

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: P1427927

Luminaire Tested: SQ2W-PH1-K-100U-100D-L830-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1427927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/10/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2W-PH1-K-100U-100D-L830-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - PERCEIVE HEX 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

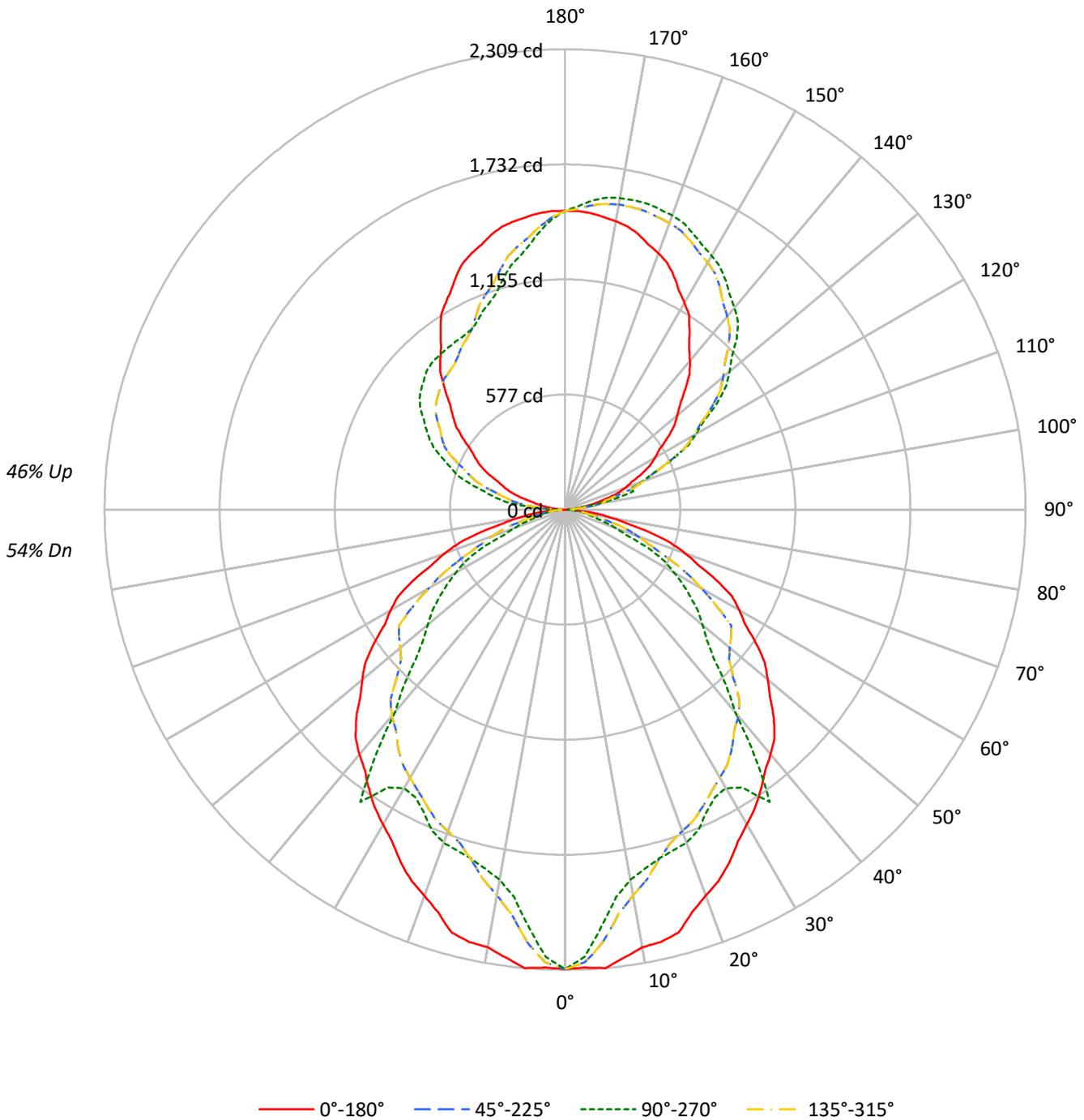
Lumens per Lamp: N/A
Luminaire Lumens: 9473.7 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

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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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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60	54
1	99	95	91	87	92	88	85	82	75	73	71	64	62	60	53	52	51	46
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	66	60	76	68	61	56	58	54	50	50	46	43	42	39	37	33
4	75	65	57	51	70	60	53	48	52	47	42	44	40	37	37	34	32	28
5	69	58	49	43	64	54	47	41	47	41	37	40	36	32	34	30	28	25
6	64	52	44	38	59	48	41	36	42	36	32	36	32	28	31	27	24	22
7	59	47	39	33	55	44	37	31	38	32	28	33	28	25	28	24	22	19
8	55	42	35	29	51	40	33	28	35	29	25	30	26	22	26	22	19	17
9	51	39	31	26	47	36	30	25	32	26	22	28	23	20	24	20	18	15
10	48	36	28	24	44	33	27	22	29	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	37212	37212	37212	37212
5°	37426	34014	37426	34014
10°	36563	30919	36563	30919
15°	36728	30315	36728	30315
20°	35418	30558	35418	30558
25°	34769	29847	34769	29847
30°	34015	30090	34015	30090
35°	33757	35271	33757	35271
40°	33788	27962	33788	27962
45°	33798	24085	33798	24085
50°	33324	22584	33324	22584
55°	32900	21666	32900	21666
60°	32575	20324	32575	20324
65°	32003	17677	32003	17677
70°	30226	12628	30226	12628
75°	26949	9576	26949	9576
80°	22017	8972	22017	8972
85°	13820	6095	13820	6095

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 33798 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.8	2.1
10°-20°	533.4	5.6
20°-30°	782.1	8.3
30°-40°	947.0	10.0
40°-50°	931.2	9.8
50°-60°	810.0	8.6
60°-70°	563.4	5.9
70°-80°	267.2	2.8
80°-90°	65.1	0.7
90°-100°	119.2	1.3
100°-110°	347.5	3.7
110°-120°	567.1	6.0
120°-130°	719.6	7.6
130°-140°	770.0	8.1
140°-150°	719.0	7.6
150°-160°	591.6	6.2
160°-170°	396.8	4.2
170°-180°	140.9	1.5
0°-30°	1518.3	16.0
0°-40°	2465.4	26.0
0°-60°	4206.6	44.4
0°-90°	5102.3	53.9
90°-120°	1033.7	10.9
90°-150°	3242.2	34.2
90°-180°	4371.0	46.1
0°-180°	9473.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2305	2305	2305	2305	2305	
5°	2309	2099	2309	2099	2309	217
15°	2197	1814	2197	1814	2197	613
25°	1952	1675	1952	1675	1952	898
35°	1713	1790	1713	1790	1713	1073
45°	1480	1055	1480	1055	1480	1138
55°	1169	770	1169	770	1169	1044
65°	838	463	838	463	838	823
75°	432	154	432	154	432	458
85°	75	33	75	33	75	100
90°	4	33	4	65	4	6
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°	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8
2.5°	2299.5	2310.4	2321.4	2306.0	2281.8	2265.0	2255.7	2248.3	2246.7	2245.1	2246.7
5°	2309.2	2308.2	2307.2	2261.7	2201.2	2155.9	2125.7	2102.6	2100.6	2098.7	2100.6
7.5°	2267.1	2236.9	2206.6	2145.4	2073.9	2021.5	1988.1	1962.7	1961.2	1959.6	1961.2
10°	2230.2	2184.4	2138.6	2069.4	1992.4	1938.8	1908.6	1885.9	1885.9	1885.9	1885.9
12.5°	2221.5	2149.1	2076.8	2001.0	1924.0	1874.3	1851.9	1836.2	1840.9	1845.6	1840.9
15°	2197.3	2088.2	1979.0	1902.0	1835.7	1799.7	1793.8	1792.1	1802.9	1813.6	1802.9
17.5°	2117.5	2000.0	1882.4	1814.7	1763.7	1744.4	1756.8	1769.3	1781.8	1794.3	1781.8
20°	2061.4	1945.4	1829.4	1766.8	1722.0	1711.2	1734.6	1755.1	1766.8	1778.5	1766.8
22.5°	2014.0	1896.5	1778.9	1723.5	1688.8	1684.3	1710.1	1730.9	1737.2	1743.4	1737.2
25°	1951.7	1819.2	1686.6	1646.2	1636.4	1642.8	1665.2	1681.3	1678.3	1675.4	1678.3
27.5°	1877.2	1738.8	1600.4	1574.4	1585.9	1598.5	1612.1	1622.8	1624.5	1626.3	1624.5
30°	1824.5	1686.1	1547.7	1527.0	1545.5	1561.6	1575.3	1588.7	1601.3	1614.0	1601.3
32.5°	1773.7	1630.6	1487.5	1472.6	1500.5	1530.6	1563.0	1594.5	1623.6	1652.6	1623.6
35°	1712.7	1563.6	1414.5	1402.8	1436.9	1480.7	1534.3	1598.4	1693.9	1789.5	1693.9
37.5°	1648.7	1488.8	1329.0	1323.7	1369.9	1416.1	1462.3	1504.5	1534.9	1565.3	1534.9
40°	1603.1	1435.4	1267.8	1267.5	1323.1	1380.6	1440.0	1467.1	1396.9	1326.7	1396.9
42.5°	1553.9	1386.3	1218.6	1213.7	1263.0	1326.4	1403.8	1432.2	1313.7	1195.2	1313.7
45°	1480.2	1305.8	1131.3	1125.0	1174.7	1209.8	1230.2	1224.4	1139.6	1054.8	1139.6
47.5°	1393.4	1227.1	1060.9	1059.5	1113.1	1117.0	1071.2	1028.5	995.4	962.3	995.4
50°	1326.7	1169.8	1012.9	1019.7	1081.1	1075.3	1002.2	942.0	920.6	899.1	920.6
52.5°	1261.8	1112.7	963.6	981.7	1055.6	1043.9	946.6	870.1	855.6	841.2	855.6
55°	1168.8	1025.6	882.3	923.2	1025.6	1010.0	876.5	775.6	772.7	769.7	772.7
57.5°	1070.2	934.7	799.2	827.6	910.7	894.3	778.5	692.9	698.0	703.1	698.0
60°	1008.8	877.2	745.6	749.3	798.0	782.4	702.5	641.1	635.2	629.4	635.2
62.5°	943.8	818.5	693.2	675.0	692.5	674.2	620.0	577.9	572.1	566.2	572.1
65°	837.7	723.7	609.6	575.3	567.5	541.2	496.3	462.7	462.7	462.7	462.7
67.5°	721.0	621.6	522.2	483.8	465.6	439.5	405.4	374.0	350.6	327.2	350.6
70°	640.3	552.6	464.9	424.7	400.3	369.1	331.1	298.7	283.1	267.5	283.1
72.5°	554.4	479.1	403.9	362.7	332.9	302.5	271.5	243.8	225.8	207.9	225.8
75°	432.0	371.6	311.2	271.2	238.1	207.4	179.1	157.4	155.5	153.5	155.5
77.5°	312.3	268.2	224.2	191.8	163.4	142.0	127.8	117.2	117.3	117.5	117.3
80°	236.8	203.7	170.6	140.3	111.1	96.0	95.0	94.5	95.5	96.5	95.5
82.5°	166.7	142.1	117.5	98.2	80.7	72.6	74.0	75.0	75.2	75.4	75.2
85°	74.6	62.9	51.2	46.8	44.8	41.9	38.0	34.8	33.9	32.9	33.9
87.5°	16.7	17.1	17.9	17.1	15.7	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



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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°	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8
2.5°	2248.3	2255.7	2265.0	2281.8	2306.0	2321.4	2310.4	2299.5	2310.4	2321.4	2306.0
5°	2102.6	2125.7	2155.9	2201.2	2261.7	2307.2	2308.2	2309.2	2308.2	2307.2	2261.7
7.5°	1962.7	1988.1	2021.5	2073.9	2145.4	2206.6	2236.9	2267.1	2236.9	2206.6	2145.4
10°	1885.9	1908.6	1938.8	1992.4	2069.4	2138.6	2184.4	2230.2	2184.4	2138.6	2069.4
12.5°	1836.2	1851.9	1874.3	1924.0	2001.0	2076.8	2149.1	2221.5	2149.1	2076.8	2001.0
15°	1792.1	1793.8	1799.7	1835.7	1902.0	1979.0	2088.2	2197.3	2088.2	1979.0	1902.0
17.5°	1769.3	1756.8	1744.4	1763.7	1814.7	1882.4	2000.0	2117.5	2000.0	1882.4	1814.7
20°	1755.1	1734.6	1711.2	1722.0	1766.8	1829.4	1945.4	2061.4	1945.4	1829.4	1766.8
22.5°	1730.9	1710.1	1684.3	1688.8	1723.5	1778.9	1896.5	2014.0	1896.5	1778.9	1723.5
25°	1681.3	1665.2	1642.8	1636.4	1646.2	1686.6	1819.2	1951.7	1819.2	1686.6	1646.2
27.5°	1622.8	1612.1	1598.5	1585.9	1574.4	1600.4	1738.8	1877.2	1738.8	1600.4	1574.4
30°	1588.7	1575.3	1561.6	1545.5	1527.0	1547.7	1686.1	1824.5	1686.1	1547.7	1527.0
32.5°	1594.5	1563.0	1530.6	1500.5	1472.6	1487.5	1630.6	1773.7	1630.6	1487.5	1472.6
35°	1598.4	1534.3	1480.7	1436.9	1402.8	1414.5	1563.6	1712.7	1563.6	1414.5	1402.8
37.5°	1504.5	1462.3	1416.1	1369.9	1323.7	1329.0	1488.8	1648.7	1488.8	1329.0	1323.7
40°	1467.1	1440.0	1380.6	1323.1	1267.5	1267.8	1435.4	1603.1	1435.4	1267.8	1267.5
42.5°	1432.2	1403.8	1326.4	1263.0	1213.7	1218.6	1386.3	1553.9	1386.3	1218.6	1213.7
45°	1224.4	1230.2	1209.8	1174.7	1125.0	1131.3	1305.8	1480.2	1305.8	1131.3	1125.0
47.5°	1028.5	1071.2	1117.0	1113.1	1059.5	1060.9	1227.1	1393.4	1227.1	1060.9	1059.5
50°	942.0	1002.2	1075.3	1081.1	1019.7	1012.9	1169.8	1326.7	1169.8	1012.9	1019.7
52.5°	870.1	946.6	1043.9	1055.6	981.7	963.6	1112.7	1261.8	1112.7	963.6	981.7
55°	775.6	876.5	1010.0	1025.6	923.2	882.3	1025.6	1168.8	1025.6	882.3	923.2
57.5°	692.9	778.5	894.3	910.7	827.6	799.2	934.7	1070.2	934.7	799.2	827.6
60°	641.1	702.5	782.4	798.0	749.3	745.6	877.2	1008.8	877.2	745.6	749.3
62.5°	577.9	620.0	674.2	692.5	675.0	693.2	818.5	943.8	818.5	693.2	675.0
65°	462.7	496.3	541.2	567.5	575.3	609.6	723.7	837.7	723.7	609.6	575.3
67.5°	374.0	405.4	439.5	465.6	483.8	522.2	621.6	721.0	621.6	522.2	483.8
70°	298.7	331.1	369.1	400.3	424.7	464.9	552.6	640.3	552.6	464.9	424.7
72.5°	243.8	271.5	302.5	332.9	362.7	403.9	479.1	554.4	479.1	403.9	362.7
75°	157.4	179.1	207.4	238.1	271.2	311.2	371.6	432.0	371.6	311.2	271.2
77.5°	117.2	127.8	142.0	163.4	191.8	224.2	268.2	312.3	268.2	224.2	191.8
80°	94.5	95.0	96.0	111.1	140.3	170.6	203.7	236.8	203.7	170.6	140.3
82.5°	75.0	74.0	72.6	80.7	98.2	117.5	142.1	166.7	142.1	117.5	98.2
85°	34.8	38.0	41.9	44.8	46.8	51.2	62.9	74.6	62.9	51.2	46.8
87.5°	15.1	14.8	14.8	15.7	17.1	17.9	17.1	16.7	17.1	17.6	17.7
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: P1427927

CATALOG NUMBER: SQ2W-PH1-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: P1427927

CATALOG NUMBER: SQ2W-PH1-K-100U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8	2304.8
2.5°	2281.8	2265.0	2255.7	2248.3	2246.7	2245.1	2246.7	2248.3	2255.7	2265.0	2281.8
5°	2201.2	2155.9	2125.7	2102.6	2100.6	2098.7	2100.6	2102.6	2125.7	2155.9	2201.2
7.5°	2073.9	2021.5	1988.1	1962.7	1961.2	1959.6	1961.2	1962.7	1988.1	2021.5	2073.9
10°	1992.4	1938.8	1908.6	1885.9	1885.9	1885.9	1885.9	1885.9	1908.6	1938.8	1992.4
12.5°	1924.0	1874.3	1851.9	1836.2	1840.9	1845.6	1840.9	1836.2	1851.9	1874.3	1924.0
15°	1835.7	1799.7	1793.8	1792.1	1802.9	1813.6	1802.9	1792.1	1793.8	1799.7	1835.7
17.5°	1763.7	1744.4	1756.8	1769.3	1781.8	1794.3	1781.8	1769.3	1756.8	1744.4	1763.7
20°	1722.0	1711.2	1734.6	1755.1	1766.8	1778.5	1766.8	1755.1	1734.6	1711.2	1722.0
22.5°	1688.8	1684.3	1710.1	1730.9	1737.2	1743.4	1737.2	1730.9	1710.1	1684.3	1688.8
25°	1636.4	1642.8	1665.2	1681.3	1678.3	1675.4	1678.3	1681.3	1665.2	1642.8	1636.4
27.5°	1585.9	1598.5	1612.1	1622.8	1624.5	1626.3	1624.5	1622.8	1612.1	1598.5	1585.9
30°	1545.5	1561.6	1575.3	1588.7	1601.3	1614.0	1601.3	1588.7	1575.3	1561.6	1545.5
32.5°	1500.5	1530.6	1563.0	1594.5	1623.6	1652.6	1623.6	1594.5	1563.0	1530.6	1500.5
35°	1436.9	1480.7	1534.3	1598.4	1693.9	1789.5	1693.9	1598.4	1534.3	1480.7	1436.9
37.5°	1369.9	1416.1	1462.3	1504.5	1534.9	1565.3	1534.9	1504.5	1462.3	1416.1	1369.9
40°	1323.1	1380.6	1440.0	1467.1	1396.9	1326.7	1396.9	1467.1	1440.0	1380.6	1323.1
42.5°	1263.0	1326.4	1403.8	1432.2	1313.7	1195.2	1313.7	1432.2	1403.8	1326.4	1263.0
45°	1174.7	1209.8	1230.2	1224.4	1139.6	1054.8	1139.6	1224.4	1230.2	1209.8	1174.7
47.5°	1113.1	1117.0	1071.2	1028.5	995.4	962.3	995.4	1028.5	1071.2	1117.0	1113.1
50°	1081.1	1075.3	1002.2	942.0	920.6	899.1	920.6	942.0	1002.2	1075.3	1081.1
52.5°	1055.6	1043.9	946.6	870.1	855.6	841.2	855.6	870.1	946.6	1043.9	1055.6
55°	1025.6	1010.0	876.5	775.6	772.7	769.7	772.7	775.6	876.5	1010.0	1025.6
57.5°	910.7	894.3	778.5	692.9	698.0	703.1	698.0	692.9	778.5	894.3	910.7
60°	798.0	782.4	702.5	641.1	635.2	629.4	635.2	641.1	702.5	782.4	798.0
62.5°	692.5	674.2	620.0	577.9	572.1	566.2	572.1	577.9	620.0	674.2	692.5
65°	567.5	541.2	496.3	462.7	462.7	462.7	462.7	462.7	496.3	541.2	567.5
67.5°	465.6	439.5	405.4	374.0	350.6	327.2	350.6	374.0	405.4	439.5	465.6
70°	400.3	369.1	331.1	298.7	283.1	267.5	283.1	298.7	331.1	369.1	400.3
72.5°	332.9	302.5	271.5	243.8	225.8	207.9	225.8	243.8	271.5	302.5	332.9
75°	238.1	207.4	179.1	157.4	155.5	153.5	155.5	157.4	179.1	207.4	238.1
77.5°	163.4	142.0	127.8	117.2	117.3	117.5	117.3	117.2	127.8	142.0	163.4
80°	111.1	96.0	95.0	94.5	95.5	96.5	95.5	94.5	95.0	96.0	111.1
82.5°	80.7	72.6	74.0	75.0	75.2	75.4	75.2	75.0	74.0	72.6	80.7
85°	44.8	41.9	38.0	34.8	33.9	32.9	33.9	34.8	38.0	41.9	44.8
87.5°	16.9	17.8	20.0	21.2	22.4	21.8	22.4	21.2	20.0	17.8	16.9
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: P1427927

CATALOG NUMBER: SQ2W-PH1-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: P1427927

CATALOG NUMBER: SQ2W-PH1-K-100U-100D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	2304.8	2304.8	2304.8	2304.8
2.5°	2306.0	2321.4	2310.4	2299.5
5°	2261.7	2307.2	2308.2	2309.2
7.5°	2145.4	2206.6	2236.9	2267.1
10°	2069.4	2138.6	2184.4	2230.2
12.5°	2001.0	2076.8	2149.1	2221.5
15°	1902.0	1979.0	2088.2	2197.3
17.5°	1814.7	1882.4	2000.0	2117.5
20°	1766.8	1829.4	1945.4	2061.4
22.5°	1723.5	1778.9	1896.5	2014.0
25°	1646.2	1686.6	1819.2	1951.7
27.5°	1574.4	1600.4	1738.8	1877.2
30°	1527.0	1547.7	1686.1	1824.5
32.5°	1472.6	1487.5	1630.6	1773.7
35°	1402.8	1414.5	1563.6	1712.7
37.5°	1323.7	1329.0	1488.8	1648.7
40°	1267.5	1267.8	1435.4	1603.1
42.5°	1213.7	1218.6	1386.3	1553.9
45°	1125.0	1131.3	1305.8	1480.2
47.5°	1059.5	1060.9	1227.1	1393.4
50°	1019.7	1012.9	1169.8	1326.7
52.5°	981.7	963.6	1112.7	1261.8
55°	923.2	882.3	1025.6	1168.8
57.5°	827.6	799.2	934.7	1070.2
60°	749.3	745.6	877.2	1008.8
62.5°	675.0	693.2	818.5	943.8
65°	575.3	609.6	723.7	837.7
67.5°	483.8	522.2	621.6	721.0
70°	424.7	464.9	552.6	640.3
72.5°	362.7	403.9	479.1	554.4
75°	271.2	311.2	371.6	432.0
77.5°	191.8	224.2	268.2	312.3
80°	140.3	170.6	203.7	236.8
82.5°	98.2	117.5	142.1	166.7
85°	46.8	51.2	62.9	74.6
87.5°	17.7	17.6	17.1	16.7
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: P1427927

CATALOG NUMBER: SQ2W-PH1-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: P1427927
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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	19.79	20.68	20.72	21.62	22.84	18.62	19.51	19.54	20.45	21.67
	3H	21.97	22.76	22.90	23.72	24.95	19.67	20.47	20.61	21.42	22.66
	4H	22.78	23.54	23.73	24.49	25.74	19.92	20.67	20.87	21.63	22.87
	6H	23.25	23.94	24.21	24.91	26.17	20.06	20.75	21.02	21.72	22.98
	8H	23.40	24.06	24.37	25.04	26.30	20.12	20.78	21.09	21.76	23.02
	12H	23.46	24.09	24.44	25.06	26.35	20.13	20.76	21.11	21.73	23.02
4H	2H	20.23	20.98	21.19	21.94	23.19	19.31	20.06	20.26	21.02	22.26
	3H	22.48	23.11	23.45	24.10	25.36	20.54	21.17	21.51	22.15	23.41
	4H	23.36	23.93	24.34	24.91	26.20	20.83	21.40	21.81	22.38	23.67
	6H	23.92	24.41	24.91	25.41	26.70	21.03	21.52	22.02	22.53	23.81
	8H	24.12	24.58	25.11	25.58	26.88	21.12	21.58	22.11	22.58	23.88
	12H	24.21	24.62	25.22	25.63	26.94	21.15	21.56	22.16	22.57	23.88
8H	4H	23.38	23.84	24.37	24.84	26.14	21.06	21.52	22.05	22.52	23.82
	6H	24.01	24.39	25.03	25.43	26.73	21.33	21.71	22.35	22.75	24.05
	8H	24.28	24.61	25.30	25.64	26.95	21.48	21.81	22.50	22.84	24.16
	12H	24.41	24.70	25.44	25.72	27.08	21.54	21.84	22.57	22.86	24.22
12H	4H	23.34	23.75	24.35	24.76	26.07	21.06	21.48	22.07	22.49	23.79
	6H	23.99	24.33	25.01	25.35	26.67	21.37	21.70	22.39	22.73	24.04
	8H	24.26	24.56	25.29	25.58	26.94	21.53	21.83	22.56	22.84	24.21