

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: P640936

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-1)
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
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30233.4 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

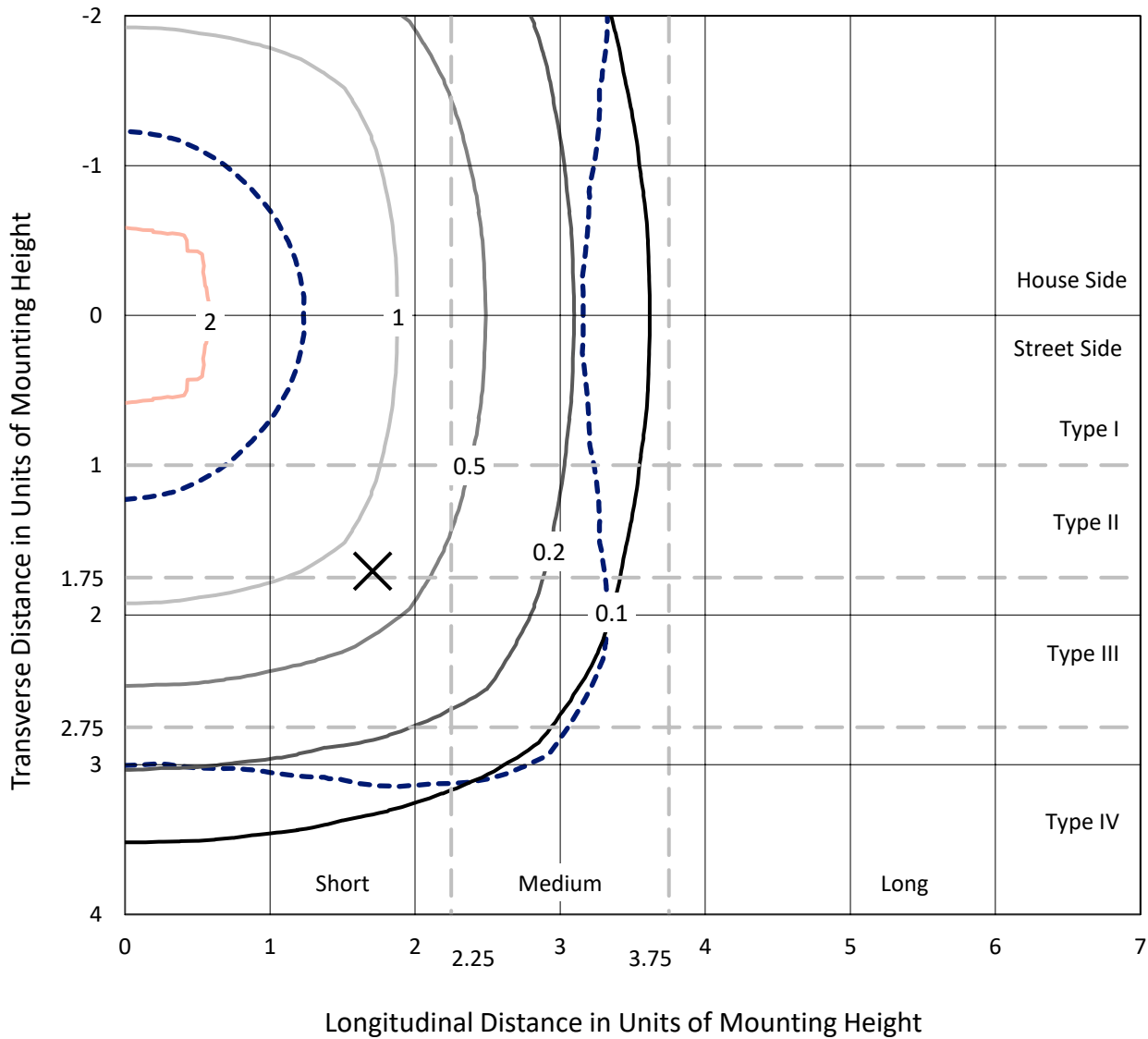
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

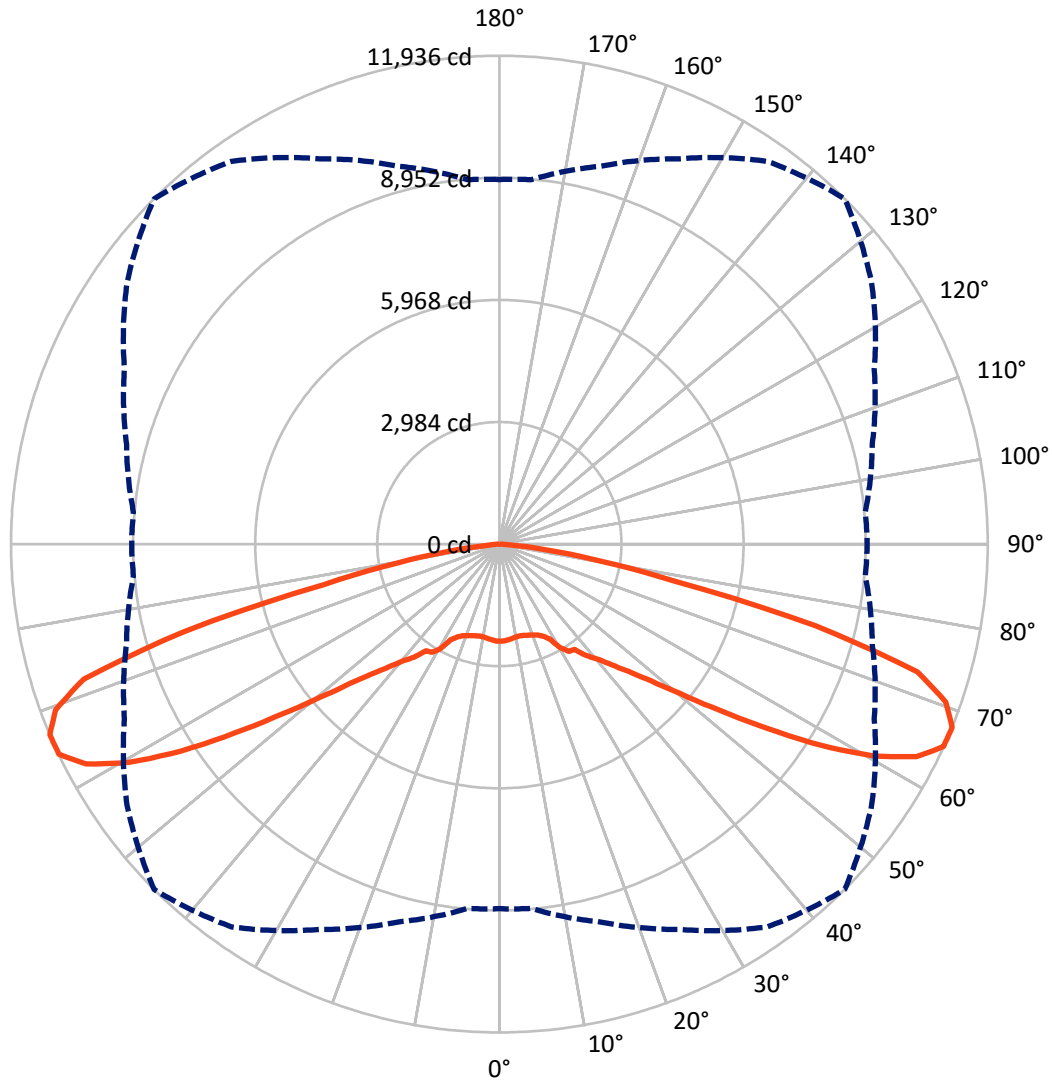
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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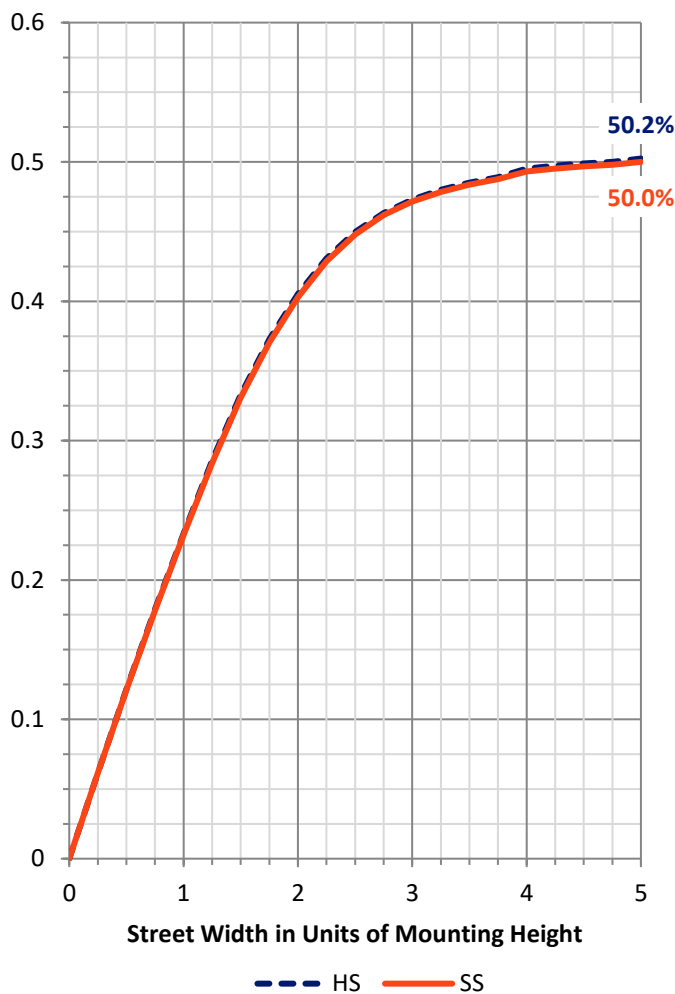
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15116.7	0.0	15116.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15116.7	0.0	15116.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	30233.4	0.0	30233.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.6	0.7
10°-20°	660.6	2.2
20°-30°	1185.0	3.9
30°-40°	2001.9	6.6
40°-50°	3517.3	11.6
50°-60°	6785.0	22.4
60°-70°	9844.1	32.6
70°-80°	5632.4	18.6
80°-90°	384.4	1.3
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°	30233.4	100.0
0°-180°	30233.4	100.0

Coefficient of Utilization



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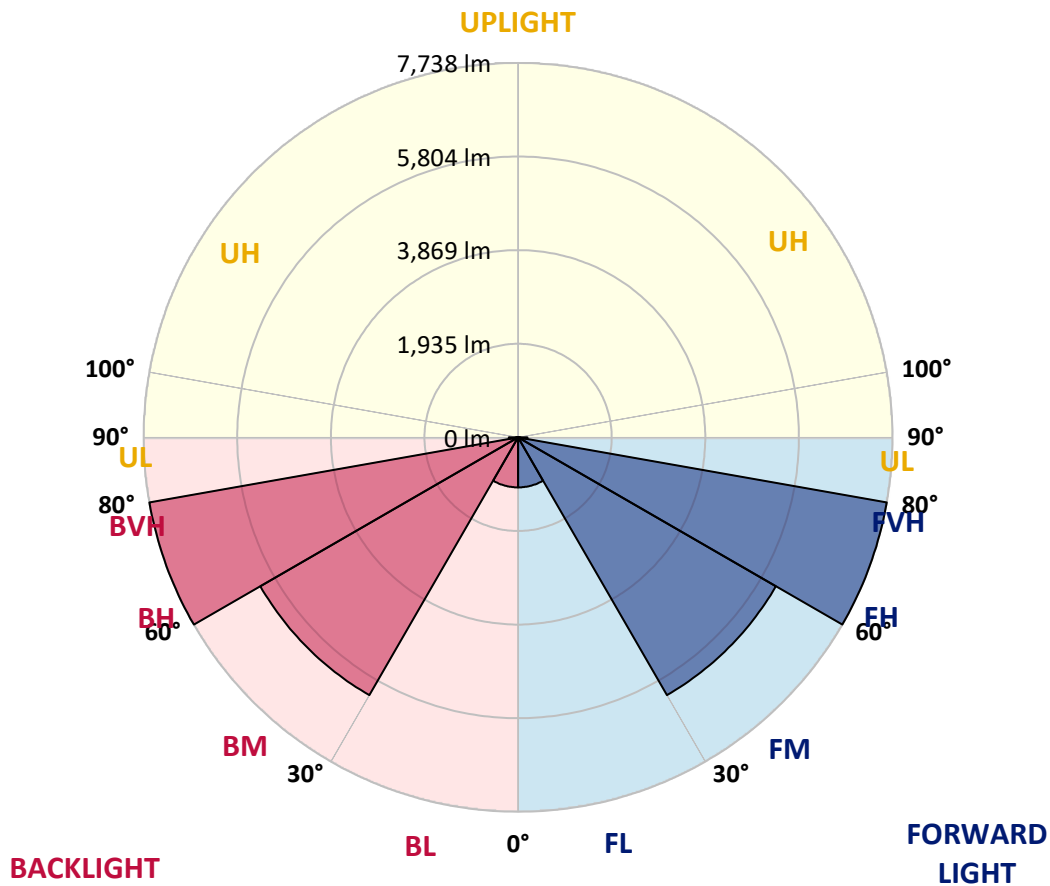
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1034.1	3.4			
FM (30°-60°)	6152.1	20.3			
FH (60°-80°)	7738.3	25.6			G4/12000
FVH (80°-90°)	192.2	0.6			G2/225
BL (0°-30°)	1034.1	3.4	B3/2500		
BM (30°-60°)	6152.1	20.3	B4/8500		
BH (60°-80°)	7738.3	25.6	B5		G4/12000
BVH (80°-90°)	192.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9
2.5°	2351.7	2353.8	2358.1	2358.1	2362.4	2368.8	2370.9	2366.6	2368.8	2358.1	2368.8
5°	2345.3	2347.4	2349.5	2345.3	2345.3	2347.4	2347.4	2343.1	2345.3	2334.6	2345.3
7.5°	2330.3	2332.4	2332.4	2326.0	2319.6	2323.9	2323.9	2319.6	2321.7	2311.1	2323.9
10°	2317.5	2317.5	2315.3	2302.5	2296.1	2302.5	2304.6	2306.8	2315.3	2306.8	2321.7
12.5°	2326.0	2326.0	2319.6	2302.5	2291.8	2296.1	2300.4	2304.6	2319.6	2317.5	2334.6
15°	2349.5	2351.7	2334.6	2315.3	2308.9	2315.3	2311.1	2308.9	2328.2	2334.6	2353.8
17.5°	2368.8	2368.8	2347.4	2328.2	2330.3	2341.0	2332.4	2321.7	2341.0	2353.8	2375.2
20°	2385.9	2383.7	2360.2	2347.4	2356.0	2370.9	2364.5	2349.5	2362.4	2377.3	2396.6
22.5°	2428.6	2426.5	2400.8	2394.4	2403.0	2417.9	2411.5	2398.7	2413.7	2435.1	2458.6
25°	2550.5	2546.2	2507.7	2486.4	2482.1	2492.8	2490.6	2486.4	2509.9	2535.5	2563.3
27.5°	2713.0	2710.8	2683.0	2661.7	2633.9	2625.3	2631.7	2651.0	2685.2	2704.4	2727.9
30°	2794.2	2794.2	2789.9	2824.1	2884.0	2941.7	2896.8	2824.1	2794.2	2785.7	2809.2
32.5°	2901.1	2911.8	2896.8	2935.3	3035.8	3121.3	3035.8	2918.2	2896.8	2896.8	2922.5
35°	3147.0	3151.2	3127.7	3121.3	3153.4	3164.1	3123.5	3080.7	3104.2	3108.5	3140.6
37.5°	3343.7	3343.7	3333.0	3350.1	3416.3	3457.0	3390.7	3313.7	3320.1	3324.4	3365.0
40°	3647.2	3655.8	3630.1	3628.0	3653.6	3690.0	3619.4	3570.3	3604.5	3615.2	3677.2
42.5°	4025.6	4025.6	3987.2	3976.5	3993.6	4032.1	3965.8	3933.7	3978.6	3987.2	4023.5
45°	4476.7	4487.4	4436.1	4416.9	4425.4	4438.3	4391.2	4376.3	4419.0	4438.3	4502.4
47.5°	5026.2	5036.9	4992.0	4989.8	4981.3	4989.8	4944.9	4936.4	4970.6	4955.6	5024.0
50°	5703.9	5723.1	5684.6	5738.1	5731.7	5757.3	5695.3	5650.4	5650.4	5609.8	5648.3
52.5°	6462.8	6501.3	6520.6	6610.3	6678.8	6742.9	6640.3	6569.7	6467.1	6383.7	6488.5
55°	7290.2	7279.5	7401.4	7598.0	7799.0	7950.8	7749.8	7527.5	7360.7	7187.6	7228.2
57.5°	8014.9	8051.3	8211.6	8570.8	8968.4	9289.1	8927.8	8500.2	8121.8	7873.8	7908.0
60°	8617.8	8647.7	8861.5	9378.9	10073.7	10516.3	9943.3	9237.8	8688.4	8346.3	8382.7
62.5°	9173.7	9201.5	9417.4	9988.2	10864.7	11442.0	10702.3	9738.1	9126.6	8782.4	8803.8
65°	9494.4	9511.5	9806.5	10407.2	11330.8	11927.3	11093.5	10099.4	9498.6	9148.0	9160.8
67.5°	8910.7	8938.5	9560.6	10390.1	11420.6	11935.8	11110.6	10110.1	9434.5	8977.0	8987.7
70°	7029.4	7005.9	7747.7	9173.7	10905.4	11576.7	10616.7	9351.1	8307.8	7668.6	7657.9
72.5°	5359.7	5366.1	5778.7	6755.7	8891.5	10683.0	9368.2	7529.6	6405.1	5919.8	5900.6
75°	3886.7	3946.5	4282.2	4998.4	6219.1	7985.0	7052.9	5579.9	4827.3	4536.6	4493.8
77.5°	1750.9	1827.9	2296.1	3138.4	4158.2	4412.6	4429.7	3788.3	2858.4	2375.2	2300.4
80°	511.0	547.3	703.4	1203.6	1936.9	2503.5	1988.2	1671.8	1041.2	816.7	778.2
82.5°	215.9	245.9	301.4	333.5	562.3	1160.9	722.6	459.6	427.6	346.3	316.4
85°	91.9	98.3	126.1	134.7	181.7	248.0	228.8	207.4	198.8	153.9	141.1
87.5°	38.5	38.5	38.5	34.2	32.1	34.2	47.0	59.9	79.1	62.0	57.7
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)