

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: P638457

Luminaire Tested: GWS-SA4E-830-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638457  
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-SA4E-830-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) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22038.7 lumens  
Efficiency: N/A  
Efficacy: 108.8 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): 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

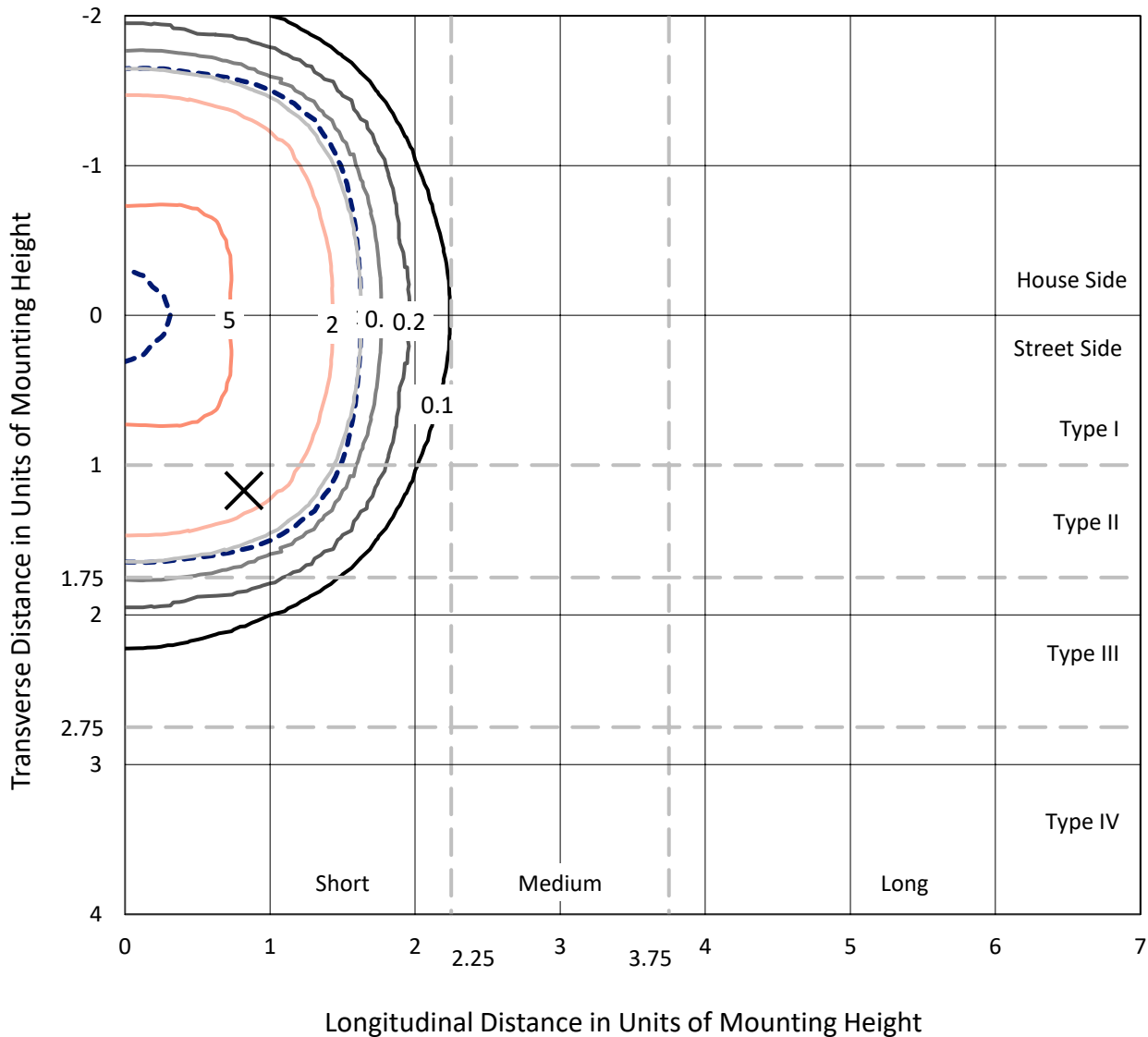


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### Iso-Footcandle Lines of Horizontal Illumination

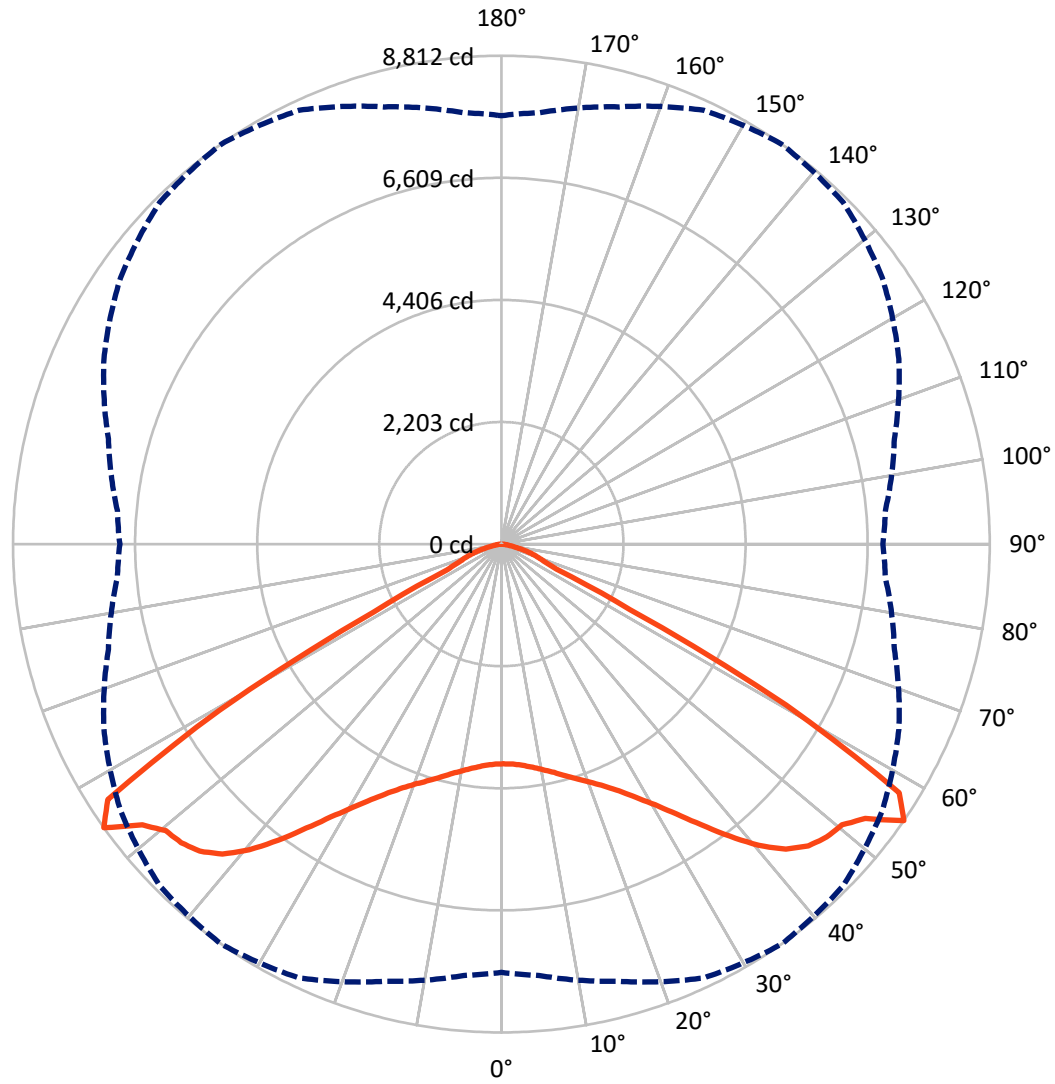
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	11019.4	0.0	11019.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11019.4	0.0	11019.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22038.7	0.0	22038.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	386.7	1.8
10°-20°	1231.2	5.6
20°-30°	2278.8	10.3
30°-40°	3811.9	17.3
40°-50°	5808.7	26.4
50°-60°	6507.0	29.5
60°-70°	1539.6	7.0
70°-80°	415.1	1.9
80°-90°	59.7	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°	22038.7	100.0
0°-180°	22038.7	100.0

**Coefficient of Utilization**



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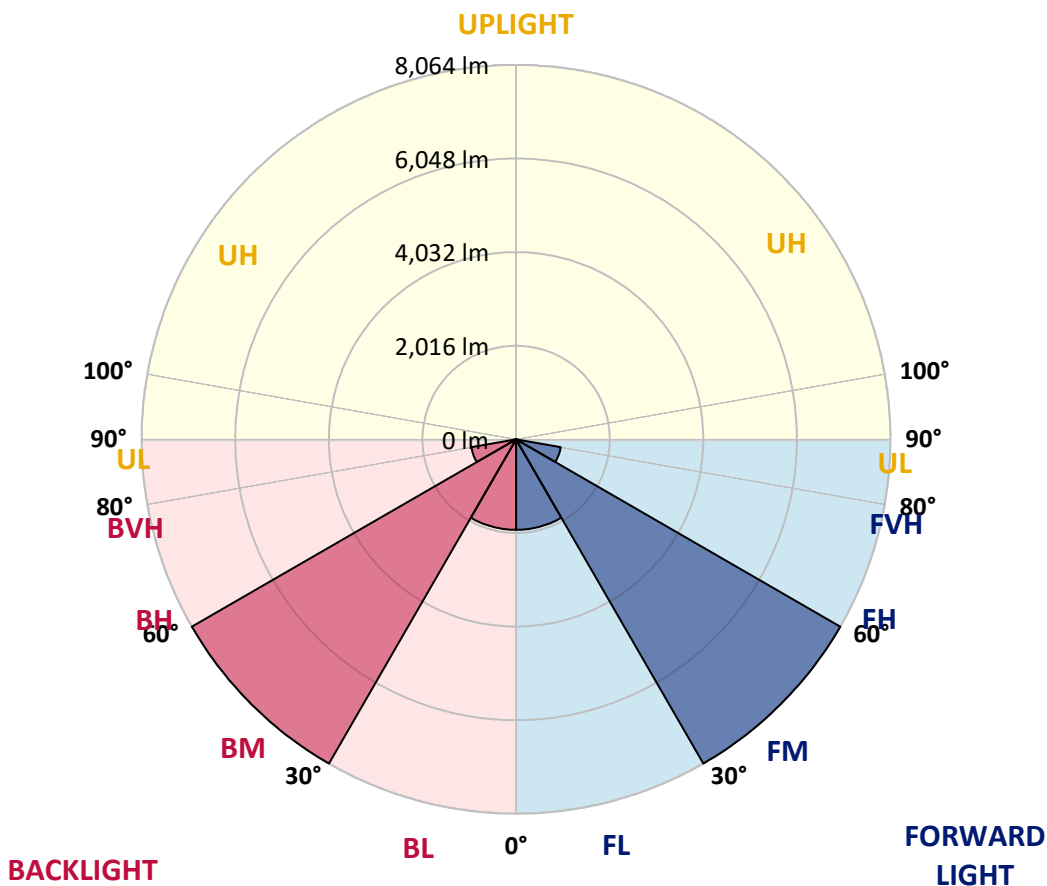
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1948.3	8.8			
FM (30°-60°)	8063.8	36.6			
FH (60°-80°)	977.4	4.4			G1/1800
FVH (80°-90°)	29.9	0.1			G1/100
BL (0°-30°)	1948.3	8.8	B3/2500		
BM (30°-60°)	8063.8	36.6	B4/8500		
BH (60°-80°)	977.4	4.4	B2/1000		G1/1800
BVH (80°-90°)	29.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 </tr			

**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°	3964.8	3964.8	3964.8	3964.8	3964.8	3964.8	3964.8	3964.8	3964.8	3964.8	3964.8
2.5°	3956.1	3956.1	3963.1	3971.8	3973.5	3991.0	3987.5	3980.5	3977.0	3970.0	3985.7
5°	3999.7	4001.4	4006.6	4011.9	4008.4	4022.3	4017.1	4008.4	4003.2	3994.4	4010.1
7.5°	4057.2	4057.2	4062.4	4069.4	4065.9	4086.8	4076.4	4064.2	4055.4	4045.0	4058.9
10°	4109.5	4113.0	4118.2	4132.1	4139.1	4161.8	4154.8	4137.4	4123.4	4111.2	4126.9
12.5°	4187.9	4191.4	4196.6	4215.8	4228.0	4250.6	4240.2	4215.8	4194.9	4177.4	4194.9
15°	4289.0	4285.5	4299.4	4323.8	4339.5	4360.4	4348.2	4306.4	4278.5	4255.9	4273.3
17.5°	4391.8	4390.1	4404.0	4435.4	4458.0	4485.9	4465.0	4416.2	4386.6	4358.7	4376.1
20°	4503.3	4508.6	4522.5	4552.1	4585.3	4621.8	4604.4	4552.1	4519.0	4487.7	4501.6
22.5°	4641.0	4642.8	4658.4	4696.8	4740.4	4775.2	4764.8	4700.3	4658.4	4625.3	4642.8
25°	4806.6	4804.8	4825.8	4871.1	4932.1	4966.9	4944.3	4872.8	4827.5	4789.2	4803.1
27.5°	4996.5	4994.8	5026.2	5085.4	5172.6	5221.4	5174.3	5085.4	5022.7	4968.7	4980.9
30°	5235.3	5230.1	5264.9	5345.1	5458.4	5540.3	5470.6	5346.8	5264.9	5207.4	5219.6
32.5°	5500.2	5507.2	5550.7	5658.8	5801.7	5908.0	5803.5	5665.8	5556.0	5472.3	5486.3
35°	5791.3	5791.3	5880.1	6014.3	6218.2	6359.4	6197.3	5998.6	5852.3	5737.2	5740.7
37.5°	6115.4	6118.9	6235.7	6420.4	6687.0	6852.6	6633.0	6387.3	6209.5	6085.8	6078.8
40°	6511.0	6521.5	6641.7	6847.4	7147.1	7298.8	7063.5	6823.0	6641.7	6495.3	6481.4
42.5°	6957.2	6960.7	7087.9	7272.6	7525.3	7615.9	7431.2	7234.3	7086.1	6953.7	6939.7
45°	7382.4	7373.7	7483.5	7621.2	7767.6	7776.3	7673.5	7593.3	7464.3	7351.0	7330.1
47.5°	7713.5	7706.6	7805.9	7880.8	7898.3	7812.9	7846.0	7858.2	7708.3	7554.9	7514.9
50°	7915.7	7929.6	8023.8	8065.6	7962.8	7823.3	7948.8	7917.4	7703.1	7502.7	7438.2
52.5°	8037.7	8058.6	8222.4	8328.7	8222.4	8090.0	8107.4	7922.7	7614.2	7349.3	7265.6
55°	7729.2	7812.9	8166.7	8637.2	8811.5	8719.1	8388.0	7912.2	7340.6	6955.4	6884.0
57.5°	5728.5	5861.0	6385.5	7405.1	8464.7	8801.0	7833.8	6633.0	5766.9	5271.9	5230.1
60°	2924.4	3072.5	3492.5	4539.9	5902.8	6376.8	5456.6	4247.2	3375.8	2974.9	2929.6
62.5°	1193.8	1218.2	1355.9	1760.2	2608.9	3009.8	2643.8	1856.1	1394.2	1284.4	1286.2
65°	939.4	944.6	937.6	962.0	1092.7	1213.0	1120.6	984.7	960.3	972.5	963.8
67.5°	819.1	820.8	815.6	815.6	820.8	815.6	826.1	831.3	834.8	848.7	840.0
70°	684.9	686.7	686.7	690.1	688.4	679.7	695.4	702.3	704.1	712.8	707.6
72.5°	529.8	535.0	538.5	540.3	538.5	533.3	542.0	554.2	552.5	561.2	552.5
75°	359.0	366.0	369.5	376.4	374.7	374.7	385.2	390.4	385.2	392.1	385.2
77.5°	203.9	209.1	219.6	226.6	233.5	238.8	245.7	249.2	247.5	251.0	247.5
80°	118.5	120.3	129.0	132.5	141.2	149.9	156.9	160.3	162.1	163.8	162.1
82.5°	68.0	69.7	73.2	76.7	83.7	90.6	97.6	102.8	102.8	104.6	102.8
85°	33.1	33.1	34.9	36.6	40.1	45.3	50.5	55.8	57.5	57.5	57.5
87.5°	5.2	5.2	7.0	7.0	8.7	10.5	13.9	17.4	19.2	19.2	19.2
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)