

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: P1428251

Luminaire Tested: SQ2W-PR1-K-100U-050D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1428251
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/10/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2W-PR1-K-100U-050D-L830-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - PERCEIVE RIPPLE LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

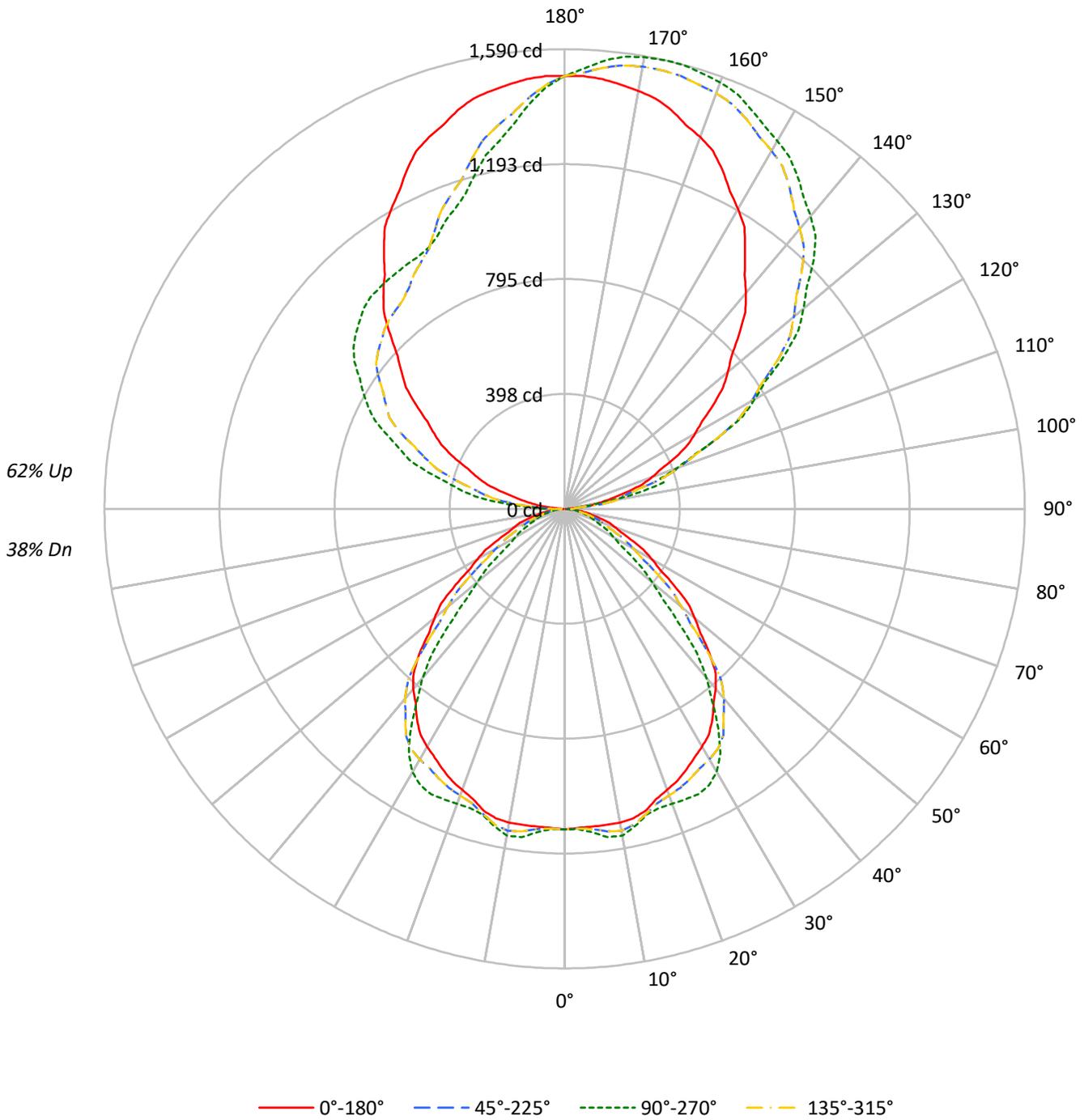
Lumens per Lamp: N/A
Luminaire Lumens: 7046.1 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.34 / 1.36
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 50.9
Input Voltage (V): 120
Input Current (A_{in}): 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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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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	96	91	88	85	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	75	70	79	73	68	64	60	56	53	48	45	43	36	35	33	28
3	80	71	64	59	72	65	59	54	53	49	45	42	40	37	32	31	29	24
4	73	63	56	50	66	58	51	46	47	43	39	38	35	32	29	27	25	21
5	67	56	49	43	61	52	45	40	43	38	34	34	31	28	26	24	22	19
6	62	50	43	37	56	46	40	35	38	33	30	31	27	25	24	22	20	17
7	57	46	38	33	52	42	35	30	35	30	26	28	25	22	22	20	18	15
8	53	41	34	29	48	38	31	27	32	27	23	26	22	19	20	18	16	13
9	49	38	31	26	45	35	28	24	29	24	21	24	20	17	19	16	14	12
10	46	35	28	23	42	32	26	21	27	22	19	22	18	16	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17909	17909	17909	17909
5°	17885	18215	17885	18215
10°	18073	18814	18073	18814
15°	18067	18313	18067	18313
20°	17775	18649	17775	18649
25°	17726	19416	17726	19416
30°	17706	19603	17706	19603
35°	17538	18252	17538	18252
40°	17133	16062	17133	16062
45°	16212	12702	16212	12702
50°	14739	9854	14739	9854
55°	12954	7671	12954	7671
60°	11208	6316	11208	6316
65°	9677	5528	9677	5528
70°	8700	4909	8700	4909
75°	7972	4516	7972	4516
80°	6936	4416	6936	4416
85°	5020	2093	5020	2093

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 17406 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	1.5
10°-20°	310.1	4.4
20°-30°	479.3	6.8
30°-40°	576.4	8.2
40°-50°	517.6	7.3
50°-60°	346.8	4.9
60°-70°	201.8	2.9
70°-80°	103.6	1.5
80°-90°	31.8	0.5
90°-100°	119.2	1.7
100°-110°	347.5	4.9
110°-120°	567.1	8.0
120°-130°	719.6	10.2
130°-140°	770.0	10.9
140°-150°	719.0	10.2
150°-160°	591.6	8.4
160°-170°	396.8	5.6
170°-180°	140.9	2.0
0°-30°	896.5	12.7
0°-40°	1473.0	20.9
0°-60°	2337.5	33.2
0°-90°	2674.6	38.0
90°-120°	1033.7	14.7
90°-150°	3242.2	46.0
90°-180°	4371.0	62.0
0°-180°	7046.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1109	1109	1109	1109	1109	
5°	1104	1124	1104	1124	1104	105
15°	1081	1096	1081	1096	1081	304
25°	995	1090	995	1090	995	459
35°	890	926	890	926	890	555
45°	710	556	710	556	710	543
55°	460	272	460	272	460	414
65°	253	145	253	145	253	256
75°	128	72	128	72	128	136
85°	27	11	27	11	27	34
90°	4	33	4	65	4	5
95°	47	35	47	204	47	57
105°	221	354	221	487	221	235
115°	423	587	423	723	423	417
125°	626	930	626	886	626	560
135°	851	1217	851	982	851	658
145°	1087	1403	1087	1003	1087	680
155°	1292	1524	1292	1040	1292	594
165°	1428	1589	1428	1198	1428	402
175°	1493	1556	1493	1405	1493	142
180°	1497	1497	1497	1497	1497	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2
2.5°	1104.6	1110.7	1116.7	1114.0	1108.4	1105.8	1106.2	1106.8	1108.0	1109.2	1108.0
5°	1103.5	1112.1	1120.6	1118.6	1113.1	1110.8	1111.8	1113.8	1118.8	1123.9	1118.8
7.5°	1103.3	1115.5	1127.6	1128.5	1125.7	1125.8	1128.7	1132.5	1139.2	1145.8	1139.2
10°	1102.4	1117.0	1131.5	1133.7	1131.7	1130.9	1131.4	1133.5	1140.6	1147.6	1140.6
12.5°	1097.0	1113.9	1130.9	1129.1	1121.1	1116.7	1116.0	1116.5	1120.3	1124.1	1120.3
15°	1080.9	1101.0	1121.1	1112.9	1095.4	1087.3	1088.8	1090.6	1093.1	1095.6	1093.1
17.5°	1052.6	1073.6	1094.6	1087.3	1070.5	1064.8	1070.3	1075.6	1080.5	1085.4	1080.5
20°	1034.5	1055.2	1075.8	1070.7	1057.2	1053.9	1060.9	1068.3	1076.9	1085.4	1076.9
22.5°	1018.3	1038.9	1059.5	1056.3	1045.1	1044.4	1054.3	1064.6	1076.4	1088.1	1076.4
25°	995.0	1013.1	1031.2	1031.5	1026.0	1031.5	1048.1	1063.8	1076.9	1089.9	1076.9
27.5°	970.6	981.2	991.9	998.9	1004.7	1018.8	1041.3	1060.4	1069.5	1078.6	1069.5
30°	949.7	956.8	963.8	976.9	992.0	1009.3	1028.9	1044.5	1048.0	1051.5	1048.0
32.5°	927.1	931.4	935.6	954.0	977.1	993.8	1004.2	1010.8	1006.3	1001.8	1006.3
35°	889.8	893.3	896.9	920.4	950.5	961.6	953.5	945.1	935.6	926.0	935.6
37.5°	845.5	852.7	860.0	879.1	902.2	902.0	878.5	858.1	847.2	836.2	847.2
40°	812.9	825.0	837.1	849.9	862.9	851.9	816.7	787.2	774.6	762.1	774.6
42.5°	773.1	792.4	811.7	814.6	812.0	788.3	743.4	706.0	690.6	675.2	690.6
45°	710.0	736.2	762.3	747.4	718.7	680.0	631.3	590.5	573.4	556.3	573.4
47.5°	635.7	662.5	689.3	661.1	614.6	569.6	526.1	489.4	473.4	457.5	473.4
50°	586.8	608.4	630.0	598.1	548.4	503.1	462.4	427.5	409.9	392.3	409.9
52.5°	537.1	552.6	568.2	536.6	489.3	445.3	404.5	370.0	354.0	338.1	354.0
55°	460.2	468.2	476.3	447.0	405.3	365.1	326.4	294.6	283.5	272.5	283.5
57.5°	389.6	394.7	399.9	372.1	333.4	297.7	264.8	238.1	230.0	221.8	230.0
60°	347.1	350.6	354.1	326.0	287.3	255.2	229.5	208.7	202.1	195.6	202.1
62.5°	308.2	310.9	313.6	286.5	249.4	220.7	200.3	183.7	178.8	173.9	178.8
65°	253.3	255.8	258.3	235.2	203.5	179.9	164.3	151.8	148.2	144.7	148.2
67.5°	209.6	210.9	212.2	193.2	167.4	148.3	136.1	126.0	122.7	119.4	122.7
70°	184.3	184.8	185.3	168.5	145.9	129.0	118.0	109.0	106.5	104.0	106.5
72.5°	161.7	161.0	160.3	145.3	125.5	111.0	102.0	94.8	93.1	91.4	93.1
75°	127.8	126.3	124.7	112.3	96.2	85.2	79.1	74.4	73.4	72.4	73.4
77.5°	95.4	93.8	92.2	81.9	68.6	61.0	58.9	57.4	57.4	57.4	57.4
80°	74.6	72.6	70.6	62.6	52.5	47.5	47.5	47.5	47.5	47.5	47.5
82.5°	55.6	52.8	50.0	45.1	39.4	36.6	36.6	36.5	36.1	35.7	36.1
85°	27.1	24.6	22.1	21.5	21.5	20.0	17.0	14.3	12.8	11.3	12.8
87.5°	8.1	9.4	10.9	10.6	9.5	8.8	8.8	9.1	9.4	9.4	9.4
90°	4.5	10.6	18.1	24.2	28.7	30.2	30.2	31.8	33.3	33.3	33.3
92.5°	16.6	26.3	26.6	26.6	32.4	35.1	37.5	37.8	39.3	39.3	39.3
95°	46.9	51.4	77.1	75.6	51.4	40.8	34.8	34.8	34.8	34.8	34.8
97.5°	89.5	96.2	100.4	134.6	142.2	137.3	111.9	94.1	84.1	79.5	84.1
100°	127.0	130.1	139.1	140.6	178.4	214.7	196.6	173.9	166.4	161.8	166.4
102.5°	164.5	166.4	180.3	186.6	195.4	216.0	278.9	271.9	266.8	265.9	266.8
105°	220.8	222.3	248.0	260.1	266.2	266.2	264.7	294.9	343.3	353.9	343.3
107.5°	281.0	287.9	318.2	350.5	357.5	359.3	351.5	346.9	345.1	346.3	345.1
110°	322.1	332.7	369.0	409.8	420.4	423.4	420.4	415.9	412.9	412.9	412.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	362.0	377.5	418.6	465.5	483.3	492.4	485.7	482.4	479.4	481.8	479.4
115°	423.4	446.1	500.6	549.0	585.3	589.8	588.3	588.3	586.8	586.8	586.8
117.5°	480.3	516.6	577.7	634.0	676.0	688.1	694.1	692.3	690.5	693.5	690.5
120°	520.2	562.6	632.1	695.7	736.5	754.6	760.7	757.7	760.7	757.7	760.7
122.5°	562.6	614.6	682.9	748.9	797.0	817.5	824.8	825.4	826.0	824.2	826.0
125°	626.1	689.6	769.8	837.8	887.7	911.9	918.0	919.5	922.5	930.1	922.5
127.5°	690.2	762.2	850.2	915.8	967.0	996.3	1005.7	1009.0	1015.3	1018.7	1015.3
130°	735.0	816.6	905.9	967.9	1017.8	1049.5	1066.2	1070.7	1078.3	1076.7	1078.3
132.5°	782.2	867.4	957.9	1022.3	1068.6	1102.8	1117.0	1130.0	1132.7	1134.8	1132.7
135°	851.4	943.7	1034.4	1097.9	1141.8	1175.0	1193.2	1205.3	1212.9	1217.4	1212.9
137.5°	924.3	1021.7	1108.8	1165.4	1209.5	1238.3	1258.8	1271.5	1279.4	1283.0	1279.4
140°	973.9	1067.7	1152.4	1211.3	1250.7	1279.4	1297.5	1312.7	1321.7	1321.7	1321.7
142.5°	1021.1	1113.6	1195.9	1254.9	1289.4	1315.7	1335.0	1346.5	1356.8	1356.8	1356.8
145°	1087.3	1179.6	1255.2	1314.2	1342.9	1367.1	1388.3	1397.4	1403.4	1403.4	1403.4
147.5°	1156.6	1238.3	1307.2	1363.8	1388.0	1416.4	1433.0	1440.3	1447.9	1444.5	1447.9
150°	1197.7	1273.3	1339.9	1392.8	1417.0	1444.2	1460.9	1466.9	1474.5	1469.9	1474.5
152.5°	1237.7	1309.6	1370.1	1419.4	1440.0	1467.2	1486.3	1492.3	1497.5	1494.1	1497.5
155°	1291.5	1355.0	1411.0	1456.3	1474.5	1500.2	1518.3	1525.9	1531.9	1524.4	1531.9
157.5°	1339.6	1394.3	1443.0	1484.8	1504.1	1526.2	1543.1	1552.5	1558.6	1555.2	1558.6
160°	1368.6	1418.5	1462.4	1501.7	1519.8	1539.5	1557.7	1568.2	1574.3	1569.8	1574.3
162.5°	1392.8	1437.9	1479.3	1515.0	1530.7	1548.0	1569.8	1579.1	1585.2	1579.4	1585.2
165°	1427.6	1463.9	1500.2	1530.4	1544.0	1557.7	1580.3	1590.9	1595.5	1589.4	1595.5
167.5°	1453.9	1481.7	1511.1	1537.1	1547.1	1560.4	1583.1	1591.8	1597.6	1590.0	1597.6
170°	1468.4	1492.6	1518.3	1539.5	1547.1	1559.2	1581.9	1589.4	1593.9	1586.4	1593.9
172.5°	1480.5	1498.7	1519.5	1538.3	1542.2	1551.9	1573.4	1580.9	1584.3	1577.9	1584.3
175°	1492.6	1503.2	1518.3	1530.4	1528.9	1535.0	1553.1	1559.2	1565.2	1556.1	1565.2
177.5°	1498.4	1503.2	1508.1	1515.3	1510.5	1510.5	1523.8	1527.4	1528.6	1523.8	1528.6
180°	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2
2.5°	1106.8	1106.2	1105.8	1108.4	1114.0	1116.7	1110.7	1104.6	1110.7	1116.7	1114.0
5°	1113.8	1111.8	1110.8	1113.1	1118.6	1120.6	1112.1	1103.5	1112.1	1120.6	1118.6
7.5°	1132.5	1128.7	1125.8	1125.7	1128.5	1127.6	1115.5	1103.3	1115.5	1127.6	1128.5
10°	1133.5	1131.4	1130.9	1131.7	1133.7	1131.5	1117.0	1102.4	1117.0	1131.5	1133.7
12.5°	1116.5	1116.0	1116.7	1121.1	1129.1	1130.9	1113.9	1097.0	1113.9	1130.9	1129.1
15°	1090.6	1088.8	1087.3	1095.4	1112.9	1121.1	1101.0	1080.9	1101.0	1121.1	1112.9
17.5°	1075.6	1070.3	1064.8	1070.5	1087.3	1094.6	1073.6	1052.6	1073.6	1094.6	1087.3
20°	1068.3	1060.9	1053.9	1057.2	1070.7	1075.8	1055.2	1034.5	1055.2	1075.8	1070.7
22.5°	1064.6	1054.3	1044.4	1045.1	1056.3	1059.5	1038.9	1018.3	1038.9	1059.5	1056.3
25°	1063.8	1048.1	1031.5	1026.0	1031.5	1031.2	1013.1	995.0	1013.1	1031.2	1031.5
27.5°	1060.4	1041.3	1018.8	1004.7	998.9	991.9	981.2	970.6	981.2	991.9	998.9
30°	1044.5	1028.9	1009.3	992.0	976.9	963.8	956.8	949.7	956.8	963.8	976.9
32.5°	1010.8	1004.2	993.8	977.1	954.0	935.6	931.4	927.1	931.4	935.6	954.0
35°	945.1	953.5	961.6	950.5	920.4	896.9	893.3	889.8	893.3	896.9	920.4
37.5°	858.1	878.5	902.0	902.2	879.1	860.0	852.7	845.5	852.7	860.0	879.1
40°	787.2	816.7	851.9	862.9	849.9	837.1	825.0	812.9	825.0	837.1	849.9
42.5°	706.0	743.4	788.3	812.0	814.6	811.7	792.4	773.1	792.4	811.7	814.6
45°	590.5	631.3	680.0	718.7	747.4	762.3	736.2	710.0	736.2	762.3	747.4
47.5°	489.4	526.1	569.6	614.6	661.1	689.3	662.5	635.7	662.5	689.3	661.1
50°	427.5	462.4	503.1	548.4	598.1	630.0	608.4	586.8	608.4	630.0	598.1
52.5°	370.0	404.5	445.3	489.3	536.6	568.2	552.6	537.1	552.6	568.2	536.6
55°	294.6	326.4	365.1	405.3	447.0	476.3	468.2	460.2	468.2	476.3	447.0
57.5°	238.1	264.8	297.7	333.4	372.1	399.9	394.7	389.6	394.7	399.9	372.1
60°	208.7	229.5	255.2	287.3	326.0	354.1	350.6	347.1	350.6	354.1	326.0
62.5°	183.7	200.3	220.7	249.4	286.5	313.6	310.9	308.2	310.9	313.6	286.5
65°	151.8	164.3	179.9	203.5	235.2	258.3	255.8	253.3	255.8	258.3	235.2
67.5°	126.0	136.1	148.3	167.4	193.2	212.2	210.9	209.6	210.9	212.2	193.2
70°	109.0	118.0	129.0	145.9	168.5	185.3	184.8	184.3	184.8	185.3	168.5
72.5°	94.8	102.0	111.0	125.5	145.3	160.3	161.0	161.7	161.0	160.3	145.3
75°	74.4	79.1	85.2	96.2	112.3	124.7	126.3	127.8	126.3	124.7	112.3
77.5°	57.4	58.9	61.0	68.6	81.9	92.2	93.8	95.4	93.8	92.2	81.9
80°	47.5	47.5	47.5	52.5	62.6	70.6	72.6	74.6	72.6	70.6	62.6
82.5°	36.5	36.6	36.6	39.4	45.1	50.0	52.8	55.6	52.8	50.0	45.1
85°	14.3	17.0	20.0	21.5	21.5	22.1	24.6	27.1	24.6	22.1	21.5
87.5°	9.1	8.8	8.8	9.5	10.6	10.9	9.4	8.1	9.4	10.6	11.2
90°	31.8	30.2	30.2	28.7	24.2	18.1	10.6	4.5	10.6	16.6	27.2
92.5°	37.8	37.5	35.1	32.4	26.6	26.6	26.3	16.6	28.7	40.8	58.7
95°	34.8	34.8	40.8	51.4	75.6	77.1	51.4	46.9	66.5	93.8	118.0
97.5°	94.1	111.9	137.3	142.2	134.6	100.4	96.2	89.5	121.9	148.8	187.8
100°	173.9	196.6	214.7	178.4	140.6	139.1	130.1	127.0	161.8	187.5	225.3
102.5°	271.9	278.9	216.0	195.4	186.6	180.3	166.4	164.5	199.3	234.7	266.5
105°	294.9	264.7	266.2	266.2	260.1	248.0	222.3	220.8	260.1	300.9	340.3
107.5°	346.9	351.5	359.3	357.5	350.5	318.2	287.9	281.0	316.4	365.4	408.6
110°	415.9	420.4	423.4	420.4	409.8	369.0	332.7	322.1	353.9	405.3	452.2



TEST NUMBER: P1428251

CATALOG NUMBER: SQ2W-PR1-K-100U-050D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	482.4	485.7	492.4	483.3	465.5	418.6	377.5	362.0	393.8	446.4	494.5
115°	588.3	588.3	589.8	585.3	549.0	500.6	446.1	423.4	450.7	499.1	552.0
117.5°	692.3	694.1	688.1	676.0	634.0	577.7	516.6	480.3	501.8	552.9	607.3
120°	757.7	760.7	754.6	736.5	695.7	632.1	562.6	520.2	536.9	586.8	641.2
122.5°	825.4	824.8	817.5	797.0	748.9	682.9	614.6	562.6	569.5	615.8	669.0
125°	919.5	918.0	911.9	887.7	837.8	769.8	689.6	626.1	617.0	656.3	710.8
127.5°	1009.0	1005.7	996.3	967.0	915.8	850.2	762.2	690.2	669.9	694.7	744.6
130°	1070.7	1066.2	1049.5	1017.8	967.9	905.9	816.6	735.0	706.2	721.4	765.2
132.5°	1130.0	1117.0	1102.8	1068.6	1022.3	957.9	867.4	782.2	742.5	749.2	783.4
135°	1205.3	1193.2	1175.0	1141.8	1097.9	1034.4	943.7	851.4	797.0	790.9	810.6
137.5°	1271.5	1258.8	1238.3	1209.5	1165.4	1108.8	1021.7	924.3	855.7	835.4	842.9
140°	1312.7	1297.5	1279.4	1250.7	1211.3	1152.4	1067.7	973.9	896.8	868.1	863.5
142.5°	1346.5	1335.0	1315.7	1289.4	1254.9	1195.9	1113.6	1021.1	939.1	901.9	891.3
145°	1397.4	1388.3	1367.1	1342.9	1314.2	1255.2	1179.6	1087.3	1005.7	957.3	934.6
147.5°	1440.3	1433.0	1416.4	1388.0	1363.8	1307.2	1238.3	1156.6	1072.8	1012.9	983.6
150°	1466.9	1460.9	1444.2	1417.0	1392.8	1339.9	1273.3	1197.7	1117.6	1054.1	1016.3
152.5°	1492.3	1486.3	1467.2	1440.0	1419.4	1370.1	1309.6	1237.7	1156.3	1092.8	1053.8
155°	1525.9	1518.3	1500.2	1474.5	1456.3	1411.0	1355.0	1291.5	1221.9	1155.4	1111.5
157.5°	1552.5	1543.1	1526.2	1504.1	1484.8	1443.0	1394.3	1339.6	1278.8	1215.3	1170.5
160°	1568.2	1557.7	1539.5	1519.8	1501.7	1462.4	1418.5	1368.6	1312.7	1255.2	1206.8
162.5°	1579.1	1569.8	1548.0	1530.7	1515.0	1479.3	1437.9	1392.8	1342.9	1292.7	1247.9
165°	1590.9	1580.3	1557.7	1544.0	1530.4	1500.2	1463.9	1427.6	1385.3	1344.4	1308.1
167.5°	1591.8	1583.1	1560.4	1547.1	1537.1	1511.1	1481.7	1453.9	1420.9	1388.9	1358.6
170°	1589.4	1581.9	1559.2	1547.1	1539.5	1518.3	1492.6	1468.4	1442.7	1415.5	1391.3
172.5°	1580.9	1573.4	1551.9	1542.2	1538.3	1519.5	1498.7	1480.5	1458.4	1438.5	1419.1
175°	1559.2	1553.1	1535.0	1528.9	1530.4	1518.3	1503.2	1492.6	1479.0	1466.9	1456.3
177.5°	1527.4	1523.8	1510.5	1510.5	1515.3	1508.1	1503.2	1498.4	1492.3	1488.7	1485.1
180°	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2



TEST NUMBER: P1428251

CATALOG NUMBER: SQ2W-PR1-K-100U-050D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2
2.5°	1108.4	1105.8	1106.2	1106.8	1108.0	1109.2	1108.0	1106.8	1106.2	1105.8	1108.4
5°	1113.1	1110.8	1111.8	1113.8	1118.8	1123.9	1118.8	1113.8	1111.8	1110.8	1113.1
7.5°	1125.7	1125.8	1128.7	1132.5	1139.2	1145.8	1139.2	1132.5	1128.7	1125.8	1125.7
10°	1131.7	1130.9	1131.4	1133.5	1140.6	1147.6	1140.6	1133.5	1131.4	1130.9	1131.7
12.5°	1121.1	1116.7	1116.0	1116.5	1120.3	1124.1	1120.3	1116.5	1116.0	1116.7	1121.1
15°	1095.4	1087.3	1088.8	1090.6	1093.1	1095.6	1093.1	1090.6	1088.8	1087.3	1095.4
17.5°	1070.5	1064.8	1070.3	1075.6	1080.5	1085.4	1080.5	1075.6	1070.3	1064.8	1070.5
20°	1057.2	1053.9	1060.9	1068.3	1076.9	1085.4	1076.9	1068.3	1060.9	1053.9	1057.2
22.5°	1045.1	1044.4	1054.3	1064.6	1076.4	1088.1	1076.4	1064.6	1054.3	1044.4	1045.1
25°	1026.0	1031.5	1048.1	1063.8	1076.9	1089.9	1076.9	1063.8	1048.1	1031.5	1026.0
27.5°	1004.7	1018.8	1041.3	1060.4	1069.5	1078.6	1069.5	1060.4	1041.3	1018.8	1004.7
30°	992.0	1009.3	1028.9	1044.5	1048.0	1051.5	1048.0	1044.5	1028.9	1009.3	992.0
32.5°	977.1	993.8	1004.2	1010.8	1006.3	1001.8	1006.3	1010.8	1004.2	993.8	977.1
35°	950.5	961.6	953.5	945.1	935.6	926.0	935.6	945.1	953.5	961.6	950.5
37.5°	902.2	902.0	878.5	858.1	847.2	836.2	847.2	858.1	878.5	902.0	902.2
40°	862.9	851.9	816.7	787.2	774.6	762.1	774.6	787.2	816.7	851.9	862.9
42.5°	812.0	788.3	743.4	706.0	690.6	675.2	690.6	706.0	743.4	788.3	812.0
45°	718.7	680.0	631.3	590.5	573.4	556.3	573.4	590.5	631.3	680.0	718.7
47.5°	614.6	569.6	526.1	489.4	473.4	457.5	473.4	489.4	526.1	569.6	614.6
50°	548.4	503.1	462.4	427.5	409.9	392.3	409.9	427.5	462.4	503.1	548.4
52.5°	489.3	445.3	404.5	370.0	354.0	338.1	354.0	370.0	404.5	445.3	489.3
55°	405.3	365.1	326.4	294.6	283.5	272.5	283.5	294.6	326.4	365.1	405.3
57.5°	333.4	297.7	264.8	238.1	230.0	221.8	230.0	238.1	264.8	297.7	333.4
60°	287.3	255.2	229.5	208.7	202.1	195.6	202.1	208.7	229.5	255.2	287.3
62.5°	249.4	220.7	200.3	183.7	178.8	173.9	178.8	183.7	200.3	220.7	249.4
65°	203.5	179.9	164.3	151.8	148.2	144.7	148.2	151.8	164.3	179.9	203.5
67.5°	167.4	148.3	136.1	126.0	122.7	119.4	122.7	126.0	136.1	148.3	167.4
70°	145.9	129.0	118.0	109.0	106.5	104.0	106.5	109.0	118.0	129.0	145.9
72.5°	125.5	111.0	102.0	94.8	93.1	91.4	93.1	94.8	102.0	111.0	125.5
75°	96.2	85.2	79.1	74.4	73.4	72.4	73.4	74.4	79.1	85.2	96.2
77.5°	68.6	61.0	58.9	57.4	57.4	57.4	57.4	57.4	58.9	61.0	68.6
80°	52.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	52.5
82.5°	39.4	36.6	36.6	36.5	36.1	35.7	36.1	36.5	36.6	36.6	39.4
85°	21.5	20.0	17.0	14.3	12.8	11.3	12.8	14.3	17.0	20.0	21.5
87.5°	10.7	11.8	13.9	15.1	16.3	15.7	16.3	15.1	13.9	11.8	10.7
90°	34.8	45.4	56.0	62.0	68.1	65.0	68.1	62.0	56.0	45.4	34.8
92.5°	69.9	87.7	100.7	111.6	116.4	115.8	116.4	111.6	100.7	87.7	69.9
95°	140.6	161.8	183.0	198.1	207.2	204.2	207.2	198.1	183.0	161.8	140.6
97.5°	216.9	245.3	268.9	283.1	292.2	298.2	292.2	283.1	268.9	245.3	216.9
100°	267.7	294.9	322.1	338.8	353.9	359.9	353.9	338.8	322.1	294.9	267.7
102.5°	308.8	344.5	374.1	392.0	404.7	410.7	404.7	392.0	374.1	344.5	308.8
105°	376.6	414.4	446.1	468.8	482.4	487.0	482.4	468.8	446.1	414.4	376.6
107.5°	444.3	483.3	512.7	537.8	554.4	564.1	554.4	537.8	512.7	483.3	444.3
110°	497.5	529.3	561.1	583.7	600.4	606.4	600.4	583.7	561.1	529.3	497.5



TEST NUMBER: P1428251

CATALOG NUMBER: SQ2W-PR1-K-100U-050D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	542.3	577.7	609.5	632.1	651.2	659.7	651.2	632.1	609.5	577.7	542.3
115°	604.9	651.8	680.5	701.7	715.3	722.9	715.3	701.7	680.5	651.8	604.9
117.5°	656.9	705.9	737.4	753.7	760.1	765.5	760.1	753.7	737.4	705.9	656.9
120°	689.6	735.0	771.3	792.4	800.0	803.0	800.0	792.4	771.3	735.0	689.6
122.5°	719.8	762.8	797.9	823.9	836.3	839.3	836.3	823.9	797.9	762.8	719.8
125°	762.2	803.0	839.3	865.0	878.6	886.2	878.6	865.0	839.3	803.0	762.2
127.5°	799.1	843.3	876.5	899.8	913.1	919.2	913.1	899.8	876.5	843.3	799.1
130°	819.7	865.0	898.3	924.0	936.1	942.2	936.1	924.0	898.3	865.0	819.7
132.5°	835.4	883.2	917.7	940.9	954.3	960.3	954.3	940.9	917.7	883.2	835.4
135°	854.4	904.3	940.6	963.3	975.4	981.5	975.4	963.3	940.6	904.3	854.4
137.5°	871.1	916.4	954.3	978.1	989.0	993.0	989.0	978.1	954.3	916.4	871.1
140°	883.2	922.5	960.3	983.0	995.1	996.6	995.1	983.0	960.3	922.5	883.2
142.5°	898.9	929.8	962.7	985.4	997.5	1000.2	997.5	985.4	962.7	929.8	898.9
145°	927.0	945.2	967.9	989.0	999.6	1002.6	999.6	989.0	967.9	945.2	927.0
147.5°	962.4	968.2	980.0	993.9	1004.2	1006.3	1004.2	993.9	980.0	968.2	962.4
150°	989.0	987.5	992.1	1001.1	1010.2	1008.7	1010.2	1001.1	992.1	987.5	989.0
152.5°	1019.3	1010.5	1010.2	1014.4	1018.7	1018.4	1018.7	1014.4	1010.2	1010.5	1019.3
155°	1070.7	1054.1	1045.0	1042.0	1042.0	1040.5	1042.0	1042.0	1045.0	1054.1	1070.7
157.5°	1127.3	1104.0	1090.4	1083.1	1081.0	1077.7	1081.0	1083.1	1090.4	1104.0	1127.3
160°	1166.0	1140.3	1126.7	1114.6	1110.0	1105.5	1110.0	1114.6	1126.7	1140.3	1166.0
162.5°	1202.3	1177.8	1162.9	1152.1	1147.5	1140.6	1147.5	1152.1	1162.9	1177.8	1202.3
165°	1261.2	1235.5	1218.9	1209.8	1203.8	1197.7	1203.8	1209.8	1218.9	1235.5	1261.2
167.5°	1320.2	1292.1	1281.2	1270.9	1265.2	1254.3	1265.2	1270.9	1281.2	1292.1	1320.2
170°	1356.5	1330.8	1324.8	1315.7	1305.1	1293.0	1305.1	1315.7	1324.8	1330.8	1356.5
172.5°	1388.0	1370.7	1364.7	1355.6	1352.3	1342.6	1352.3	1355.6	1364.7	1370.7	1388.0
175°	1433.6	1420.0	1420.0	1418.5	1414.0	1404.9	1414.0	1418.5	1420.0	1420.0	1433.6
177.5°	1471.8	1464.5	1469.3	1469.3	1468.1	1459.7	1468.1	1469.3	1469.3	1464.5	1471.8
180°	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2	1497.2



TEST NUMBER: P1428251

CATALOG NUMBER: SQ2W-PR1-K-100U-050D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1109.2	1109.2	1109.2	1109.2
2.5°	1114.0	1116.7	1110.7	1104.6
5°	1118.6	1120.6	1112.1	1103.5
7.5°	1128.5	1127.6	1115.5	1103.3
10°	1133.7	1131.5	1117.0	1102.4
12.5°	1129.1	1130.9	1113.9	1097.0
15°	1112.9	1121.1	1101.0	1080.9
17.5°	1087.3	1094.6	1073.6	1052.6
20°	1070.7	1075.8	1055.2	1034.5
22.5°	1056.3	1059.5	1038.9	1018.3
25°	1031.5	1031.2	1013.1	995.0
27.5°	998.9	991.9	981.2	970.6
30°	976.9	963.8	956.8	949.7
32.5°	954.0	935.6	931.4	927.1
35°	920.4	896.9	893.3	889.8
37.5°	879.1	860.0	852.7	845.5
40°	849.9	837.1	825.0	812.9
42.5°	814.6	811.7	792.4	773.1
45°	747.4	762.3	736.2	710.0
47.5°	661.1	689.3	662.5	635.7
50°	598.1	630.0	608.4	586.8
52.5°	536.6	568.2	552.6	537.1
55°	447.0	476.3	468.2	460.2
57.5°	372.1	399.9	394.7	389.6
60°	326.0	354.1	350.6	347.1
62.5°	286.5	313.6	310.9	308.2
65°	235.2	258.3	255.8	253.3
67.5°	193.2	212.2	210.9	209.6
70°	168.5	185.3	184.8	184.3
72.5°	145.3	160.3	161.0	161.7
75°	112.3	124.7	126.3	127.8
77.5°	81.9	92.2	93.8	95.4
80°	62.6	70.6	72.6	74.6
82.5°	45.1	50.0	52.8	55.6
85°	21.5	22.1	24.6	27.1
87.5°	11.2	10.6	9.4	8.1
90°	27.2	16.6	10.6	4.5
92.5°	58.7	40.8	28.7	16.6
95°	118.0	93.8	66.5	46.9
97.5°	187.8	148.8	121.9	89.5
100°	225.3	187.5	161.8	127.0
102.5°	266.5	234.7	199.3	164.5
105°	340.3	300.9	260.1	220.8
107.5°	408.6	365.4	316.4	281.0
110°	452.2	405.3	353.9	322.1



TEST NUMBER: P1428251

CATALOG NUMBER: SQ2W-PR1-K-100U-050D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	494.5	446.4	393.8	362.0
115°	552.0	499.1	450.7	423.4
117.5°	607.3	552.9	501.8	480.3
120°	641.2	586.8	536.9	520.2
122.5°	669.0	615.8	569.5	562.6
125°	710.8	656.3	617.0	626.1
127.5°	744.6	694.7	669.9	690.2
130°	765.2	721.4	706.2	735.0
132.5°	783.4	749.2	742.5	782.2
135°	810.6	790.9	797.0	851.4
137.5°	842.9	835.4	855.7	924.3
140°	863.5	868.1	896.8	973.9
142.5°	891.3	901.9	939.1	1021.1
145°	934.6	957.3	1005.7	1087.3
147.5°	983.6	1012.9	1072.8	1156.6
150°	1016.3	1054.1	1117.6	1197.7
152.5°	1053.8	1092.8	1156.3	1237.7
155°	1111.5	1155.4	1221.9	1291.5
157.5°	1170.5	1215.3	1278.8	1339.6
160°	1206.8	1255.2	1312.7	1368.6
162.5°	1247.9	1292.7	1342.9	1392.8
165°	1308.1	1344.4	1385.3	1427.6
167.5°	1358.6	1388.9	1420.9	1453.9
170°	1391.3	1415.5	1442.7	1468.4
172.5°	1419.1	1438.5	1458.4	1480.5
175°	1456.3	1466.9	1479.0	1492.6
177.5°	1485.1	1488.7	1492.3	1498.4
180°	1497.2	1497.2	1497.2	1497.2



TEST NUMBER: P1428251
 CATALOG NUMBER: SQ2W-PR1-K-100U-050D-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	15.45	16.19	16.51	17.24	18.68	11.82	12.55	12.88	13.61	15.05
	3H	16.65	17.30	17.72	18.37	19.83	12.97	13.63	14.04	14.70	16.15
	4H	17.13	17.75	18.21	18.82	20.28	13.43	14.05	14.51	15.12	16.58
	6H	17.42	17.99	18.51	19.06	20.54	13.76	14.34	14.86	15.41	16.88
	8H	17.52	18.06	18.61	19.15	20.62	13.90	14.44	14.99	15.53	17.00
	12H	17.55	18.07	18.65	19.15	20.64	13.93	14.44	15.02	15.52	17.01
4H	2H	15.54	16.16	16.63	17.23	18.69	12.51	13.14	13.60	14.21	15.67
	3H	16.99	17.50	18.08	18.60	20.07	13.86	14.37	14.95	15.47	16.95
	4H	17.61	18.08	18.71	19.17	20.67	14.40	14.87	15.50	15.96	17.45
	6H	18.04	18.44	19.14	19.55	21.04	14.83	15.23	15.93	16.34	17.83
	8H	18.19	18.57	19.30	19.67	21.18	15.01	15.38	16.11	16.49	17.99
	12H	18.25	18.59	19.38	19.71	21.22	15.05	15.39	16.17	16.51	18.01
8H	4H	17.63	18.01	18.74	19.11	20.61	14.72	15.10	15.83	16.20	17.70
	6H	18.16	18.47	19.28	19.61	21.11	15.25	15.57	16.38	16.71	18.21
	8H	18.39	18.66	19.52	19.79	21.31	15.52	15.79	16.65	16.91	18.44
	12H	18.50	18.74	19.64	19.87	21.42	15.60	15.84	16.74	16.97	18.52
12H	4H	17.58	17.92	18.70	19.04	20.55	14.73	15.07	15.86	16.19	17.70
	6H	18.15	18.42	19.28	19.54	21.06	15.33	15.60	16.46	16.72	18.25
	8H	18.39	18.63	19.53	19.75	21.31	15.61	15.85	16.75	16.97	18.53