

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: P638183

Luminaire Tested: GWS-SA4E-735-U-5NQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638183  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-735-U-5NQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

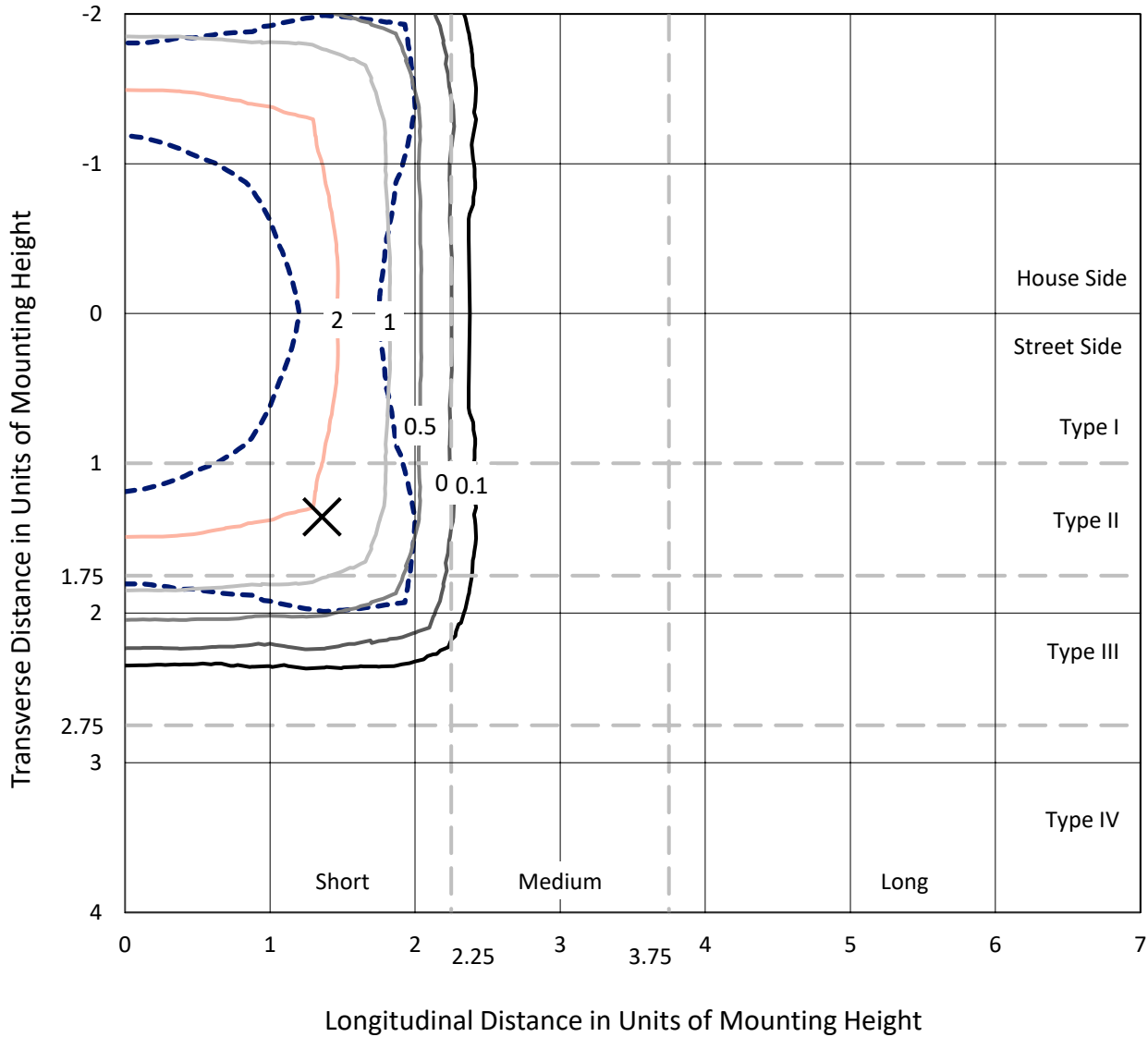
Lumens per Lamp: N/A  
Luminaire Lumens: 31547.4 lumens  
Efficiency: N/A  
Efficacy: 155.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

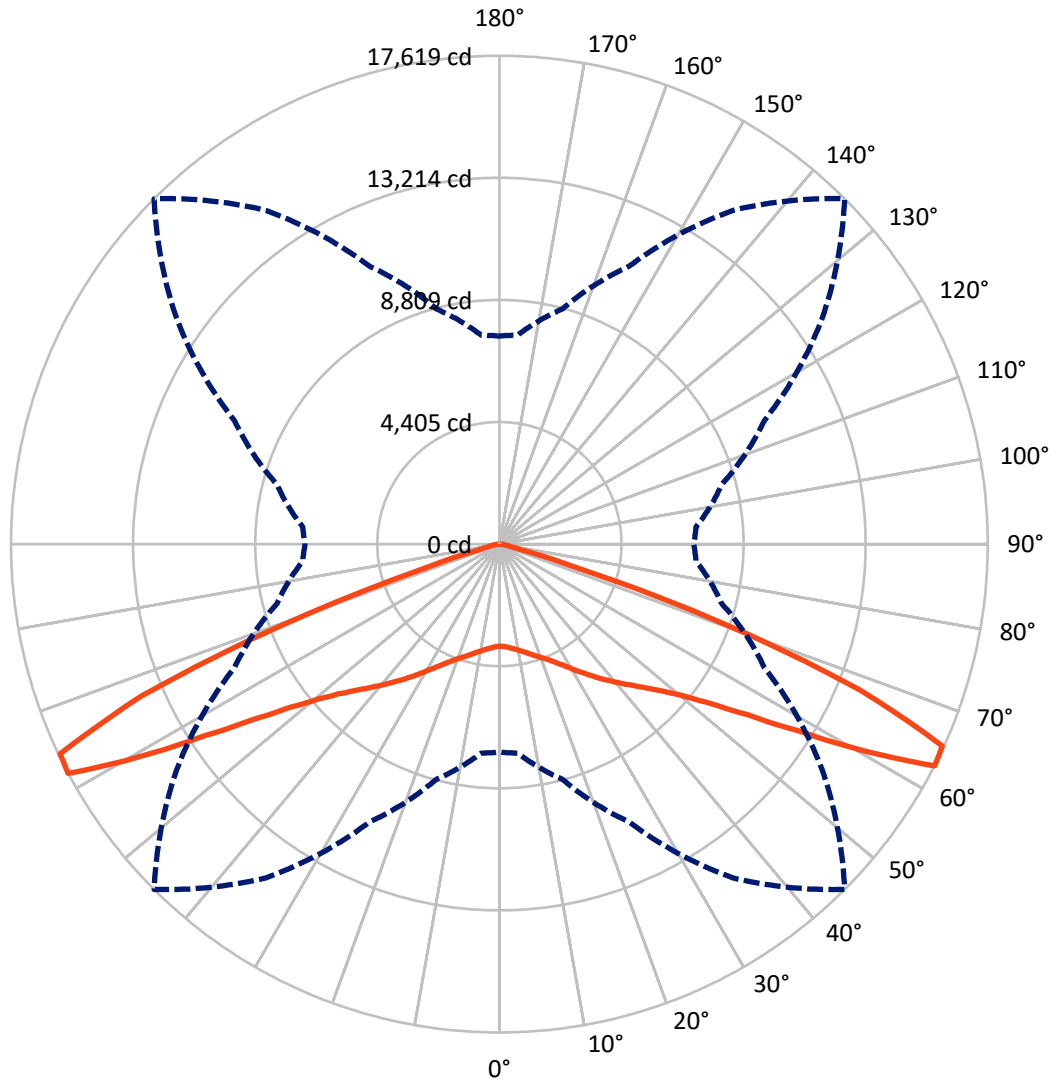
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15773.7	0.0	15773.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15773.7	0.0	15773.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	31547.4	0.0	31547.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	361.1	1.1
10°-20°	1164.5	3.7
20°-30°	2203.1	7.0
30°-40°	3708.1	11.8
40°-50°	5924.4	18.8
50°-60°	9549.9	30.3
60°-70°	7791.6	24.7
70°-80°	756.6	2.4
80°-90°	88.0	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°	31547.4	100.0
0°-180°	31547.4	100.0

**Coefficient of Utilization**



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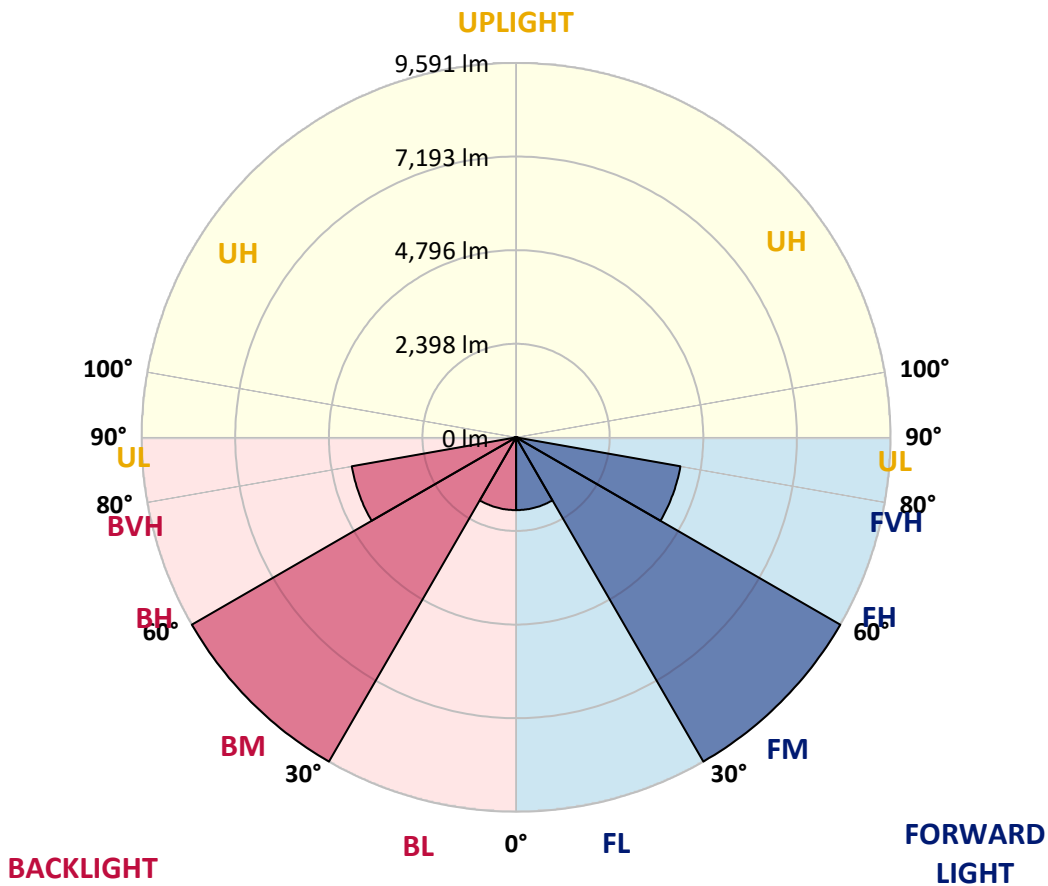
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1864.3	5.9			
FM (30°-60°)	9591.2	30.4			
FH (60°-80°)	4274.1	13.5			G2/5000
FVH (80°-90°)	44.0	0.1			G1/100
BL (0°-30°)	1864.3	5.9	B3/2500		
BM (30°-60°)	9591.2	30.4	B5		
BH (60°-80°)	4274.1	13.5	B4/5000		G2/5000
BVH (80°-90°)	44.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3680.4	3680.4	3680.4	3680.4	3680.4	3680.4	3680.4	3680.4	3680.4	3680.4	3680.4
2.5°	3676.1	3676.1	3684.8	3691.2	3686.9	3704.2	3702.1	3697.7	3695.6	3689.1	3708.6
5°	3725.9	3725.9	3732.4	3738.8	3728.0	3749.7	3741.0	3736.7	3734.5	3725.9	3743.2
7.5°	3782.1	3788.6	3790.8	3801.6	3795.1	3818.9	3812.4	3803.8	3799.4	3788.6	3803.8
10°	3844.9	3849.2	3851.4	3870.8	3873.0	3901.1	3894.6	3883.8	3875.2	3864.3	3886.0
12.5°	3929.3	3931.4	3937.9	3961.7	3968.2	3989.8	3987.7	3972.5	3961.7	3946.6	3970.4
15°	4037.4	4039.6	4050.4	4074.2	4085.0	4111.0	4102.3	4078.5	4063.4	4046.1	4065.6
17.5°	4149.9	4158.6	4169.4	4193.2	4208.4	4238.7	4227.8	4201.9	4188.9	4171.6	4184.6
20°	4294.9	4297.1	4303.6	4329.5	4340.4	4375.0	4377.1	4351.2	4344.7	4327.4	4346.8
22.5°	4455.0	4457.2	4463.7	4491.8	4511.3	4532.9	4545.9	4530.8	4519.9	4498.3	4522.1
25°	4632.5	4654.1	4660.6	4695.2	4716.8	4729.8	4745.0	4738.5	4723.3	4697.4	4708.2
27.5°	4881.3	4885.6	4896.4	4935.4	4948.3	4961.3	4976.5	4978.6	4957.0	4926.7	4941.9
30°	5164.7	5162.6	5186.4	5216.6	5227.5	5238.3	5259.9	5272.9	5244.8	5212.3	5227.5
32.5°	5454.7	5480.6	5510.9	5539.0	5532.5	5536.9	5571.5	5595.3	5556.3	5497.9	5510.9
35°	5781.4	5798.7	5837.6	5878.7	5870.1	5863.6	5885.2	5909.0	5854.9	5779.2	5798.7
37.5°	6116.7	6142.7	6201.1	6250.9	6237.9	6207.6	6231.4	6257.4	6205.5	6118.9	6110.2
40°	6491.1	6532.2	6616.6	6657.7	6623.0	6564.6	6605.7	6668.5	6616.6	6517.0	6493.2
42.5°	6930.3	6980.1	7064.4	7127.2	7051.5	6956.3	7025.5	7116.4	7103.4	6971.4	6930.3
45°	7473.4	7505.8	7609.7	7640.0	7527.5	7395.5	7521.0	7659.4	7627.0	7484.2	7430.1
47.5°	8064.1	8113.8	8204.7	8261.0	8079.2	7914.8	8090.0	8276.1	8241.5	8107.3	8044.6
50°	8817.0	8881.9	9000.9	9048.5	8797.5	8609.3	8834.3	9070.2	9003.1	8823.5	8741.3
52.5°	9637.1	9689.0	9892.4	9987.6	9751.7	9548.3	9745.2	9976.8	9834.0	9595.9	9485.6
55°	10359.7	10411.7	10710.2	11026.1	11015.3	10874.7	10974.2	10978.5	10591.2	10197.5	10080.6
57.5°	10515.5	10567.4	11136.5	11963.0	12547.2	12709.5	12417.4	11802.9	10827.1	10136.9	10004.9
60°	9684.7	9743.1	10647.5	12157.8	14079.1	15163.1	13817.3	11785.6	10097.9	9163.2	9037.7
62.5°	7503.7	7566.4	8782.4	11049.9	14697.9	17618.9	14224.1	10545.8	8306.4	7122.9	7012.5
65°	3583.1	3583.1	5127.9	7925.6	13464.6	17560.5	13047.0	7802.3	5000.3	3840.5	3745.3
67.5°	887.1	891.4	1319.8	3085.4	9158.9	14014.2	9308.2	3745.3	1761.2	1246.3	1213.8
70°	553.9	551.7	612.3	835.2	3204.4	8505.4	3805.9	1129.4	716.2	631.8	627.5
72.5°	430.6	430.6	460.9	534.4	839.5	2897.2	1110.0	627.5	519.3	467.4	467.4
75°	339.7	339.7	361.3	400.3	495.5	746.5	590.7	465.2	402.4	367.8	363.5
77.5°	253.2	257.5	274.8	300.8	337.5	419.8	374.3	350.5	313.7	287.8	279.1
80°	164.4	170.9	192.6	207.7	220.7	277.0	244.5	255.3	238.0	207.7	203.4
82.5°	88.7	90.9	116.8	121.2	125.5	151.5	155.8	162.3	168.8	132.0	123.3
85°	32.5	32.5	38.9	45.4	49.8	54.1	73.6	90.9	95.2	75.7	73.6
87.5°	6.5	6.5	6.5	4.3	4.3	4.3	13.0	23.8	38.9	30.3	30.3
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)