

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: P640935

Luminaire Tested: GWS-SA5E-830-U-5WQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640935  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-830-U-5WQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

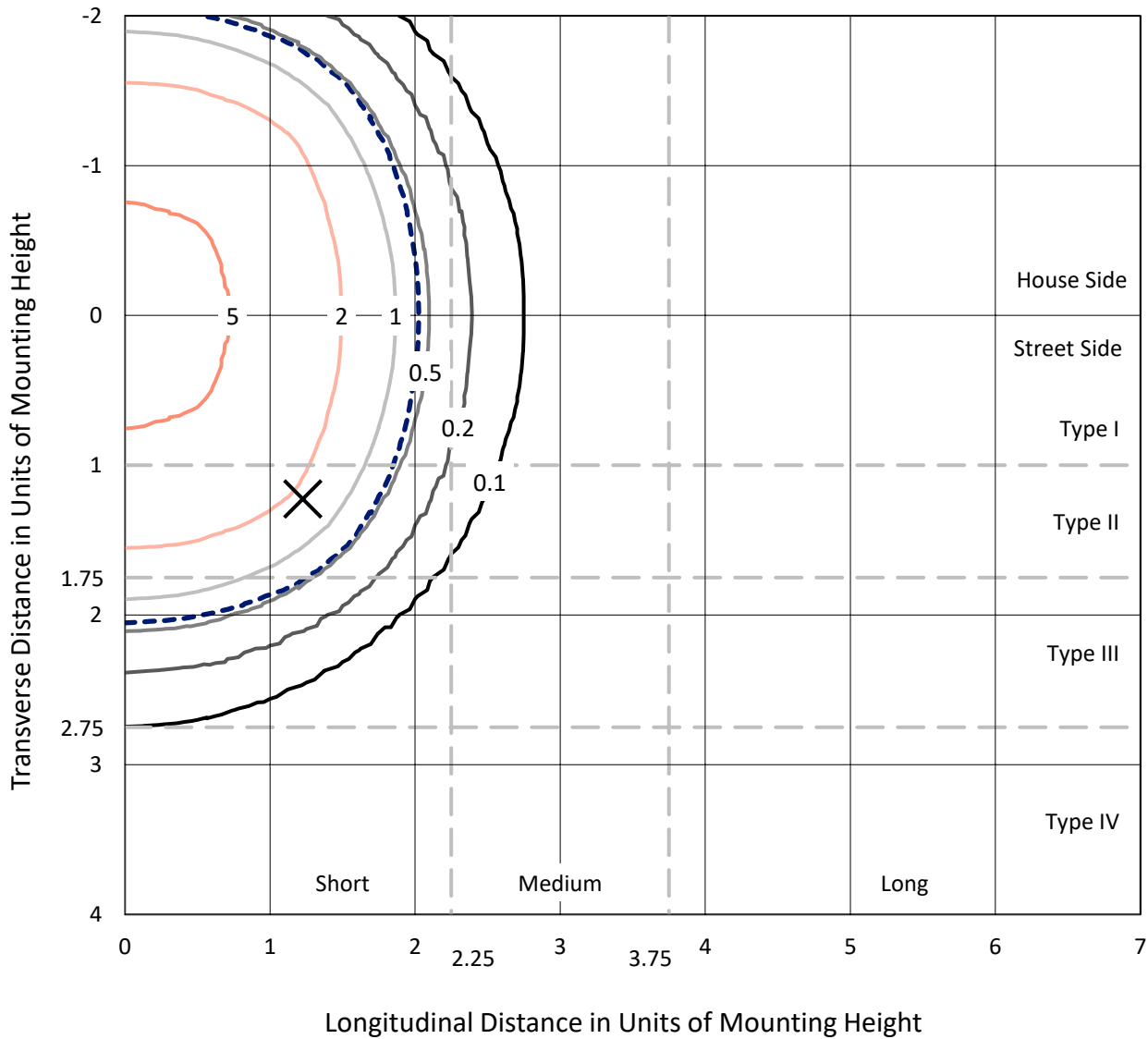
Lumens per Lamp: N/A  
Luminaire Lumens: 25185.9 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

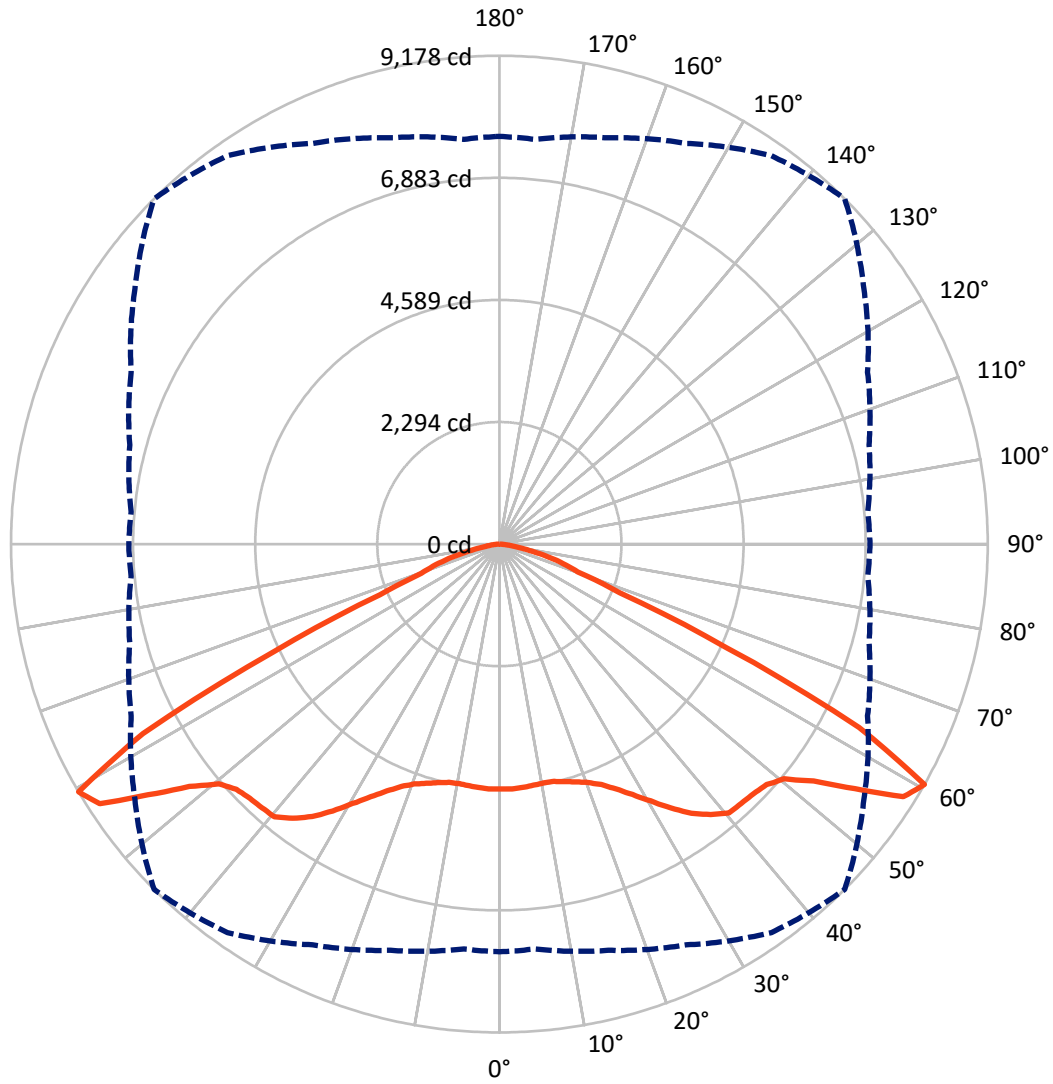
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12593.0	0.0	12593.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12593.0	0.0	12593.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25185.9	0.0	25185.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	436.5	1.7
10°-20°	1312.9	5.2
20°-30°	2322.8	9.2
30°-40°	3739.7	14.8
40°-50°	5140.2	20.4
50°-60°	6849.8	27.2
60°-70°	4269.1	17.0
70°-80°	981.7	3.9
80°-90°	133.2	0.5
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°	25185.9	100.0
0°-180°	25185.9	100.0

**Coefficient of Utilization**



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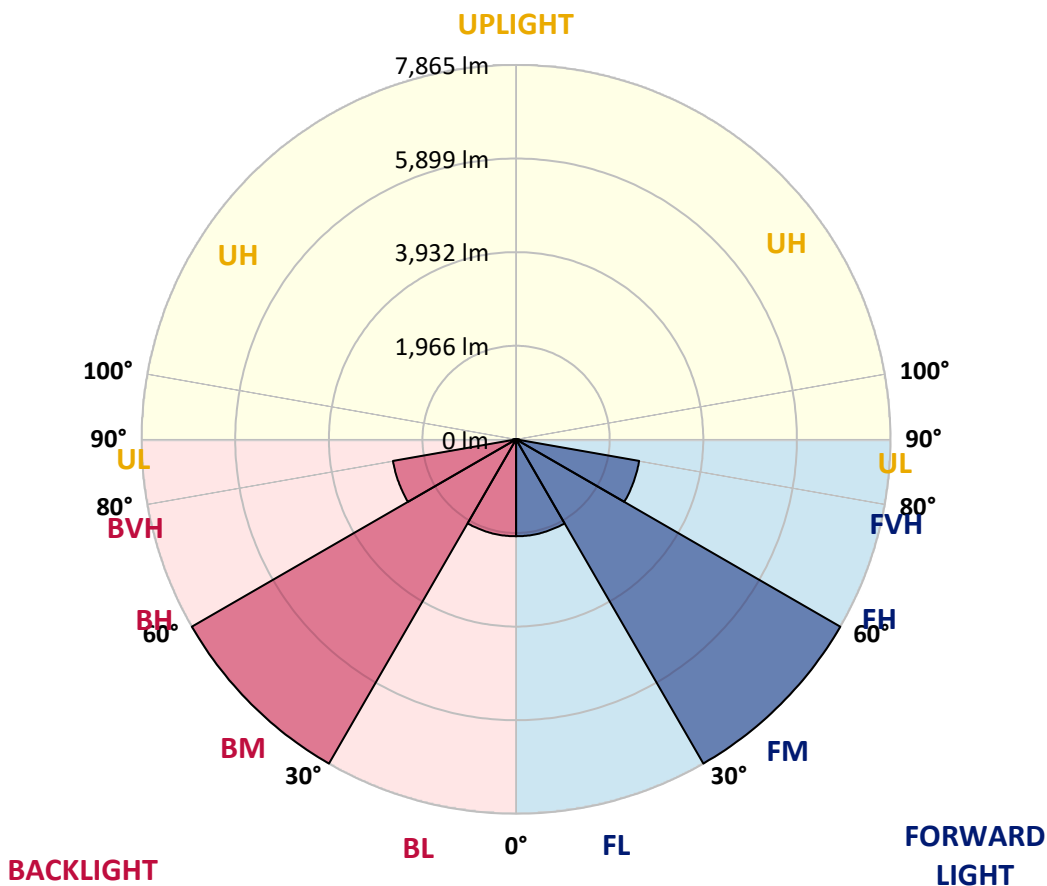
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2036.1	8.1			
FM (30°-60°)	7864.9	31.2			
FH (60°-80°)	2625.4	10.4			G2/5000
FVH (80°-90°)	66.6	0.3			G1/100
BL (0°-30°)	2036.1	8.1	B3/2500		
BM (30°-60°)	7864.9	31.2	B4/8500		
BH (60°-80°)	2625.4	10.4	B4/5000		G2/5000
BVH (80°-90°)	66.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7	4602.7
2.5°	4570.6	4574.9	4583.4	4589.9	4598.4	4607.0	4611.2	4602.7	4598.4	4581.3	4600.5
5°	4574.9	4579.2	4585.6	4585.6	4587.7	4594.1	4594.1	4583.4	4572.8	4553.5	4574.9
7.5°	4568.5	4572.8	4574.9	4572.8	4574.9	4577.0	4572.8	4559.9	4549.2	4532.1	4549.2
10°	4557.8	4562.1	4566.3	4562.1	4557.8	4564.2	4564.2	4555.7	4549.2	4532.1	4551.4
12.5°	4581.3	4587.7	4589.9	4579.2	4574.9	4577.0	4577.0	4568.5	4568.5	4553.5	4574.9
15°	4636.9	4641.2	4634.8	4621.9	4624.1	4630.5	4615.5	4594.1	4589.9	4583.4	4600.5
17.5°	4679.6	4683.9	4677.5	4669.0	4683.9	4698.9	4671.1	4630.5	4617.7	4613.4	4632.6
20°	4726.7	4733.1	4724.5	4735.2	4765.2	4782.3	4748.1	4692.5	4666.8	4660.4	4683.9
22.5°	4803.6	4812.2	4812.2	4835.7	4880.6	4908.4	4865.6	4790.8	4752.3	4741.6	4765.2
25°	4925.5	4931.9	4938.3	4985.4	5058.0	5096.5	5028.1	4925.5	4872.1	4854.9	4867.8
27.5°	5094.4	5105.1	5115.8	5184.2	5274.0	5329.5	5231.2	5102.9	5036.7	5002.5	5028.1
30°	5295.3	5310.3	5336.0	5412.9	5539.0	5601.0	5474.9	5318.9	5244.0	5207.7	5241.9
32.5°	5569.0	5571.1	5590.4	5675.9	5842.6	5913.2	5755.0	5581.8	5504.8	5462.1	5481.3
35°	5893.9	5896.1	5866.1	5953.8	6133.4	6212.5	6026.5	5851.2	5787.0	5774.2	5823.4
37.5°	6227.4	6208.2	6178.2	6216.7	6398.4	6449.7	6253.1	6103.4	6075.6	6099.1	6171.8
40°	6464.7	6432.6	6372.8	6400.6	6584.4	6644.3	6434.8	6293.7	6285.1	6342.9	6430.5
42.5°	6618.6	6584.4	6513.9	6513.9	6640.0	6665.7	6503.2	6428.4	6447.6	6513.9	6597.3
45°	6693.5	6674.2	6633.6	6612.2	6682.8	6693.5	6569.5	6539.5	6575.9	6607.9	6672.1
47.5°	6751.2	6751.2	6738.4	6717.0	6749.0	6755.5	6663.5	6655.0	6702.0	6702.0	6744.8
50°	6853.8	6864.5	6881.6	6877.3	6911.5	6932.9	6864.5	6851.7	6870.9	6808.9	6830.3
52.5°	7123.2	7150.9	7200.1	7238.6	7326.2	7392.5	7270.7	7168.0	7067.6	6930.8	6935.0
55°	7606.3	7619.1	7715.3	7828.6	7976.1	8110.8	7860.7	7542.2	7324.1	7163.8	7165.9
57.5°	8014.6	8033.9	8175.0	8412.2	8743.6	8953.1	8399.4	7867.1	7559.3	7362.6	7369.0
60°	7661.9	7636.2	7903.5	8309.6	8910.4	9177.6	8360.9	7634.1	7191.6	6947.9	6965.0
62.5°	5928.1	5879.0	6176.1	6601.5	7322.0	7589.2	6836.7	6139.8	5720.8	5530.5	5502.7
65°	3608.6	3563.7	3777.5	4038.3	4525.7	4694.6	4350.4	3980.6	3615.0	3499.6	3467.5
67.5°	1964.6	1958.2	2015.9	2144.2	2358.0	2437.1	2370.8	2195.5	2101.5	2020.2	2020.2
70°	1558.5	1545.6	1534.9	1537.1	1556.3	1567.0	1569.1	1560.6	1571.3	1573.4	1564.9
72.5°	1291.2	1287.0	1265.6	1267.7	1259.2	1254.9	1269.9	1278.4	1295.5	1297.6	1297.6
75°	936.4	925.7	936.4	938.5	929.9	929.9	940.6	938.5	947.0	951.3	927.8
77.5°	532.3	532.3	547.3	564.4	577.2	577.2	587.9	587.9	598.6	596.4	592.2
80°	292.9	292.9	301.4	312.1	324.9	337.8	348.5	350.6	357.0	354.9	348.5
82.5°	166.7	168.9	173.2	179.6	192.4	203.1	213.8	215.9	222.3	222.3	215.9
85°	79.1	77.0	79.1	83.4	89.8	98.3	109.0	115.4	119.7	119.7	115.4
87.5°	15.0	17.1	15.0	17.1	19.2	25.7	29.9	34.2	40.6	42.8	38.5
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)