.0	225.8
67.5°	148.3	146.1	150.5	152.7	150.5	141.7	139.4	143.9	143.9	146.1	141.7
70°	90.8	88.5	93.0	99.6	95.2	84.1	88.5	93.0	88.5	86.3	86.3
72.5°	48.7	48.7	53.1	57.5	53.1	48.7	48.7	50.9	48.7	48.7	48.7
75°	22.1	22.1	24.3	26.6	22.1	22.1	22.1	22.1	22.1	22.1	22.1
77.5°	6.6	6.6	8.9	8.9	6.6	6.6	6.6	6.6	8.9	8.9	8.9
80°	2.2	4.4	4.4	2.2	2.2	2.2	2.2	2.2	4.4	4.4	4.4
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)