

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: P640928

Luminaire Tested: GWS-SA5E-830-U-5MQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-830-U-5MQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18220.8 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

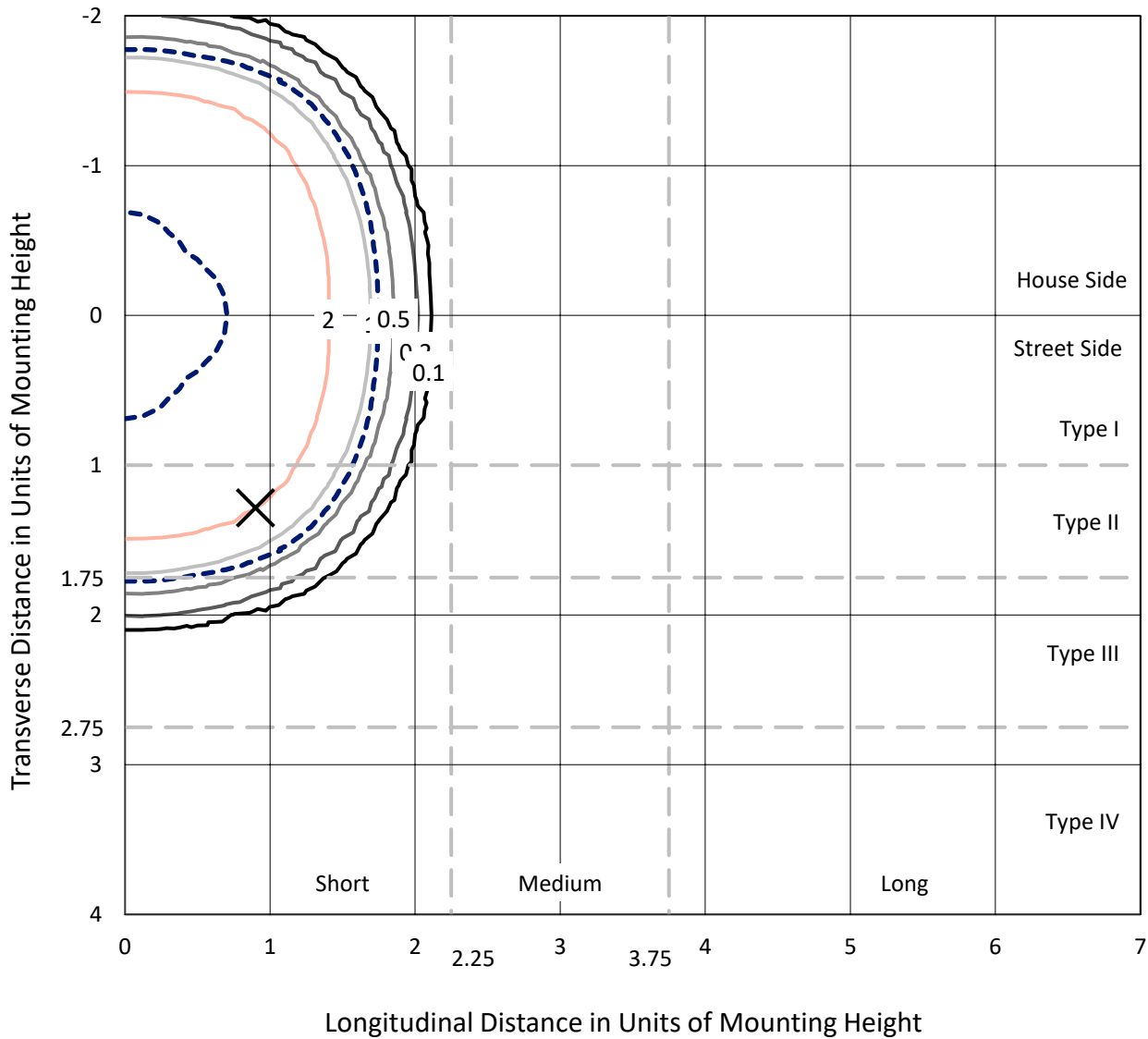
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

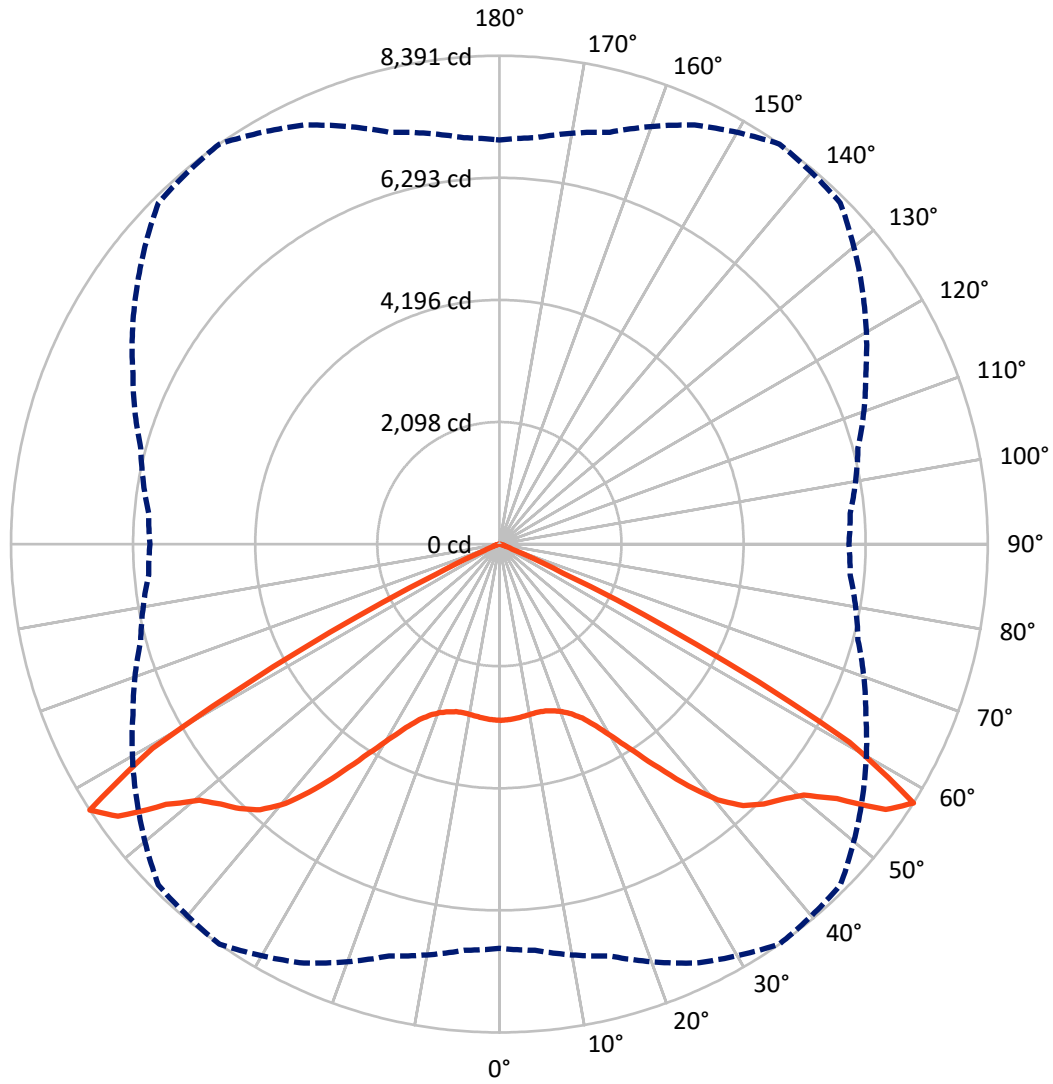
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9110.4	0.0	9110.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9110.4	0.0	9110.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	18220.8	0.0	18220.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.4	1.6
10°-20°	839.6	4.6
20°-30°	1517.6	8.3
30°-40°	2831.2	15.5
40°-50°	4749.3	26.1
50°-60°	6271.9	34.4
60°-70°	1665.7	9.1
70°-80°	59.2	0.3
80°-90°	1.0	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°	18220.8	100.0
0°-180°	18220.8	100.0

Coefficient of Utilization



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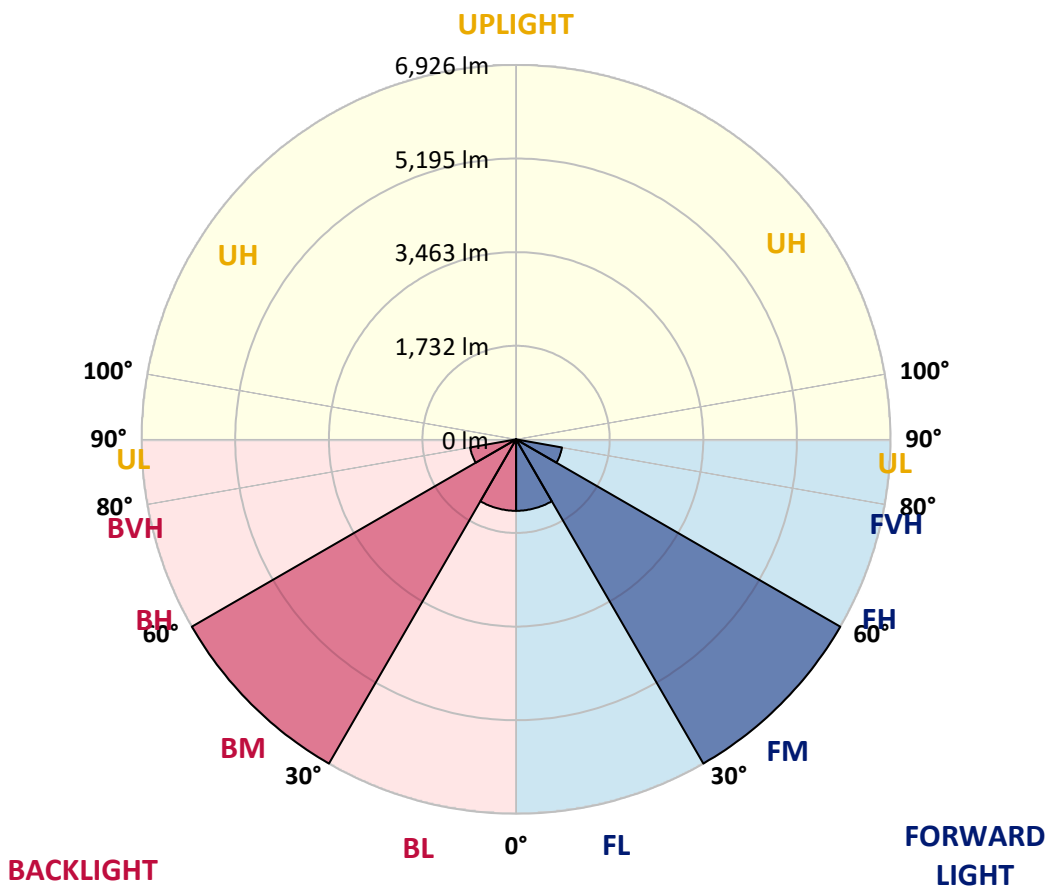
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1321.3	7.3			
FM (30°-60°)	6926.2	38.0			
FH (60°-80°)	862.4	4.7			G1/1800
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	1321.3	7.3	B3/2500		
BM (30°-60°)	6926.2	38.0	B4/8500		
BH (60°-80°)	862.4	4.7	B2/1000		G1/1800
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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°	3029.4	3029.4	3029.4	3029.4	3029.4	3029.4	3029.4	3029.4	3029.4	3029.4	3029.4
2.5°	3008.0	3005.9	3014.4	3020.8	3020.8	3035.8	3031.5	3027.2	3023.0	3016.5	3031.5
5°	3003.7	3001.6	3008.0	3012.3	3008.0	3020.8	3012.3	3003.7	2999.4	2990.9	3008.0
7.5°	2984.5	2986.6	2990.9	2995.2	2988.8	2999.4	2988.8	2975.9	2965.2	2956.7	2971.6
10°	2954.5	2956.7	2961.0	2969.5	2971.6	2986.6	2971.6	2948.1	2933.2	2920.3	2935.3
12.5°	2939.6	2941.7	2948.1	2958.8	2961.0	2980.2	2961.0	2926.8	2905.4	2890.4	2905.4
15°	2943.9	2948.1	2956.7	2969.5	2973.8	2993.0	2967.4	2922.5	2892.5	2873.3	2886.1
17.5°	2958.8	2963.1	2975.9	2997.3	3012.3	3031.5	2999.4	2941.7	2901.1	2873.3	2886.1
20°	2978.1	2984.5	3005.9	3040.1	3072.1	3106.3	3065.7	2986.6	2933.2	2899.0	2909.7
22.5°	3031.5	3037.9	3067.9	3112.7	3166.2	3209.0	3159.8	3059.3	2986.6	2941.7	2952.4
25°	3140.5	3147.0	3185.4	3243.2	3311.6	3367.2	3305.2	3179.0	3085.0	3033.6	3037.9
27.5°	3311.6	3318.0	3362.9	3444.1	3536.0	3615.2	3525.4	3377.8	3271.0	3211.1	3211.1
30°	3527.5	3536.0	3595.9	3704.9	3848.2	3952.9	3831.1	3651.5	3514.7	3433.4	3435.6
32.5°	3805.4	3796.9	3882.4	4032.0	4235.1	4374.1	4194.5	3976.5	3807.6	3694.3	3704.9
35°	4162.4	4160.3	4256.5	4459.6	4724.7	4891.5	4677.7	4395.5	4192.4	4076.9	4079.1
37.5°	4622.1	4620.0	4731.1	4951.3	5269.9	5408.8	5169.4	4882.9	4664.8	4553.7	4566.5
40°	5160.8	5148.0	5246.4	5458.0	5776.5	5866.3	5605.5	5374.6	5165.1	5094.6	5128.8
42.5°	5673.9	5646.1	5703.9	5896.3	6142.1	6154.9	5958.3	5800.1	5656.8	5601.2	5622.6
45°	6086.5	6065.2	6118.6	6229.8	6370.9	6306.7	6212.7	6163.5	6048.1	5988.2	6007.4
47.5°	6394.4	6394.4	6458.5	6526.9	6548.3	6430.7	6445.7	6445.7	6330.3	6236.2	6212.7
50°	6659.5	6678.7	6774.9	6845.5	6774.9	6625.3	6710.8	6693.7	6458.5	6270.4	6221.2
52.5°	7082.8	7102.0	7249.5	7345.7	7266.6	7119.1	7129.8	6916.0	6569.7	6347.4	6270.4
55°	7531.7	7578.8	7792.6	8049.1	8051.2	7899.5	7617.3	7238.9	6817.7	6576.1	6497.0
57.5°	6943.8	7008.0	7326.5	7944.4	8391.2	8286.4	7613.0	6948.1	6379.4	6050.2	6005.3
60°	4778.2	4889.3	5207.9	6052.3	6913.9	6954.5	6159.2	5413.1	4761.1	4354.9	4363.4
62.5°	2018.2	2131.5	2311.0	3005.9	3796.9	3846.0	3461.2	2926.8	2394.4	2101.5	2146.4
65°	474.6	506.7	560.1	831.6	1205.8	1261.3	1163.0	906.5	669.2	566.5	577.2
67.5°	207.4	211.6	201.0	213.8	265.1	271.5	263.0	230.9	218.1	222.3	222.3
70°	145.4	147.5	139.0	132.5	126.1	117.6	121.9	134.7	145.4	153.9	151.8
72.5°	89.8	91.9	94.1	94.1	87.7	79.1	83.4	91.9	94.1	96.2	94.1
75°	44.9	47.0	51.3	53.4	51.3	49.2	49.2	51.3	51.3	49.2	49.2
77.5°	8.6	10.7	15.0	17.1	17.1	17.1	17.1	17.1	19.2	17.1	17.1
80°	2.1	2.1	4.3	2.1	2.1	2.1	2.1	2.1	2.1	4.3	4.3
82.5°	2.1	2.1	2.1	2.1	0.0	0.0	2.1	2.1	2.1	2.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1
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)