

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: P1435991

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

Issue Date: 3/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1435991
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-100U-100D-L830-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - FROSTED CONTINUOUS BATWING ROLL LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

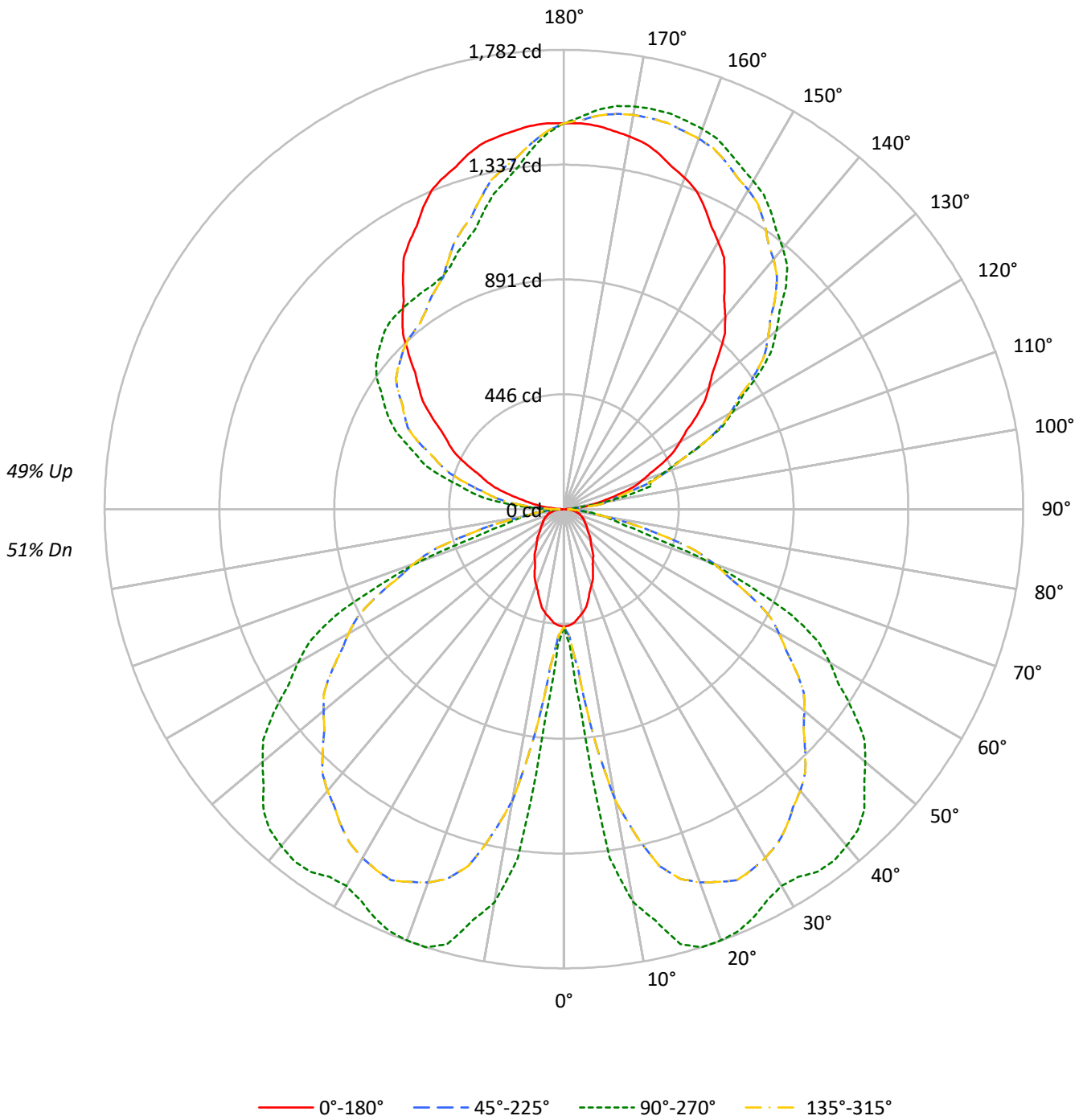
Lumens per Lamp: N/A
Luminaire Lumens: 8882.7 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 2.98 / 2.52
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 70.7
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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CATALOG NUMBER: SQ2W-FB-K-100U-100D-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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51				
1	98	93	89	86	90	86	83	80	73	71	68	61	59	58	50	49	48	42				
2	89	81	75	69	82	75	70	65	64	60	56	53	50	48	43	41	40	35				
3	81	71	63	57	74	66	59	54	56	51	47	47	43	40	38	35	33	29				
4	73	62	54	48	67	58	51	45	49	44	39	41	37	33	34	31	28	24				
5	67	55	47	41	62	51	44	38	44	38	33	37	32	29	30	27	24	21				
6	62	49	41	35	57	46	38	33	39	33	29	33	28	25	27	23	21	18				
7	57	44	36	30	52	41	34	28	35	29	25	30	25	22	24	21	18	16				
8	53	40	32	26	48	37	30	25	32	26	22	27	22	19	22	19	16	14				
9	49	36	29	23	45	34	27	22	29	23	19	25	20	17	20	17	14	12				
10	45	33	26	21	42	31	24	20	27	21	17	23	18	15	19	15	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7364	7364	7364	7364
5°	7180	13044	7180	13044
10°	6723	25382	6723	25382
15°	6084	29215	6084	29215
20°	5388	30596	5388	30596
25°	4765	31097	4765	31097
30°	4212	31481	4212	31481
35°	3761	33844	3761	33844
40°	3421	35959	3421	35959
45°	3156	37654	3156	37654
50°	2974	38338	2974	38338
55°	2902	38643	2902	38643
60°	2974	38452	2974	38452
65°	3098	37367	3098	37367
70°	3210	28262	3210	28262
75°	3556	15595	3556	15595
80°	3673	14477	3673	14477
85°	3649	6095	3649	6095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 52.5°
 Luminance: 38993 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	0.9
10°-20°	348.7	3.9
20°-30°	613.6	6.9
30°-40°	794.3	8.9
40°-50°	876.0	9.9
50°-60°	817.6	9.2
60°-70°	631.6	7.1
70°-80°	291.2	3.3
80°-90°	61.9	0.7
90°-100°	119.2	1.3
100°-110°	347.5	3.9
110°-120°	567.1	6.4
120°-130°	719.6	8.1
130°-140°	770.0	8.7
140°-150°	719.0	8.1
150°-160°	591.6	6.7
160°-170°	396.8	4.5
170°-180°	140.9	1.6
0°-30°	1038.7	11.7
0°-40°	1833.0	20.6
0°-60°	3526.6	39.7
0°-90°	4511.2	50.8
90°-120°	1033.7	11.6
90°-150°	3242.2	36.5
90°-180°	4371.0	49.2
0°-180°	8882.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	456	456	456	456	456	
5°	443	805	443	805	443	41
15°	364	1748	364	1748	364	101
25°	268	1746	268	1746	268	123
35°	191	1717	191	1717	191	120
45°	138	1649	138	1649	138	107
55°	103	1373	103	1373	103	93
65°	81	978	81	978	81	80
75°	57	250	57	250	57	59
85°	20	33	20	33	20	21
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°	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1
2.5°	452.6	461.2	469.8	478.9	488.3	498.4	509.4	518.7	523.4	528.1	523.4
5°	443.0	472.2	501.5	543.9	590.6	643.8	703.2	754.1	779.5	804.8	779.5
7.5°	425.9	485.3	544.8	670.8	818.9	972.7	1132.1	1264.4	1315.1	1365.8	1315.1
10°	410.1	492.9	575.8	789.5	1046.8	1244.6	1383.0	1493.6	1520.9	1548.2	1520.9
12.5°	392.5	505.0	617.5	881.3	1195.5	1401.2	1498.2	1578.1	1606.1	1634.2	1606.1
15°	364.0	524.8	685.7	983.9	1328.0	1539.5	1618.4	1685.4	1716.6	1747.8	1716.6
17.5°	334.6	548.7	762.7	1066.9	1401.2	1607.5	1685.7	1748.5	1765.5	1782.4	1765.5
20°	313.6	565.1	816.5	1121.3	1443.9	1638.9	1706.1	1759.2	1770.0	1780.7	1770.0
22.5°	294.3	575.4	856.5	1161.7	1474.9	1657.0	1707.9	1748.9	1760.4	1771.9	1760.4
25°	267.5	584.3	901.1	1205.4	1505.6	1671.8	1703.9	1730.0	1737.8	1745.6	1737.8
27.5°	241.7	576.4	911.1	1211.5	1500.6	1655.7	1676.7	1694.4	1702.0	1709.6	1702.0
30°	225.9	566.0	906.2	1203.9	1487.6	1637.2	1652.8	1667.1	1677.9	1688.6	1677.9
32.5°	211.8	553.6	895.3	1189.3	1467.5	1614.0	1628.8	1645.7	1668.9	1692.1	1668.9
35°	190.8	527.0	863.3	1154.2	1430.1	1579.7	1603.0	1631.3	1674.2	1717.1	1674.2
37.5°	172.8	493.1	813.3	1101.3	1378.5	1541.5	1590.5	1637.5	1678.8	1720.2	1678.8
40°	162.3	469.3	776.3	1062.1	1340.9	1512.9	1578.2	1635.9	1671.0	1706.1	1671.0
42.5°	151.8	442.4	733.0	1016.5	1297.6	1476.2	1552.5	1618.4	1653.5	1688.6	1653.5
45°	138.2	399.4	660.6	941.5	1229.0	1417.6	1507.3	1582.8	1616.0	1649.1	1616.0
47.5°	125.4	352.3	579.2	861.4	1162.0	1359.8	1455.0	1532.3	1556.5	1580.7	1556.5
50°	118.4	321.1	523.9	807.0	1116.9	1318.7	1412.3	1487.3	1506.8	1526.3	1506.8
52.5°	111.4	290.7	470.1	753.8	1072.3	1275.6	1363.7	1434.3	1452.2	1470.2	1452.2
55°	103.1	249.3	395.5	676.2	1001.7	1203.0	1280.0	1341.6	1357.2	1372.8	1357.2
57.5°	95.6	213.5	331.5	603.4	926.5	1121.0	1186.7	1239.1	1251.8	1264.5	1251.8
60°	92.1	194.4	296.8	557.7	871.6	1058.2	1117.7	1165.4	1178.1	1190.8	1178.1
62.5°	86.8	175.9	265.0	512.1	811.9	989.2	1044.0	1088.0	1099.9	1111.8	1099.9
65°	81.1	153.3	225.4	448.1	721.0	880.3	926.2	962.5	970.3	978.1	970.3
67.5°	73.2	134.5	195.7	389.5	627.5	760.7	789.2	806.9	792.2	777.6	792.2
70°	68.0	124.5	181.0	353.8	565.3	675.9	685.7	682.5	640.6	598.7	640.6
72.5°	64.5	114.8	165.1	314.6	497.3	577.9	556.4	520.5	441.2	361.8	441.2
75°	57.0	98.0	138.9	251.5	387.9	409.4	315.8	246.1	248.0	250.0	248.0
77.5°	46.5	77.1	107.7	176.9	259.0	275.2	225.7	189.0	190.8	192.5	190.8
80°	39.5	63.8	88.2	115.5	143.8	156.9	155.0	153.8	154.7	155.7	154.7
82.5°	32.5	50.6	68.7	85.1	100.9	109.7	111.7	112.8	111.5	110.1	111.5
85°	19.7	30.5	41.2	47.5	52.4	50.9	43.1	36.8	34.8	32.9	34.8
87.5°	7.9	13.0	18.4	18.3	16.1	14.8	14.8	15.1	15.4	15.4	15.4
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



TEST NUMBER: P1435991

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

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°	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1
2.5°	518.7	509.4	498.4	488.3	478.9	469.8	461.2	452.6	461.2	469.8	478.9
5°	754.1	703.2	643.8	590.6	543.9	501.5	472.2	443.0	472.2	501.5	543.9
7.5°	1264.4	1132.1	972.7	818.9	670.8	544.8	485.3	425.9	485.3	544.8	670.8
10°	1493.6	1383.0	1244.6	1046.8	789.5	575.8	492.9	410.1	492.9	575.8	789.5
12.5°	1578.1	1498.2	1401.2	1195.5	881.3	617.5	505.0	392.5	505.0	617.5	881.3
15°	1685.4	1618.4	1539.5	1328.0	983.9	685.7	524.8	364.0	524.8	685.7	983.9
17.5°	1748.5	1685.7	1607.5	1401.2	1066.9	762.7	548.7	334.6	548.7	762.7	1066.9
20°	1759.2	1706.1	1638.9	1443.9	1121.3	816.5	565.1	313.6	565.1	816.5	1121.3
22.5°	1748.9	1707.9	1657.0	1474.9	1161.7	856.5	575.4	294.3	575.4	856.5	1161.7
25°	1730.0	1703.9	1671.8	1505.6	1205.4	901.1	584.3	267.5	584.3	901.1	1205.4
27.5°	1694.4	1676.7	1655.7	1500.6	1211.5	911.1	576.4	241.7	576.4	911.1	1211.5
30°	1667.1	1652.8	1637.2	1487.6	1203.9	906.2	566.0	225.9	566.0	906.2	1203.9
32.5°	1645.7	1628.8	1614.0	1467.5	1189.3	895.3	553.6	211.8	553.6	895.3	1189.3
35°	1631.3	1603.0	1579.7	1430.1	1154.2	863.3	527.0	190.8	527.0	863.3	1154.2
37.5°	1637.5	1590.5	1541.5	1378.5	1101.3	813.3	493.1	172.8	493.1	813.3	1101.3
40°	1635.9	1578.2	1512.9	1340.9	1062.1	776.3	469.3	162.3	469.3	776.3	1062.1
42.5°	1618.4	1552.5	1476.2	1297.6	1016.5	733.0	442.4	151.8	442.4	733.0	1016.5
45°	1582.8	1507.3	1417.6	1229.0	941.5	660.6	399.4	138.2	399.4	660.6	941.5
47.5°	1532.3	1455.0	1359.8	1162.0	861.4	579.2	352.3	125.4	352.3	579.2	861.4
50°	1487.3	1412.3	1318.7	1116.9	807.0	523.9	321.1	118.4	321.1	523.9	807.0
52.5°	1434.3	1363.7	1275.6	1072.3	753.8	470.1	290.7	111.4	290.7	470.1	753.8
55°	1341.6	1280.0	1203.0	1001.7	676.2	395.5	249.3	103.1	249.3	395.5	676.2
57.5°	1239.1	1186.7	1121.0	926.5	603.4	331.5	213.5	95.6	213.5	331.5	603.4
60°	1165.4	1117.7	1058.2	871.6	557.7	296.8	194.4	92.1	194.4	296.8	557.7
62.5°	1088.0	1044.0	989.2	811.9	512.1	265.0	175.9	86.8	175.9	265.0	512.1
65°	962.5	926.2	880.3	721.0	448.1	225.4	153.3	81.1	153.3	225.4	448.1
67.5°	806.9	789.2	760.7	627.5	389.5	195.7	134.5	73.2	134.5	195.7	389.5
70°	682.5	685.7	675.9	565.3	353.8	181.0	124.5	68.0	124.5	181.0	353.8
72.5°	520.5	556.4	577.9	497.3	314.6	165.1	114.8	64.5	114.8	165.1	314.6
75°	246.1	315.8	409.4	387.9	251.5	138.9	98.0	57.0	98.0	138.9	251.5
77.5°	189.0	225.7	275.2	259.0	176.9	107.7	77.1	46.5	77.1	107.7	176.9
80°	153.8	155.0	156.9	143.8	115.5	88.2	63.8	39.5	63.8	88.2	115.5
82.5°	112.8	111.7	109.7	100.9	85.1	68.7	50.6	32.5	50.6	68.7	85.1
85°	36.8	43.1	50.9	52.4	47.5	41.2	30.5	19.7	30.5	41.2	47.5
87.5°	15.1	14.8	14.8	16.1	18.3	18.4	13.0	7.9	13.0	18.1	18.9
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: P1435991

CATALOG NUMBER: SQ2W-FB-K-100U-100D-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: P1435991

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

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1	456.1
2.5°	488.3	498.4	509.4	518.7	523.4	528.1	523.4	518.7	509.4	498.4	488.3
5°	590.6	643.8	703.2	754.1	779.5	804.8	779.5	754.1	703.2	643.8	590.6
7.5°	818.9	972.7	1132.1	1264.4	1315.1	1365.8	1315.1	1264.4	1132.1	972.7	818.9
10°	1046.8	1244.6	1383.0	1493.6	1520.9	1548.2	1520.9	1493.6	1383.0	1244.6	1046.8
12.5°	1195.5	1401.2	1498.2	1578.1	1606.1	1634.2	1606.1	1578.1	1498.2	1401.2	1195.5
15°	1328.0	1539.5	1618.4	1685.4	1716.6	1747.8	1716.6	1685.4	1618.4	1539.5	1328.0
17.5°	1401.2	1607.5	1685.7	1748.5	1765.5	1782.4	1765.5	1748.5	1685.7	1607.5	1401.2
20°	1443.9	1638.9	1706.1	1759.2	1770.0	1780.7	1770.0	1759.2	1706.1	1638.9	1443.9
22.5°	1474.9	1657.0	1707.9	1748.9	1760.4	1771.9	1760.4	1748.9	1707.9	1657.0	1474.9
25°	1505.6	1671.8	1703.9	1730.0	1737.8	1745.6	1737.8	1730.0	1703.9	1671.8	1505.6
27.5°	1500.6	1655.7	1676.7	1694.4	1702.0	1709.6	1702.0	1694.4	1676.7	1655.7	1500.6
30°	1487.6	1637.2	1652.8	1667.1	1677.9	1688.6	1677.9	1667.1	1652.8	1637.2	1487.6
32.5°	1467.5	1614.0	1628.8	1645.7	1668.9	1692.1	1668.9	1645.7	1628.8	1614.0	1467.5
35°	1430.1	1579.7	1603.0	1631.3	1674.2	1717.1	1674.2	1631.3	1603.0	1579.7	1430.1
37.5°	1378.5	1541.5	1590.5	1637.5	1678.8	1720.2	1678.8	1637.5	1590.5	1541.5	1378.5
40°	1340.9	1512.9	1578.2	1635.9	1671.0	1706.1	1671.0	1635.9	1578.2	1512.9	1340.9
42.5°	1297.6	1476.2	1552.5	1618.4	1653.5	1688.6	1653.5	1618.4	1552.5	1476.2	1297.6
45°	1229.0	1417.6	1507.3	1582.8	1616.0	1649.1	1616.0	1582.8	1507.3	1417.6	1229.0
47.5°	1162.0	1359.8	1455.0	1532.3	1556.5	1580.7	1556.5	1532.3	1455.0	1359.8	1162.0
50°	1116.9	1318.7	1412.3	1487.3	1506.8	1526.3	1506.8	1487.3	1412.3	1318.7	1116.9
52.5°	1072.3	1275.6	1363.7	1434.3	1452.2	1470.2	1452.2	1434.3	1363.7	1275.6	1072.3
55°	1001.7	1203.0	1280.0	1341.6	1357.2	1372.8	1357.2	1341.6	1280.0	1203.0	1001.7
57.5°	926.5	1121.0	1186.7	1239.1	1251.8	1264.5	1251.8	1239.1	1186.7	1121.0	926.5
60°	871.6	1058.2	1117.7	1165.4	1178.1	1190.8	1178.1	1165.4	1117.7	1058.2	871.6
62.5°	811.9	989.2	1044.0	1088.0	1099.9	1111.8	1099.9	1088.0	1044.0	989.2	811.9
65°	721.0	880.3	926.2	962.5	970.3	978.1	970.3	962.5	926.2	880.3	721.0
67.5°	627.5	760.7	789.2	806.9	792.2	777.6	792.2	806.9	789.2	760.7	627.5
70°	565.3	675.9	685.7	682.5	640.6	598.7	640.6	682.5	685.7	675.9	565.3
72.5°	497.3	577.9	556.4	520.5	441.2	361.8	441.2	520.5	556.4	577.9	497.3
75°	387.9	409.4	315.8	246.1	248.0	250.0	248.0	246.1	315.8	409.4	387.9
77.5°	259.0	275.2	225.7	189.0	190.8	192.5	190.8	189.0	225.7	275.2	259.0
80°	143.8	156.9	155.0	153.8	154.7	155.7	154.7	153.8	155.0	156.9	143.8
82.5°	100.9	109.7	111.7	112.8	111.5	110.1	111.5	112.8	111.7	109.7	100.9
85°	52.4	50.9	43.1	36.8	34.8	32.9	34.8	36.8	43.1	50.9	52.4
87.5°	17.3	17.8	20.0	21.2	22.4	21.8	22.4	21.2	20.0	17.8	17.3
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: P1435991

CATALOG NUMBER: SQ2W-FB-K-100U-100D-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: P1435991

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

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	456.1	456.1	456.1	456.1
2.5°	478.9	469.8	461.2	452.6
5°	543.9	501.5	472.2	443.0
7.5°	670.8	544.8	485.3	425.9
10°	789.5	575.8	492.9	410.1
12.5°	881.3	617.5	505.0	392.5
15°	983.9	685.7	524.8	364.0
17.5°	1066.9	762.7	548.7	334.6
20°	1121.3	816.5	565.1	313.6
22.5°	1161.7	856.5	575.4	294.3
25°	1205.4	901.1	584.3	267.5
27.5°	1211.5	911.1	576.4	241.7
30°	1203.9	906.2	566.0	225.9
32.5°	1189.3	895.3	553.6	211.8
35°	1154.2	863.3	527.0	190.8
37.5°	1101.3	813.3	493.1	172.8
40°	1062.1	776.3	469.3	162.3
42.5°	1016.5	733.0	442.4	151.8
45°	941.5	660.6	399.4	138.2
47.5°	861.4	579.2	352.3	125.4
50°	807.0	523.9	321.1	118.4
52.5°	753.8	470.1	290.7	111.4
55°	676.2	395.5	249.3	103.1
57.5°	603.4	331.5	213.5	95.6
60°	557.7	296.8	194.4	92.1
62.5°	512.1	265.0	175.9	86.8
65°	448.1	225.4	153.3	81.1
67.5°	389.5	195.7	134.5	73.2
70°	353.8	181.0	124.5	68.0
72.5°	314.6	165.1	114.8	64.5
75°	251.5	138.9	98.0	57.0
77.5°	176.9	107.7	77.1	46.5
80°	115.5	88.2	63.8	39.5
82.5°	85.1	68.7	50.6	32.5
85°	47.5	41.2	30.5	19.7
87.5°	18.9	18.1	13.0	7.9
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: P1435991

CATALOG NUMBER: SQ2W-FB-K-100U-100D-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: P1435991
 CATALOG NUMBER: SQ2W-FB-K-100U-100D-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	13.18	14.08	14.13	15.04	16.30	22.78	23.67	23.72	24.64	25.90
	3H	14.13	14.93	15.08	15.90	17.18	24.39	25.19	25.34	26.17	27.45
	4H	14.52	15.29	15.50	16.26	17.55	24.57	25.33	25.54	26.31	27.59
	6H	14.78	15.48	15.76	16.47	17.77	24.64	25.34	25.63	26.33	27.63
	8H	14.87	15.54	15.86	16.54	17.84	24.66	25.33	25.65	26.33	27.63
	12H	14.92	15.56	15.92	16.55	17.88	24.64	25.28	25.64	26.27	27.60
4H	2H	17.91	18.67	18.88	19.65	20.93	23.15	23.91	24.13	24.89	26.18
	3H	19.04	19.67	20.03	20.68	21.98	25.04	25.67	26.03	26.68	27.99
	4H	19.32	19.90	20.32	20.90	22.23	25.26	25.84	26.26	26.84	28.17
	6H	19.46	19.96	20.47	20.98	22.31	25.40	25.90	26.40	26.92	28.25
	8H	19.50	19.97	20.51	20.98	22.32	25.44	25.91	26.45	26.93	28.27
	12H	19.50	19.92	20.53	20.96	22.30	25.43	25.85	26.46	26.88	28.23
8H	4H	20.52	20.98	21.53	22.00	23.34	25.36	25.82	26.37	26.84	28.18
	6H	20.78	21.16	21.81	22.22	23.56	25.56	25.94	26.59	27.00	28.34
	8H	20.88	21.21	21.92	22.26	23.62	25.65	25.99	26.69	27.03	28.39
	12H	20.92	21.22	21.97	22.26	23.66	25.65	25.95	26.70	26.99	28.39
12H	4H	20.54	20.96	21.57	22.00	23.34	25.31	25.73	26.34	26.77	28.11
	6H	20.89	21.22	21.93	22.27	23.63	25.54	25.88	26.58	26.92	28.28
	8H	21.02	21.32	22.07	22.36	23.76	25.64	25.94	26.69	26.98	28.38