

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: P1435811

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

Issue Date: 3/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1435811
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2502-345-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2W-FA-K-100U-050D-L830-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - FROSTED CONTINUOUS ASYMMETRIC ROLL 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

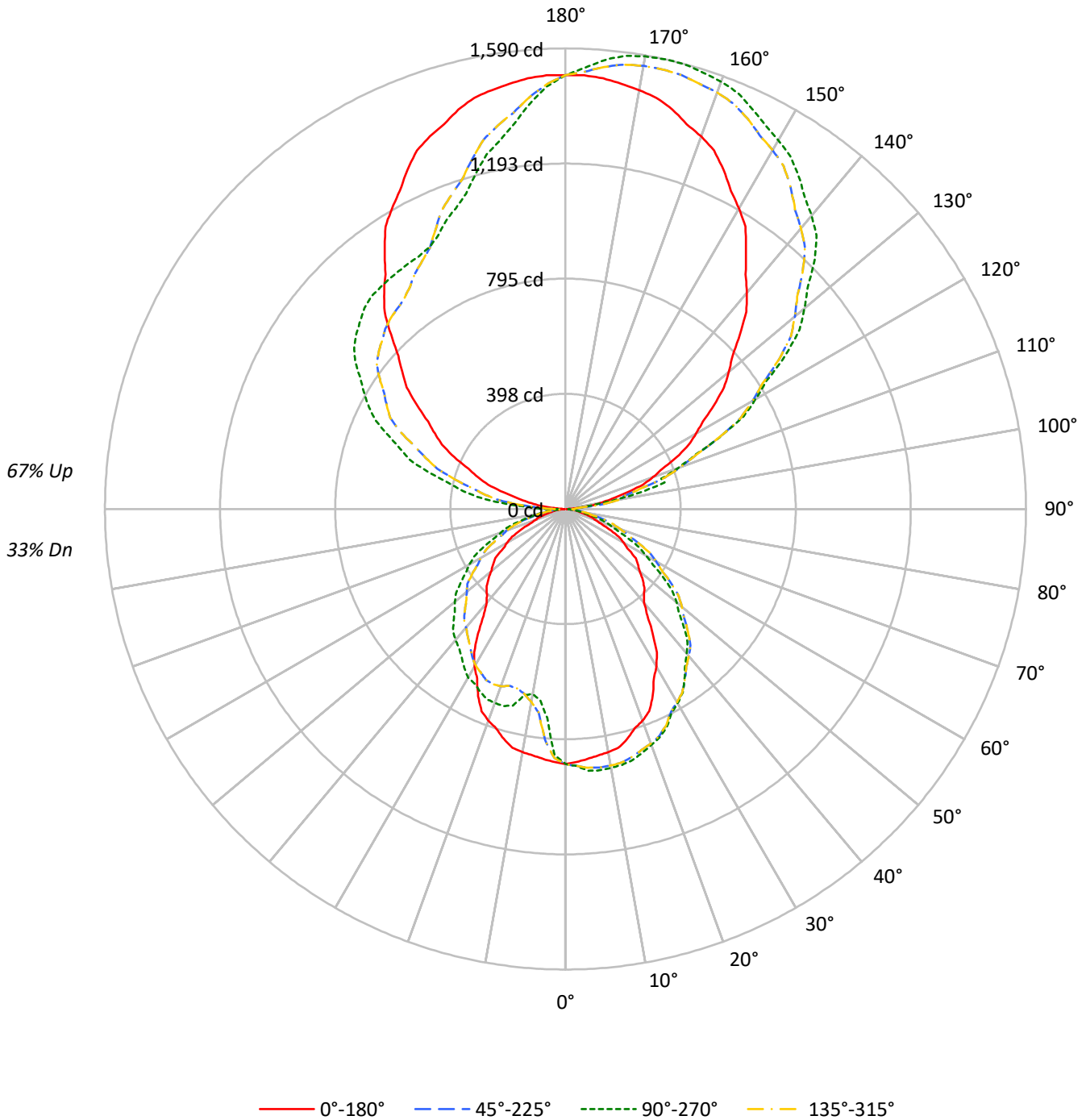
Lumens per Lamp: N/A
Luminaire Lumens: 6563.3 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 50.9
Input Voltage (V): 120
Input Current (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

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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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33
1	94	90	86	83	85	81	78	75	65	63	61	50	49	47	36	35	35	28
2	86	79	73	68	77	71	66	62	57	53	50	44	42	40	32	30	29	24
3	78	69	62	56	70	62	56	52	50	46	42	39	36	33	28	26	25	20
4	71	61	53	47	64	55	49	44	44	40	36	35	31	29	25	23	21	17
5	65	54	46	40	59	49	42	37	40	35	31	31	27	25	23	20	19	15
6	60	48	41	35	54	44	37	32	36	31	27	28	24	22	21	18	16	13
7	56	44	36	30	50	40	33	28	32	27	24	25	22	19	19	16	14	12
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	15	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	18	15	16	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	15	12	11	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14210	14210	14210	14210
5°	14044	14706	14044	11721
10°	13981	14876	13981	10625
15°	13741	14997	13741	11746
20°	13364	14888	13364	12251
25°	12702	14767	12702	12397
30°	11702	14437	11702	12528
35°	10354	14120	10354	12305
40°	8915	13733	8915	12439
45°	8802	13241	8802	12462
50°	8397	12597	8397	12509
55°	8355	11620	8355	12388
60°	7492	10356	7492	12338
65°	6388	9123	6388	11988
70°	5155	7728	5155	11112
75°	4467	6382	4467	10212
80°	3803	4760	3803	8247
85°	2519	2519	2519	5057

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 40°
 Vertical Angle: 45°
 Luminance: 13657 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	1.2
10°-20°	221.3	3.4
20°-30°	336.0	5.1
30°-40°	394.5	6.0
40°-50°	400.4	6.1
50°-60°	350.7	5.3
60°-70°	248.7	3.8
70°-80°	128.1	2.0
80°-90°	33.0	0.5
90°-100°	119.2	1.8
100°-110°	347.5	5.3
110°-120°	567.1	8.6
120°-130°	719.6	11.0
130°-140°	770.0	11.7
140°-150°	719.0	11.0
150°-160°	591.6	9.0
160°-170°	396.8	6.0
170°-180°	140.9	2.1
0°-30°	636.5	9.7
0°-40°	1031.0	15.7
0°-60°	1782.0	27.2
0°-90°	2191.9	33.4
90°-120°	1033.7	15.7
90°-150°	3242.2	49.4
90°-180°	4371.0	66.6
0°-180°	6563.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	880	880	880	880	880	
5°	866	907	866	723	866	82
15°	822	897	822	703	822	231
25°	713	829	713	696	713	325
35°	525	716	525	624	525	327
45°	386	580	386	546	386	295
55°	297	413	297	440	297	257
65°	167	239	167	314	167	167
75°	72	102	72	164	72	77
85°	14	14	14	27	14	17
90°	4	33	4	65	4	4
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°	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1
2.5°	874.7	880.7	886.8	888.3	888.3	888.3	888.3	888.3	888.3	888.3	888.3
5°	866.5	877.1	887.7	892.6	895.7	897.9	899.4	901.3	904.4	907.4	904.4
7.5°	858.3	872.5	886.8	893.8	898.3	901.9	904.7	907.1	908.6	910.1	908.6
10°	852.8	869.5	886.2	893.8	898.3	901.3	902.9	904.4	905.9	907.4	905.9
12.5°	844.6	862.5	880.4	889.2	895.0	898.6	900.1	901.6	903.2	904.7	903.2
15°	822.1	846.4	870.6	880.1	884.7	888.5	891.5	894.1	895.7	897.2	895.7
17.5°	794.1	823.6	853.0	864.9	870.9	875.3	878.1	880.4	881.6	882.8	881.6
20°	777.8	809.6	841.5	854.0	860.0	863.8	865.3	866.5	866.5	866.5	866.5
22.5°	755.9	791.4	826.9	840.3	846.4	849.6	849.9	850.4	851.6	852.8	851.6
25°	713.0	753.9	794.8	811.9	821.0	824.8	823.3	822.9	825.9	828.9	825.9
27.5°	660.4	712.0	763.5	781.0	787.0	790.8	792.3	793.5	793.5	793.5	793.5
30°	627.7	685.3	742.9	761.9	767.9	771.7	773.2	774.4	774.4	774.4	774.4
32.5°	586.7	655.3	723.8	744.6	749.4	752.0	752.3	752.5	752.5	752.5	752.5
35°	525.3	608.7	692.1	715.2	718.3	719.8	719.8	719.4	717.9	716.4	717.9
37.5°	463.9	558.5	653.1	680.2	684.8	686.0	683.8	681.9	680.4	678.8	680.4
40°	423.0	526.1	629.2	658.4	662.9	662.9	658.4	654.6	653.1	651.6	653.1
42.5°	401.2	503.1	604.9	633.8	638.4	637.8	632.0	627.3	625.8	624.3	625.8
45°	385.5	476.4	567.4	593.6	598.1	597.4	591.3	586.0	583.0	579.9	583.0
47.5°	361.6	441.6	521.7	547.4	555.0	554.2	545.1	537.5	534.5	531.5	534.5
50°	334.3	413.1	492.0	517.4	525.0	524.2	515.1	507.5	504.5	501.5	504.5
52.5°	315.2	389.2	463.2	486.4	492.8	490.8	480.5	472.0	469.0	466.0	469.0
55°	296.8	358.9	421.1	440.1	444.6	441.6	431.0	421.9	417.3	412.8	417.3
57.5°	253.8	312.9	372.1	390.5	395.3	391.7	379.6	369.2	364.0	358.9	364.0
60°	232.0	285.0	338.1	355.9	362.0	358.9	346.8	335.8	328.2	320.7	328.2
62.5°	207.4	254.4	301.4	319.5	328.0	326.2	314.1	303.1	295.5	287.9	295.5
65°	167.2	208.1	249.0	267.2	277.8	277.1	264.9	254.0	246.4	238.8	246.4
67.5°	131.0	166.2	201.3	219.2	231.4	230.8	217.4	205.9	199.8	193.8	199.8
70°	109.2	139.5	169.8	186.5	198.6	198.6	186.5	175.9	169.8	163.7	169.8
72.5°	95.5	118.6	141.6	157.4	170.7	170.7	157.4	146.2	141.3	136.5	141.3
75°	71.6	85.3	98.9	113.7	128.9	130.4	118.3	108.4	105.4	102.3	105.4
77.5°	51.9	58.2	64.6	76.2	89.5	91.0	80.7	72.7	71.5	70.3	71.5
80°	40.9	42.5	44.0	53.4	65.6	67.1	58.0	51.2	51.2	51.2	51.2
82.5°	27.3	28.8	30.3	37.1	45.6	46.5	39.8	34.5	33.3	32.1	33.3
85°	13.6	13.6	13.6	15.9	19.0	19.0	15.9	13.6	13.6	13.6	13.6
87.5°	3.6	4.8	6.4	8.5	10.6	10.9	9.7	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°	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1
2.5°	888.3	888.3	888.3	888.3	888.3	886.8	880.7	874.7	874.7	874.7	870.1
5°	901.3	899.4	897.9	895.7	892.6	887.7	877.1	866.5	861.9	857.4	838.0
7.5°	907.1	904.7	901.9	898.3	893.8	886.8	872.5	858.3	838.0	817.6	774.6
10°	904.4	902.9	901.3	898.3	893.8	886.2	869.5	852.8	811.9	771.0	730.0
12.5°	901.6	900.1	898.6	895.0	889.2	880.4	862.5	844.6	786.7	728.8	691.8
15°	894.1	891.5	888.5	884.7	880.1	870.6	846.4	822.1	756.9	691.7	660.7
17.5°	880.4	878.1	875.3	870.9	864.9	853.0	823.6	794.1	725.9	657.7	637.7
20°	866.5	865.3	863.8	860.0	854.0	841.5	809.6	777.8	709.5	641.3	632.2
22.5°	850.4	849.9	849.6	846.4	840.3	826.9	791.4	755.9	688.9	621.9	622.2
25°	822.9	823.3	824.8	821.0	811.9	794.8	753.9	713.0	653.8	594.7	604.9
27.5°	793.5	792.3	790.8	787.0	781.0	763.5	712.0	660.4	613.7	567.0	584.0
30°	774.4	773.2	771.7	767.9	761.9	742.9	685.3	627.7	588.3	548.8	568.5
32.5°	752.5	752.3	752.0	749.4	744.6	723.8	655.3	586.7	558.2	529.7	550.4
35°	719.4	719.8	719.8	718.3	715.2	692.1	608.7	525.3	513.2	501.1	525.3
37.5°	681.9	683.8	686.0	684.8	680.2	653.1	558.5	463.9	467.9	471.8	501.2
40°	654.6	658.4	662.9	662.9	658.4	629.2	526.1	423.0	436.6	450.3	482.1
42.5°	627.3	632.0	637.8	638.4	633.8	604.9	503.1	401.2	416.0	430.9	463.9
45°	586.0	591.3	597.4	598.1	593.6	567.4	476.4	385.5	394.6	403.7	435.5
47.5°	537.5	545.1	554.2	555.0	547.4	521.7	441.6	361.6	368.3	374.9	407.5
50°	507.5	515.1	524.2	525.0	517.4	492.0	413.1	334.3	343.4	352.5	386.6
52.5°	472.0	480.5	490.8	492.8	486.4	463.2	389.2	315.2	320.7	326.1	363.0
55°	421.9	431.0	441.6	444.6	440.1	421.1	358.9	296.8	292.2	287.7	325.2
57.5°	369.2	379.6	391.7	395.3	390.5	372.1	312.9	253.8	249.9	245.9	286.5
60°	335.8	346.8	358.9	362.0	355.9	338.1	285.0	232.0	224.4	216.8	259.3
62.5°	303.1	314.1	326.2	328.0	319.5	301.4	254.4	207.4	202.3	197.1	238.3
65°	254.0	264.9	277.1	277.8	267.2	249.0	208.1	167.2	170.2	173.2	210.4
67.5°	205.9	217.4	230.8	231.4	219.2	201.3	166.2	131.0	141.0	151.0	184.4
70°	175.9	186.5	198.6	198.6	186.5	169.8	139.5	109.2	122.8	136.5	167.2
72.5°	146.2	157.4	170.7	170.7	157.4	141.6	118.6	95.5	109.2	122.8	148.0
75°	108.4	118.3	130.4	128.9	113.7	98.9	85.3	71.6	85.3	98.9	118.3
77.5°	72.7	80.7	91.0	89.5	76.2	64.6	58.2	51.9	63.1	74.3	87.8
80°	51.2	58.0	67.1	65.6	53.4	44.0	42.5	40.9	48.5	56.1	66.0
82.5°	34.5	39.8	46.5	45.6	37.1	30.3	28.8	27.3	33.7	40.0	46.8
85°	13.6	15.9	19.0	19.0	15.9	13.6	13.6	13.6	16.7	19.7	22.7
87.5°	9.1	9.7	10.9	10.6	8.5	6.4	4.8	3.6	6.1	8.5	10.9
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: P1435811

CATALOG NUMBER: SQ2W-FA-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: P1435811

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

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1
2.5°	864.0	859.2	855.6	852.5	851.3	850.1	851.3	852.5	855.6	859.2	864.0
5°	813.8	788.0	760.7	738.4	730.8	723.2	730.8	738.4	760.7	788.0	813.8
7.5°	724.0	692.9	681.3	672.1	669.7	667.2	669.7	672.1	681.3	692.9	724.0
10°	689.1	664.1	655.0	648.1	648.1	648.1	648.1	648.1	655.0	664.1	689.1
12.5°	661.8	646.5	645.9	646.9	653.0	659.1	653.0	646.9	645.9	646.5	661.8
15°	640.9	643.2	667.5	687.6	695.1	702.7	695.1	687.6	667.5	643.2	640.9
17.5°	633.7	646.8	676.8	700.8	706.9	713.0	706.9	700.8	676.8	646.8	633.7
20°	642.8	659.5	682.3	700.8	706.9	713.0	706.9	700.8	682.3	659.5	642.8
22.5°	645.0	665.3	683.2	698.1	704.2	710.2	704.2	698.1	683.2	665.3	645.0
25°	638.3	662.5	677.7	689.8	692.9	695.9	692.9	689.8	677.7	662.5	638.3
27.5°	622.2	648.9	664.1	676.0	678.1	680.2	678.1	676.0	664.1	648.9	622.2
30°	608.0	635.3	650.4	662.9	667.5	672.0	667.5	662.9	650.4	635.3	608.0
32.5°	587.3	615.2	634.0	648.4	649.3	650.2	649.3	648.4	634.0	615.2	587.3
35°	561.7	590.5	611.8	627.3	625.8	624.3	625.8	627.3	611.8	590.5	561.7
37.5°	539.1	567.3	585.8	600.2	602.0	603.8	602.0	600.2	585.8	567.3	539.1
40°	520.0	548.8	568.5	584.1	587.1	590.2	587.1	584.1	568.5	548.8	520.0
42.5°	503.1	532.5	552.2	567.7	570.7	573.8	570.7	567.7	552.2	532.5	503.1
45°	474.9	505.2	526.5	542.8	544.3	545.8	544.3	542.8	526.5	505.2	474.9
47.5°	448.8	479.2	499.0	514.1	515.6	517.2	515.6	514.1	499.0	479.2	448.8
50°	429.1	460.1	479.9	495.0	496.5	498.0	496.5	495.0	479.9	460.1	429.1
52.5°	410.3	442.6	459.8	473.2	474.7	476.2	474.7	473.2	459.8	442.6	410.3
55°	376.8	410.9	427.5	440.1	440.1	440.1	440.1	427.5	410.9	376.8	
57.5°	342.0	377.1	391.6	403.0	404.8	406.6	404.8	403.0	391.6	377.1	342.0
60°	318.4	354.0	366.1	376.0	379.0	382.1	379.0	376.0	366.1	354.0	318.4
62.5°	295.0	329.5	341.6	351.1	353.0	354.8	353.0	351.1	341.6	329.5	295.0
65°	258.9	289.2	301.3	310.8	312.3	313.8	312.3	310.8	301.3	289.2	258.9
67.5°	225.7	250.5	259.0	265.7	266.9	268.1	266.9	265.7	259.0	250.5	225.7
70°	203.5	224.8	230.8	235.4	235.4	235.4	235.4	230.8	224.8	203.5	
72.5°	177.2	194.7	200.8	205.7	206.9	208.1	206.9	205.7	200.8	194.7	177.2
75°	139.5	152.4	156.9	160.7	162.2	163.7	162.2	160.7	156.9	152.4	139.5
77.5°	102.0	110.5	113.3	115.7	117.2	118.7	117.2	115.7	113.3	110.5	102.0
80°	76.6	82.6	84.1	85.7	87.2	88.7	87.2	85.7	84.1	82.6	76.6
82.5°	53.8	58.1	59.6	60.8	61.1	61.4	61.1	60.8	59.6	58.1	53.8
85°	25.8	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	25.8
87.5°	12.4	14.5	16.6	17.9	19.1	18.5	19.1	17.9	16.6	14.5	12.4
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: P1435811

CATALOG NUMBER: SQ2W-FA-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: P1435811

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

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	880.1	880.1	880.1	880.1
2.5°	870.1	874.7	874.7	874.7
5°	838.0	857.4	861.9	866.5
7.5°	774.6	817.6	838.0	858.3
10°	730.0	771.0	811.9	852.8
12.5°	691.8	728.8	786.7	844.6
15°	660.7	691.7	756.9	822.1
17.5°	637.7	657.7	725.9	794.1
20°	632.2	641.3	709.5	777.8
22.5°	622.2	621.9	688.9	755.9
25°	604.9	594.7	653.8	713.0
27.5°	584.0	567.0	613.7	660.4
30°	568.5	548.8	588.3	627.7
32.5°	550.4	529.7	558.2	586.7
35°	525.3	501.1	513.2	525.3
37.5°	501.2	471.8	467.9	463.9
40°	482.1	450.3	436.6	423.0
42.5°	463.9	430.9	416.0	401.2
45°	435.5	403.7	394.6	385.5
47.5°	407.5	374.9	368.3	361.6
50°	386.6	352.5	343.4	334.3
52.5°	363.0	326.1	320.7	315.2
55°	325.2	287.7	292.2	296.8
57.5°	286.5	245.9	249.9	253.8
60°	259.3	216.8	224.4	232.0
62.5°	238.3	197.1	202.3	207.4
65°	210.4	173.2	170.2	167.2
67.5°	184.4	151.0	141.0	131.0
70°	167.2	136.5	122.8	109.2
72.5°	148.0	122.8	109.2	95.5
75°	118.3	98.9	85.3	71.6
77.5°	87.8	74.3	63.1	51.9
80°	66.0	56.1	48.5	40.9
82.5°	46.8	40.0	33.7	27.3
85°	22.7	19.7	16.7	13.6
87.5°	10.9	8.5	6.1	3.6
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: P1435811

CATALOG NUMBER: SQ2W-FA-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: P1435811
 CATALOG NUMBER: SQ2W-FA-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	13.82	14.55	14.91	15.64	17.13	15.02	15.75	16.11	16.84	18.33
	3H	14.90	15.55	16.00	16.65	18.16	16.26	16.91	17.35	18.00	19.51
	4H	15.25	15.87	16.36	16.96	18.48	16.64	17.26	17.75	18.36	19.87
	6H	15.40	15.97	16.52	17.07	18.60	16.79	17.36	17.91	18.46	19.99
	8H	15.43	15.98	16.55	17.09	18.61	16.81	17.36	17.93	18.47	19.99
	12H	15.43	15.94	16.55	17.05	18.59	16.79	17.31	17.92	18.42	19.96
4H	2H	14.67	15.29	15.79	16.39	17.90	15.59	16.21	16.70	17.30	18.82
	3H	16.05	16.57	17.17	17.69	19.22	17.04	17.56	18.16	18.68	20.21
	4H	16.50	16.97	17.63	18.09	19.63	17.51	17.98	18.64	19.10	20.64
	6H	16.72	17.13	17.85	18.26	19.80	17.73	18.13	18.86	19.27	20.81
	8H	16.78	17.16	17.91	18.28	19.84	17.77	18.15	18.90	19.28	20.83
	12H	16.77	17.12	17.92	18.25	19.81	17.75	18.10	18.90	19.24	20.80
8H	4H	16.87	17.25	18.00	18.38	19.93	17.70	18.07	18.83	19.20	20.76
	6H	17.22	17.53	18.37	18.70	20.25	18.00	18.32	19.16	19.49	21.04
	8H	17.33	17.61	18.49	18.76	20.33	18.10	18.37	19.26	19.52	21.09
	12H	17.37	17.61	18.53	18.75	20.36	18.11	18.35	19.27	19.49	21.10
12H	4H	16.87	17.21	18.02	18.35	19.91	17.66	18.00	18.81	19.14	20.70
	6H	17.29	17.56	18.45	18.71	20.28	18.02	18.29	19.18	19.44	21.02
	8H	17.43	17.67	18.59	18.81	20.42	18.13	18.37	19.29	19.51	21.12