

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: CORELITE

Report Number: P1436033

Luminaire Tested: SQ2W-FB-K-150U-075D-L830-UNV-STD-W-WM-4

Issue Date: 3/24/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1436033  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/24/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-FB-K-150U-075D-L830-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - FROSTED CONTINUOUS BATWING ROLL LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

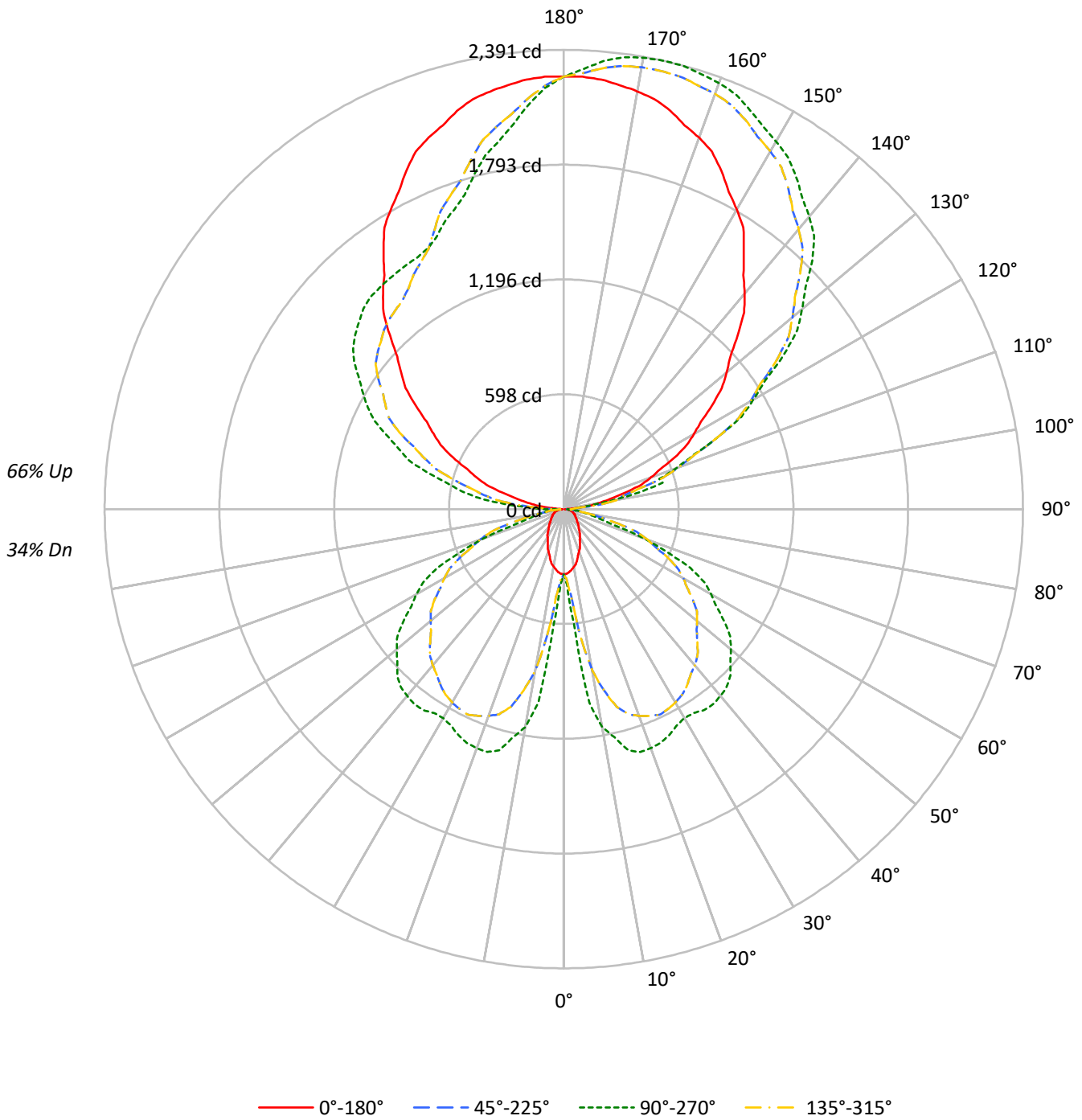
Lumens per Lamp: N/A  
Luminaire Lumens: 9934.0 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 2.98 / 2.52  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 81.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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CATALOG NUMBER: SQ2W-FB-K-150U-075D-L830-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	94	90	86	82	85	81	78	75	65	63	61	50	48	47	36	35	35	28
2	85	78	72	67	77	71	65	61	56	53	50	44	41	39	32	30	29	23
3	78	68	61	55	70	62	56	51	49	45	41	38	35	33	28	26	24	19
4	71	60	52	46	63	54	48	42	44	39	35	34	30	27	24	22	20	16
5	65	53	45	39	58	48	41	36	39	34	30	30	26	23	22	19	17	14
6	59	47	39	34	53	43	36	31	35	29	25	27	23	20	20	17	15	12
7	55	43	35	29	49	39	32	27	31	26	22	24	20	18	18	15	13	10
8	51	38	31	25	45	35	28	23	28	23	19	22	18	15	16	14	12	9
9	47	35	27	22	42	32	25	21	26	21	17	20	16	14	15	12	10	8
10	44	32	25	20	39	29	23	18	23	19	15	18	15	12	14	11	9	7

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	5478	5478	5478	5478
5°	5340	9702	5340	9702
10°	5000	18878	5000	18878
15°	4526	21728	4526	21728
20°	4007	22755	4007	22755
25°	3545	23129	3545	23129
30°	3132	23414	3132	23414
35°	2797	25172	2797	25172
40°	2544	26746	2544	26746
45°	2347	28005	2347	28005
50°	2213	28514	2213	28514
55°	2159	28740	2159	28740
60°	2212	28600	2212	28600
65°	2304	27789	2304	27789
70°	2389	21021	2389	21021
75°	2645	11597	2645	11597
80°	2734	10767	2734	10767
85°	2723	4539	2723	4539

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 52.5°  
 Luminance: 29002 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.8	0.6
10°-20°	259.3	2.6
20°-30°	456.4	4.6
30°-40°	590.8	5.9
40°-50°	651.5	6.6
50°-60°	608.1	6.1
60°-70°	469.8	4.7
70°-80°	216.6	2.2
80°-90°	50.7	0.5
90°-100°	179.2	1.8
100°-110°	522.6	5.3
110°-120°	852.8	8.6
120°-130°	1082.1	10.9
130°-140°	1157.9	11.7
140°-150°	1081.2	10.9
150°-160°	889.7	9.0
160°-170°	596.7	6.0
170°-180°	211.9	2.1
0°-30°	772.6	7.8
0°-40°	1363.3	13.7
0°-60°	2622.9	26.4
0°-90°	3360.0	33.8
90°-120°	1554.5	15.6
90°-150°	4875.8	49.1
90°-180°	6574.0	66.2
0°-180°	9934.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	339	339	339	339	339	
5°	330	599	330	599	330	31
15°	271	1300	271	1300	271	75
25°	199	1298	199	1298	199	91
35°	142	1277	142	1277	142	89
45°	103	1226	103	1226	103	80
55°	77	1021	77	1021	77	69
65°	60	727	60	727	60	59
75°	42	186	42	186	42	44
85°	15	24	15	24	15	15
90°	7	50	7	98	7	6
95°	70	52	70	307	70	85
105°	332	532	332	732	332	353
115°	637	882	637	1087	637	628
125°	942	1399	942	1333	942	842
135°	1280	1831	1280	1476	1280	989
145°	1635	2110	1635	1508	1635	1023
155°	1942	2292	1942	1565	1942	893
165°	2147	2390	2147	1801	2147	604
175°	2245	2340	2245	2113	2245	213
180°	2252	2252	2252	2252	2252	

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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	339.3	339.3	339.3	339.3	339.3	339.3	339.3	339.3	339.3	339.3	339.3
2.5°	336.6	343.0	349.4	356.2	363.2	370.7	378.8	385.8	389.3	392.8	389.3
5°	329.5	351.2	373.0	404.5	439.3	478.8	523.0	560.9	579.7	598.6	579.7
7.5°	316.7	361.0	405.2	498.9	609.1	723.5	842.1	940.4	978.1	1015.8	978.1
10°	305.0	366.6	428.2	587.2	778.6	925.7	1028.6	1110.9	1131.2	1151.5	1131.2
12.5°	292.0	375.6	459.3	655.5	889.2	1042.1	1114.3	1173.7	1194.6	1215.5	1194.6
15°	270.8	390.4	510.0	731.8	987.7	1145.0	1203.7	1253.5	1276.7	1299.9	1276.7
17.5°	248.9	408.1	567.3	793.6	1042.2	1195.6	1253.7	1300.5	1313.1	1325.7	1313.1
20°	233.2	420.3	607.3	834.0	1074.0	1218.9	1269.0	1308.5	1316.4	1324.4	1316.4
22.5°	218.9	427.9	637.0	864.0	1097.0	1232.4	1270.3	1300.8	1309.3	1317.9	1309.3
25°	199.0	434.6	670.2	896.5	1119.8	1243.4	1267.3	1286.7	1292.5	1298.3	1292.5
27.5°	179.7	428.7	677.6	901.1	1116.1	1231.4	1247.1	1260.3	1265.9	1271.6	1265.9
30°	168.0	421.0	674.0	895.4	1106.4	1217.7	1229.3	1240.0	1247.9	1255.9	1247.9
32.5°	157.6	411.7	665.9	884.6	1091.5	1200.4	1211.4	1224.0	1241.3	1258.5	1241.3
35°	141.9	392.0	642.1	858.5	1063.6	1174.9	1192.3	1213.3	1245.2	1277.1	1245.2
37.5°	128.5	366.7	604.9	819.1	1025.3	1146.5	1182.9	1217.9	1248.7	1279.4	1248.7
40°	120.7	349.0	577.4	790.0	997.3	1125.2	1173.8	1216.8	1242.9	1269.0	1242.9
42.5°	112.9	329.0	545.2	756.0	965.1	1098.0	1154.7	1203.7	1229.8	1255.9	1229.8
45°	102.8	297.0	491.3	700.3	914.1	1054.4	1121.1	1177.2	1201.9	1226.5	1201.9
47.5°	93.3	262.1	430.8	640.7	864.2	1011.4	1082.1	1139.7	1157.7	1175.7	1157.7
50°	88.1	238.9	389.6	600.2	830.7	980.8	1050.4	1106.2	1120.7	1135.2	1120.7
52.5°	82.9	216.2	349.6	560.6	797.5	948.8	1014.3	1066.8	1080.1	1093.5	1080.1
55°	76.7	185.4	294.1	502.9	745.0	894.7	952.0	997.8	1009.4	1021.0	1009.4
57.5°	71.1	158.8	246.5	448.8	689.1	833.8	882.6	921.6	931.0	940.5	931.0
60°	68.5	144.6	220.7	414.8	648.2	787.1	831.3	866.8	876.2	885.7	876.2
62.5°	64.6	130.8	197.1	380.9	603.9	735.7	776.5	809.3	818.1	826.9	818.1
65°	60.3	114.0	167.6	333.3	536.3	654.8	688.8	715.8	721.6	727.4	721.6
67.5°	54.5	100.0	145.5	289.7	466.7	565.8	587.0	600.1	589.2	578.4	589.2
70°	50.6	92.6	134.7	263.1	420.4	502.7	510.0	507.6	476.4	445.3	476.4
72.5°	48.0	85.4	122.8	234.0	369.8	429.8	413.8	387.1	328.1	269.1	328.1
75°	42.4	72.9	103.3	187.0	288.5	304.5	234.9	183.0	184.5	185.9	184.5
77.5°	34.6	57.3	80.1	131.6	192.6	204.7	167.9	140.6	141.9	143.2	141.9
80°	29.4	47.5	65.6	85.9	106.9	116.7	115.3	114.4	115.1	115.8	115.1
82.5°	24.1	37.6	51.1	63.3	75.0	81.6	83.1	83.9	82.9	81.9	82.9
85°	14.7	22.7	30.6	35.3	39.0	37.9	32.1	27.4	25.9	24.5	25.9
87.5°	6.6	11.3	16.5	17.3	16.3	15.6	15.6	16.1	16.5	16.5	16.5
90°	6.8	15.9	27.3	36.4	43.2	45.5	45.5	47.8	50.0	50.0	50.0
92.5°	25.0	39.6	40.0	40.0	48.7	52.8	56.4	56.9	59.1	59.1	59.1
95°	70.5	77.3	116.0	113.7	77.3	61.4	52.3	52.3	52.3	52.3	52.3
97.5°	134.6	144.6	151.0	202.4	213.8	206.5	168.3	141.5	126.4	119.6	126.4
100°	191.0	195.6	209.2	211.5	268.4	322.9	295.7	261.5	250.2	243.3	250.2
102.5°	247.4	250.2	271.1	280.6	293.8	324.8	419.4	408.9	401.2	399.8	401.2
105°	332.0	334.3	373.0	391.2	400.3	400.3	398.0	443.5	516.3	532.2	516.3
107.5°	422.6	433.0	478.5	527.2	537.6	540.4	528.5	521.7	519.0	520.8	519.0
110°	484.4	500.3	554.9	616.3	632.2	636.8	632.2	625.4	620.9	620.9	620.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	544.5	567.7	629.5	700.0	726.9	740.5	730.5	725.5	720.9	724.6	720.9
115°	636.8	670.9	752.8	825.6	880.1	887.0	884.7	884.7	882.4	882.4	882.4
117.5°	722.3	776.9	868.8	953.4	1016.6	1034.8	1043.9	1041.2	1038.4	1043.0	1038.4
120°	782.3	846.0	950.6	1046.2	1107.6	1134.9	1144.0	1139.4	1144.0	1139.4	1144.0
122.5°	846.0	924.3	1027.1	1126.2	1198.5	1229.5	1240.4	1241.3	1242.2	1239.5	1242.2
125°	941.5	1037.1	1157.6	1259.9	1335.0	1371.4	1380.5	1382.8	1387.3	1398.7	1387.3
127.5°	1038.0	1146.2	1278.6	1377.3	1454.2	1498.3	1512.4	1517.4	1526.9	1531.9	1526.9
130°	1105.3	1228.1	1362.3	1455.5	1530.6	1578.3	1603.4	1610.2	1621.6	1619.3	1621.6
132.5°	1176.3	1304.5	1440.5	1537.4	1607.0	1658.4	1679.8	1699.3	1703.4	1706.6	1703.4
135°	1280.4	1419.1	1555.6	1651.1	1717.1	1767.1	1794.4	1812.6	1824.0	1830.8	1824.0
137.5°	1390.0	1536.5	1667.5	1752.6	1819.0	1862.2	1893.1	1912.2	1924.0	1929.5	1924.0
140°	1464.6	1605.6	1733.0	1821.7	1880.8	1924.0	1951.3	1974.1	1987.7	1987.7	1987.7
142.5°	1535.6	1674.8	1798.5	1887.2	1939.0	1978.6	2007.7	2025.0	2040.5	2040.5	2040.5
145°	1635.2	1773.9	1887.6	1976.3	2019.6	2055.9	2087.8	2101.4	2110.5	2110.5	2110.5
147.5°	1739.4	1862.2	1965.9	2050.9	2087.3	2130.1	2155.1	2166.0	2177.4	2172.4	2177.4
150°	1801.2	1914.9	2015.0	2094.6	2131.0	2171.9	2196.9	2206.0	2217.4	2210.6	2217.4
152.5°	1861.3	1969.5	2060.5	2134.6	2165.6	2206.5	2235.2	2244.2	2252.0	2247.0	2252.0
155°	1942.2	2037.7	2121.9	2190.1	2217.4	2256.1	2283.4	2294.7	2303.8	2292.5	2303.8
157.5°	2014.5	2096.9	2170.1	2232.9	2262.0	2295.2	2320.7	2334.8	2343.9	2338.9	2343.9
160°	2058.2	2133.3	2199.2	2258.3	2285.6	2315.2	2342.5	2358.4	2367.5	2360.7	2367.5
162.5°	2094.6	2162.4	2224.7	2278.4	2302.0	2327.9	2360.7	2374.8	2383.9	2375.2	2383.9
165°	2146.9	2201.5	2256.1	2301.6	2322.0	2342.5	2376.6	2392.5	2399.4	2390.3	2399.4
167.5°	2186.5	2228.3	2272.5	2311.6	2326.6	2346.6	2380.7	2393.9	2402.5	2391.2	2402.5
170°	2208.3	2244.7	2283.4	2315.2	2326.6	2344.8	2378.9	2390.3	2397.1	2385.7	2397.1
172.5°	2226.5	2253.8	2285.2	2313.4	2319.3	2333.9	2366.2	2377.5	2382.5	2373.0	2382.5
175°	2244.7	2260.6	2283.4	2301.6	2299.3	2308.4	2335.7	2344.8	2353.9	2340.2	2353.9
177.5°	2253.3	2260.6	2267.9	2278.8	2271.5	2271.5	2291.6	2297.0	2298.8	2291.6	2298.8
180°	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	339.3	339.3	339.3	339.3	339.3	339.3	339.3	339.3	339.3	339.3	339.3
2.5°	385.8	378.8	370.7	363.2	356.2	349.4	343.0	336.6	343.0	349.4	356.2
5°	560.9	523.0	478.8	439.3	404.5	373.0	351.2	329.5	351.2	373.0	404.5
7.5°	940.4	842.1	723.5	609.1	498.9	405.2	361.0	316.7	361.0	405.2	498.9
10°	1110.9	1028.6	925.7	778.6	587.2	428.2	366.6	305.0	366.6	428.2	587.2
12.5°	1173.7	1114.3	1042.1	889.2	655.5	459.3	375.6	292.0	375.6	459.3	655.5
15°	1253.5	1203.7	1145.0	987.7	731.8	510.0	390.4	270.8	390.4	510.0	731.8
17.5°	1300.5	1253.7	1195.6	1042.2	793.6	567.3	408.1	248.9	408.1	567.3	793.6
20°	1308.5	1269.0	1218.9	1074.0	834.0	607.3	420.3	233.2	420.3	607.3	834.0
22.5°	1300.8	1270.3	1232.4	1097.0	864.0	637.0	427.9	218.9	427.9	637.0	864.0
25°	1286.7	1267.3	1243.4	1119.8	896.5	670.2	434.6	199.0	434.6	670.2	896.5
27.5°	1260.3	1247.1	1231.4	1116.1	901.1	677.6	428.7	179.7	428.7	677.6	901.1
30°	1240.0	1229.3	1217.7	1106.4	895.4	674.0	421.0	168.0	421.0	674.0	895.4
32.5°	1224.0	1211.4	1200.4	1091.5	884.6	665.9	411.7	157.6	411.7	665.9	884.6
35°	1213.3	1192.3	1174.9	1063.6	858.5	642.1	392.0	141.9	392.0	642.1	858.5
37.5°	1217.9	1182.9	1146.5	1025.3	819.1	604.9	366.7	128.5	366.7	604.9	819.1
40°	1216.8	1173.8	1125.2	997.3	790.0	577.4	349.0	120.7	349.0	577.4	790.0
42.5°	1203.7	1154.7	1098.0	965.1	756.0	545.2	329.0	112.9	329.0	545.2	756.0
45°	1177.2	1121.1	1054.4	914.1	700.3	491.3	297.0	102.8	297.0	491.3	700.3
47.5°	1139.7	1082.1	1011.4	864.2	640.7	430.8	262.1	93.3	262.1	430.8	640.7
50°	1106.2	1050.4	980.8	830.7	600.2	389.6	238.9	88.1	238.9	389.6	600.2
52.5°	1066.8	1014.3	948.8	797.5	560.6	349.6	216.2	82.9	216.2	349.6	560.6
55°	997.8	952.0	894.7	745.0	502.9	294.1	185.4	76.7	185.4	294.1	502.9
57.5°	921.6	882.6	833.8	689.1	448.8	246.5	158.8	71.1	158.8	246.5	448.8
60°	866.8	831.3	787.1	648.2	414.8	220.7	144.6	68.5	144.6	220.7	414.8
62.5°	809.3	776.5	735.7	603.9	380.9	197.1	130.8	64.6	130.8	197.1	380.9
65°	715.8	688.8	654.8	536.3	333.3	167.6	114.0	60.3	114.0	167.6	333.3
67.5°	600.1	587.0	565.8	466.7	289.7	145.5	100.0	54.5	100.0	145.5	289.7
70°	507.6	510.0	502.7	420.4	263.1	134.7	92.6	50.6	92.6	134.7	263.1
72.5°	387.1	413.8	429.8	369.8	234.0	122.8	85.4	48.0	85.4	122.8	234.0
75°	183.0	234.9	304.5	288.5	187.0	103.3	72.9	42.4	72.9	103.3	187.0
77.5°	140.6	167.9	204.7	192.6	131.6	80.1	57.3	34.6	57.3	80.1	131.6
80°	114.4	115.3	116.7	106.9	85.9	65.6	47.5	29.4	47.5	65.6	85.9
82.5°	83.9	83.1	81.6	75.0	63.3	51.1	37.6	24.1	37.6	51.1	63.3
85°	27.4	32.1	37.9	39.0	35.3	30.6	22.7	14.7	22.7	30.6	35.3
87.5°	16.1	15.6	15.6	16.3	17.3	16.5	11.3	6.6	11.3	16.0	18.2
90°	47.8	45.5	45.5	43.2	36.4	27.3	15.9	6.8	15.9	25.0	40.9
92.5°	56.9	56.4	52.8	48.7	40.0	40.0	39.6	25.0	43.2	61.4	88.2
95°	52.3	52.3	61.4	77.3	113.7	116.0	77.3	70.5	100.1	141.0	177.4
97.5°	141.5	168.3	206.5	213.8	202.4	151.0	144.6	134.6	183.3	223.8	282.5
100°	261.5	295.7	322.9	268.4	211.5	209.2	195.6	191.0	243.3	282.0	338.9
102.5°	408.9	419.4	324.8	293.8	280.6	271.1	250.2	247.4	299.7	353.0	400.7
105°	443.5	398.0	400.3	400.3	391.2	373.0	334.3	332.0	391.2	452.6	511.7
107.5°	521.7	528.5	540.4	537.6	527.2	478.5	433.0	422.6	475.8	549.5	614.5
110°	625.4	632.2	636.8	632.2	616.3	554.9	500.3	484.4	532.2	609.5	680.0



TEST NUMBER: P1436033

CATALOG NUMBER: SQ2W-FB-K-150U-075D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	725.5	730.5	740.5	726.9	700.0	629.5	567.7	544.5	592.2	671.4	743.7
115°	884.7	884.7	887.0	880.1	825.6	752.8	670.9	636.8	677.7	750.5	830.1
117.5°	1041.2	1043.9	1034.8	1016.6	953.4	868.8	776.9	722.3	754.6	831.5	913.3
120°	1139.4	1144.0	1134.9	1107.6	1046.2	950.6	846.0	782.3	807.4	882.4	964.3
122.5°	1241.3	1240.4	1229.5	1198.5	1126.2	1027.1	924.3	846.0	856.5	926.1	1006.1
125°	1382.8	1380.5	1371.4	1335.0	1259.9	1157.6	1037.1	941.5	927.9	987.0	1068.9
127.5°	1517.4	1512.4	1498.3	1454.2	1377.3	1278.6	1146.2	1038.0	1007.5	1044.8	1119.9
130°	1610.2	1603.4	1578.3	1530.6	1455.5	1362.3	1228.1	1105.3	1062.1	1084.8	1150.8
132.5°	1699.3	1679.8	1658.4	1607.0	1537.4	1440.5	1304.5	1176.3	1116.7	1126.7	1178.1
135°	1812.6	1794.4	1767.1	1717.1	1651.1	1555.6	1419.1	1280.4	1198.5	1189.4	1219.0
137.5°	1912.2	1893.1	1862.2	1819.0	1752.6	1667.5	1536.5	1390.0	1286.8	1256.3	1267.7
140°	1974.1	1951.3	1924.0	1880.8	1821.7	1733.0	1605.6	1464.6	1348.6	1305.4	1298.6
142.5°	2025.0	2007.7	1978.6	1939.0	1887.2	1798.5	1674.8	1535.6	1412.3	1356.4	1340.5
145°	2101.4	2087.8	2055.9	2019.6	1976.3	1887.6	1773.9	1635.2	1512.4	1439.6	1405.5
147.5°	2166.0	2155.1	2130.1	2087.3	2050.9	1965.9	1862.2	1739.4	1613.4	1523.3	1479.2
150°	2206.0	2196.9	2171.9	2131.0	2094.6	2015.0	1914.9	1801.2	1680.7	1585.2	1528.3
152.5°	2244.2	2235.2	2206.5	2165.6	2134.6	2060.5	1969.5	1861.3	1738.9	1643.4	1584.7
155°	2294.7	2283.4	2256.1	2217.4	2190.1	2121.9	2037.7	1942.2	1837.6	1737.5	1671.6
157.5°	2334.8	2320.7	2295.2	2262.0	2232.9	2170.1	2096.9	2014.5	1923.1	1827.6	1760.3
160°	2358.4	2342.5	2315.2	2285.6	2258.3	2199.2	2133.3	2058.2	1974.1	1887.6	1814.9
162.5°	2374.8	2360.7	2327.9	2302.0	2278.4	2224.7	2162.4	2094.6	2019.6	1944.0	1876.7
165°	2392.5	2376.6	2342.5	2322.0	2301.6	2256.1	2201.5	2146.9	2083.2	2021.8	1967.2
167.5°	2393.9	2380.7	2346.6	2326.6	2311.6	2272.5	2228.3	2186.5	2136.9	2088.7	2043.2
170°	2390.3	2378.9	2344.8	2326.6	2315.2	2283.4	2244.7	2208.3	2169.7	2128.7	2092.3
172.5°	2377.5	2366.2	2333.9	2319.3	2313.4	2285.2	2253.8	2226.5	2193.3	2163.3	2134.2
175°	2344.8	2335.7	2308.4	2299.3	2301.6	2283.4	2260.6	2244.7	2224.2	2206.0	2190.1
177.5°	2297.0	2291.6	2271.5	2271.5	2278.8	2267.9	2260.6	2253.3	2244.2	2238.8	2233.3
180°	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5



TEST NUMBER: P1436033

CATALOG NUMBER: SQ2W-FB-K-150U-075D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	339.3	339.3	339.3	339.3	339.3	339.3	339.3	339.3	339.3	339.3	339.3
2.5°	363.2	370.7	378.8	385.8	389.3	392.8	389.3	385.8	378.8	370.7	363.2
5°	439.3	478.8	523.0	560.9	579.7	598.6	579.7	560.9	523.0	478.8	439.3
7.5°	609.1	723.5	842.1	940.4	978.1	1015.8	978.1	940.4	842.1	723.5	609.1
10°	778.6	925.7	1028.6	1110.9	1131.2	1151.5	1131.2	1110.9	1028.6	925.7	778.6
12.5°	889.2	1042.1	1114.3	1173.7	1194.6	1215.5	1194.6	1173.7	1114.3	1042.1	889.2
15°	987.7	1145.0	1203.7	1253.5	1276.7	1299.9	1276.7	1253.5	1203.7	1145.0	987.7
17.5°	1042.2	1195.6	1253.7	1300.5	1313.1	1325.7	1313.1	1300.5	1253.7	1195.6	1042.2
20°	1074.0	1218.9	1269.0	1308.5	1316.4	1324.4	1316.4	1308.5	1269.0	1218.9	1074.0
22.5°	1097.0	1232.4	1270.3	1300.8	1309.3	1317.9	1309.3	1300.8	1270.3	1232.4	1097.0
25°	1119.8	1243.4	1267.3	1286.7	1292.5	1298.3	1292.5	1286.7	1267.3	1243.4	1119.8
27.5°	1116.1	1231.4	1247.1	1260.3	1265.9	1271.6	1265.9	1260.3	1247.1	1231.4	1116.1
30°	1106.4	1217.7	1229.3	1240.0	1247.9	1255.9	1247.9	1240.0	1229.3	1217.7	1106.4
32.5°	1091.5	1200.4	1211.4	1224.0	1241.3	1258.5	1241.3	1224.0	1211.4	1200.4	1091.5
35°	1063.6	1174.9	1192.3	1213.3	1245.2	1277.1	1245.2	1213.3	1192.3	1174.9	1063.6
37.5°	1025.3	1146.5	1182.9	1217.9	1248.7	1279.4	1248.7	1217.9	1182.9	1146.5	1025.3
40°	997.3	1125.2	1173.8	1216.8	1242.9	1269.0	1242.9	1216.8	1173.8	1125.2	997.3
42.5°	965.1	1098.0	1154.7	1203.7	1229.8	1255.9	1229.8	1203.7	1154.7	1098.0	965.1
45°	914.1	1054.4	1121.1	1177.2	1201.9	1226.5	1201.9	1177.2	1121.1	1054.4	914.1
47.5°	864.2	1011.4	1082.1	1139.7	1157.7	1175.7	1157.7	1139.7	1082.1	1011.4	864.2
50°	830.7	980.8	1050.4	1106.2	1120.7	1135.2	1120.7	1106.2	1050.4	980.8	830.7
52.5°	797.5	948.8	1014.3	1066.8	1080.1	1093.5	1080.1	1066.8	1014.3	948.8	797.5
55°	745.0	894.7	952.0	997.8	1009.4	1021.0	1009.4	997.8	952.0	894.7	745.0
57.5°	689.1	833.8	882.6	921.6	931.0	940.5	931.0	921.6	882.6	833.8	689.1
60°	648.2	787.1	831.3	866.8	876.2	885.7	876.2	866.8	831.3	787.1	648.2
62.5°	603.9	735.7	776.5	809.3	818.1	826.9	818.1	809.3	776.5	735.7	603.9
65°	536.3	654.8	688.8	715.8	721.6	727.4	721.6	715.8	688.8	654.8	536.3
67.5°	466.7	565.8	587.0	600.1	589.2	578.4	589.2	600.1	587.0	565.8	466.7
70°	420.4	502.7	510.0	507.6	476.4	445.3	476.4	507.6	510.0	502.7	420.4
72.5°	369.8	429.8	413.8	387.1	328.1	269.1	328.1	413.8	429.8	429.8	369.8
75°	288.5	304.5	234.9	183.0	184.5	185.9	184.5	234.9	304.5	304.5	288.5
77.5°	192.6	204.7	167.9	140.6	141.9	143.2	141.9	167.9	204.7	204.7	192.6
80°	106.9	116.7	115.3	114.4	115.1	115.8	115.1	114.4	115.3	116.7	106.9
82.5°	75.0	81.6	83.1	83.9	82.9	81.9	82.9	83.9	83.1	81.6	75.0
85°	39.0	37.9	32.1	27.4	25.9	24.5	25.9	27.4	32.1	37.9	39.0
87.5°	18.1	20.2	23.4	25.2	27.0	26.1	27.0	25.2	23.4	20.2	18.1
90°	52.3	68.2	84.1	93.2	102.3	97.8	102.3	93.2	84.1	68.2	52.3
92.5°	105.1	131.9	151.5	167.8	175.1	174.2	175.1	167.8	151.5	131.9	105.1
95°	211.5	243.3	275.2	297.9	311.6	307.0	311.6	297.9	275.2	243.3	211.5
97.5°	326.1	368.9	404.4	425.7	439.4	448.5	439.4	425.7	404.4	368.9	326.1
100°	402.5	443.5	484.4	509.4	532.2	541.3	532.2	509.4	484.4	443.5	402.5
102.5°	464.4	518.1	562.7	589.5	608.6	617.7	608.6	589.5	562.7	518.1	464.4
105°	566.3	623.1	670.9	705.0	725.5	732.3	725.5	705.0	670.9	623.1	566.3
107.5°	668.2	726.9	771.0	808.7	833.7	848.3	833.7	808.7	771.0	726.9	668.2
110°	748.2	796.0	843.8	877.9	902.9	912.0	902.9	877.9	843.8	796.0	748.2



TEST NUMBER: P1436033

CATALOG NUMBER: SQ2W-FB-K-150U-075D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	815.6	868.8	916.5	950.6	979.3	992.0	979.3	950.6	916.5	868.8	815.6
115°	909.7	980.2	1023.4	1055.3	1075.7	1087.1	1075.7	1055.3	1023.4	980.2	909.7
117.5°	987.9	1061.6	1108.9	1133.5	1143.0	1151.2	1143.0	1133.5	1108.9	1061.6	987.9
120°	1037.1	1105.3	1159.9	1191.7	1203.1	1207.6	1203.1	1191.7	1159.9	1105.3	1037.1
122.5°	1082.6	1147.1	1199.9	1239.0	1257.7	1262.2	1257.7	1239.0	1199.9	1147.1	1082.6
125°	1146.2	1207.6	1262.2	1300.9	1321.4	1332.7	1321.4	1300.9	1262.2	1207.6	1146.2
127.5°	1201.7	1268.1	1318.2	1353.2	1373.2	1382.3	1373.2	1353.2	1318.2	1268.1	1201.7
130°	1232.7	1300.9	1350.9	1389.6	1407.8	1416.9	1407.8	1389.6	1350.9	1300.9	1232.7
132.5°	1256.3	1328.2	1380.0	1415.1	1435.1	1444.2	1435.1	1415.1	1380.0	1328.2	1256.3
135°	1285.0	1360.0	1414.6	1448.7	1466.9	1476.0	1466.9	1448.7	1414.6	1360.0	1285.0
137.5°	1310.0	1378.2	1435.1	1471.0	1487.4	1493.3	1487.4	1471.0	1435.1	1378.2	1310.0
140°	1328.2	1387.3	1444.2	1478.3	1496.5	1498.7	1496.5	1478.3	1444.2	1387.3	1328.2
142.5°	1351.8	1398.2	1447.8	1481.9	1500.1	1504.2	1500.1	1481.9	1447.8	1398.2	1351.8
145°	1394.1	1421.4	1455.5	1487.4	1503.3	1507.8	1503.3	1487.4	1455.5	1421.4	1394.1
147.5°	1447.3	1456.0	1473.7	1494.6	1510.1	1513.3	1510.1	1494.6	1473.7	1456.0	1447.3
150°	1487.4	1485.1	1491.9	1505.6	1519.2	1516.9	1519.2	1505.6	1491.9	1485.1	1487.4
152.5°	1532.9	1519.7	1519.2	1525.6	1531.9	1531.5	1531.9	1525.6	1519.2	1519.7	1532.9
155°	1610.2	1585.2	1571.5	1567.0	1567.0	1564.7	1567.0	1567.0	1571.5	1585.2	1610.2
157.5°	1695.2	1660.2	1639.7	1628.8	1625.6	1620.6	1625.6	1628.8	1639.7	1660.2	1695.2
160°	1753.5	1714.8	1694.3	1676.1	1669.3	1662.5	1669.3	1676.1	1694.3	1714.8	1753.5
162.5°	1808.0	1771.2	1748.9	1732.5	1725.7	1715.3	1725.7	1732.5	1748.9	1771.2	1808.0
165°	1896.7	1858.1	1833.1	1819.4	1810.3	1801.2	1810.3	1819.4	1833.1	1858.1	1896.7
167.5°	1985.4	1943.1	1926.8	1911.3	1902.7	1886.3	1902.7	1911.3	1926.8	1943.1	1985.4
170°	2040.0	2001.4	1992.3	1978.6	1962.7	1944.5	1962.7	1978.6	1992.3	2001.4	2040.0
172.5°	2087.3	2061.4	2052.3	2038.7	2033.7	2019.1	2033.7	2038.7	2052.3	2061.4	2087.3
175°	2156.0	2135.5	2135.5	2133.3	2126.4	2112.8	2126.4	2133.3	2135.5	2135.5	2156.0
177.5°	2213.3	2202.4	2209.7	2209.7	2207.9	2195.1	2207.9	2209.7	2209.7	2202.4	2213.3
180°	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5	2251.5



TEST NUMBER: P1436033

CATALOG NUMBER: SQ2W-FB-K-150U-075D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	339.3	339.3	339.3	339.3
2.5°	356.2	349.4	343.0	336.6
5°	404.5	373.0	351.2	329.5
7.5°	498.9	405.2	361.0	316.7
10°	587.2	428.2	366.6	305.0
12.5°	655.5	459.3	375.6	292.0
15°	731.8	510.0	390.4	270.8
17.5°	793.6	567.3	408.1	248.9
20°	834.0	607.3	420.3	233.2
22.5°	864.0	637.0	427.9	218.9
25°	896.5	670.2	434.6	199.0
27.5°	901.1	677.6	428.7	179.7
30°	895.4	674.0	421.0	168.0
32.5°	884.6	665.9	411.7	157.6
35°	858.5	642.1	392.0	141.9
37.5°	819.1	604.9	366.7	128.5
40°	790.0	577.4	349.0	120.7
42.5°	756.0	545.2	329.0	112.9
45°	700.3	491.3	297.0	102.8
47.5°	640.7	430.8	262.1	93.3
50°	600.2	389.6	238.9	88.1
52.5°	560.6	349.6	216.2	82.9
55°	502.9	294.1	185.4	76.7
57.5°	448.8	246.5	158.8	71.1
60°	414.8	220.7	144.6	68.5
62.5°	380.9	197.1	130.8	64.6
65°	333.3	167.6	114.0	60.3
67.5°	289.7	145.5	100.0	54.5
70°	263.1	134.7	92.6	50.6
72.5°	234.0	122.8	85.4	48.0
75°	187.0	103.3	72.9	42.4
77.5°	131.6	80.1	57.3	34.6
80°	85.9	65.6	47.5	29.4
82.5°	63.3	51.1	37.6	24.1
85°	35.3	30.6	22.7	14.7
87.5°	18.2	16.0	11.3	6.6
90°	40.9	25.0	15.9	6.8
92.5°	88.2	61.4	43.2	25.0
95°	177.4	141.0	100.1	70.5
97.5°	282.5	223.8	183.3	134.6
100°	338.9	282.0	243.3	191.0
102.5°	400.7	353.0	299.7	247.4
105°	511.7	452.6	391.2	332.0
107.5°	614.5	549.5	475.8	422.6
110°	680.0	609.5	532.2	484.4



TEST NUMBER: P1436033

CATALOG NUMBER: SQ2W-FB-K-150U-075D-L830-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	743.7	671.4	592.2	544.5
115°	830.1	750.5	677.7	636.8
117.5°	913.3	831.5	754.6	722.3
120°	964.3	882.4	807.4	782.3
122.5°	1006.1	926.1	856.5	846.0
125°	1068.9	987.0	927.9	941.5
127.5°	1119.9	1044.8	1007.5	1038.0
130°	1150.8	1084.8	1062.1	1105.3
132.5°	1178.1	1126.7	1116.7	1176.3
135°	1219.0	1189.4	1198.5	1280.4
137.5°	1267.7	1256.3	1286.8	1390.0
140°	1298.6	1305.4	1348.6	1464.6
142.5°	1340.5	1356.4	1412.3	1535.6
145°	1405.5	1439.6	1512.4	1635.2
147.5°	1479.2	1523.3	1613.4	1739.4
150°	1528.3	1585.2	1680.7	1801.2
152.5°	1584.7	1643.4	1738.9	1861.3
155°	1671.6	1737.5	1837.6	1942.2
157.5°	1760.3	1827.6	1923.1	2014.5
160°	1814.9	1887.6	1974.1	2058.2
162.5°	1876.7	1944.0	2019.6	2094.6
165°	1967.2	2021.8	2083.2	2146.9
167.5°	2043.2	2088.7	2136.9	2186.5
170°	2092.3	2128.7	2169.7	2208.3
172.5°	2134.2	2163.3	2193.3	2226.5
175°	2190.1	2206.0	2224.2	2244.7
177.5°	2233.3	2238.8	2244.2	2253.3
180°	2251.5	2251.5	2251.5	2251.5

TEST NUMBER: P1436033  
 CATALOG NUMBER: SQ2W-FB-K-150U-075D-L830-UNV-STD-W-WM-4

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	10.37	11.12	11.45	12.21	13.69	19.97	20.72	21.05	21.80	23.29
	3H	11.30	11.98	12.39	13.07	14.57	21.57	22.24	22.66	23.33	24.83
	4H	11.70	12.33	12.80	13.43	14.93	21.74	22.38	22.84	23.47	24.98
	6H	11.95	12.53	13.05	13.63	15.15	21.81	22.40	22.92	23.49	25.01
	8H	12.03	12.59	13.15	13.70	15.22	21.82	22.38	22.94	23.49	25.01
	12H	12.08	12.61	13.20	13.72	15.25	21.80	22.33	22.92	23.43	24.97
4H	2H	15.08	15.72	16.19	16.81	18.32	20.32	20.96	21.43	22.05	23.56
	3H	16.20	16.73	17.31	17.85	19.37	22.20	22.73	23.31	23.85	25.37
	4H	16.47	16.96	17.59	18.07	19.61	22.42	22.90	23.53	24.01	25.55
	6H	16.60	17.02	17.73	18.15	19.68	22.54	22.96	23.67	24.09	25.62
	8H	16.64	17.03	17.77	18.15	19.70	22.58	22.97	23.71	24.10	25.65
	12H	16.64	16.99	17.78	18.13	19.68	22.56	22.91	23.70	24.05	25.60
8H	4H	17.66	18.05	18.78	19.17	20.72	22.50	22.89	23.62	24.01	25.56
	6H	17.91	18.23	19.06	19.40	20.94	22.69	23.01	23.84	24.18	25.72
	8H	18.01	18.29	19.16	19.43	21.00	22.78	23.06	23.93	24.20	25.77
	12H	18.04	18.29	19.20	19.43	21.03	22.78	23.02	23.94	24.17	25.77
12H	4H	17.68	18.03	18.82	19.17	20.72	22.44	22.80	23.59	23.93	25.49
	6H	18.02	18.30	19.17	19.44	21.01	22.67	22.95	23.82	24.10	25.66
	8H	18.15	18.39	19.31	19.54	21.14	22.76	23.01	23.92	24.15	25.76