

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: P1428259

Luminaire Tested: SQ2W-PR1-K-100U-075D-L840-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428259  
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-075D-L840-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE RIPPLE LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

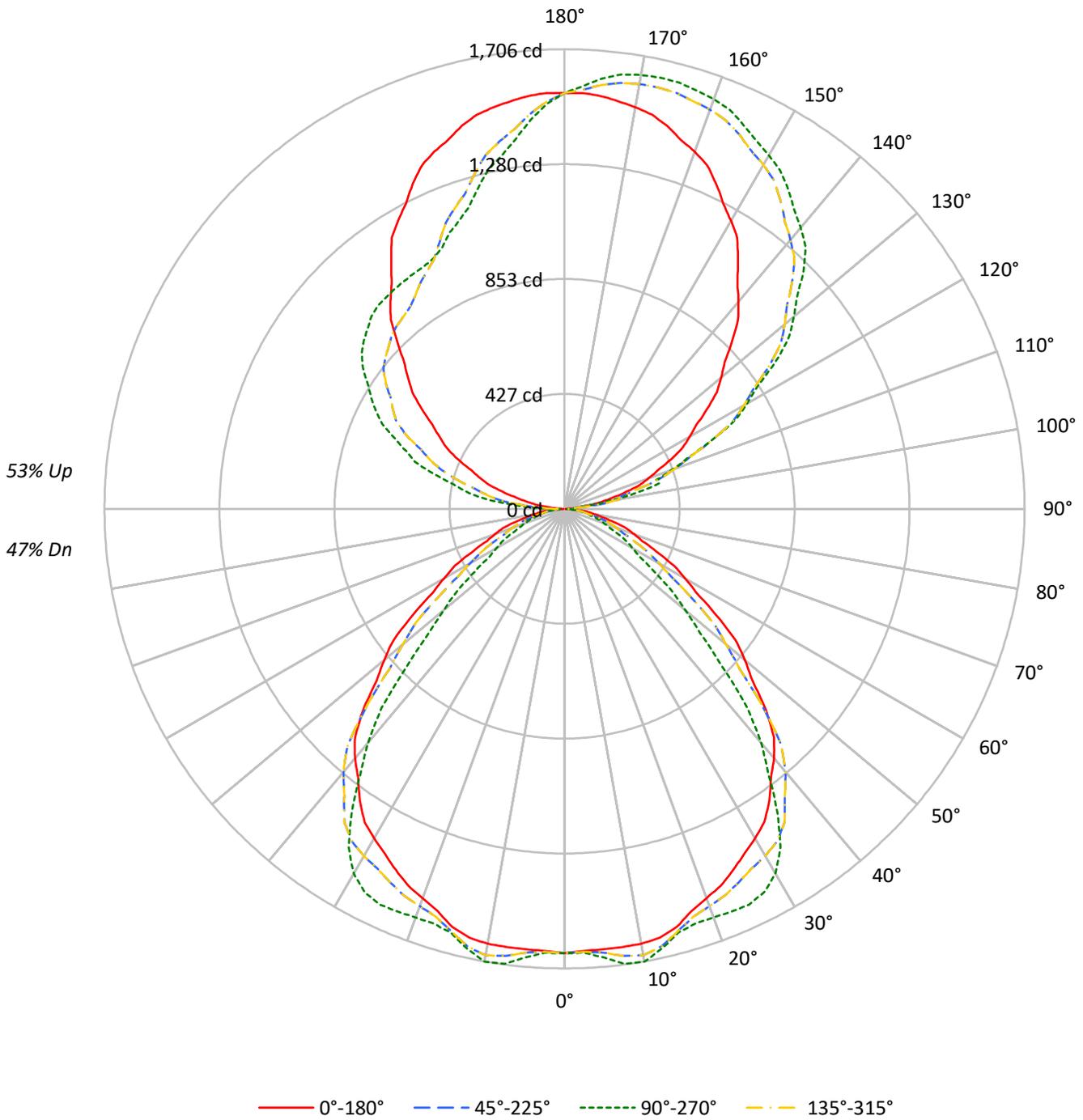
Lumens per Lamp: N/A  
Luminaire Lumens: 8479.9 lumens  
Efficiency: N/A  
Efficacy: 141.8 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.34 / 1.36  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 59.8  
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	50	30	10	0	
RCR																						
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47				47
1	98	94	90	87	90	86	83	80	72	70	68	60	58	57	48	47	46				41	
2	89	82	77	72	82	76	71	67	64	60	57	53	51	48	43	41	40				35	
3	82	73	66	60	75	67	61	56	57	52	49	47	44	41	38	36	34				30	
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	35	32	30				26	
5	69	58	50	44	63	54	47	42	46	41	36	38	34	31	31	29	26				23	
6	64	52	44	39	59	48	41	36	41	36	32	35	31	28	29	26	23				21	
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	26	23	21				18	
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19				16	
9	51	39	32	27	47	36	30	25	31	26	23	27	23	20	22	19	17				15	
10	48	36	29	24	44	34	27	23	29	24	20	25	21	18	21	18	16				14	

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

	0°	90°	180°	270°
0°	26627	26627	26627	26627
5°	26593	27084	26593	27084
10°	26874	27976	26874	27976
15°	26865	27231	26865	27231
20°	26431	27730	26431	27730
25°	26355	28872	26355	28872
30°	26328	29149	26328	29149
35°	26078	27139	26078	27139
40°	25477	23882	25477	23882
45°	24107	18885	24107	18885
50°	21915	14654	21915	14654
55°	19259	11406	19259	11406
60°	16665	9390	16665	9390
65°	14387	8221	14387	8221
70°	12935	7303	12935	7303
75°	11853	6712	11853	6712
80°	10321	6564	10321	6564
85°	7466	3112	7466	3112

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 25881 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.3	1.9
10°-20°	461.1	5.4
20°-30°	712.7	8.4
30°-40°	857.1	10.1
40°-50°	769.7	9.1
50°-60°	515.7	6.1
60°-70°	300.0	3.5
70°-80°	154.1	1.8
80°-90°	44.4	0.5
90°-100°	122.8	1.4
100°-110°	358.2	4.2
110°-120°	584.5	6.9
120°-130°	741.7	8.7
130°-140°	793.6	9.4
140°-150°	741.1	8.7
150°-160°	609.8	7.2
160°-170°	409.0	4.8
170°-180°	145.2	1.7
0°-30°	1333.1	15.7
0°-40°	2190.2	25.8
0°-60°	3475.6	41.0
0°-90°	3974.1	46.9
90°-120°	1065.5	12.6
90°-150°	3341.8	39.4
90°-180°	4506.0	53.1
0°-180°	8479.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1649	1649	1649	1649	1649	
5°	1641	1671	1641	1671	1641	157
15°	1607	1629	1607	1629	1607	451
25°	1479	1621	1479	1621	1479	682
35°	1323	1377	1323	1377	1323	825
45°	1056	827	1056	827	1056	808
55°	684	405	684	405	684	615
65°	377	215	377	215	377	381
75°	190	108	190	108	190	202
85°	40	17	40	17	40	50
90°	5	34	5	67	5	5
95°	48	36	48	210	48	58
105°	228	365	228	502	228	242
115°	436	605	436	745	436	430
125°	645	959	645	913	645	577
135°	878	1255	878	1012	878	678
145°	1121	1446	1121	1034	1121	701
155°	1331	1571	1331	1072	1331	612
165°	1472	1638	1472	1235	1472	414
175°	1538	1604	1538	1448	1538	146
180°	1543	1543	1543	1543	1543	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1649.2	1649.2	1649.2	1649.2	1649.2	1649.2	1649.2	1649.2	1649.2	1649.2	1649.2
2.5°	1642.5	1651.5	1660.5	1656.4	1648.0	1644.2	1644.8	1645.7	1647.4	1649.2	1647.4
5°	1640.8	1653.5	1666.2	1663.3	1655.0	1651.7	1653.2	1656.2	1663.6	1671.1	1663.6
7.5°	1640.5	1658.6	1676.7	1678.0	1673.9	1673.9	1678.3	1684.0	1693.8	1703.7	1693.8
10°	1639.2	1660.8	1682.5	1685.7	1682.7	1681.6	1682.3	1685.5	1695.9	1706.4	1695.9
12.5°	1631.1	1656.3	1681.6	1678.9	1667.0	1660.5	1659.4	1660.1	1665.8	1671.4	1665.8
15°	1607.2	1637.1	1667.0	1654.8	1628.7	1616.7	1619.0	1621.6	1625.3	1629.1	1625.3
17.5°	1565.2	1596.4	1627.6	1616.7	1591.8	1583.3	1591.4	1599.3	1606.6	1613.9	1606.6
20°	1538.3	1568.9	1599.6	1592.1	1571.9	1567.1	1577.5	1588.5	1601.2	1613.9	1601.2
22.5°	1514.1	1544.7	1575.3	1570.6	1554.0	1553.0	1567.6	1583.0	1600.5	1618.0	1600.5
25°	1479.4	1506.3	1533.2	1533.8	1525.6	1533.8	1558.5	1581.8	1601.2	1620.7	1601.2
27.5°	1443.1	1459.0	1474.8	1485.3	1493.9	1514.9	1548.3	1576.7	1590.3	1603.9	1590.3
30°	1412.2	1422.7	1433.1	1452.5	1475.0	1500.7	1529.9	1553.0	1558.3	1563.5	1558.3
32.5°	1378.6	1384.8	1391.1	1418.5	1452.8	1477.7	1493.1	1503.0	1496.3	1489.5	1496.3
35°	1323.1	1328.3	1333.6	1368.5	1413.3	1429.8	1417.8	1405.3	1391.1	1376.9	1391.1
37.5°	1257.2	1267.9	1278.7	1307.2	1341.5	1341.2	1306.3	1276.0	1259.7	1243.4	1259.7
40°	1208.8	1226.7	1244.6	1263.7	1283.1	1266.7	1214.4	1170.5	1151.8	1133.1	1151.8
42.5°	1149.6	1178.3	1207.0	1211.2	1207.4	1172.1	1105.4	1049.7	1026.9	1004.0	1026.9
45°	1055.8	1094.6	1133.5	1111.3	1068.7	1011.1	938.7	878.0	852.5	827.1	852.5
47.5°	945.2	985.1	1025.0	983.0	913.9	846.9	782.2	727.7	704.0	680.2	704.0
50°	872.5	904.7	936.8	889.3	815.4	748.1	687.6	635.7	609.5	583.4	609.5
52.5°	798.6	821.7	844.9	797.9	727.5	662.1	601.5	550.2	526.4	502.7	526.4
55°	684.2	696.2	708.2	664.6	602.6	542.8	485.3	438.0	421.6	405.2	421.6
57.5°	579.3	587.0	594.6	553.3	495.8	442.6	393.7	354.1	342.0	329.8	342.0
60°	516.1	521.4	526.6	484.7	427.2	379.4	341.3	310.3	300.6	290.8	300.6
62.5°	458.3	462.3	466.4	426.0	370.9	328.1	297.8	273.2	265.9	258.6	265.9
65°	376.6	380.3	384.1	349.7	302.6	267.5	244.3	225.7	220.4	215.2	220.4
67.5°	311.7	313.6	315.6	287.3	248.9	220.5	202.3	187.4	182.5	177.5	182.5
70°	274.0	274.8	275.5	250.5	216.9	191.8	175.4	162.1	158.4	154.7	158.4
72.5°	240.4	239.4	238.3	216.0	186.5	165.1	151.6	140.9	138.4	135.8	138.4
75°	190.0	187.7	185.5	167.0	143.1	126.6	117.7	110.6	109.1	107.6	109.1
77.5°	141.9	139.5	137.1	121.7	102.0	90.6	87.6	85.4	85.4	85.4	85.4
80°	111.0	108.0	105.0	93.0	78.1	70.6	70.6	70.6	70.6	70.6	70.6
82.5°	82.7	78.5	74.3	67.0	58.7	54.5	54.5	54.3	53.7	53.1	53.7
85°	40.3	36.6	32.9	31.9	31.9	29.7	25.2	21.3	19.1	16.8	19.1
87.5°	11.7	12.9	14.5	13.5	11.5	10.3	10.3	10.6	10.9	10.9	10.9
90°	4.7	10.9	18.7	24.9	29.6	31.2	31.2	32.7	34.3	34.3	34.3
92.5°	17.1	27.1	27.4	27.4	33.4	36.2	38.7	39.0	40.5	40.5	40.5
95°	48.3	53.0	79.5	77.9	53.0	42.1	35.9	35.9	35.9	35.9	35.9
97.5°	92.3	99.1	103.5	138.7	146.5	141.5	115.3	97.0	86.7	82.0	86.7
100°	130.9	134.1	143.4	145.0	183.9	221.3	202.6	179.3	171.5	166.8	171.5
102.5°	169.6	171.5	185.8	192.4	201.4	222.6	287.4	280.3	275.0	274.0	275.0
105°	227.6	229.1	255.6	268.1	274.3	274.3	272.8	304.0	353.8	364.8	353.8
107.5°	289.6	296.8	328.0	361.3	368.5	370.4	362.3	357.6	355.7	357.0	355.7
110°	332.0	342.9	380.3	422.4	433.3	436.5	433.3	428.7	425.5	425.5	425.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	373.2	389.1	431.5	479.8	498.2	507.5	500.7	497.2	494.1	496.6	494.1
115°	436.5	459.8	516.0	565.8	603.2	607.9	606.4	606.4	604.8	604.8	604.8
117.5°	495.1	532.5	595.5	653.4	696.8	709.2	715.5	713.6	711.7	714.9	711.7
120°	536.2	579.9	651.6	717.0	759.1	777.8	784.1	780.9	784.1	780.9	784.1
122.5°	579.9	633.5	703.9	771.9	821.5	842.7	850.2	850.8	851.4	849.5	851.4
125°	645.3	710.8	793.4	863.6	915.0	939.9	946.2	947.7	950.9	958.6	950.9
127.5°	711.4	785.6	876.3	944.0	996.7	1026.9	1036.6	1040.0	1046.6	1050.0	1046.6
130°	757.6	841.7	933.7	997.6	1049.1	1081.8	1098.9	1103.6	1111.4	1109.8	1111.4
132.5°	806.2	894.1	987.3	1053.7	1101.4	1136.7	1151.3	1164.7	1167.5	1169.7	1167.5
135°	877.6	972.7	1066.2	1131.7	1176.9	1211.2	1229.9	1242.3	1250.1	1254.8	1250.1
137.5°	952.7	1053.1	1142.9	1201.2	1246.7	1276.3	1297.5	1310.6	1318.7	1322.5	1318.7
140°	1003.9	1100.5	1187.8	1248.6	1289.1	1318.7	1337.4	1353.0	1362.4	1362.4	1362.4
142.5°	1052.5	1147.9	1232.7	1293.5	1329.0	1356.1	1376.1	1387.9	1398.5	1398.5	1398.5
145°	1120.8	1215.8	1293.8	1354.6	1384.2	1409.1	1431.0	1440.3	1446.5	1446.5	1446.5
147.5°	1192.2	1276.3	1347.4	1405.7	1430.6	1459.9	1477.1	1484.6	1492.4	1488.9	1492.4
150°	1234.6	1312.5	1381.1	1435.6	1460.6	1488.6	1505.8	1512.0	1519.8	1515.1	1519.8
152.5°	1275.7	1349.9	1412.3	1463.1	1484.3	1512.3	1532.0	1538.2	1543.5	1540.1	1543.5
155°	1331.2	1396.7	1454.3	1501.1	1519.8	1546.3	1565.0	1572.8	1579.0	1571.2	1579.0
157.5°	1380.8	1437.2	1487.4	1530.4	1550.4	1573.1	1590.6	1600.2	1606.5	1603.0	1606.5
160°	1410.7	1462.1	1507.3	1547.9	1566.6	1586.8	1605.5	1616.5	1622.7	1618.0	1622.7
162.5°	1435.6	1482.1	1524.8	1561.6	1577.8	1595.6	1618.0	1627.7	1633.9	1628.0	1633.9
165°	1471.5	1508.9	1546.3	1577.5	1591.5	1605.5	1628.9	1639.8	1644.5	1638.3	1644.5
167.5°	1498.6	1527.3	1557.5	1584.3	1594.6	1608.3	1631.7	1640.8	1646.7	1638.9	1646.7
170°	1513.6	1538.5	1565.0	1586.8	1594.6	1607.1	1630.5	1638.3	1643.0	1635.2	1643.0
172.5°	1526.0	1544.7	1566.3	1585.6	1589.6	1599.6	1621.8	1629.5	1633.0	1626.4	1633.0
175°	1538.5	1549.4	1565.0	1577.5	1575.9	1582.2	1600.9	1607.1	1613.3	1604.0	1613.3
177.5°	1544.4	1549.4	1554.4	1561.9	1556.9	1556.9	1570.6	1574.4	1575.6	1570.6	1575.6
180°	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1649.2	1649.2	1649.2	1649.2	1649.2	1649.2	1649.2	1649.2	1649.2	1649.2	1649.2
2.5°	1645.7	1644.8	1644.2	1648.0	1656.4	1660.5	1651.5	1642.5	1651.5	1660.5	1656.4
5°	1656.2	1653.2	1651.7	1655.0	1663.3	1666.2	1653.5	1640.8	1653.5	1666.2	1663.3
7.5°	1684.0	1678.3	1673.9	1673.9	1678.0	1676.7	1658.6	1640.5	1658.6	1676.7	1678.0
10°	1685.5	1682.3	1681.6	1682.7	1685.7	1682.5	1660.8	1639.2	1660.8	1682.5	1685.7
12.5°	1660.1	1659.4	1660.5	1667.0	1678.9	1681.6	1656.3	1631.1	1656.3	1681.6	1678.9
15°	1621.6	1619.0	1616.7	1628.7	1654.8	1667.0	1637.1	1607.2	1637.1	1667.0	1654.8
17.5°	1599.3	1591.4	1583.3	1591.8	1616.7	1627.6	1596.4	1565.2	1596.4	1627.6	1616.7
20°	1588.5	1577.5	1567.1	1571.9	1592.1	1599.6	1568.9	1538.3	1568.9	1599.6	1592.1
22.5°	1583.0	1567.6	1553.0	1554.0	1570.6	1575.3	1544.7	1514.1	1544.7	1575.3	1570.6
25°	1581.8	1558.5	1533.8	1525.6	1533.8	1533.2	1506.3	1479.4	1506.3	1533.2	1533.8
27.5°	1576.7	1548.3	1514.9	1493.9	1485.3	1474.8	1459.0	1443.1	1459.0	1474.8	1485.3
30°	1553.0	1529.9	1500.7	1475.0	1452.5	1433.1	1422.7	1412.2	1422.7	1433.1	1452.5
32.5°	1503.0	1493.1	1477.7	1452.8	1418.5	1391.1	1384.8	1378.6	1384.8	1391.1	1418.5
35°	1405.3	1417.8	1429.8	1413.3	1368.5	1333.6	1328.3	1323.1	1328.3	1333.6	1368.5
37.5°	1276.0	1306.3	1341.2	1341.5	1307.2	1278.7	1267.9	1257.2	1267.9	1278.7	1307.2
40°	1170.5	1214.4	1266.7	1283.1	1263.7	1244.6	1226.7	1208.8	1226.7	1244.6	1263.7
42.5°	1049.7	1105.4	1172.1	1207.4	1211.2	1207.0	1178.3	1149.6	1178.3	1207.0	1211.2
45°	878.0	938.7	1011.1	1068.7	1111.3	1133.5	1094.6	1055.8	1094.6	1133.5	1111.3
47.5°	727.7	782.2	846.9	913.9	983.0	1025.0	985.1	945.2	985.1	1025.0	983.0
50°	635.7	687.6	748.1	815.4	889.3	936.8	904.7	872.5	904.7	936.8	889.3
52.5°	550.2	601.5	662.1	727.5	797.9	844.9	821.7	798.6	821.7	844.9	797.9
55°	438.0	485.3	542.8	602.6	664.6	708.2	696.2	684.2	696.2	708.2	664.6
57.5°	354.1	393.7	442.6	495.8	553.3	594.6	587.0	579.3	587.0	594.6	553.3
60°	310.3	341.3	379.4	427.2	484.7	526.6	521.4	516.1	521.4	526.6	484.7
62.5°	273.2	297.8	328.1	370.9	426.0	466.4	462.3	458.3	462.3	466.4	426.0
65°	225.7	244.3	267.5	302.6	349.7	384.1	380.3	376.6	380.3	384.1	349.7
67.5°	187.4	202.3	220.5	248.9	287.3	315.6	313.6	311.7	313.6	315.6	287.3
70°	162.1	175.4	191.8	216.9	250.5	275.5	274.8	274.0	274.8	275.5	250.5
72.5°	140.9	151.6	165.1	186.5	216.0	238.3	239.4	240.4	239.4	238.3	216.0
75°	110.6	117.7	126.6	143.1	167.0	185.5	187.7	190.0	187.7	185.5	167.0
77.5°	85.4	87.6	90.6	102.0	121.7	137.1	139.5	141.9	139.5	137.1	121.7
80°	70.6	70.6	70.6	78.1	93.0	105.0	108.0	111.0	108.0	105.0	93.0
82.5°	54.3	54.5	54.5	58.7	67.0	74.3	78.5	82.7	78.5	74.3	67.0
85°	21.3	25.2	29.7	31.9	31.9	32.9	36.6	40.3	36.6	32.9	31.9
87.5°	10.6	10.3	10.3	11.5	13.5	14.5	12.9	11.7	12.9	14.2	14.1
90°	32.7	31.2	31.2	29.6	24.9	18.7	10.9	4.7	10.9	17.1	28.1
92.5°	39.0	38.7	36.2	33.4	27.4	27.4	27.1	17.1	29.6	42.1	60.5
95°	35.9	35.9	42.1	53.0	77.9	79.5	53.0	48.3	68.6	96.6	121.6
97.5°	97.0	115.3	141.5	146.5	138.7	103.5	99.1	92.3	125.6	153.4	193.6
100°	179.3	202.6	221.3	183.9	145.0	143.4	134.1	130.9	166.8	193.3	232.3
102.5°	280.3	287.4	222.6	201.4	192.4	185.8	171.5	169.6	205.4	241.9	274.7
105°	304.0	272.8	274.3	274.3	268.1	255.6	229.1	227.6	268.1	310.2	350.7
107.5°	357.6	362.3	370.4	368.5	361.3	328.0	296.8	289.6	326.1	376.6	421.2
110°	428.7	433.3	436.5	433.3	422.4	380.3	342.9	332.0	364.8	417.8	466.1



TEST NUMBER: P1428259

CATALOG NUMBER: SQ2W-PR1-K-100U-075D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	497.2	500.7	507.5	498.2	479.8	431.5	389.1	373.2	405.9	460.2	509.7
115°	606.4	606.4	607.9	603.2	565.8	516.0	459.8	436.5	464.5	514.4	569.0
117.5°	713.6	715.5	709.2	696.8	653.4	595.5	532.5	495.1	517.2	569.9	626.0
120°	780.9	784.1	777.8	759.1	717.0	651.6	579.9	536.2	553.4	604.8	660.9
122.5°	850.8	850.2	842.7	821.5	771.9	703.9	633.5	579.9	587.0	634.7	689.6
125°	947.7	946.2	939.9	915.0	863.6	793.4	710.8	645.3	636.0	676.5	732.6
127.5°	1040.0	1036.6	1026.9	996.7	944.0	876.3	785.6	711.4	690.5	716.1	767.5
130°	1103.6	1098.9	1081.8	1049.1	997.6	933.7	841.7	757.6	727.9	743.5	788.7
132.5°	1164.7	1151.3	1136.7	1101.4	1053.7	987.3	894.1	806.2	765.4	772.2	807.4
135°	1242.3	1229.9	1211.2	1176.9	1131.7	1066.2	972.7	877.6	821.5	815.2	835.5
137.5°	1310.6	1297.5	1276.3	1246.7	1201.2	1142.9	1053.1	952.7	882.0	861.1	868.9
140°	1353.0	1337.4	1318.7	1289.1	1248.6	1187.8	1100.5	1003.9	924.4	894.7	890.1
142.5°	1387.9	1376.1	1356.1	1329.0	1293.5	1232.7	1147.9	1052.5	968.0	929.7	918.7
145°	1440.3	1431.0	1409.1	1384.2	1354.6	1293.8	1215.8	1120.8	1036.6	986.7	963.3
147.5°	1484.6	1477.1	1459.9	1430.6	1405.7	1347.4	1276.3	1192.2	1105.8	1044.1	1013.8
150°	1512.0	1505.8	1488.6	1460.6	1435.6	1381.1	1312.5	1234.6	1151.9	1086.5	1047.5
152.5°	1538.2	1532.0	1512.3	1484.3	1463.1	1412.3	1349.9	1275.7	1191.8	1126.4	1086.2
155°	1572.8	1565.0	1546.3	1519.8	1501.1	1454.3	1396.7	1331.2	1259.5	1190.9	1145.7
157.5°	1600.2	1590.6	1573.1	1550.4	1530.4	1487.4	1437.2	1380.8	1318.1	1252.6	1206.5
160°	1616.5	1605.5	1586.8	1566.6	1547.9	1507.3	1462.1	1410.7	1353.0	1293.8	1243.9
162.5°	1627.7	1618.0	1595.6	1577.8	1561.6	1524.8	1482.1	1435.6	1384.2	1332.4	1286.3
165°	1639.8	1628.9	1605.5	1591.5	1577.5	1546.3	1508.9	1471.5	1427.8	1385.8	1348.3
167.5°	1640.8	1631.7	1608.3	1594.6	1584.3	1557.5	1527.3	1498.6	1464.6	1431.6	1400.4
170°	1638.3	1630.5	1607.1	1594.6	1586.8	1565.0	1538.5	1513.6	1487.1	1459.0	1434.1
172.5°	1629.5	1621.8	1599.6	1589.6	1585.6	1566.3	1544.7	1526.0	1503.3	1482.7	1462.8
175°	1607.1	1600.9	1582.2	1575.9	1577.5	1565.0	1549.4	1538.5	1524.5	1512.0	1501.1
177.5°	1574.4	1570.6	1556.9	1556.9	1561.9	1554.4	1549.4	1544.4	1538.2	1534.5	1530.7
180°	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2



TEST NUMBER: P1428259

CATALOG NUMBER: SQ2W-PR1-K-100U-075D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1649.2	1649.2	1649.2	1649.2	1649.2	1649.2	1649.2	1649.2	1649.2	1649.2	1649.2
2.5°	1648.0	1644.2	1644.8	1645.7	1647.4	1649.2	1647.4	1645.7	1644.8	1644.2	1648.0
5°	1655.0	1651.7	1653.2	1656.2	1663.6	1671.1	1663.6	1656.2	1653.2	1651.7	1655.0
7.5°	1673.9	1673.9	1678.3	1684.0	1693.8	1703.7	1693.8	1684.0	1678.3	1673.9	1673.9
10°	1682.7	1681.6	1682.3	1685.5	1695.9	1706.4	1695.9	1685.5	1682.3	1681.6	1682.7
12.5°	1667.0	1660.5	1659.4	1660.1	1665.8	1671.4	1665.8	1660.1	1659.4	1660.5	1667.0
15°	1628.7	1616.7	1619.0	1621.6	1625.3	1629.1	1625.3	1621.6	1619.0	1616.7	1628.7
17.5°	1591.8	1583.3	1591.4	1599.3	1606.6	1613.9	1606.6	1599.3	1591.4	1583.3	1591.8
20°	1571.9	1567.1	1577.5	1588.5	1601.2	1613.9	1601.2	1588.5	1577.5	1567.1	1571.9
22.5°	1554.0	1553.0	1567.6	1583.0	1600.5	1618.0	1600.5	1583.0	1567.6	1553.0	1554.0
25°	1525.6	1533.8	1558.5	1581.8	1601.2	1620.7	1601.2	1581.8	1558.5	1533.8	1525.6
27.5°	1493.9	1514.9	1548.3	1576.7	1590.3	1603.9	1590.3	1576.7	1548.3	1514.9	1493.9
30°	1475.0	1500.7	1529.9	1553.0	1558.3	1563.5	1558.3	1553.0	1529.9	1500.7	1475.0
32.5°	1452.8	1477.7	1493.1	1503.0	1496.3	1489.5	1496.3	1503.0	1493.1	1477.7	1452.8
35°	1413.3	1429.8	1417.8	1405.3	1391.1	1376.9	1391.1	1405.3	1417.8	1429.8	1413.3
37.5°	1341.5	1341.2	1306.3	1276.0	1259.7	1243.4	1259.7	1276.0	1306.3	1341.2	1341.5
40°	1283.1	1266.7	1214.4	1170.5	1151.8	1133.1	1151.8	1170.5	1214.4	1266.7	1283.1
42.5°	1207.4	1172.1	1105.4	1049.7	1026.9	1004.0	1026.9	1049.7	1105.4	1172.1	1207.4
45°	1068.7	1011.1	938.7	878.0	852.5	827.1	852.5	878.0	938.7	1011.1	1068.7
47.5°	913.9	846.9	782.2	727.7	704.0	680.2	704.0	727.7	782.2	846.9	913.9
50°	815.4	748.1	687.6	635.7	609.5	583.4	609.5	635.7	687.6	748.1	815.4
52.5°	727.5	662.1	601.5	550.2	526.4	502.7	526.4	550.2	601.5	662.1	727.5
55°	602.6	542.8	485.3	438.0	421.6	405.2	421.6	438.0	485.3	542.8	602.6
57.5°	495.8	442.6	393.7	354.1	342.0	329.8	342.0	354.1	393.7	442.6	495.8
60°	427.2	379.4	341.3	310.3	300.6	290.8	300.6	310.3	341.3	379.4	427.2
62.5°	370.9	328.1	297.8	273.2	265.9	258.6	265.9	273.2	297.8	328.1	370.9
65°	302.6	267.5	244.3	225.7	220.4	215.2	220.4	225.7	244.3	267.5	302.6
67.5°	248.9	220.5	202.3	187.4	182.5	177.5	182.5	187.4	202.3	220.5	248.9
70°	216.9	191.8	175.4	162.1	158.4	154.7	158.4	162.1	175.4	191.8	216.9
72.5°	186.5	165.1	151.6	140.9	138.4	135.8	138.4	140.9	151.6	165.1	186.5
75°	143.1	126.6	117.7	110.6	109.1	107.6	109.1	110.6	117.7	126.6	143.1
77.5°	102.0	90.6	87.6	85.4	85.4	85.4	85.4	85.4	87.6	90.6	102.0
80°	78.1	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	78.1
82.5°	58.7	54.5	54.5	54.3	53.7	53.1	53.7	54.3	54.5	54.5	58.7
85°	31.9	29.7	25.2	21.3	19.1	16.8	19.1	21.3	25.2	29.7	31.9
87.5°	12.7	13.4	15.6	16.8	18.1	17.4	18.1	16.8	15.6	13.4	12.7
90°	35.9	46.8	57.7	63.9	70.1	67.0	70.1	63.9	57.7	46.8	35.9
92.5°	72.0	90.4	103.8	115.0	120.0	119.4	120.0	115.0	103.8	90.4	72.0
95°	145.0	166.8	188.6	204.2	213.6	210.4	213.6	204.2	188.6	166.8	145.0
97.5°	223.5	252.8	277.2	291.8	301.2	307.4	301.2	291.8	277.2	252.8	223.5
100°	275.9	304.0	332.0	349.2	364.8	371.0	364.8	349.2	332.0	304.0	275.9
102.5°	318.3	355.1	385.6	404.0	417.1	423.4	417.1	404.0	385.6	355.1	318.3
105°	388.1	427.1	459.8	483.2	497.2	501.9	497.2	483.2	459.8	427.1	388.1
107.5°	458.0	498.2	528.4	554.3	571.4	581.4	571.4	554.3	528.4	498.2	458.0
110°	512.8	545.6	578.3	601.7	618.8	625.1	618.8	601.7	578.3	545.6	512.8



TEST NUMBER: P1428259

CATALOG NUMBER: SQ2W-PR1-K-100U-075D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	559.0	595.5	628.2	651.6	671.2	679.9	671.2	651.6	628.2	595.5	559.0
115°	623.5	671.8	701.4	723.3	737.3	745.1	737.3	723.3	701.4	671.8	623.5
117.5°	677.1	727.6	760.1	776.9	783.4	789.1	783.4	776.9	760.1	727.6	677.1
120°	710.8	757.6	795.0	816.8	824.6	827.7	824.6	816.8	795.0	757.6	710.8
122.5°	742.0	786.2	822.4	849.2	862.0	865.1	862.0	849.2	822.4	786.2	742.0
125°	785.6	827.7	865.1	891.6	905.6	913.4	905.6	891.6	865.1	827.7	785.6
127.5°	823.7	869.2	903.5	927.5	941.2	947.4	941.2	927.5	903.5	869.2	823.7
130°	844.9	891.6	925.9	952.4	964.9	971.1	964.9	952.4	925.9	891.6	844.9
132.5°	861.1	910.3	945.9	969.9	983.6	989.8	983.6	969.9	945.9	910.3	861.1
135°	880.7	932.1	969.6	992.9	1005.4	1011.6	1005.4	992.9	969.6	932.1	880.7
137.5°	897.9	944.6	983.6	1008.2	1019.4	1023.5	1019.4	1008.2	983.6	944.6	897.9
140°	910.3	950.9	989.8	1013.2	1025.7	1027.2	1025.7	1013.2	989.8	950.9	910.3
142.5°	926.5	958.3	992.3	1015.7	1028.2	1031.0	1028.2	1015.7	992.3	958.3	926.5
145°	955.5	974.2	997.6	1019.4	1030.4	1033.5	1030.4	1019.4	997.6	974.2	955.5
147.5°	992.0	997.9	1010.1	1024.4	1035.0	1037.2	1035.0	1024.4	1010.1	997.9	992.0
150°	1019.4	1017.9	1022.6	1031.9	1041.3	1039.7	1041.3	1031.9	1022.6	1017.9	1019.4
152.5°	1050.6	1041.6	1041.3	1045.6	1050.0	1049.7	1050.0	1045.6	1041.3	1041.6	1050.6
155°	1103.6	1086.5	1077.1	1074.0	1074.0	1072.4	1074.0	1074.0	1077.1	1086.5	1103.6
157.5°	1161.9	1137.9	1123.9	1116.4	1114.2	1110.8	1114.2	1116.4	1123.9	1137.9	1161.9
160°	1201.8	1175.3	1161.3	1148.8	1144.1	1139.5	1144.1	1148.8	1161.3	1175.3	1201.8
162.5°	1239.2	1214.0	1198.7	1187.5	1182.8	1175.6	1182.8	1187.5	1198.7	1214.0	1239.2
165°	1300.0	1273.5	1256.4	1247.0	1240.8	1234.6	1240.8	1247.0	1256.4	1273.5	1300.0
167.5°	1360.8	1331.8	1320.6	1310.0	1304.1	1292.8	1304.1	1310.0	1320.6	1331.8	1360.8
170°	1398.2	1371.7	1365.5	1356.1	1345.2	1332.8	1345.2	1356.1	1365.5	1371.7	1398.2
172.5°	1430.6	1412.9	1406.6	1397.3	1393.9	1383.9	1393.9	1397.3	1406.6	1412.9	1430.6
175°	1477.7	1463.7	1463.7	1462.1	1457.5	1448.1	1457.5	1462.1	1463.7	1463.7	1477.7
177.5°	1517.0	1509.5	1514.5	1514.5	1513.3	1504.5	1513.3	1514.5	1514.5	1509.5	1517.0
180°	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2	1543.2



TEST NUMBER: P1428259

CATALOG NUMBER: SQ2W-PR1-K-100U-075D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1649.2	1649.2	1649.2	1649.2
2.5°	1656.4	1660.5	1651.5	1642.5
5°	1663.3	1666.2	1653.5	1640.8
7.5°	1678.0	1676.7	1658.6	1640.5
10°	1685.7	1682.5	1660.8	1639.2
12.5°	1678.9	1681.6	1656.3	1631.1
15°	1654.8	1667.0	1637.1	1607.2
17.5°	1616.7	1627.6	1596.4	1565.2
20°	1592.1	1599.6	1568.9	1538.3
22.5°	1570.6	1575.3	1544.7	1514.1
25°	1533.8	1533.2	1506.3	1479.4
27.5°	1485.3	1474.8	1459.0	1443.1
30°	1452.5	1433.1	1422.7	1412.2
32.5°	1418.5	1391.1	1384.8	1378.6
35°	1368.5	1333.6	1328.3	1323.1
37.5°	1307.2	1278.7	1267.9	1257.2
40°	1263.7	1244.6	1226.7	1208.8
42.5°	1211.2	1207.0	1178.3	1149.6
45°	1111.3	1133.5	1094.6	1055.8
47.5°	983.0	1025.0	985.1	945.2
50°	889.3	936.8	904.7	872.5
52.5°	797.9	844.9	821.7	798.6
55°	664.6	708.2	696.2	684.2
57.5°	553.3	594.6	587.0	579.3
60°	484.7	526.6	521.4	516.1
62.5°	426.0	466.4	462.3	458.3
65°	349.7	384.1	380.3	376.6
67.5°	287.3	315.6	313.6	311.7
70°	250.5	275.5	274.8	274.0
72.5°	216.0	238.3	239.4	240.4
75°	167.0	185.5	187.7	190.0
77.5°	121.7	137.1	139.5	141.9
80°	93.0	105.0	108.0	111.0
82.5°	67.0	74.3	78.5	82.7
85°	31.9	32.9	36.6	40.3
87.5°	14.1	14.2	12.9	11.7
90°	28.1	17.1	10.9	4.7
92.5°	60.5	42.1	29.6	17.1
95°	121.6	96.6	68.6	48.3
97.5°	193.6	153.4	125.6	92.3
100°	232.3	193.3	166.8	130.9
102.5°	274.7	241.9	205.4	169.6
105°	350.7	310.2	268.1	227.6
107.5°	421.2	376.6	326.1	289.6
110°	466.1	417.8	364.8	332.0



TEST NUMBER: P1428259

CATALOG NUMBER: SQ2W-PR1-K-100U-075D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	509.7	460.2	405.9	373.2
115°	569.0	514.4	464.5	436.5
117.5°	626.0	569.9	517.2	495.1
120°	660.9	604.8	553.4	536.2
122.5°	689.6	634.7	587.0	579.9
125°	732.6	676.5	636.0	645.3
127.5°	767.5	716.1	690.5	711.4
130°	788.7	743.5	727.9	757.6
132.5°	807.4	772.2	765.4	806.2
135°	835.5	815.2	821.5	877.6
137.5°	868.9	861.1	882.0	952.7
140°	890.1	894.7	924.4	1003.9
142.5°	918.7	929.7	968.0	1052.5
145°	963.3	986.7	1036.6	1120.8
147.5°	1013.8	1044.1	1105.8	1192.2
150°	1047.5	1086.5	1151.9	1234.6
152.5°	1086.2	1126.4	1191.8	1275.7
155°	1145.7	1190.9	1259.5	1331.2
157.5°	1206.5	1252.6	1318.1	1380.8
160°	1243.9	1293.8	1353.0	1410.7
162.5°	1286.3	1332.4	1384.2	1435.6
165°	1348.3	1385.8	1427.8	1471.5
167.5°	1400.4	1431.6	1464.6	1498.6
170°	1434.1	1459.0	1487.1	1513.6
172.5°	1462.8	1482.7	1503.3	1526.0
175°	1501.1	1512.0	1524.5	1538.5
177.5°	1530.7	1534.5	1538.2	1544.4
180°	1543.2	1543.2	1543.2	1543.2



TEST NUMBER: P1428259  
 CATALOG NUMBER: SQ2W-PR1-K-100U-075D-L840-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	17.77	18.57	18.76	19.57	20.89	14.14	14.94	15.13	15.94	17.26
	3H	18.97	19.69	19.98	20.69	22.03	15.30	16.01	16.30	17.02	18.36
	4H	19.46	20.13	20.47	21.14	22.49	15.76	16.43	16.78	17.44	18.79
	6H	19.75	20.37	20.78	21.38	22.74	16.10	16.72	17.12	17.73	19.09
	8H	19.85	20.44	20.88	21.47	22.83	16.23	16.82	17.26	17.85	19.21
	12H	19.89	20.45	20.93	21.47	22.85	16.26	16.82	17.30	17.85	19.23
4H	2H	17.87	18.54	18.89	19.55	20.90	14.84	15.52	15.87	16.53	17.88
	3H	19.32	19.88	20.35	20.92	22.28	16.19	16.75	17.22	17.79	19.15
	4H	19.95	20.46	20.99	21.49	22.87	16.74	17.25	17.77	18.28	19.66
	6H	20.38	20.81	21.42	21.87	23.25	17.17	17.60	18.21	18.66	20.04
	8H	20.53	20.94	21.58	21.99	23.38	17.35	17.76	18.40	18.80	20.20
	12H	20.60	20.97	21.66	22.03	23.43	17.39	17.76	18.46	18.82	20.22
8H	4H	19.97	20.38	21.02	21.42	22.82	17.06	17.47	18.11	18.51	19.91
	6H	20.50	20.84	21.57	21.93	23.32	17.60	17.93	18.67	19.02	20.42
	8H	20.73	21.03	21.81	22.10	23.51	17.86	18.16	18.94	19.23	20.64
	12H	20.85	21.11	21.93	22.18	23.63	17.95	18.21	19.03	19.28	20.73
12H	4H	19.92	20.29	20.99	21.35	22.75	17.08	17.44	18.14	18.51	19.91
	6H	20.49	20.79	21.57	21.86	23.27	17.67	17.97	18.75	19.04	20.45
	8H	20.74	21.00	21.82	22.07	23.52	17.96	18.22	19.04	19.29	20.74