

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: P639450

Luminaire Tested: GWS-SA5B-830-U-5WQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639450
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-SA5B-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: 11912.3 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

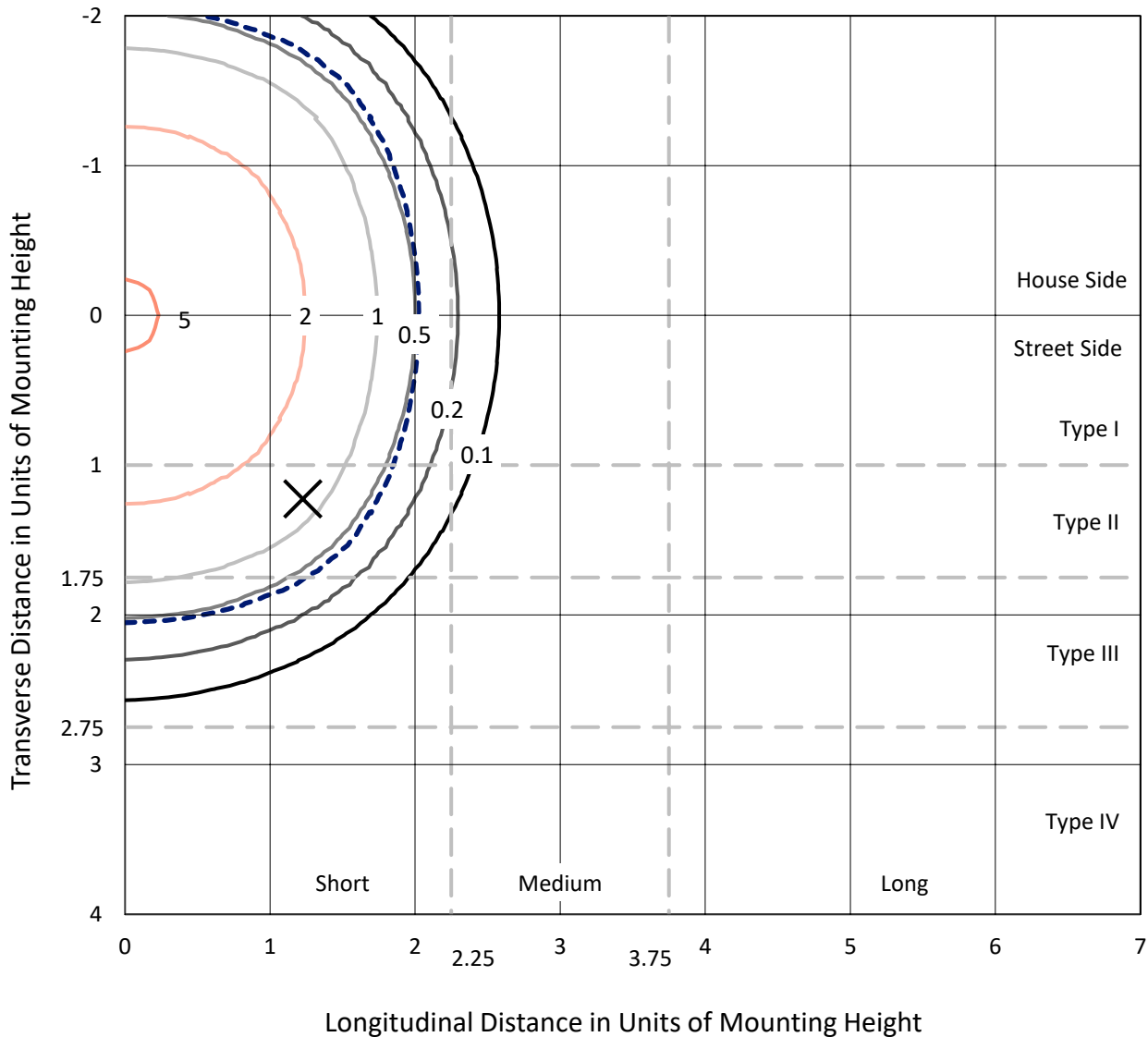
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

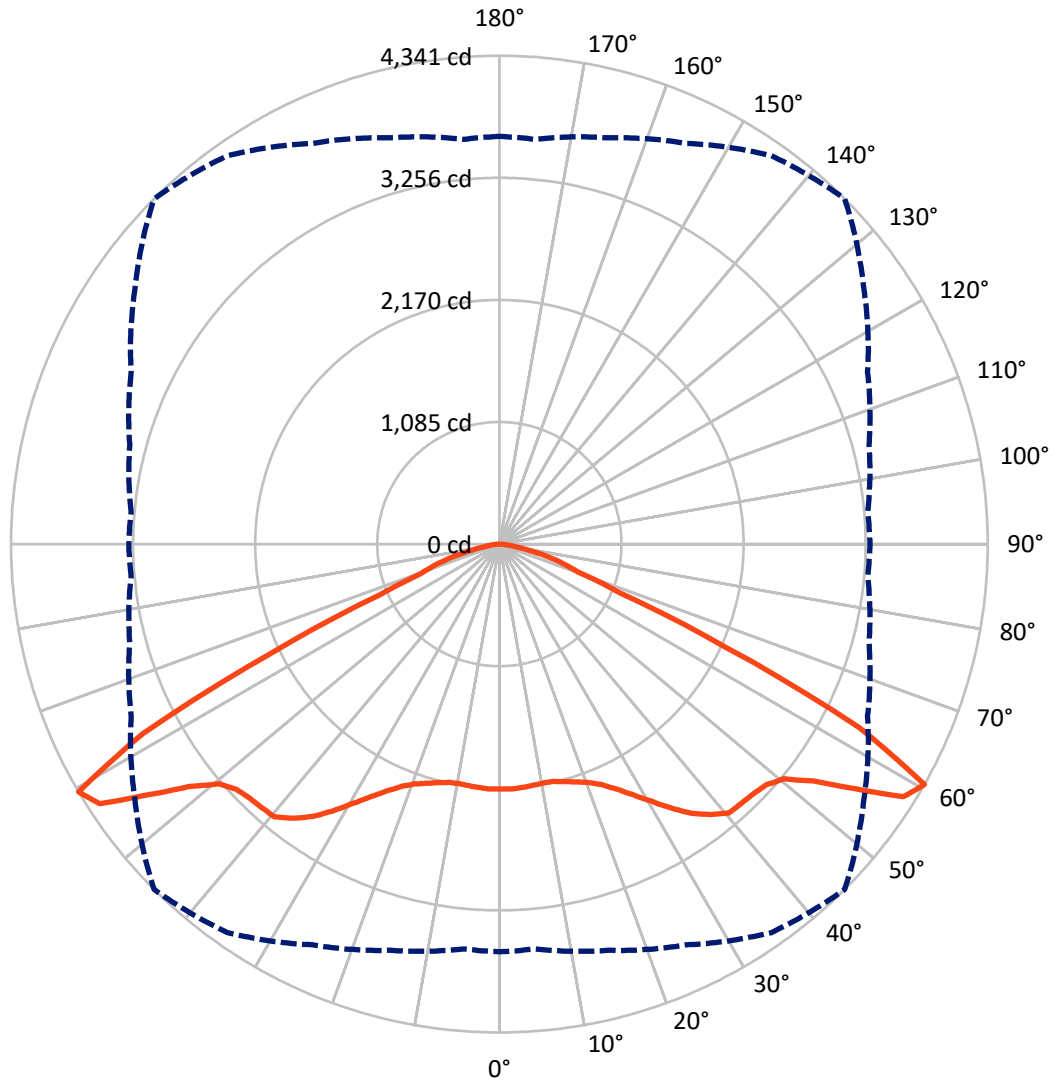
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 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
House Side	Lumens	5956.2	0.0	5956.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5956.2	0.0	5956.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	11912.3	0.0	11912.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.5	1.7
10°-20°	621.0	5.2
20°-30°	1098.6	9.2
30°-40°	1768.8	14.8
40°-50°	2431.2	20.4
50°-60°	3239.8	27.2
60°-70°	2019.2	17.0
70°-80°	464.3	3.9
80°-90°	63.0	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°	11912.3	100.0
0°-180°	11912.3	100.0

Coefficient of Utilization



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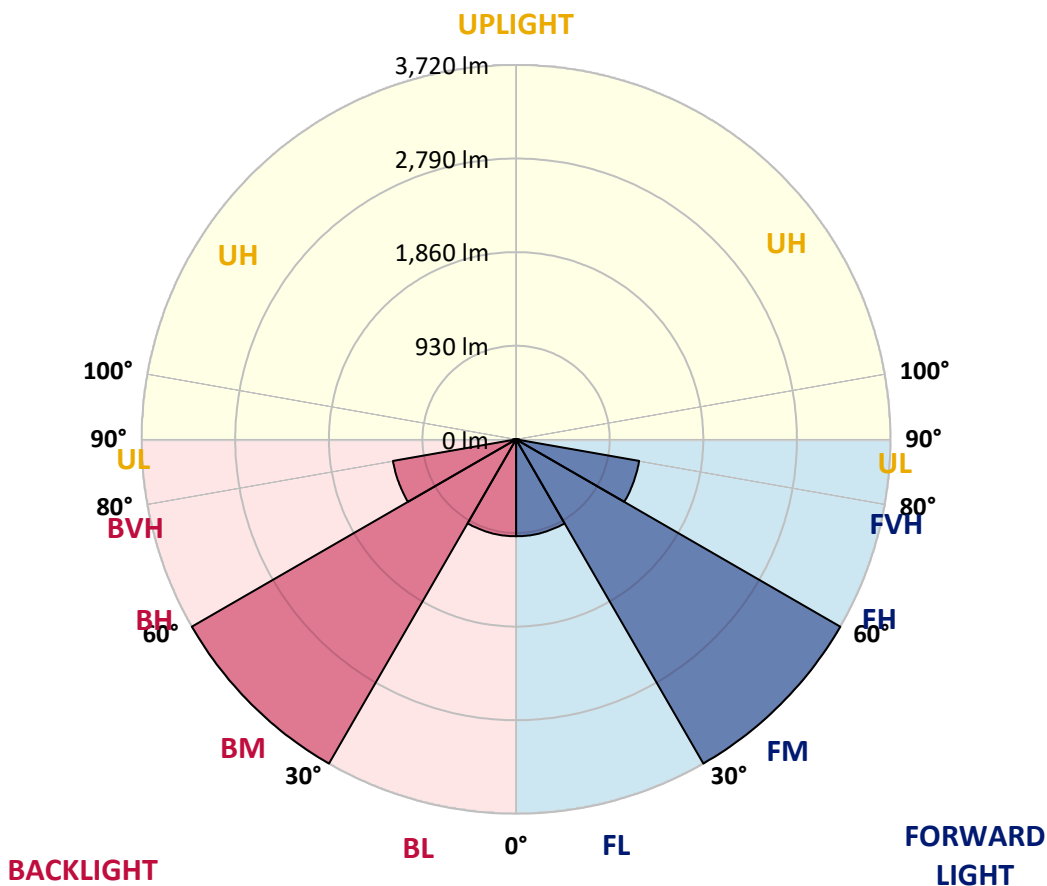
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	963.0	8.1			
FM (30°-60°)	3719.9	31.2			
FH (60°-80°)	1241.8	10.4			G1/1800
FVH (80°-90°)	31.5	0.3			G1/100
BL (0°-30°)	963.0	8.1	B2/1000		
BM (30°-60°)	3719.9	31.2	B3/5000		
BH (60°-80°)	1241.8	10.4	B3/2500		G1/1800
BVH (80°-90°)	31.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2177.0	2177.0	2177.0	2177.0	2177.0	2177.0	2177.0	2177.0	2177.0	2177.0	2177.0
2.5°	2161.8	2163.8	2167.9	2170.9	2174.9	2179.0	2181.0	2177.0	2174.9	2166.8	2175.9
5°	2163.8	2165.8	2168.9	2168.9	2169.9	2172.9	2172.9	2167.9	2162.8	2153.7	2163.8
7.5°	2160.8	2162.8	2163.8	2162.8	2163.8	2164.8	2162.8	2156.7	2151.7	2143.6	2151.7
10°	2155.7	2157.7	2159.8	2157.7	2155.7	2158.8	2158.8	2154.7	2151.7	2143.6	2152.7
12.5°	2166.8	2169.9	2170.9	2165.8	2163.8	2164.8	2164.8	2160.8	2160.8	2153.7	2163.8
15°	2193.1	2195.2	2192.1	2186.1	2187.1	2190.1	2183.0	2172.9	2170.9	2167.9	2175.9
17.5°	2213.4	2215.4	2212.3	2208.3	2215.4	2222.5	2209.3	2190.1	2184.0	2182.0	2191.1
20°	2235.6	2238.6	2234.6	2239.6	2253.8	2261.9	2245.7	2219.4	2207.3	2204.3	2215.4
22.5°	2272.0	2276.0	2276.0	2287.2	2308.4	2321.5	2301.3	2265.9	2247.7	2242.7	2253.8
25°	2329.6	2332.7	2335.7	2357.9	2392.3	2410.5	2378.2	2329.6	2304.4	2296.3	2302.3
27.5°	2409.5	2414.6	2419.6	2452.0	2494.4	2520.7	2474.2	2413.6	2382.2	2366.0	2378.2
30°	2504.6	2511.6	2523.8	2560.2	2619.8	2649.2	2589.5	2515.7	2480.3	2463.1	2479.3
32.5°	2634.0	2635.0	2644.1	2684.5	2763.4	2796.8	2722.0	2640.1	2603.7	2583.4	2592.5
35°	2787.7	2788.7	2774.5	2816.0	2900.9	2938.3	2850.4	2767.5	2737.1	2731.1	2754.3
37.5°	2945.4	2936.3	2922.2	2940.4	3026.3	3050.6	2957.5	2886.8	2873.6	2884.7	2919.1
40°	3057.6	3042.5	3014.2	3027.3	3114.3	3142.6	3043.5	2976.8	2972.7	3000.0	3041.5
42.5°	3130.4	3114.3	3080.9	3080.9	3140.6	3152.7	3075.8	3040.5	3049.6	3080.9	3120.3
45°	3165.8	3156.7	3137.5	3127.4	3160.8	3165.8	3107.2	3093.0	3110.2	3125.4	3155.7
47.5°	3193.1	3193.1	3187.1	3177.0	3192.1	3195.2	3151.7	3147.6	3169.9	3169.9	3190.1
50°	3241.7	3246.7	3254.8	3252.8	3269.0	3279.1	3246.7	3240.7	3249.8	3220.4	3230.5
52.5°	3369.1	3382.2	3405.5	3423.7	3465.1	3496.5	3438.8	3390.3	3342.8	3278.1	3280.1
55°	3597.6	3603.7	3649.2	3702.7	3772.5	3836.2	3717.9	3567.3	3464.1	3388.3	3389.3
57.5°	3790.7	3799.8	3866.5	3978.8	4135.5	4234.6	3972.7	3720.9	3575.3	3482.3	3485.4
60°	3623.9	3611.7	3738.1	3930.2	4214.4	4340.8	3954.5	3610.7	3401.4	3286.2	3294.3
62.5°	2803.9	2780.6	2921.1	3122.4	3463.1	3589.5	3233.6	2904.0	2705.8	2615.8	2602.6
65°	1706.8	1685.5	1786.7	1910.0	2140.6	2220.4	2057.6	1882.7	1709.8	1655.2	1640.0
67.5°	929.2	926.2	953.5	1014.2	1115.3	1152.7	1121.3	1038.4	993.9	955.5	955.5
70°	737.1	731.0	726.0	727.0	736.1	741.2	742.2	738.1	743.2	744.2	740.1
72.5°	610.7	608.7	598.6	599.6	595.6	593.5	600.6	604.7	612.7	613.8	613.8
75°	442.9	437.8	442.9	443.9	439.8	439.8	444.9	443.9	447.9	450.0	438.8
77.5°	251.8	251.8	258.8	266.9	273.0	273.0	278.1	278.1	283.1	282.1	280.1
80°	138.5	138.5	142.6	147.6	153.7	159.8	164.8	165.8	168.9	167.8	164.8
82.5°	78.9	79.9	81.9	84.9	91.0	96.1	101.1	102.1	105.2	105.2	102.1
85°	37.4	36.4	37.4	39.4	42.5	46.5	51.6	54.6	56.6	56.6	54.6
87.5°	7.1	8.1	7.1	8.1	9.1	12.1	14.2	16.2	19.2	20.2	18.2
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)