

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: P638461

Luminaire Tested: GWS-SA4E-830-U-5WQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638461
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-SA4E-830-U-5WQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24645.8 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

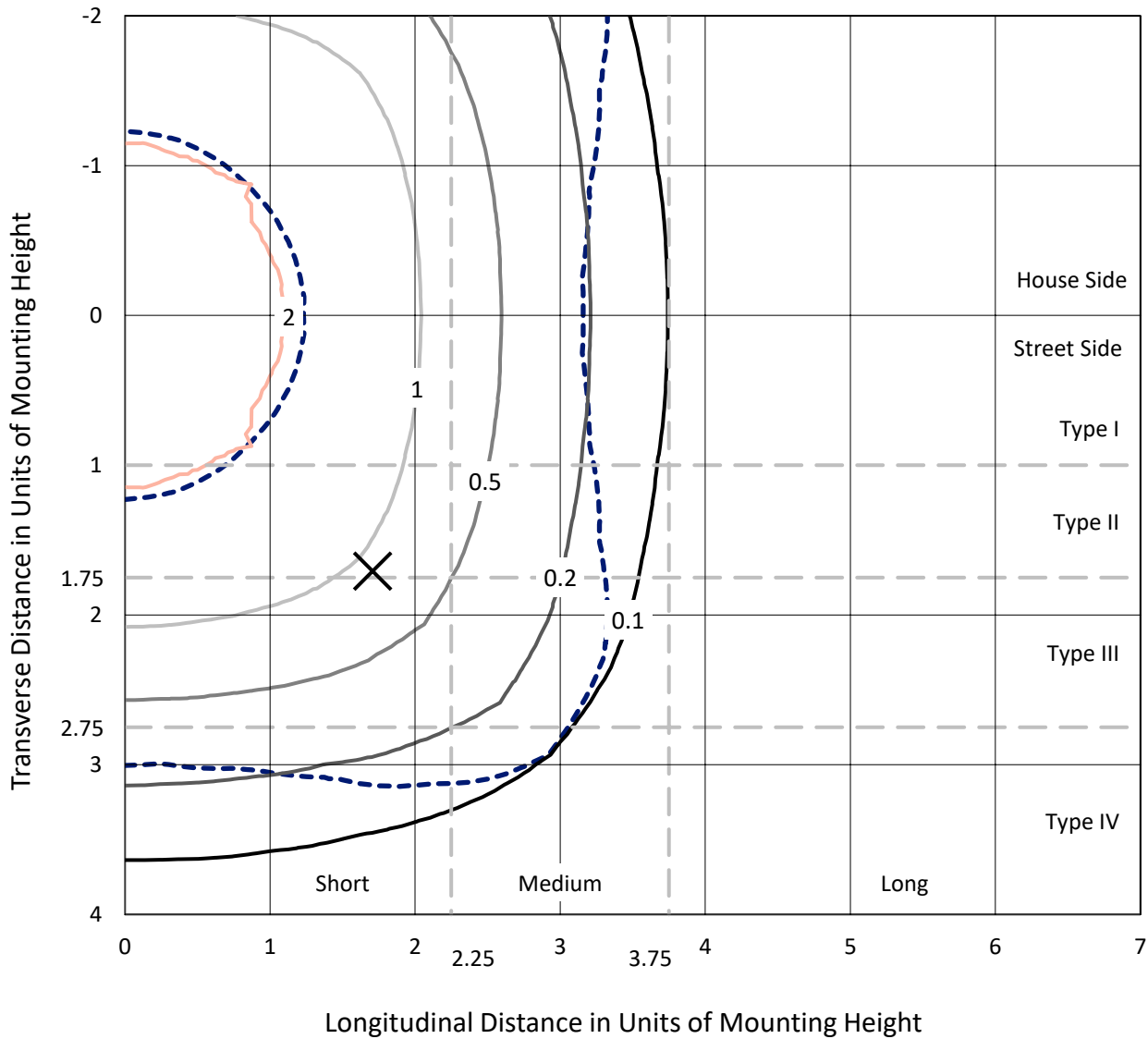
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

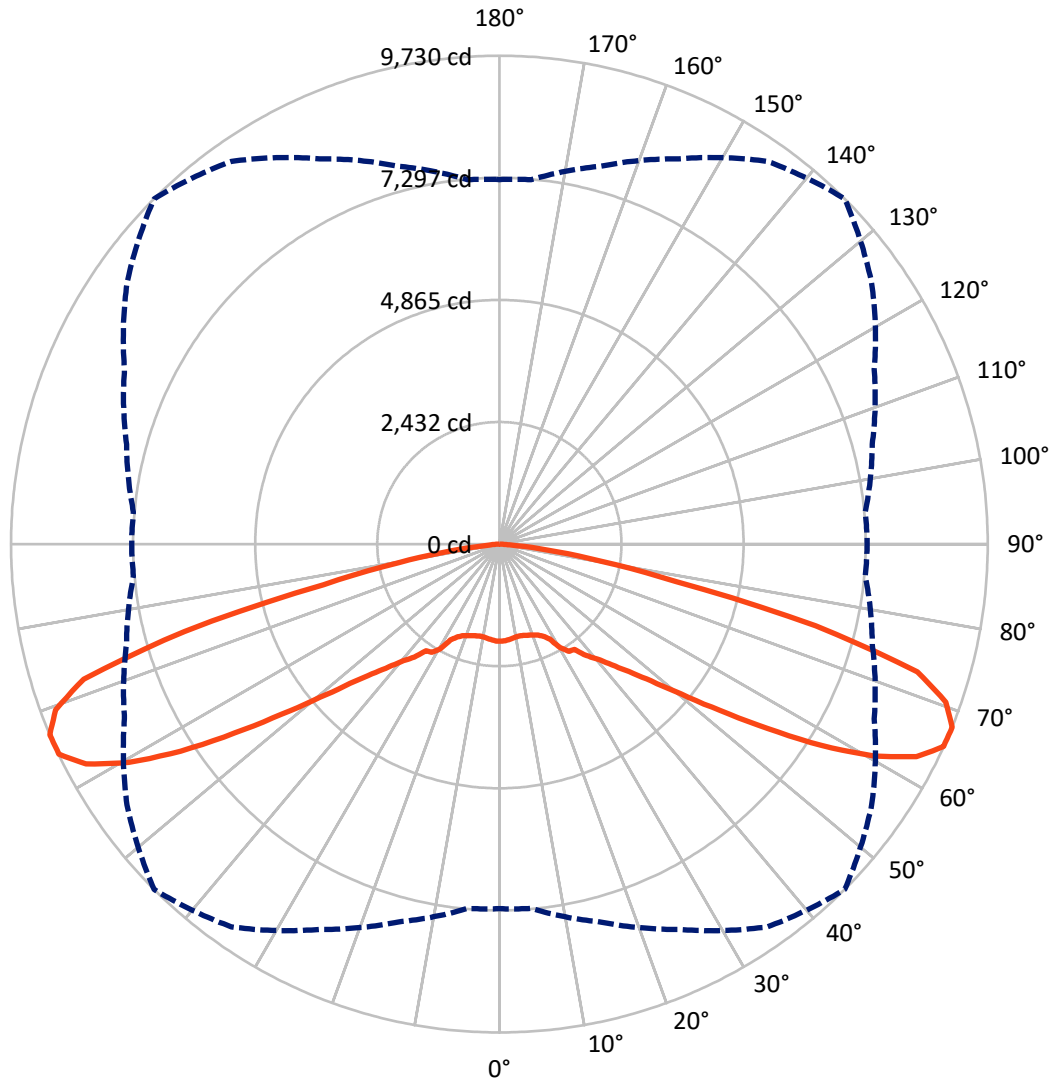
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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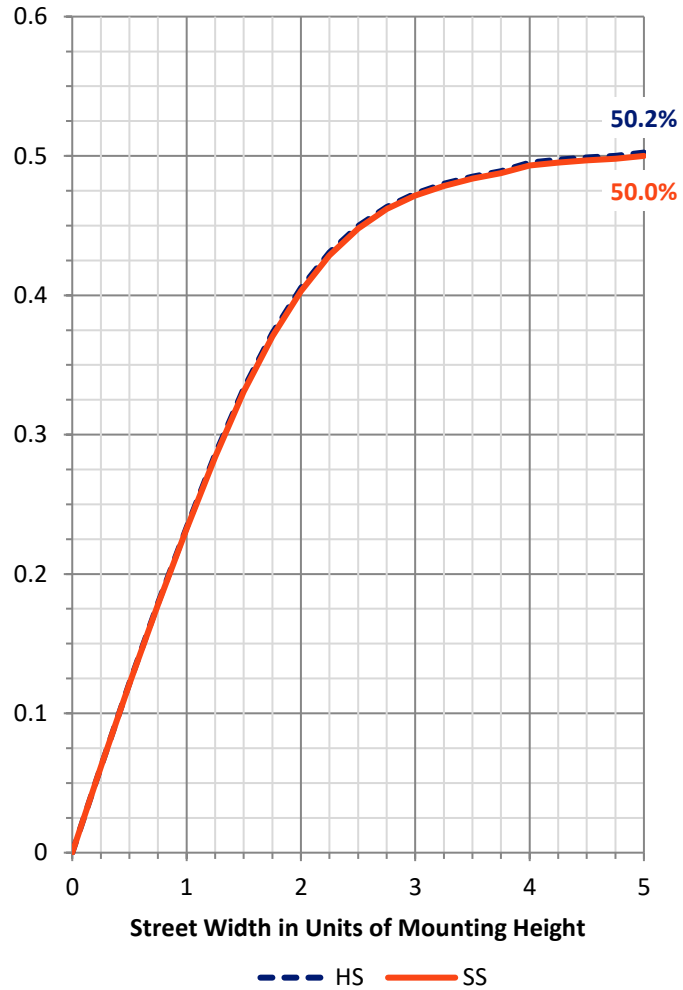
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12322.9	0.0	12322.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12322.9	0.0	12322.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	24645.8	0.0	24645.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.5	0.7
10°-20°	538.5	2.2
20°-30°	966.0	3.9
30°-40°	1631.9	6.6
40°-50°	2867.3	11.6
50°-60°	5531.0	22.4
60°-70°	8024.8	32.6
70°-80°	4591.4	18.6
80°-90°	313.4	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°	24645.8	100.0
0°-180°	24645.8	100.0

Coefficient of Utilization



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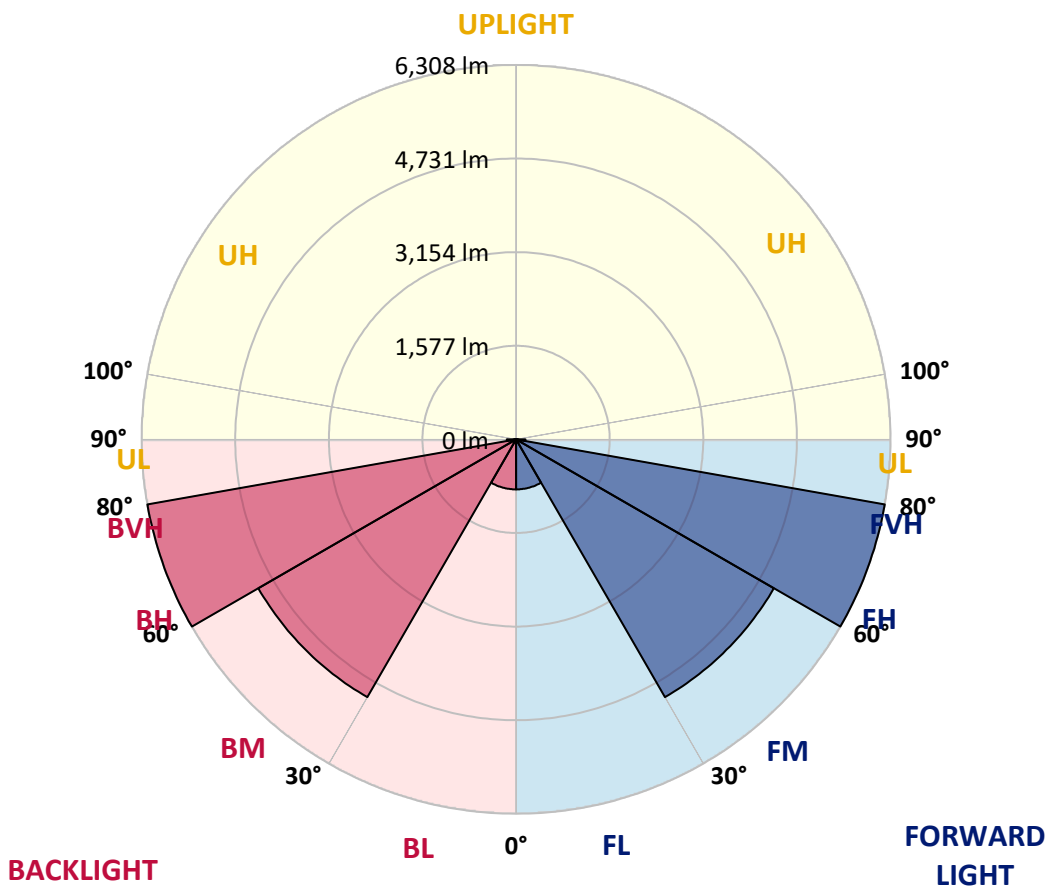
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	843.0	3.4			
FM (30°-60°)	5015.1	20.3			
FH (60°-80°)	6308.1	25.6			G3/7500
FVH (80°-90°)	156.7	0.6			G2/225
BL (0°-30°)	843.0	3.4	B2/1000		
BM (30°-60°)	5015.1	20.3	B4/8500		
BH (60°-80°)	6308.1	25.6	B5		G3/7500
BVH (80°-90°)	156.7	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1932.7	1932.7	1932.7	1932.7	1932.7	1932.7	1932.7	1932.7	1932.7	1932.7	1932.7
2.5°	1917.0	1918.8	1922.3	1922.3	1925.8	1931.0	1932.7	1929.2	1931.0	1922.3	1931.0
5°	1911.8	1913.6	1915.3	1911.8	1911.8	1913.6	1913.6	1910.1	1911.8	1903.1	1911.8
7.5°	1899.6	1901.4	1901.4	1896.1	1890.9	1894.4	1894.4	1890.9	1892.7	1883.9	1894.4
10°	1889.2	1889.2	1887.4	1877.0	1871.7	1877.0	1878.7	1880.5	1887.4	1880.5	1892.7
12.5°	1896.1	1896.1	1890.9	1877.0	1868.3	1871.7	1875.2	1878.7	1890.9	1889.2	1903.1
15°	1915.3	1917.0	1903.1	1887.4	1882.2	1887.4	1883.9	1882.2	1897.9	1903.1	1918.8
17.5°	1931.0	1931.0	1913.6	1897.9	1899.6	1908.3	1901.4	1892.7	1908.3	1918.8	1936.2
20°	1944.9	1943.2	1924.0	1913.6	1920.5	1932.7	1927.5	1915.3	1925.8	1938.0	1953.6
22.5°	1979.8	1978.0	1957.1	1951.9	1958.9	1971.1	1965.8	1955.4	1967.6	1985.0	2004.2
25°	2079.1	2075.6	2044.3	2026.8	2023.4	2032.1	2030.3	2026.8	2046.0	2066.9	2089.6
27.5°	2211.6	2209.8	2187.2	2169.8	2147.1	2140.1	2145.4	2161.0	2188.9	2204.6	2223.8
30°	2277.8	2277.8	2274.3	2302.2	2351.0	2398.1	2361.5	2302.2	2277.8	2270.8	2290.0
32.5°	2364.9	2373.7	2361.5	2392.8	2474.7	2544.4	2474.7	2378.9	2361.5	2361.5	2382.4
35°	2565.4	2568.8	2549.7	2544.4	2570.6	2579.3	2546.2	2511.3	2530.5	2534.0	2560.1
37.5°	2725.7	2725.7	2717.0	2730.9	2784.9	2818.1	2764.0	2701.3	2706.5	2710.0	2743.1
40°	2973.2	2980.1	2959.2	2957.5	2978.4	3008.0	2950.5	2910.4	2938.3	2947.0	2997.6
42.5°	3281.6	3281.6	3250.3	3241.6	3255.5	3286.9	3232.8	3206.7	3243.3	3250.3	3279.9
45°	3649.4	3658.1	3616.3	3600.6	3607.5	3618.0	3579.7	3567.5	3602.3	3618.0	3670.3
47.5°	4097.3	4106.0	4069.4	4067.6	4060.7	4067.6	4031.0	4024.1	4051.9	4039.7	4095.5
50°	4649.7	4665.4	4634.0	4677.6	4672.4	4693.3	4642.7	4606.1	4606.1	4573.0	4604.4
52.5°	5268.4	5299.8	5315.5	5388.7	5444.4	5496.7	5413.0	5355.5	5271.9	5203.9	5289.3
55°	5942.9	5934.1	6033.5	6193.8	6357.6	6481.4	6317.5	6136.3	6000.4	5859.2	5892.3
57.5°	6533.7	6563.3	6694.0	6986.8	7310.9	7572.3	7277.8	6929.3	6620.8	6418.6	6446.5
60°	7025.1	7049.5	7223.8	7645.5	8211.9	8572.7	8105.6	7530.5	7082.6	6803.8	6833.4
62.5°	7478.2	7500.9	7676.9	8142.2	8856.8	9327.3	8724.3	7938.3	7439.9	7159.3	7176.7
65°	7739.6	7753.6	7994.1	8483.8	9236.7	9722.9	9043.2	8232.9	7743.1	7457.3	7467.8
67.5°	7263.9	7286.5	7793.7	8469.9	9309.9	9729.9	9057.2	8241.6	7690.9	7317.9	7326.6
70°	5730.2	5711.1	6315.8	7478.2	8889.9	9437.1	8654.6	7622.9	6772.4	6251.3	6242.6
72.5°	4369.1	4374.4	4710.7	5507.2	7248.2	8708.6	7636.8	6138.0	5221.3	4825.7	4810.0
75°	3168.4	3217.2	3490.8	4074.6	5069.7	6509.3	5749.4	4548.6	3935.2	3698.2	3663.3
77.5°	1427.3	1490.1	1871.7	2558.4	3389.7	3597.1	3611.0	3088.2	2330.1	1936.2	1875.2
80°	416.5	446.1	573.4	981.2	1579.0	2040.8	1620.8	1362.8	848.7	665.7	634.4
82.5°	176.0	200.4	245.7	271.9	458.3	946.3	589.1	374.7	348.6	282.3	257.9
85°	74.9	80.2	102.8	109.8	148.1	202.2	186.5	169.0	162.1	125.5	115.0
87.5°	31.4	31.4	31.4	27.9	26.1	27.9	38.3	48.8	64.5	50.5	47.1
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)