

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: P636976

Luminaire Tested: GWS-SA4B-830-U-5WQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636976
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-SA4B-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: 11656.9 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

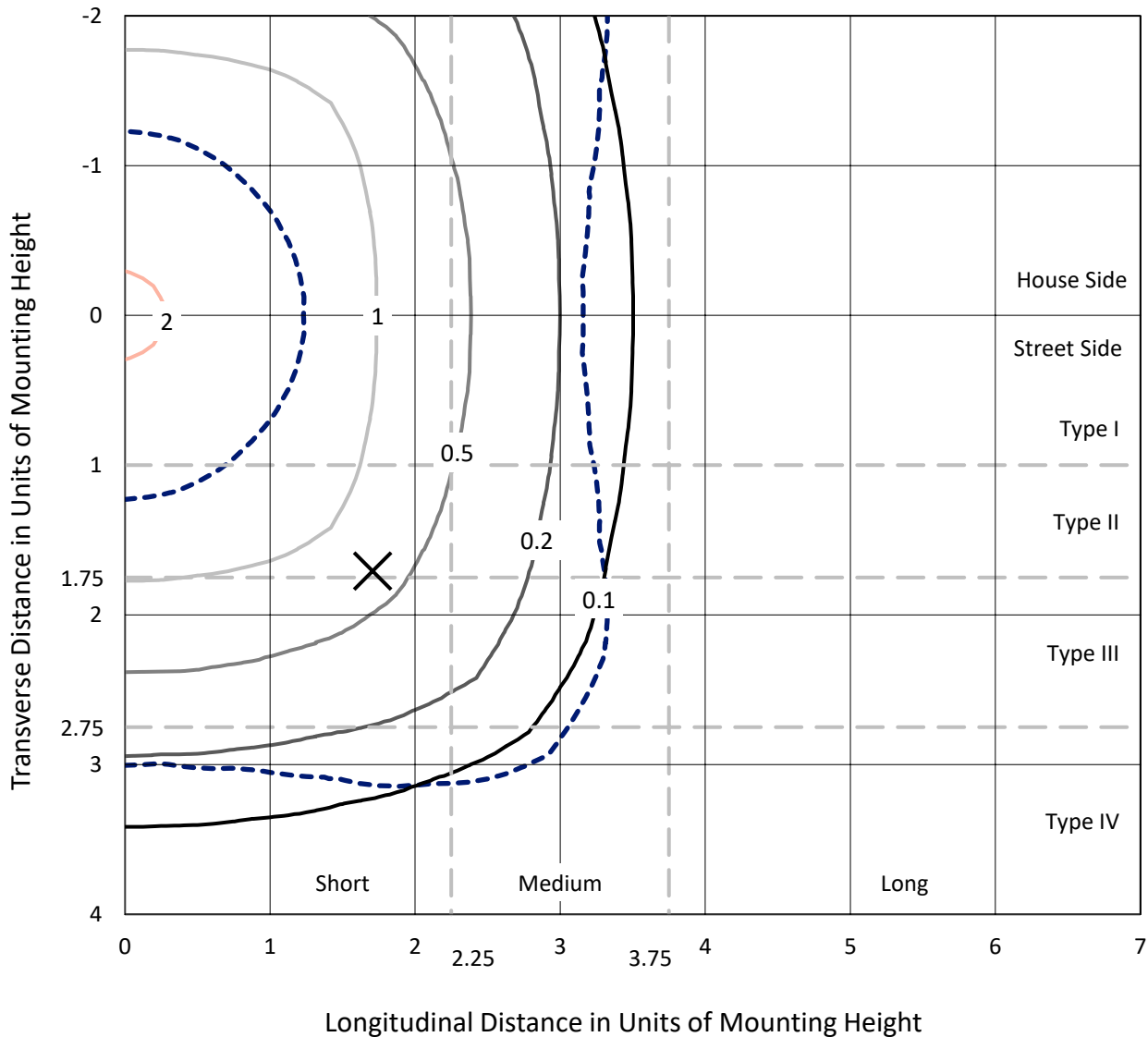
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636976
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Iso-Footcandle Lines of Horizontal Illumination

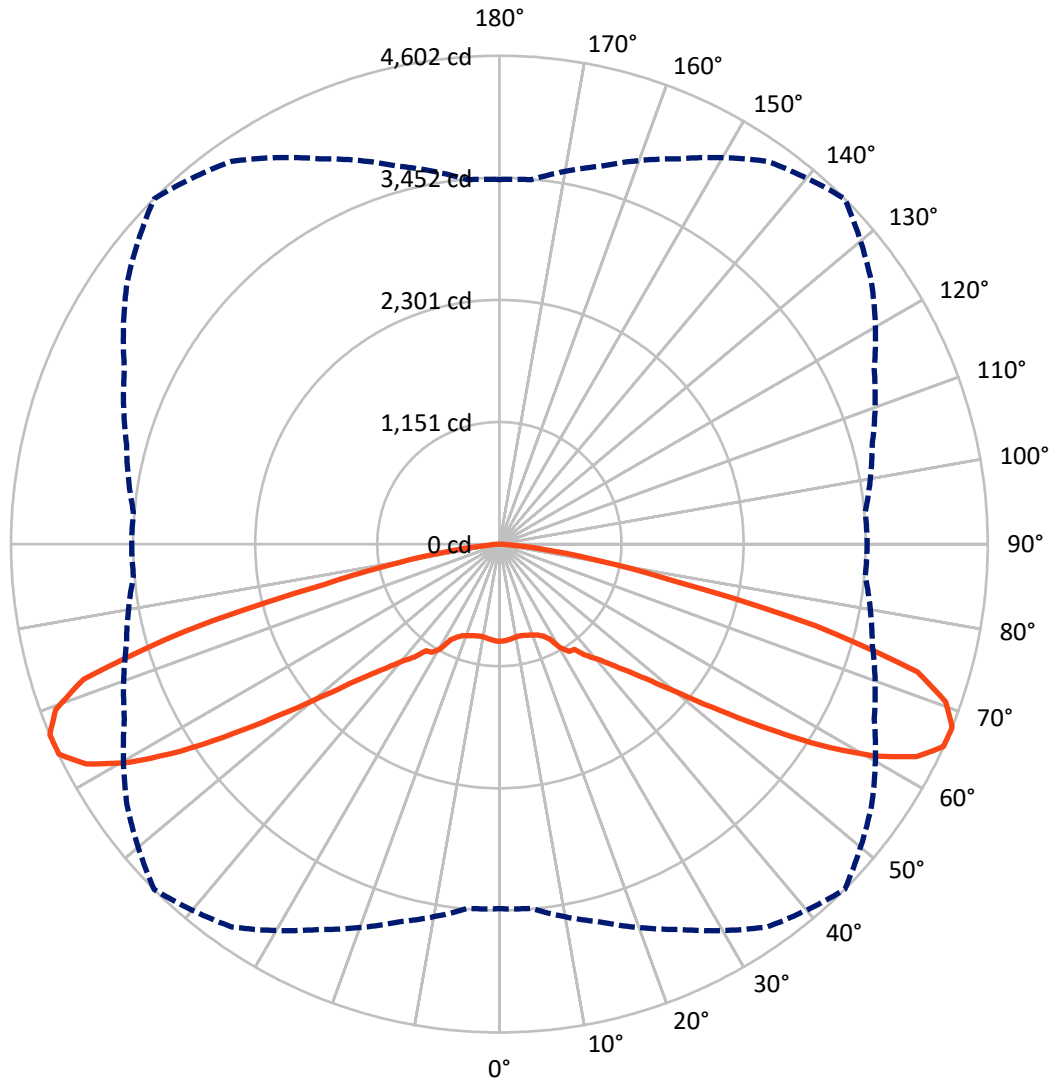
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - N/A

REPORT NUMBER: P636976
CATALOG NUMBER: GWS-SA4B-830-U-5WQ-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P636976

CATALOG NUMBER: GWS-SA4B-830-U-5WQ-W

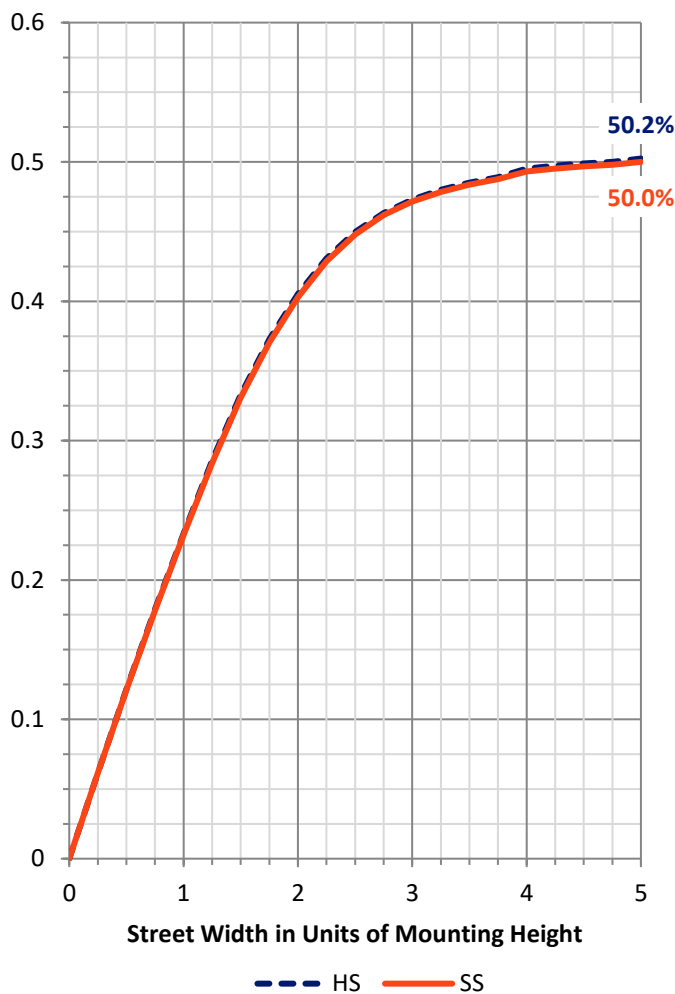
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5828.4	0.0	5828.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5828.4	0.0	5828.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	11656.9	0.0	11656.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	0.7
10°-20°	254.7	2.2
20°-30°	456.9	3.9
30°-40°	771.9	6.6
40°-50°	1356.1	11.6
50°-60°	2616.0	22.4
60°-70°	3795.5	32.6
70°-80°	2171.6	18.6
80°-90°	148.2	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°	11656.9	100.0
0°-180°	11656.9	100.0

Coefficient of Utilization



REPORT NUMBER: P636976

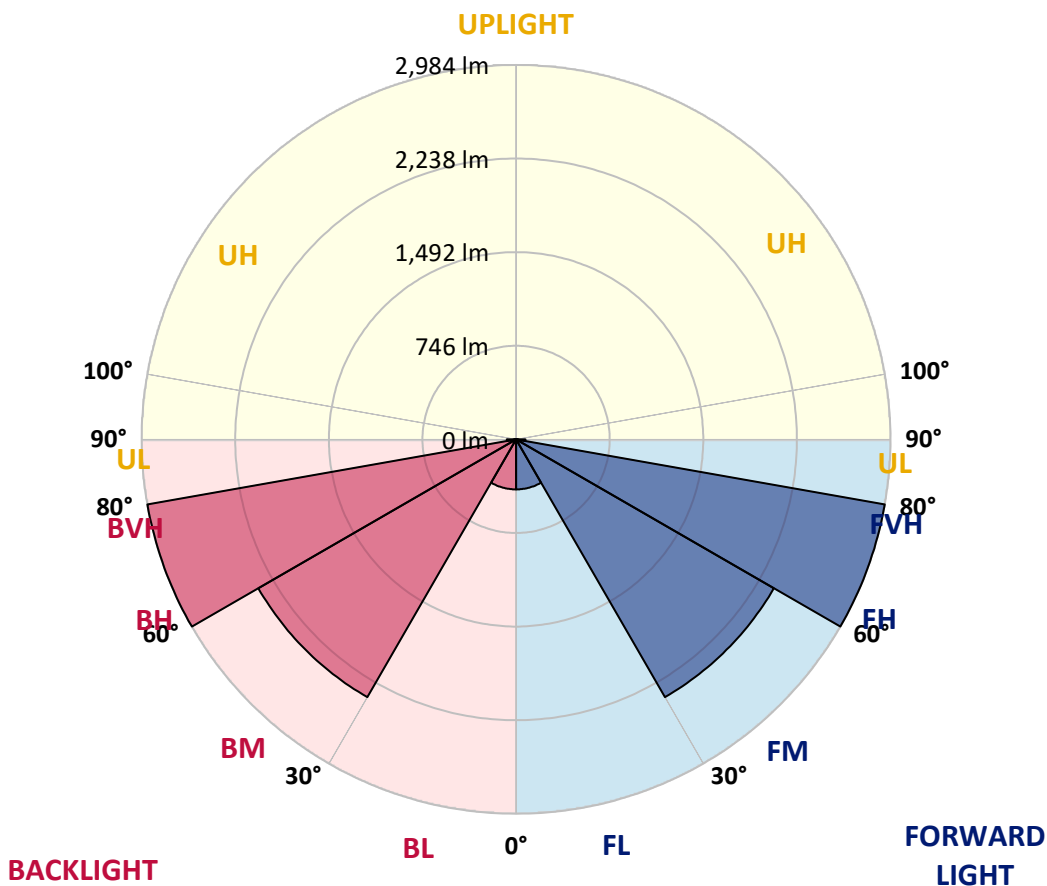
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	398.7	3.4			
FM (30°-60°)	2372.0	20.3			
FH (60°-80°)	2983.6	25.6			G2/5000
FVH (80°-90°)	74.1	0.6			G1/100
BL (0°-30°)	398.7	3.4	B1/500		
BM (30°-60°)	2372.0	20.3	B2/2500		
BH (60°-80°)	2983.6	25.6	B4/5000		G2/5000
BVH (80°-90°)	74.1	0.6			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°	914.1	914.1	914.1	914.1	914.1	914.1	914.1	914.1	914.1	914.1	914.1
2.5°	906.7	907.5	909.2	909.2	910.8	913.3	914.1	912.5	913.3	909.2	913.3
5°	904.2	905.1	905.9	904.2	904.2	905.1	905.1	903.4	904.2	900.1	904.2
7.5°	898.5	899.3	899.3	896.8	894.4	896.0	896.0	894.4	895.2	891.1	896.0
10°	893.5	893.5	892.7	887.8	885.3	887.8	888.6	889.4	892.7	889.4	895.2
12.5°	896.8	896.8	894.4	887.8	883.6	885.3	886.9	888.6	894.4	893.5	900.1
15°	905.9	906.7	900.1	892.7	890.2	892.7	891.1	890.2	897.7	900.1	907.5
17.5°	913.3	913.3	905.1	897.7	898.5	902.6	899.3	895.2	902.6	907.5	915.8
20°	919.9	919.1	910.0	905.1	908.4	914.1	911.7	905.9	910.8	916.6	924.0
22.5°	936.4	935.6	925.7	923.2	926.5	932.3	929.8	924.9	930.6	938.9	947.9
25°	983.4	981.7	966.9	958.7	957.0	961.1	960.3	958.7	967.7	977.6	988.3
27.5°	1046.0	1045.2	1034.5	1026.2	1015.5	1012.2	1014.7	1022.1	1035.3	1042.7	1051.8
30°	1077.3	1077.3	1075.7	1088.9	1112.0	1134.2	1116.9	1088.9	1077.3	1074.1	1083.1
32.5°	1118.6	1122.7	1116.9	1131.8	1170.5	1203.5	1170.5	1125.2	1116.9	1116.9	1126.8
35°	1213.4	1215.0	1205.9	1203.5	1215.8	1220.0	1204.3	1187.8	1196.9	1198.5	1210.9
37.5°	1289.2	1289.2	1285.1	1291.7	1317.2	1332.9	1307.3	1277.7	1280.1	1281.8	1297.4
40°	1406.2	1409.5	1399.6	1398.8	1408.7	1422.7	1395.5	1376.6	1389.8	1393.9	1417.8
42.5°	1552.1	1552.1	1537.3	1533.2	1539.8	1554.6	1529.1	1516.7	1534.0	1537.3	1551.3
45°	1726.1	1730.2	1710.4	1703.0	1706.3	1711.2	1693.1	1687.3	1703.8	1711.2	1736.0
47.5°	1937.9	1942.0	1924.7	1923.9	1920.6	1923.9	1906.6	1903.3	1916.5	1910.7	1937.1
50°	2199.2	2206.6	2191.8	2212.4	2209.9	2219.8	2195.9	2178.6	2178.6	2162.9	2177.8
52.5°	2491.8	2506.7	2514.1	2548.7	2575.1	2599.8	2560.2	2533.0	2493.5	2461.3	2501.7
55°	2810.8	2806.7	2853.7	2929.5	3007.0	3065.5	2988.1	2902.3	2838.0	2771.3	2786.9
57.5°	3090.3	3104.3	3166.1	3304.6	3457.9	3581.5	3442.2	3277.4	3131.5	3035.9	3049.1
60°	3322.7	3334.3	3416.7	3616.2	3884.1	4054.7	3833.8	3561.8	3349.9	3218.0	3232.0
62.5°	3537.0	3547.7	3631.0	3851.1	4189.0	4411.6	4126.4	3754.6	3518.9	3386.2	3394.4
65°	3660.7	3667.3	3781.0	4012.6	4368.7	4598.7	4277.2	3894.0	3662.3	3527.1	3532.1
67.5°	3435.6	3446.4	3686.2	4006.1	4403.4	4602.0	4283.8	3898.1	3637.6	3461.2	3465.3
70°	2710.3	2701.2	2987.2	3537.0	4204.7	4463.5	4093.4	3605.4	3203.2	2956.7	2952.6
72.5°	2066.5	2069.0	2228.1	2604.8	3428.2	4119.0	3612.0	2903.2	2469.6	2282.5	2275.0
75°	1498.6	1521.6	1651.1	1927.2	2397.9	3078.7	2719.3	2151.4	1861.2	1749.1	1732.7
77.5°	675.1	704.8	885.3	1210.1	1603.2	1701.3	1707.9	1460.6	1102.1	915.8	886.9
80°	197.0	211.0	271.2	464.1	746.8	965.2	766.6	644.6	401.4	314.9	300.0
82.5°	83.3	94.8	116.2	128.6	216.8	447.6	278.6	177.2	164.9	133.5	122.0
85°	35.4	37.9	48.6	51.9	70.1	95.6	88.2	80.0	76.7	59.3	54.4
87.5°	14.8	14.8	14.8	13.2	12.4	13.2	18.1	23.1	30.5	23.9	22.3
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)