

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: P639451

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639451
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-SA5B-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: 14299.7 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

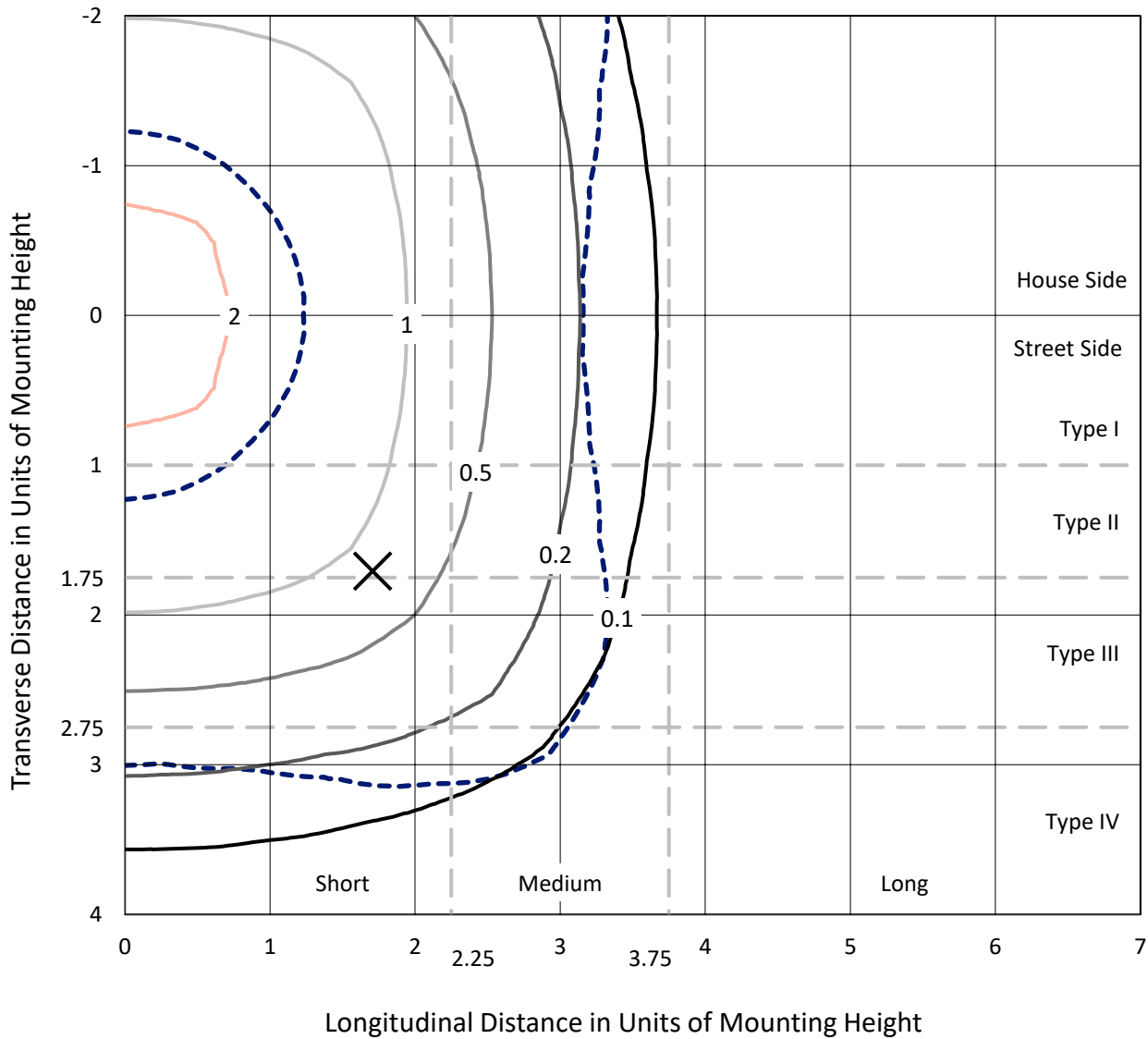
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

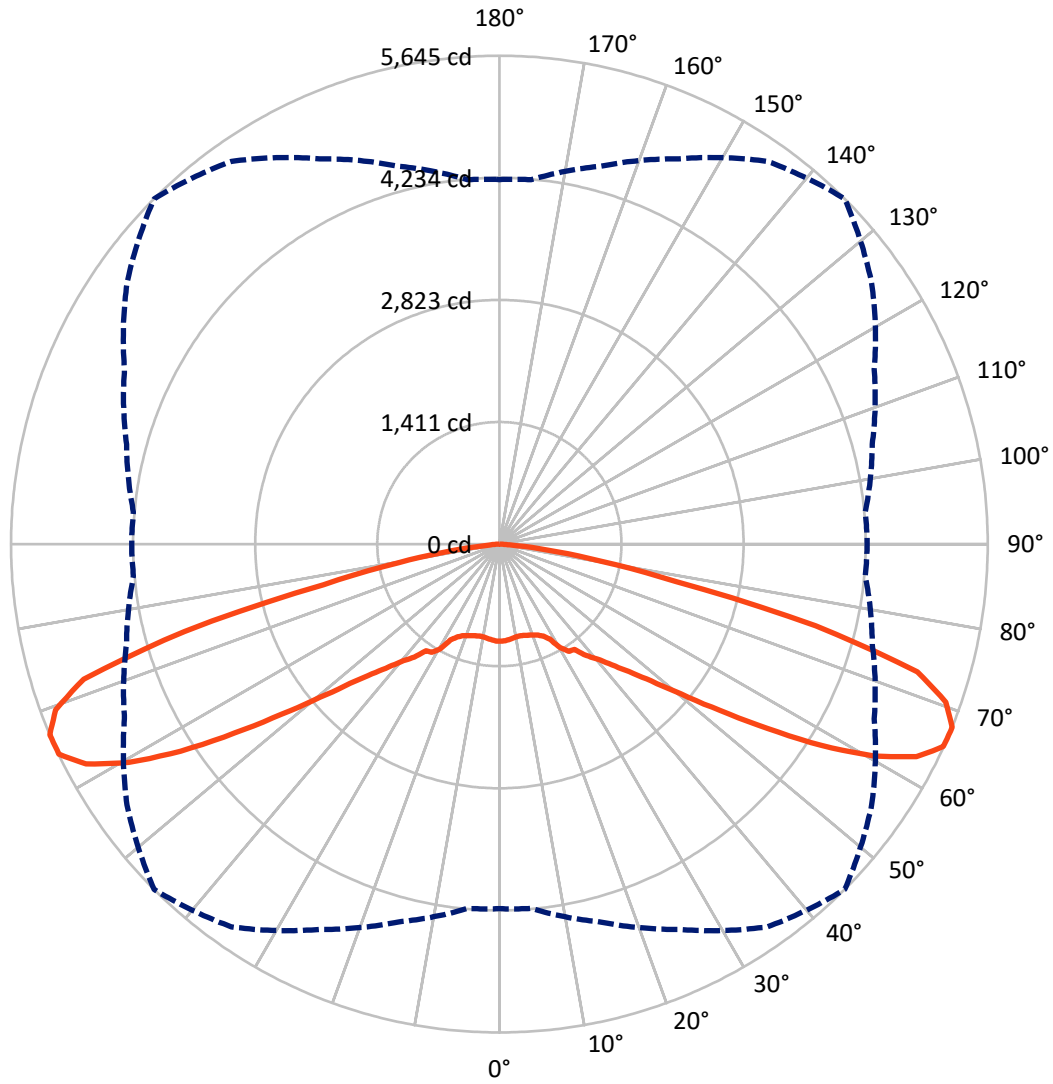
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.8 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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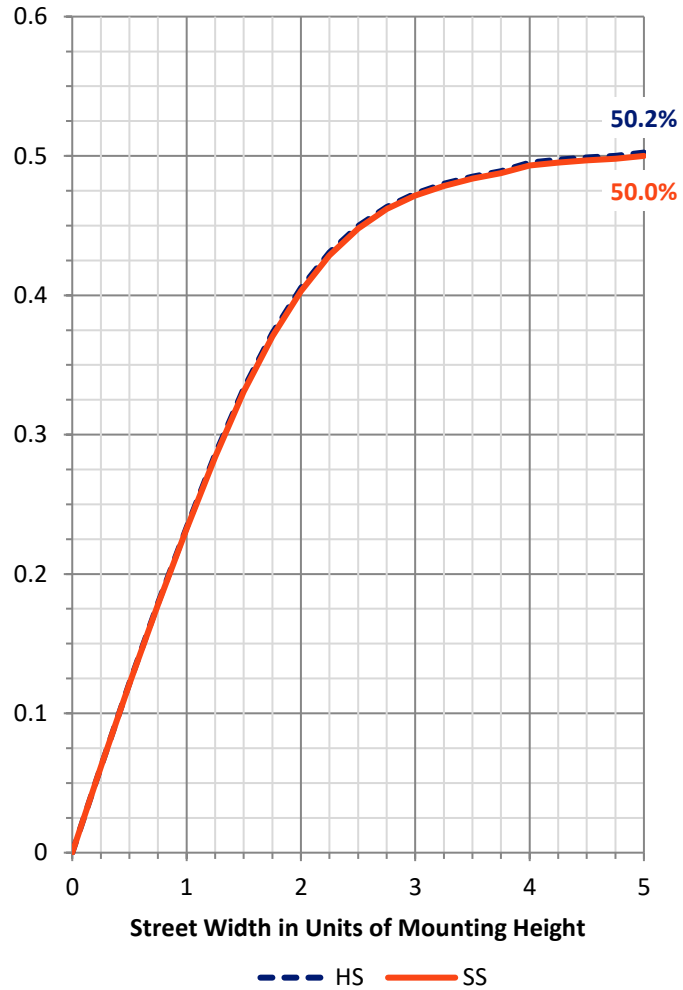
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7149.9	0.0	7149.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7149.9	0.0	7149.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	14299.7	0.0	14299.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	0.7
10°-20°	312.5	2.2
20°-30°	560.5	3.9
30°-40°	946.8	6.6
40°-50°	1663.6	11.6
50°-60°	3209.2	22.4
60°-70°	4656.1	32.6
70°-80°	2664.0	18.6
80°-90°	181.8	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°	14299.7	100.0
0°-180°	14299.7	100.0

Coefficient of Utilization



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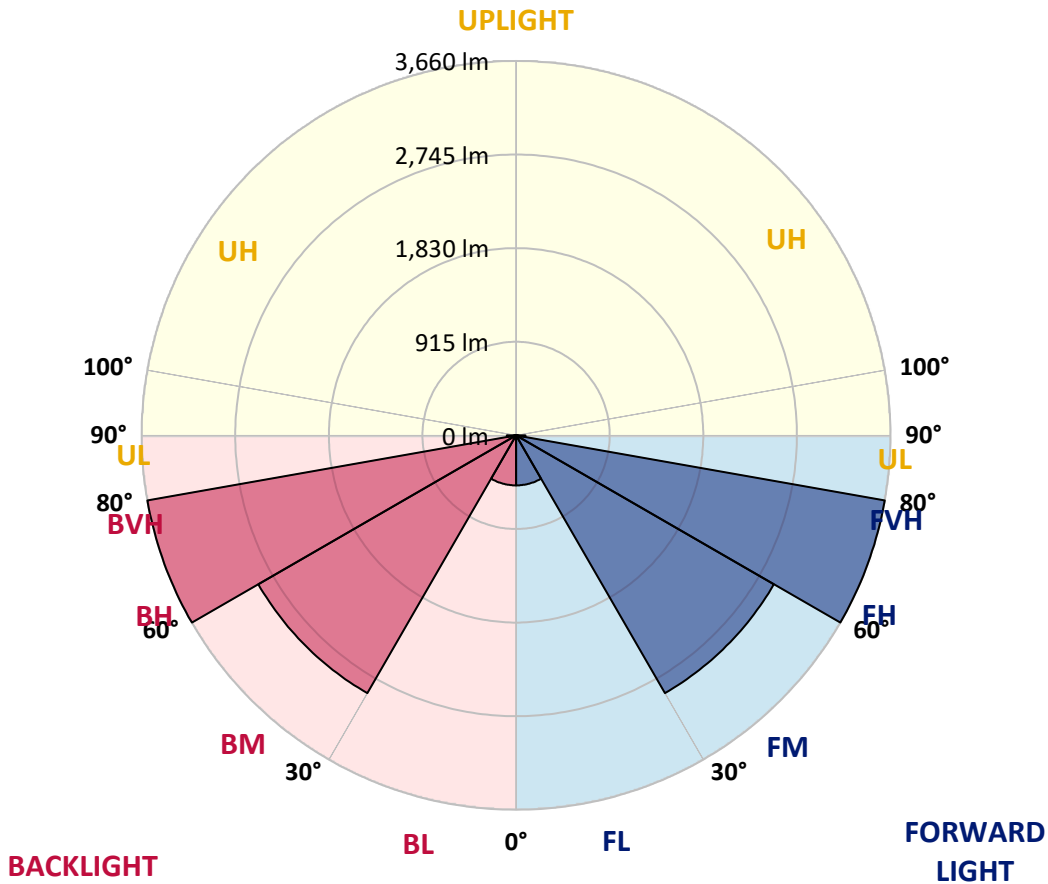
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	489.1	3.4			
FM (30°-60°)	2909.8	20.3			
FH (60°-80°)	3660.0	25.6			G2/5000
FVH (80°-90°)	90.9	0.6			G1/100
BL (0°-30°)	489.1	3.4	B1/500		
BM (30°-60°)	2909.8	20.3	B3/5000		
BH (60°-80°)	3660.0	25.6	B4/5000		G2/5000
BVH (80°-90°)	90.9	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°	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4	1121.4
2.5°	1112.3	1113.3	1115.3	1115.3	1117.3	1120.4	1121.4	1119.4	1120.4	1115.3	1120.4
5°	1109.3	1110.3	1111.3	1109.3	1109.3	1110.3	1110.3	1108.2	1109.3	1104.2	1109.3
7.5°	1102.2	1103.2	1103.2	1100.2	1097.1	1099.1	1099.1	1097.1	1098.1	1093.1	1099.1
10°	1096.1	1096.1	1095.1	1089.0	1086.0	1089.0	1090.0	1091.1	1095.1	1091.1	1098.1
12.5°	1100.2	1100.2	1097.1	1089.0	1084.0	1086.0	1088.0	1090.0	1097.1	1096.1	1104.2
15°	1111.3	1112.3	1104.2	1095.1	1092.1	1095.1	1093.1	1092.1	1101.2	1104.2	1113.3
17.5°	1120.4	1120.4	1110.3	1101.2	1102.2	1107.2	1103.2	1098.1	1107.2	1113.3	1123.4
20°	1128.5	1127.5	1116.3	1110.3	1114.3	1121.4	1118.4	1111.3	1117.3	1124.4	1133.5
22.5°	1148.7	1147.7	1135.5	1132.5	1136.6	1143.6	1140.6	1134.5	1141.6	1151.7	1162.8
25°	1206.3	1204.3	1186.1	1176.0	1174.0	1179.0	1178.0	1176.0	1187.1	1199.2	1212.4
27.5°	1283.2	1282.2	1269.0	1258.9	1245.8	1241.7	1244.8	1253.9	1270.0	1279.1	1290.3
30°	1321.6	1321.6	1319.6	1335.8	1364.1	1391.4	1370.1	1335.8	1321.6	1317.6	1328.7
32.5°	1372.2	1377.2	1370.1	1388.3	1435.9	1476.3	1435.9	1380.2	1370.1	1370.1	1382.3
35°	1488.4	1490.5	1479.3	1476.3	1491.5	1496.5	1477.3	1457.1	1468.2	1470.2	1485.4
37.5°	1581.5	1581.5	1576.4	1584.5	1615.9	1635.1	1603.7	1567.3	1570.3	1572.4	1591.6
40°	1725.1	1729.1	1717.0	1716.0	1728.1	1745.3	1711.9	1688.7	1704.8	1709.9	1739.2
42.5°	1904.0	1904.0	1885.8	1880.8	1888.9	1907.1	1875.7	1860.6	1881.8	1885.8	1903.0
45°	2117.4	2122.4	2098.2	2089.1	2093.1	2099.2	2076.9	2069.9	2090.1	2099.2	2129.5
47.5°	2377.3	2382.3	2361.1	2360.1	2356.0	2360.1	2338.8	2334.8	2351.0	2343.9	2376.3
50°	2697.8	2706.9	2688.7	2714.0	2710.9	2723.1	2693.8	2672.5	2672.5	2653.3	2671.5
52.5°	3056.8	3075.0	3084.1	3126.5	3158.9	3189.2	3140.7	3107.3	3058.8	3019.4	3068.9
55°	3448.1	3443.0	3500.7	3593.7	3688.8	3760.5	3665.5	3560.3	3481.5	3399.6	3418.8
57.5°	3790.9	3808.1	3883.9	4053.8	4241.9	4393.5	4222.6	4020.4	3841.4	3724.1	3740.3
60°	4076.0	4090.2	4191.3	4436.0	4764.6	4973.9	4703.0	4369.3	4109.4	3947.6	3964.8
62.5°	4338.9	4352.1	4454.2	4724.2	5138.8	5411.8	5061.9	4605.9	4316.7	4153.9	4164.0
65°	4490.6	4498.7	4638.2	4922.4	5359.2	5641.3	5247.0	4776.8	4492.6	4326.8	4332.9
67.5°	4214.6	4227.7	4522.0	4914.3	5401.7	5645.4	5255.1	4781.8	4462.3	4245.9	4251.0
70°	3324.7	3313.6	3664.5	4338.9	5158.0	5475.5	5021.5	4422.9	3929.4	3627.1	3622.0
72.5°	2535.0	2538.0	2733.2	3195.3	4205.5	5052.8	4431.0	3561.3	3029.5	2799.9	2790.8
75°	1838.3	1866.6	2025.4	2364.1	2941.5	3776.7	3335.9	2639.2	2283.2	2145.7	2125.5
77.5°	828.1	864.6	1086.0	1484.4	1966.7	2087.1	2095.1	1791.8	1351.9	1123.4	1088.0
80°	241.7	258.9	332.7	569.3	916.1	1184.1	940.4	790.7	492.4	386.3	368.1
82.5°	102.1	116.3	142.6	157.7	265.9	549.1	341.8	217.4	202.2	163.8	149.7
85°	43.5	46.5	59.7	63.7	85.9	117.3	108.2	98.1	94.0	72.8	66.7
87.5°	18.2	18.2	18.2	16.2	15.2	16.2	22.2	28.3	37.4	29.3	27.3
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)