

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: P1428634

Luminaire Tested: SQ2W-WBN-K-100U-125D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428634  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G3-2308-130-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-WBN-K-100U-125D-L940-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - WHITE DISCREET BAFFLE, NARROW 35-DEGREE OPTIC  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

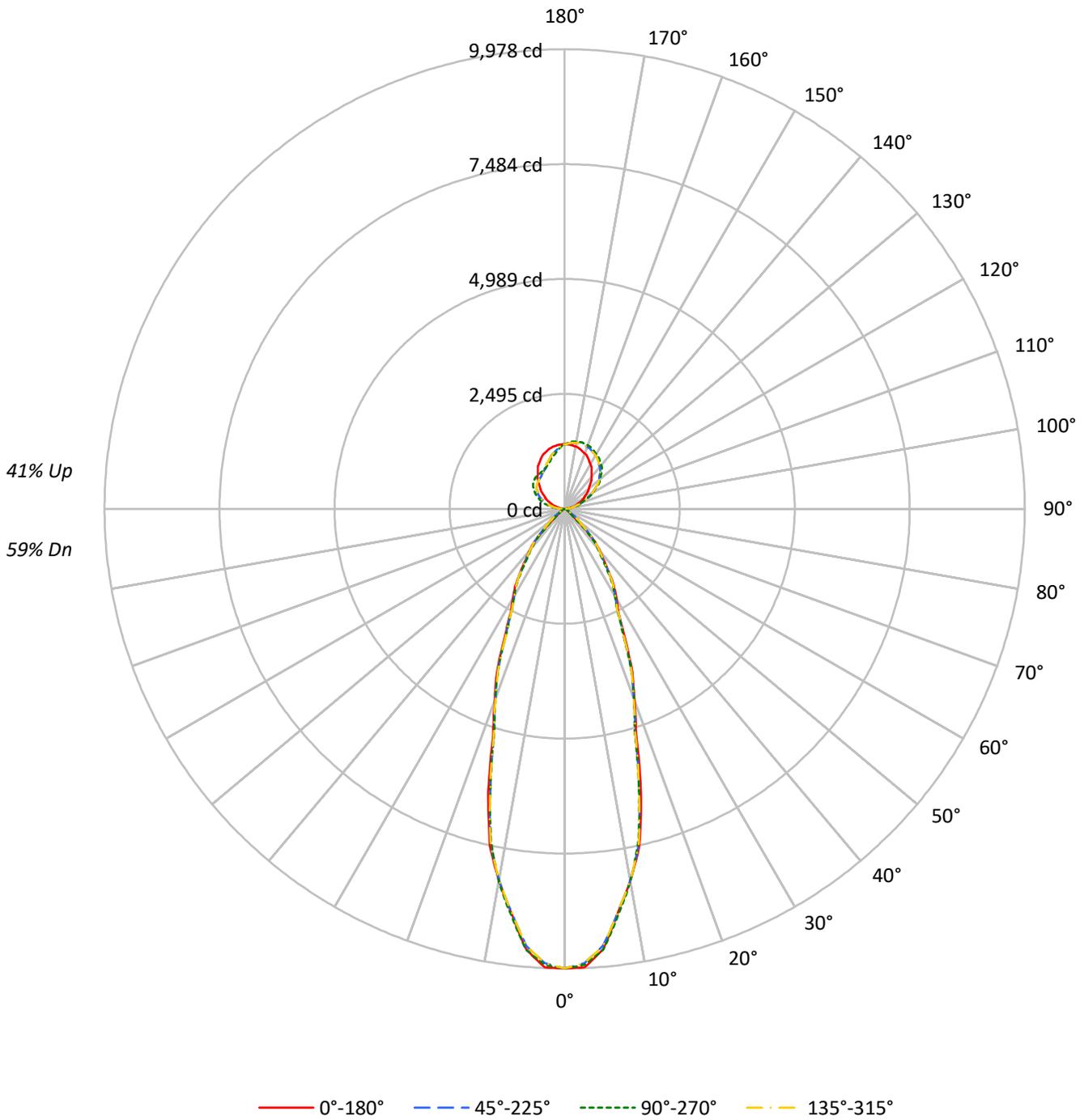
Lumens per Lamp: N/A  
Luminaire Lumens: 9889.4 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.58 / 0.63  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 82.9  
Input Voltage (V): 120  
Input Current (Ain): 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

TEST NUMBER: P1428634

CATALOG NUMBER: SQ2W-WBN-K-100U-125D-L940-UNV-STD-W-WM-4

### Luminous Intensity Polar Plot





TEST NUMBER: P1428634

CATALOG NUMBER: SQ2W-WBN-K-100U-125D-L940-UNV-STD-W-WM-4

**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	50	30	10	0	
RCR																						
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59				
1	102	99	96	93	96	93	90	88	81	79	78	70	69	68	61	60	59	55				
2	96	90	85	81	90	85	81	77	75	72	69	66	64	62	57	56	55	51				
3	90	82	77	72	84	78	73	69	69	66	63	61	59	56	54	52	51	47				
4	84	76	69	65	79	72	66	62	64	60	57	57	54	52	51	49	47	44				
5	79	70	63	58	74	66	60	56	60	55	52	54	50	48	48	46	44	41				
6	74	64	58	53	70	61	56	51	56	51	48	50	47	44	45	43	41	39				
7	70	60	53	49	66	57	51	47	52	48	44	47	44	41	43	40	38	36				
8	66	56	50	45	63	54	48	44	49	45	41	45	41	39	41	38	36	34				
9	63	52	46	42	59	50	45	41	46	42	39	42	39	36	39	36	34	32				
10	59	49	43	39	56	47	42	38	44	39	36	40	37	34	37	34	32	31				

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

	0°	90°	180°	270°
0°	161097	161097	161097	161097
5°	155544	155716	155544	155716
10°	134446	134765	134446	134765
15°	106985	104026	106985	104026
20°	76002	75545	76002	75545
25°	54678	53227	54678	53227
30°	41778	40557	41778	40557
35°	32794	31398	32794	31398
40°	24847	23317	24847	23317
45°	13903	12408	13903	12408
50°	4890	4313	4890	4313
55°	2989	2840	2989	2840
60°	2286	2115	2286	2115
65°	2097	1960	2097	1960
70°	2006	1836	2006	1836
75°	1878	1765	1878	1765
80°	1646	1646	1646	1646
85°	1649	1315	1649	1315

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 40°  
 Vertical Angle: 45°  
 Luminance: 16486 cd/sqm



TEST NUMBER: P1428634

CATALOG NUMBER: SQ2W-WBN-K-100U-125D-L940-UNV-STD-W-WM-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	866.1	8.8
10°-20°	1721.4	17.4
20°-30°	1425.6	14.4
30°-40°	1025.5	10.4
40°-50°	522.4	5.3
50°-60°	135.8	1.4
60°-70°	56.4	0.6
70°-80°	31.3	0.3
80°-90°	15.1	0.2
90°-100°	111.5	1.1
100°-110°	325.1	3.3
110°-120°	530.5	5.4
120°-130°	673.2	6.8
130°-140°	720.3	7.3
140°-150°	672.6	6.8
150°-160°	553.5	5.6
160°-170°	371.2	3.8
170°-180°	131.8	1.3
0°-30°	4013.1	40.6
0°-40°	5038.6	51.0
0°-60°	5696.9	57.6
0°-90°	5799.7	58.6
90°-120°	967.1	9.8
90°-150°	3033.2	30.7
90°-180°	4090.0	41.4
0°-180°	9889.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	9978	9978	9978	9978	9978	
5°	9597	9608	9597	9608	9597	866
15°	6400	6224	6400	6224	6400	1737
25°	3069	2988	3069	2988	3069	1444
35°	1664	1593	1664	1593	1664	1044
45°	609	543	609	543	609	487
55°	106	101	106	101	106	104
65°	55	51	55	51	55	55
75°	30	28	30	28	30	32
85°	9	7	9	7	9	9
90°	4	31	4	61	4	4
95°	44	32	44	191	44	53
105°	207	331	207	456	207	220
115°	396	549	396	676	396	390
125°	586	870	586	829	586	524
135°	796	1139	796	918	796	616
145°	1017	1313	1017	938	1017	636
155°	1208	1426	1208	973	1208	555
165°	1336	1487	1336	1120	1336	376
175°	1396	1456	1396	1314	1396	132
180°	1401	1401	1401	1401	1401	



TEST NUMBER: P1428634

CATALOG NUMBER: SQ2W-WBN-K-100U-125D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	9977.8	9977.8	9977.8	9977.8	9977.8	9977.8	9977.8	9977.8	9977.8	9977.8	9977.8
2.5°	9962.2	9954.6	9947.1	9913.6	9871.4	9868.0	9903.2	9927.4	9918.6	9909.8	9918.6
5°	9597.2	9590.9	9584.6	9555.9	9519.7	9532.3	9593.7	9636.2	9622.0	9607.8	9622.0
7.5°	8843.5	8848.9	8854.2	8839.5	8818.1	8834.6	8888.8	8925.8	8910.7	8895.6	8910.7
10°	8200.6	8214.8	8229.0	8208.9	8177.4	8201.4	8280.9	8327.1	8273.6	8220.1	8273.6
12.5°	7491.2	7482.1	7473.0	7454.6	7433.2	7428.9	7441.6	7443.8	7414.2	7384.7	7414.2
15°	6400.5	6367.5	6334.4	6283.7	6227.0	6208.6	6228.2	6240.8	6232.2	6223.5	6232.2
17.5°	5155.5	5168.2	5180.9	5146.6	5096.6	5070.6	5068.7	5064.9	5055.1	5045.4	5055.1
20°	4423.4	4427.3	4431.2	4409.8	4379.9	4372.8	4388.5	4400.0	4398.4	4396.8	4398.4
22.5°	3834.3	3835.1	3835.9	3807.5	3769.4	3762.0	3785.3	3799.2	3785.1	3770.9	3785.1
25°	3069.3	3066.9	3064.5	3045.7	3021.3	3003.2	2991.4	2983.1	2985.5	2987.8	2985.5
27.5°	2517.0	2507.3	2497.5	2481.4	2463.1	2457.9	2465.8	2470.2	2464.4	2458.6	2464.4
30°	2240.9	2233.0	2225.2	2209.0	2190.1	2183.1	2187.8	2189.6	2182.5	2175.4	2182.5
32.5°	1993.1	1993.4	1993.7	1979.2	1959.6	1948.8	1946.6	1943.6	1938.4	1933.2	1938.4
35°	1663.8	1668.6	1673.3	1661.5	1644.2	1629.6	1617.8	1607.2	1600.1	1593.0	1600.1
37.5°	1370.0	1374.4	1378.8	1369.0	1354.3	1338.4	1321.0	1306.6	1300.6	1294.6	1300.6
40°	1178.9	1182.0	1185.1	1178.3	1168.0	1152.7	1132.2	1115.7	1111.0	1106.3	1111.0
42.5°	970.7	983.9	997.1	992.8	982.5	967.8	948.6	931.6	921.3	910.9	921.3
45°	608.9	650.6	692.3	711.0	722.0	716.9	695.6	664.6	604.0	543.4	604.0
47.5°	308.0	365.7	423.5	464.9	501.0	489.5	430.5	371.4	311.9	252.4	311.9
50°	194.7	234.8	274.9	325.7	380.0	368.2	290.3	225.2	198.4	171.7	198.4
52.5°	149.4	170.0	190.6	238.8	296.3	290.8	222.3	167.3	152.5	137.7	152.5
55°	106.2	114.1	121.9	148.7	181.7	179.8	142.8	113.5	107.2	100.9	107.2
57.5°	82.1	86.5	90.9	100.9	112.7	111.6	97.6	86.1	82.2	78.2	82.2
60°	70.8	73.9	77.1	82.0	87.5	86.7	79.7	73.4	69.4	65.5	69.4
62.5°	63.7	65.6	67.5	69.7	72.1	71.0	66.4	62.7	61.2	59.8	61.2
65°	54.9	55.7	56.4	56.6	56.6	55.9	54.3	52.9	52.1	51.3	52.1
67.5°	46.7	47.5	48.3	48.4	48.2	47.8	47.0	46.2	45.4	44.6	45.4
70°	42.5	43.3	44.1	43.7	42.9	42.1	41.3	40.5	39.7	38.9	39.7
72.5°	36.8	37.6	38.4	38.0	37.2	36.7	36.6	36.3	35.5	34.7	35.5
75°	30.1	30.1	30.1	30.1	30.1	29.7	28.9	28.3	28.3	28.3	28.3
77.5°	23.4	23.5	23.7	23.1	22.3	21.9	21.9	21.8	21.2	20.5	21.2
80°	17.7	18.5	19.3	18.9	18.1	17.7	17.7	17.7	17.7	17.7	17.7
82.5°	14.9	15.0	15.2	14.6	13.8	13.5	13.5	13.5	13.5	13.5	13.5
85°	8.9	8.9	8.9	8.3	7.5	7.5	8.3	8.7	7.9	7.1	7.9
87.5°	3.7	4.8	6.2	7.4	8.2	8.5	8.5	8.8	9.1	9.1	9.1
90°	4.2	9.9	17.0	22.6	26.9	28.3	28.3	29.7	31.1	31.1	31.1
92.5°	15.6	24.6	24.9	24.9	30.3	32.8	35.1	35.4	36.8	36.8	36.8
95°	43.9	48.1	72.2	70.7	48.1	38.2	32.5	32.5	32.5	32.5	32.5
97.5°	83.8	90.0	93.9	125.9	133.0	128.5	104.7	88.0	78.7	74.4	78.7
100°	118.8	121.7	130.2	131.6	166.9	200.9	183.9	162.7	155.6	151.4	155.6
102.5°	153.9	155.6	168.6	174.6	182.8	202.0	260.9	254.4	249.6	248.7	249.6
105°	206.6	208.0	232.0	243.3	249.0	249.0	247.6	275.9	321.2	331.1	321.2
107.5°	262.9	269.4	297.7	328.0	334.5	336.2	328.8	324.6	322.9	324.0	322.9
110°	301.4	311.3	345.2	383.4	393.3	396.1	393.3	389.1	386.2	386.2	386.2



TEST NUMBER: P1428634

CATALOG NUMBER: SQ2W-WBN-K-100U-125D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	338.7	353.1	391.6	435.5	452.2	460.7	454.4	451.3	448.5	450.8	448.5
115°	396.1	417.4	468.3	513.6	547.5	551.8	550.4	550.4	548.9	548.9	548.9
117.5°	449.3	483.3	540.5	593.1	632.4	643.7	649.4	647.7	646.0	648.8	646.0
120°	486.7	526.3	591.4	650.8	689.0	706.0	711.6	708.8	711.6	708.8	711.6
122.5°	526.3	575.0	638.9	700.6	745.6	764.8	771.6	772.2	772.8	771.1	772.8
125°	585.7	645.2	720.1	783.8	830.5	853.1	858.8	860.2	863.0	870.1	863.0
127.5°	645.7	713.1	795.4	856.8	904.6	932.1	940.8	944.0	949.9	953.0	949.9
130°	687.6	764.0	847.5	905.5	952.2	981.9	997.4	1001.7	1008.8	1007.3	1008.8
132.5°	731.7	811.5	896.1	956.4	999.7	1031.7	1045.0	1057.1	1059.7	1061.7	1059.7
135°	796.5	882.8	967.7	1027.2	1068.2	1099.3	1116.3	1127.6	1134.7	1138.9	1134.7
137.5°	864.7	955.8	1037.3	1090.3	1131.6	1158.4	1177.7	1189.6	1196.9	1200.3	1196.9
140°	911.1	998.9	1078.1	1133.3	1170.0	1196.9	1213.9	1228.1	1236.5	1236.5	1236.5
142.5°	955.3	1041.9	1118.8	1174.0	1206.3	1230.9	1249.0	1259.7	1269.4	1269.4	1269.4
145°	1017.2	1103.6	1174.3	1229.5	1256.4	1279.0	1298.8	1307.3	1312.9	1312.9	1312.9
147.5°	1082.0	1158.4	1223.0	1275.9	1298.5	1325.1	1340.7	1347.5	1354.5	1351.4	1354.5
150°	1120.5	1191.3	1253.5	1303.0	1325.7	1351.1	1366.7	1372.4	1379.4	1375.2	1379.4
152.5°	1157.9	1225.2	1281.8	1327.9	1347.2	1372.6	1390.5	1396.1	1400.9	1397.8	1400.9
155°	1208.2	1267.7	1320.0	1362.5	1379.4	1403.5	1420.5	1427.5	1433.2	1426.1	1433.2
157.5°	1253.2	1304.5	1350.0	1389.1	1407.2	1427.8	1443.7	1452.4	1458.1	1455.0	1458.1
160°	1280.4	1327.1	1368.1	1404.9	1421.9	1440.3	1457.3	1467.2	1472.8	1468.6	1472.8
162.5°	1303.0	1345.2	1384.0	1417.4	1432.1	1448.2	1468.6	1477.3	1483.0	1477.6	1483.0
165°	1335.6	1369.5	1403.5	1431.8	1444.5	1457.3	1478.5	1488.4	1492.6	1487.0	1492.6
167.5°	1360.2	1386.2	1413.7	1438.0	1447.4	1459.8	1481.0	1489.2	1494.6	1487.5	1494.6
170°	1373.8	1396.4	1420.5	1440.3	1447.4	1458.7	1479.9	1487.0	1491.2	1484.1	1491.2
172.5°	1385.1	1402.1	1421.6	1439.1	1442.8	1451.9	1472.0	1479.0	1482.2	1476.2	1482.2
175°	1396.4	1406.3	1420.5	1431.8	1430.4	1436.0	1453.0	1458.7	1464.3	1455.8	1464.3
177.5°	1401.8	1406.3	1410.8	1417.6	1413.1	1413.1	1425.6	1429.0	1430.1	1425.6	1430.1
180°	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7



TEST NUMBER: P1428634

CATALOG NUMBER: SQ2W-WBN-K-100U-125D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	9977.8	9977.8	9977.8	9977.8	9977.8	9977.8	9977.8	9977.8	9977.8	9977.8	9977.8
2.5°	9927.4	9903.2	9868.0	9871.4	9913.6	9947.1	9954.6	9962.2	9954.6	9947.1	9913.6
5°	9636.2	9593.7	9532.3	9519.7	9555.9	9584.6	9590.9	9597.2	9590.9	9584.6	9555.9
7.5°	8925.8	8888.8	8834.6	8818.1	8839.5	8854.2	8848.9	8843.5	8848.9	8854.2	8839.5
10°	8327.1	8280.9	8201.4	8177.4	8208.9	8229.0	8214.8	8200.6	8214.8	8229.0	8208.9
12.5°	7443.8	7441.6	7428.9	7433.2	7454.6	7473.0	7482.1	7491.2	7482.1	7473.0	7454.6
15°	6240.8	6228.2	6208.6	6227.0	6283.7	6334.4	6367.5	6400.5	6367.5	6334.4	6283.7
17.5°	5064.9	5068.7	5070.6	5096.6	5146.6	5180.9	5168.2	5155.5	5168.2	5180.9	5146.6
20°	4400.0	4388.5	4372.8	4379.9	4409.8	4431.2	4427.3	4423.4	4427.3	4431.2	4409.8
22.5°	3799.2	3785.3	3762.0	3769.4	3807.5	3835.9	3835.1	3834.3	3835.1	3835.9	3807.5
25°	2983.1	2991.4	3003.2	3021.3	3045.7	3064.5	3066.9	3069.3	3066.9	3064.5	3045.7
27.5°	2470.2	2465.8	2457.9	2463.1	2481.4	2497.5	2507.3	2517.0	2507.3	2497.5	2481.4
30°	2189.6	2187.8	2183.1	2190.1	2209.0	2225.2	2233.0	2240.9	2233.0	2225.2	2209.0
32.5°	1943.6	1946.6	1948.8	1959.6	1979.2	1993.7	1993.4	1993.1	1993.4	1993.7	1979.2
35°	1607.2	1617.8	1629.6	1644.2	1661.5	1673.3	1668.6	1663.8	1668.6	1673.3	1661.5
37.5°	1306.6	1321.0	1338.4	1354.3	1369.0	1378.8	1374.4	1370.0	1374.4	1378.8	1369.0
40°	1115.7	1132.2	1152.7	1168.0	1178.3	1185.1	1182.0	1178.9	1182.0	1185.1	1178.3
42.5°	931.6	948.6	967.8	982.5	992.8	997.1	983.9	970.7	983.9	997.1	992.8
45°	664.6	695.6	716.9	722.0	711.0	692.3	650.6	608.9	650.6	692.3	711.0
47.5°	371.4	430.5	489.5	501.0	464.9	423.5	365.7	308.0	365.7	423.5	464.9
50°	225.2	290.3	368.2	380.0	325.7	274.9	234.8	194.7	234.8	274.9	325.7
52.5°	167.3	222.3	290.8	296.3	238.8	190.6	170.0	149.4	170.0	190.6	238.8
55°	113.5	142.8	179.8	181.7	148.7	121.9	114.1	106.2	114.1	121.9	148.7
57.5°	86.1	97.6	111.6	112.7	100.9	90.9	86.5	82.1	86.5	90.9	100.9
60°	73.4	79.7	86.7	87.5	82.0	77.1	73.9	70.8	73.9	77.1	82.0
62.5°	62.7	66.4	71.0	72.1	69.7	67.5	65.6	63.7	65.6	67.5	69.7
65°	52.9	54.3	55.9	56.6	56.6	56.4	55.7	54.9	55.7	56.4	56.6
67.5°	46.2	47.0	47.8	48.2	48.4	48.3	47.5	46.7	47.5	48.3	48.4
70°	40.5	41.3	42.1	42.9	43.7	44.1	43.3	42.5	43.3	44.1	43.7
72.5°	36.3	36.6	36.7	37.2	38.0	38.4	37.6	36.8	37.6	38.4	38.0
75°	28.3	28.9	29.7	30.1	30.1	30.1	30.1	30.1	30.1	30.1	30.1
77.5°	21.8	21.9	21.9	22.3	23.1	23.7	23.5	23.4	23.5	23.7	23.1
80°	17.7	17.7	17.7	18.1	18.9	19.3	18.5	17.7	18.5	19.3	18.9
82.5°	13.5	13.5	13.5	13.8	14.6	15.2	15.0	14.9	15.0	15.2	14.6
85°	8.7	8.3	7.5	7.5	8.3	8.9	8.9	8.9	8.9	8.9	8.3
87.5°	8.8	8.5	8.5	8.2	7.4	6.2	4.8	3.7	4.8	5.9	7.9
90°	29.7	28.3	28.3	26.9	22.6	17.0	9.9	4.2	9.9	15.6	25.5
92.5°	35.4	35.1	32.8	30.3	24.9	24.9	24.6	15.6	26.9	38.2	54.9
95°	32.5	32.5	38.2	48.1	70.7	72.2	48.1	43.9	62.3	87.7	110.4
97.5°	88.0	104.7	128.5	133.0	125.9	93.9	90.0	83.8	114.0	139.2	175.7
100°	162.7	183.9	200.9	166.9	131.6	130.2	121.7	118.8	151.4	175.4	210.8
102.5°	254.4	260.9	202.0	182.8	174.6	168.6	155.6	153.9	186.5	219.6	249.3
105°	275.9	247.6	249.0	249.0	243.3	232.0	208.0	206.6	243.3	281.5	318.3
107.5°	324.6	328.8	336.2	334.5	328.0	297.7	269.4	262.9	296.0	341.8	382.3
110°	389.1	393.3	396.1	393.3	383.4	345.2	311.3	301.4	331.1	379.2	423.0



TEST NUMBER: P1428634

CATALOG NUMBER: SQ2W-WBN-K-100U-125D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	451.3	454.4	460.7	452.2	435.5	391.6	353.1	338.7	368.4	417.7	462.6
115°	550.4	550.4	551.8	547.5	513.6	468.3	417.4	396.1	421.6	466.9	516.4
117.5°	647.7	649.4	643.7	632.4	593.1	540.5	483.3	449.3	469.4	517.3	568.2
120°	708.8	711.6	706.0	689.0	650.8	591.4	526.3	486.7	502.3	548.9	599.9
122.5°	772.2	771.6	764.8	745.6	700.6	638.9	575.0	526.3	532.8	576.1	625.9
125°	860.2	858.8	853.1	830.5	783.8	720.1	645.2	585.7	577.2	614.0	665.0
127.5°	944.0	940.8	932.1	904.6	856.8	795.4	713.1	645.7	626.8	650.0	696.7
130°	1001.7	997.4	981.9	952.2	905.5	847.5	764.0	687.6	660.7	674.9	715.9
132.5°	1057.1	1045.0	1031.7	999.7	956.4	896.1	811.5	731.7	694.7	700.9	732.9
135°	1127.6	1116.3	1099.3	1068.2	1027.2	967.7	882.8	796.5	745.6	739.9	758.3
137.5°	1189.6	1177.7	1158.4	1131.6	1090.3	1037.3	955.8	864.7	800.5	781.5	788.6
140°	1228.1	1213.9	1196.9	1170.0	1133.3	1078.1	998.9	911.1	839.0	812.1	807.9
142.5°	1259.7	1249.0	1230.9	1206.3	1174.0	1118.8	1041.9	955.3	878.6	843.8	833.9
145°	1307.3	1298.8	1279.0	1256.4	1229.5	1174.3	1103.6	1017.2	940.8	895.6	874.4
147.5°	1347.5	1340.7	1325.1	1298.5	1275.9	1223.0	1158.4	1082.0	1003.7	947.6	920.2
150°	1372.4	1366.7	1351.1	1325.7	1303.0	1253.5	1191.3	1120.5	1045.5	986.1	950.8
152.5°	1396.1	1390.5	1372.6	1347.2	1327.9	1281.8	1225.2	1157.9	1081.8	1022.3	985.8
155°	1427.5	1420.5	1403.5	1379.4	1362.5	1320.0	1267.7	1208.2	1143.2	1080.9	1039.9
157.5°	1452.4	1443.7	1427.8	1407.2	1389.1	1350.0	1304.5	1253.2	1196.4	1136.9	1095.1
160°	1467.2	1457.3	1440.3	1421.9	1404.9	1368.1	1327.1	1280.4	1228.1	1174.3	1129.0
162.5°	1477.3	1468.6	1448.2	1432.1	1417.4	1384.0	1345.2	1303.0	1256.4	1209.4	1167.5
165°	1488.4	1478.5	1457.3	1444.5	1431.8	1403.5	1369.5	1335.6	1296.0	1257.8	1223.8
167.5°	1489.2	1481.0	1459.8	1447.4	1438.0	1413.7	1386.2	1360.2	1329.4	1299.4	1271.1
170°	1487.0	1479.9	1458.7	1447.4	1440.3	1420.5	1396.4	1373.8	1349.7	1324.3	1301.6
172.5°	1479.0	1472.0	1451.9	1442.8	1439.1	1421.6	1402.1	1385.1	1364.4	1345.8	1327.7
175°	1458.7	1453.0	1436.0	1430.4	1431.8	1420.5	1406.3	1396.4	1383.7	1372.4	1362.5
177.5°	1429.0	1425.6	1413.1	1413.1	1417.6	1410.8	1406.3	1401.8	1396.1	1392.7	1389.3
180°	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7



TEST NUMBER: P1428634

CATALOG NUMBER: SQ2W-WBN-K-100U-125D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	9977.8	9977.8	9977.8	9977.8	9977.8	9977.8	9977.8	9977.8	9977.8	9977.8	9977.8
2.5°	9871.4	9868.0	9903.2	9927.4	9918.6	9909.8	9918.6	9927.4	9903.2	9868.0	9871.4
5°	9519.7	9532.3	9593.7	9636.2	9622.0	9607.8	9622.0	9636.2	9593.7	9532.3	9519.7
7.5°	8818.1	8834.6	8888.8	8925.8	8910.7	8895.6	8910.7	8925.8	8888.8	8834.6	8818.1
10°	8177.4	8201.4	8280.9	8327.1	8273.6	8220.1	8273.6	8327.1	8280.9	8201.4	8177.4
12.5°	7433.2	7428.9	7441.6	7443.8	7414.2	7384.7	7414.2	7443.8	7441.6	7428.9	7433.2
15°	6227.0	6208.6	6228.2	6240.8	6232.2	6223.5	6232.2	6240.8	6228.2	6208.6	6227.0
17.5°	5096.6	5070.6	5068.7	5064.9	5055.1	5045.4	5055.1	5064.9	5068.7	5070.6	5096.6
20°	4379.9	4372.8	4388.5	4400.0	4398.4	4396.8	4398.4	4400.0	4388.5	4372.8	4379.9
22.5°	3769.4	3762.0	3785.3	3799.2	3785.1	3770.9	3785.1	3799.2	3785.3	3762.0	3769.4
25°	3021.3	3003.2	2991.4	2983.1	2985.5	2987.8	2985.5	2983.1	2991.4	3003.2	3021.3
27.5°	2463.1	2457.9	2465.8	2470.2	2464.4	2458.6	2464.4	2470.2	2465.8	2457.9	2463.1
30°	2190.1	2183.1	2187.8	2189.6	2182.5	2175.4	2182.5	2189.6	2187.8	2183.1	2190.1
32.5°	1959.6	1948.8	1946.6	1943.6	1938.4	1933.2	1938.4	1943.6	1946.6	1948.8	1959.6
35°	1644.2	1629.6	1617.8	1607.2	1600.1	1593.0	1600.1	1607.2	1617.8	1629.6	1644.2
37.5°	1354.3	1338.4	1321.0	1306.6	1300.6	1294.6	1300.6	1306.6	1321.0	1338.4	1354.3
40°	1168.0	1152.7	1132.2	1115.7	1111.0	1106.3	1111.0	1115.7	1132.2	1152.7	1168.0
42.5°	982.5	967.8	948.6	931.6	921.3	910.9	921.3	931.6	948.6	967.8	982.5
45°	722.0	716.9	695.6	664.6	604.0	543.4	604.0	664.6	695.6	716.9	722.0
47.5°	501.0	489.5	430.5	371.4	311.9	252.4	311.9	371.4	430.5	489.5	501.0
50°	380.0	368.2	290.3	225.2	198.4	171.7	198.4	225.2	290.3	368.2	380.0
52.5°	296.3	290.8	222.3	167.3	152.5	137.7	152.5	167.3	222.3	290.8	296.3
55°	181.7	179.8	142.8	113.5	107.2	100.9	107.2	113.5	142.8	179.8	181.7
57.5°	112.7	111.6	97.6	86.1	82.2	78.2	82.2	86.1	97.6	111.6	112.7
60°	87.5	86.7	79.7	73.4	69.4	65.5	69.4	73.4	79.7	86.7	87.5
62.5°	72.1	71.0	66.4	62.7	61.2	59.8	61.2	62.7	66.4	71.0	72.1
65°	56.6	55.9	54.3	52.9	52.1	51.3	52.1	52.9	54.3	55.9	56.6
67.5°	48.2	47.8	47.0	46.2	45.4	44.6	45.4	46.2	47.0	47.8	48.2
70°	42.9	42.1	41.3	40.5	39.7	38.9	39.7	40.5	41.3	42.1	42.9
72.5°	37.2	36.7	36.6	36.3	35.5	34.7	35.5	36.3	36.6	36.7	37.2
75°	30.1	29.7	28.9	28.3	28.3	28.3	28.3	28.3	28.9	29.7	30.1
77.5°	22.3	21.9	21.9	21.8	21.2	20.5	21.2	21.8	21.9	21.9	22.3
80°	18.1	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	18.1
82.5°	13.8	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.8
85°	7.5	7.5	8.3	8.7	7.9	7.1	7.9	8.7	8.3	7.5	7.5
87.5°	9.3	11.3	13.3	14.4	15.6	15.0	15.6	14.4	13.3	11.3	9.3
90°	32.5	42.4	52.3	58.0	63.7	60.8	63.7	58.0	52.3	42.4	32.5
92.5°	65.4	82.1	94.2	104.4	108.9	108.4	108.9	104.4	94.2	82.1	65.4
95°	131.6	151.4	171.2	185.3	193.8	191.0	193.8	185.3	171.2	151.4	131.6
97.5°	202.9	229.5	251.6	264.9	273.3	279.0	273.3	264.9	251.6	229.5	202.9
100°	250.4	275.9	301.4	316.9	331.1	336.7	331.1	316.9	301.4	275.9	250.4
102.5°	288.9	322.3	350.0	366.7	378.6	384.3	378.6	366.7	350.0	322.3	288.9
105°	352.3	387.7	417.4	438.6	451.3	455.6	451.3	438.6	417.4	387.7	352.3
107.5°	415.7	452.2	479.6	503.1	518.7	527.7	518.7	503.1	479.6	452.2	415.7
110°	465.5	495.2	524.9	546.1	561.7	567.3	561.7	524.9	495.2	465.5	465.5



TEST NUMBER: P1428634

CATALOG NUMBER: SQ2W-WBN-K-100U-125D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	507.4	540.5	570.2	591.4	609.2	617.1	609.2	591.4	570.2	540.5	507.4
115°	565.9	609.8	636.7	656.5	669.2	676.3	669.2	656.5	636.7	609.8	565.9
117.5°	614.6	660.4	689.9	705.1	711.1	716.2	711.1	705.1	689.9	660.4	614.6
120°	645.2	687.6	721.6	741.4	748.4	751.3	748.4	741.4	721.6	687.6	645.2
122.5°	673.4	713.6	746.5	770.8	782.4	785.2	782.4	770.8	746.5	713.6	673.4
125°	713.1	751.3	785.2	809.3	822.0	829.1	822.0	809.3	785.2	751.3	713.1
127.5°	747.6	788.9	820.0	841.8	854.3	859.9	854.3	841.8	820.0	788.9	747.6
130°	766.8	809.3	840.4	864.4	875.8	881.4	875.8	864.4	840.4	809.3	766.8
132.5°	781.5	826.2	858.5	880.3	892.7	898.4	892.7	880.3	858.5	826.2	781.5
135°	799.4	846.1	880.0	901.2	912.6	918.2	912.6	901.2	880.0	846.1	799.4
137.5°	814.9	857.4	892.7	915.1	925.3	929.0	925.3	915.1	892.7	857.4	814.9
140°	826.2	863.0	898.4	919.6	930.9	932.4	930.9	919.6	898.4	863.0	826.2
142.5°	841.0	869.8	900.7	921.9	933.2	935.8	933.2	921.9	900.7	869.8	841.0
145°	867.3	884.3	905.5	925.3	935.2	938.0	935.2	925.3	905.5	884.3	867.3
147.5°	900.4	905.8	916.8	929.8	939.4	941.4	939.4	929.8	916.8	905.8	900.4
150°	925.3	923.9	928.1	936.6	945.1	943.7	945.1	936.6	928.1	923.9	925.3
152.5°	953.6	945.4	945.1	949.1	953.0	952.7	953.0	949.1	945.1	945.4	953.6
155°	1001.7	986.1	977.6	974.8	974.8	973.4	974.8	974.8	977.6	986.1	1001.7
157.5°	1054.6	1032.8	1020.1	1013.3	1011.3	1008.2	1011.3	1013.3	1020.1	1032.8	1054.6
160°	1090.8	1066.8	1054.0	1042.7	1038.5	1034.2	1038.5	1042.7	1054.0	1066.8	1090.8
162.5°	1124.8	1101.9	1088.0	1077.8	1073.6	1067.1	1073.6	1077.8	1088.0	1101.9	1124.8
165°	1180.0	1155.9	1140.3	1131.8	1126.2	1120.5	1126.2	1131.8	1140.3	1155.9	1180.0
167.5°	1235.1	1208.8	1198.6	1189.0	1183.6	1173.4	1183.6	1189.0	1198.6	1208.8	1235.1
170°	1269.1	1245.0	1239.4	1230.9	1221.0	1209.7	1221.0	1230.9	1239.4	1245.0	1269.1
172.5°	1298.5	1282.4	1276.7	1268.2	1265.1	1256.1	1265.1	1268.2	1276.7	1282.4	1298.5
175°	1341.2	1328.5	1328.5	1327.1	1322.8	1314.4	1322.8	1327.1	1328.5	1328.5	1341.2
177.5°	1376.9	1370.1	1374.6	1374.6	1373.5	1365.6	1373.5	1374.6	1374.6	1370.1	1376.9
180°	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7



TEST NUMBER: P1428634

CATALOG NUMBER: SQ2W-WBN-K-100U-125D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	9977.8	9977.8	9977.8	9977.8
2.5°	9913.6	9947.1	9954.6	9962.2
5°	9555.9	9584.6	9590.9	9597.2
7.5°	8839.5	8854.2	8848.9	8843.5
10°	8208.9	8229.0	8214.8	8200.6
12.5°	7454.6	7473.0	7482.1	7491.2
15°	6283.7	6334.4	6367.5	6400.5
17.5°	5146.6	5180.9	5168.2	5155.5
20°	4409.8	4431.2	4427.3	4423.4
22.5°	3807.5	3835.9	3835.1	3834.3
25°	3045.7	3064.5	3066.9	3069.3
27.5°	2481.4	2497.5	2507.3	2517.0
30°	2209.0	2225.2	2233.0	2240.9
32.5°	1979.2	1993.7	1993.4	1993.1
35°	1661.5	1673.3	1668.6	1663.8
37.5°	1369.0	1378.8	1374.4	1370.0
40°	1178.3	1185.1	1182.0	1178.9
42.5°	992.8	997.1	983.9	970.7
45°	711.0	692.3	650.6	608.9
47.5°	464.9	423.5	365.7	308.0
50°	325.7	274.9	234.8	194.7
52.5°	238.8	190.6	170.0	149.4
55°	148.7	121.9	114.1	106.2
57.5°	100.9	90.9	86.5	82.1
60°	82.0	77.1	73.9	70.8
62.5°	69.7	67.5	65.6	63.7
65°	56.6	56.4	55.7	54.9
67.5°	48.4	48.3	47.5	46.7
70°	43.7	44.1	43.3	42.5
72.5°	38.0	38.4	37.6	36.8
75°	30.1	30.1	30.1	30.1
77.5°	23.1	23.7	23.5	23.4
80°	18.9	19.3	18.5	17.7
82.5°	14.6	15.2	15.0	14.9
85°	8.3	8.9	8.9	8.9
87.5°	7.9	5.9	4.8	3.7
90°	25.5	15.6	9.9	4.2
92.5°	54.9	38.2	26.9	15.6
95°	110.4	87.7	62.3	43.9
97.5°	175.7	139.2	114.0	83.8
100°	210.8	175.4	151.4	118.8
102.5°	249.3	219.6	186.5	153.9
105°	318.3	281.5	243.3	206.6
107.5°	382.3	341.8	296.0	262.9
110°	423.0	379.2	331.1	301.4



TEST NUMBER: P1428634

CATALOG NUMBER: SQ2W-WBN-K-100U-125D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	462.6	417.7	368.4	338.7
115°	516.4	466.9	421.6	396.1
117.5°	568.2	517.3	469.4	449.3
120°	599.9	548.9	502.3	486.7
122.5°	625.9	576.1	532.8	526.3
125°	665.0	614.0	577.2	585.7
127.5°	696.7	650.0	626.8	645.7
130°	715.9	674.9	660.7	687.6
132.5°	732.9	700.9	694.7	731.7
135°	758.3	739.9	745.6	796.5
137.5°	788.6	781.5	800.5	864.7
140°	807.9	812.1	839.0	911.1
142.5°	833.9	843.8	878.6	955.3
145°	874.4	895.6	940.8	1017.2
147.5°	920.2	947.6	1003.7	1082.0
150°	950.8	986.1	1045.5	1120.5
152.5°	985.8	1022.3	1081.8	1157.9
155°	1039.9	1080.9	1143.2	1208.2
157.5°	1095.1	1136.9	1196.4	1253.2
160°	1129.0	1174.3	1228.1	1280.4
162.5°	1167.5	1209.4	1256.4	1303.0
165°	1223.8	1257.8	1296.0	1335.6
167.5°	1271.1	1299.4	1329.4	1360.2
170°	1301.6	1324.3	1349.7	1373.8
172.5°	1327.7	1345.8	1364.4	1385.1
175°	1362.5	1372.4	1383.7	1396.4
177.5°	1389.3	1392.7	1396.1	1401.8
180°	1400.7	1400.7	1400.7	1400.7



TEST NUMBER: P1428634  
 CATALOG NUMBER: SQ2W-WBN-K-100U-125D-L940-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	4.63	5.36	5.56	6.27	7.42	4.26	4.98	5.19	5.89	7.05
	3H	5.86	6.50	6.80	7.42	8.60	5.47	6.11	6.40	7.03	8.21
	4H	6.38	6.98	7.33	7.91	9.10	5.98	6.59	6.93	7.51	8.71
	6H	6.73	7.28	7.69	8.22	9.42	6.32	6.87	7.27	7.80	9.00
	8H	6.88	7.40	7.84	8.35	9.55	6.46	6.98	7.42	7.92	9.13
	12H	6.97	7.47	7.94	8.41	9.63	6.53	7.02	7.49	7.96	9.18
4H	2H	4.95	5.56	5.91	6.48	7.68	4.65	5.25	5.60	6.17	7.37
	3H	6.45	6.95	7.41	7.90	9.11	6.11	6.61	7.07	7.56	8.77
	4H	7.10	7.55	8.06	8.50	9.73	6.74	7.20	7.71	8.15	9.38
	6H	7.59	7.97	8.57	8.95	10.18	7.20	7.59	8.18	8.56	9.79
	8H	7.80	8.16	8.78	9.12	10.37	7.40	7.76	8.38	8.72	9.97
	12H	7.93	8.26	8.93	9.24	10.49	7.51	7.83	8.50	8.81	10.06
8H	4H	7.26	7.62	8.24	8.58	9.83	6.94	7.30	7.92	8.27	9.51
	6H	7.89	8.19	8.89	9.19	10.44	7.54	7.83	8.54	8.84	10.08
	8H	8.21	8.47	9.22	9.46	10.72	7.83	8.08	8.84	9.08	10.34
	12H	8.44	8.66	9.45	9.65	10.96	8.03	8.25	9.04	9.24	10.55
12H	4H	7.24	7.56	8.23	8.54	9.79	6.93	7.25	7.93	8.24	9.48
	6H	7.93	8.18	8.94	9.18	10.44	7.59	7.84	8.60	8.84	10.10
	8H	8.28	8.50	9.29	9.49	10.80	7.91	8.13	8.92	9.12	10.43