

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: P1428427

Luminaire Tested: SQ2W-PW1-K-100U-075D-L840-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1428427  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-PW1-K-100U-075D-L840-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - PERCEIVE WAVES LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

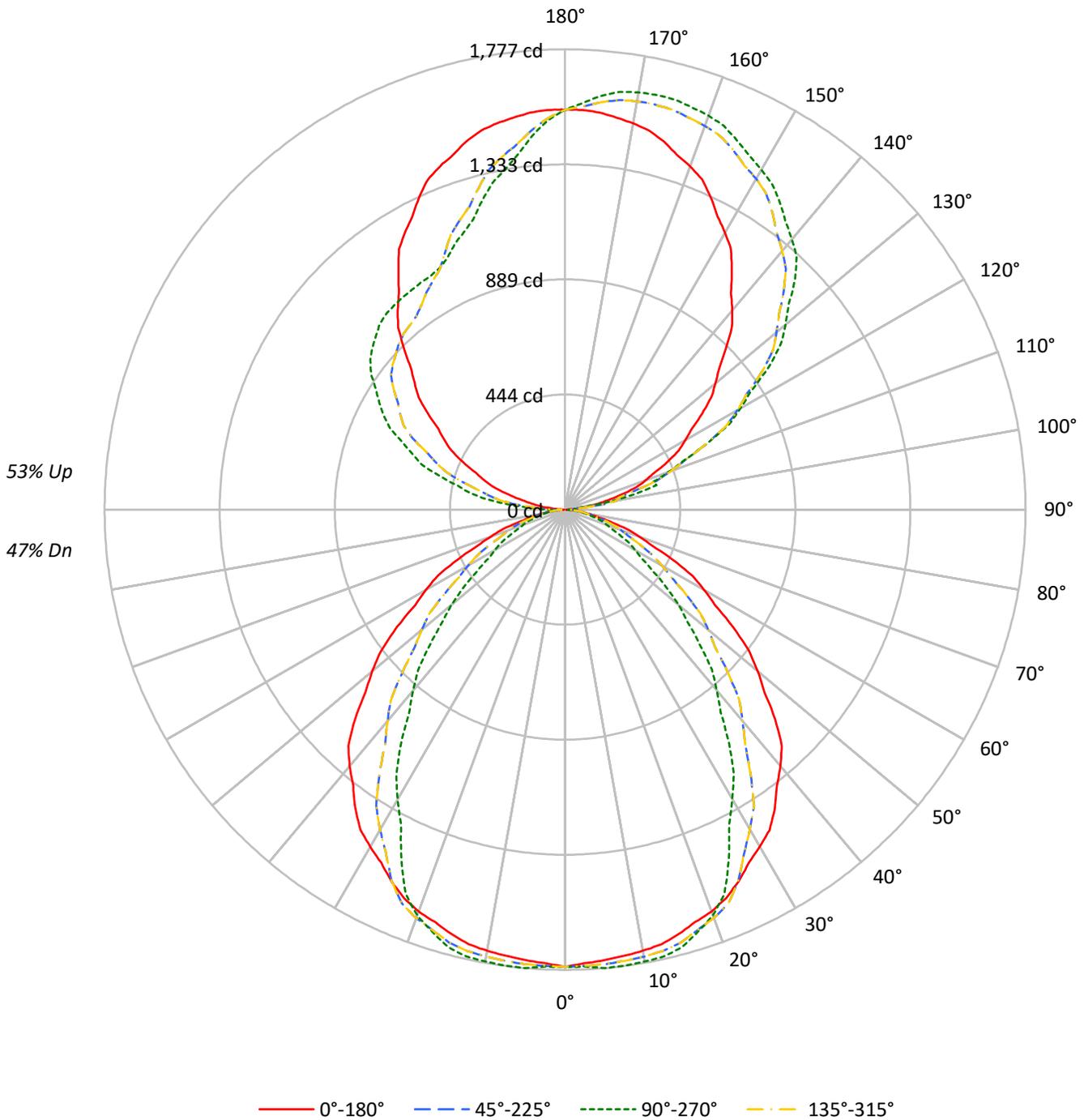
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8429.2 lumens  
Efficiency: N/A  
Efficacy: 141.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.11 / 1.23  
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	81	81	81	67	67	67	53	53	53	47				47
1	98	93	90	86	89	86	83	80	72	70	68	59	58	56	48	47	46				40	
2	89	82	76	71	82	76	71	67	64	60	57	53	50	48	43	41	39				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	42	39	36	34	32	30				26	
5	69	58	50	44	63	54	47	42	46	40	36	38	34	31	31	28	26				23	
6	64	52	44	39	58	48	41	36	41	36	32	35	31	28	28	26	23				20	
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	37	30	26	31	26	23	27	23	20	22	19	17				15	
10	48	36	29	24	44	34	27	23	29	24	21	25	21	18	21	18	16				14	

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

	0°	90°	180°	270°
0°	28500	28500	28500	28500
5°	28311	28800	28311	28800
10°	28361	29051	28361	29051
15°	28354	29225	28354	29225
20°	28365	28654	28365	28654
25°	28213	26626	28213	26626
30°	28021	24072	28021	24072
35°	27801	21738	27801	21738
40°	27248	19205	27248	19205
45°	26181	16776	26181	16776
50°	24364	14357	24364	14357
55°	22288	11642	22288	11642
60°	19979	10043	19979	10043
65°	17471	8928	17471	8928
70°	14285	8096	14285	8096
75°	11116	7448	11116	7448
80°	8284	6564	8284	6564
85°	5613	3742	5613	3742

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 26181 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.1	2.0
10°-20°	487.0	5.8
20°-30°	716.7	8.5
30°-40°	783.7	9.3
40°-50°	703.0	8.3
50°-60°	524.4	6.2
60°-70°	331.4	3.9
70°-80°	164.2	1.9
80°-90°	44.8	0.5
90°-100°	122.8	1.5
100°-110°	358.2	4.2
110°-120°	584.5	6.9
120°-130°	741.7	8.8
130°-140°	793.6	9.4
140°-150°	741.1	8.8
150°-160°	609.8	7.2
160°-170°	409.0	4.9
170°-180°	145.2	1.7
0°-30°	1371.9	16.3
0°-40°	2155.5	25.6
0°-60°	3382.9	40.1
0°-90°	3923.4	46.5
90°-120°	1065.5	12.6
90°-150°	3341.8	39.6
90°-180°	4506.0	53.5
0°-180°	8429.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1765	1765	1765	1765	1765	
5°	1747	1777	1747	1777	1747	166
15°	1696	1748	1696	1748	1696	479
25°	1584	1495	1584	1495	1584	729
35°	1410	1103	1410	1103	1410	880
45°	1147	735	1147	735	1147	879
55°	792	414	792	414	792	707
65°	457	234	457	234	457	453
75°	178	119	178	119	178	196
85°	30	20	30	20	30	38
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°	1765.2	1765.2	1765.2	1765.2	1765.2	1765.2	1765.2	1765.2	1765.2	1765.2	1765.2
2.5°	1753.1	1763.3	1773.5	1771.1	1764.5	1761.5	1762.1	1763.0	1764.8	1766.6	1764.8
5°	1746.8	1759.5	1772.2	1770.3	1763.6	1760.6	1761.3	1763.6	1770.3	1777.0	1770.3
7.5°	1738.0	1750.9	1763.7	1763.1	1758.0	1756.8	1759.3	1762.9	1769.4	1776.0	1769.4
10°	1729.9	1743.4	1756.8	1756.8	1752.4	1752.0	1755.7	1760.0	1766.0	1772.0	1766.0
12.5°	1719.2	1733.2	1747.3	1748.3	1745.0	1745.6	1749.9	1754.6	1760.6	1766.6	1760.6
15°	1696.3	1711.3	1726.2	1729.4	1728.6	1730.9	1736.1	1741.0	1744.7	1748.4	1744.7
17.5°	1669.8	1684.7	1699.6	1702.6	1701.6	1701.7	1703.0	1704.5	1706.3	1708.1	1706.3
20°	1650.9	1665.9	1680.8	1682.9	1680.6	1676.9	1671.7	1667.7	1667.7	1667.7	1667.7
22.5°	1624.0	1640.2	1656.3	1656.4	1651.2	1641.5	1627.3	1615.4	1610.7	1605.9	1610.7
25°	1583.7	1599.4	1615.1	1607.8	1592.8	1570.8	1541.7	1517.0	1505.8	1494.6	1505.8
27.5°	1536.6	1549.3	1562.0	1543.0	1513.4	1477.9	1436.5	1401.6	1386.0	1370.5	1386.0
30°	1503.0	1512.7	1522.4	1492.3	1449.0	1404.5	1359.0	1321.0	1306.1	1291.2	1306.1
32.5°	1468.0	1471.8	1475.5	1435.8	1381.8	1331.0	1283.6	1244.1	1227.9	1211.8	1227.9
35°	1410.5	1403.8	1397.1	1344.4	1276.4	1218.5	1170.7	1131.3	1117.1	1102.9	1117.1
37.5°	1342.6	1322.6	1302.5	1243.2	1170.7	1109.4	1059.4	1017.9	1002.2	986.5	1002.2
40°	1292.8	1264.4	1236.0	1172.3	1096.9	1034.1	984.1	942.6	926.9	911.2	926.9
42.5°	1237.7	1202.1	1166.6	1101.1	1025.6	962.8	912.8	871.2	854.9	838.6	854.9
45°	1146.6	1104.7	1062.9	994.7	917.7	855.0	806.4	766.1	750.4	734.7	750.4
47.5°	1044.0	1002.5	960.9	892.9	816.1	754.2	707.1	668.4	655.0	641.5	655.0
50°	970.0	929.7	889.3	824.3	751.1	691.0	643.9	604.5	588.0	571.6	588.0
52.5°	894.7	858.6	822.4	759.8	688.4	628.5	580.2	538.4	516.0	493.6	516.0
55°	791.8	757.5	723.1	664.1	596.8	536.3	482.5	439.0	426.3	413.6	426.3
57.5°	685.9	656.2	626.4	573.4	512.6	457.7	408.9	369.6	359.1	348.7	359.1
60°	618.7	592.5	566.4	515.6	456.5	406.5	365.4	331.9	321.5	311.0	321.5
62.5°	554.1	531.0	507.8	459.1	401.8	356.9	324.1	297.4	288.8	280.1	288.8
65°	457.3	440.1	422.9	382.8	334.9	297.6	270.7	248.6	241.2	233.7	241.2
67.5°	363.1	353.6	344.0	313.9	277.0	246.8	223.1	204.2	199.3	194.3	199.3
70°	302.6	299.6	296.6	271.8	239.7	213.9	194.5	179.0	175.2	171.5	175.2
72.5°	250.2	251.4	252.6	231.9	203.9	182.4	167.1	155.0	152.5	150.0	152.5
75°	178.2	184.2	190.2	176.5	156.4	141.0	130.6	122.4	120.9	119.4	120.9
77.5°	121.4	130.3	139.3	130.5	115.7	104.4	96.6	90.5	89.3	88.1	89.3
80°	89.1	98.1	107.0	100.9	89.7	81.1	75.1	70.6	70.6	70.6	70.6
82.5°	62.2	69.4	76.6	72.2	64.0	58.4	55.4	53.1	53.1	53.1	53.1
85°	30.3	34.0	37.7	36.4	33.4	29.7	25.2	21.7	20.9	20.2	20.9
87.5°	9.0	12.0	15.4	14.9	12.8	11.3	10.7	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°	1765.2	1765.2	1765.2	1765.2	1765.2	1765.2	1765.2	1765.2	1765.2	1765.2	1765.2
2.5°	1763.0	1762.1	1761.5	1764.5	1771.1	1773.5	1763.3	1753.1	1763.3	1773.5	1771.1
5°	1763.6	1761.3	1760.6	1763.6	1770.3	1772.2	1759.5	1746.8	1759.5	1772.2	1770.3
7.5°	1762.9	1759.3	1756.8	1758.0	1763.1	1763.7	1750.9	1738.0	1750.9	1763.7	1763.1
10°	1760.0	1755.7	1752.0	1752.4	1756.8	1756.8	1743.4	1729.9	1743.4	1756.8	1756.8
12.5°	1754.6	1749.9	1745.6	1745.0	1748.3	1747.3	1733.2	1719.2	1733.2	1747.3	1748.3
15°	1741.0	1736.1	1730.9	1728.6	1729.4	1726.2	1711.3	1696.3	1711.3	1726.2	1729.4
17.5°	1704.5	1703.0	1701.7	1701.6	1702.6	1699.6	1684.7	1669.8	1684.7	1699.6	1702.6
20°	1667.7	1671.7	1676.9	1680.6	1682.9	1680.8	1665.9	1650.9	1665.9	1680.8	1682.9
22.5°	1615.4	1627.3	1641.5	1651.2	1656.4	1656.3	1640.2	1624.0	1640.2	1656.3	1656.4
25°	1517.0	1541.7	1570.8	1592.8	1607.8	1615.1	1599.4	1583.7	1599.4	1615.1	1607.8
27.5°	1401.6	1436.5	1477.9	1513.4	1543.0	1562.0	1549.3	1536.6	1549.3	1562.0	1543.0
30°	1321.0	1359.0	1404.5	1449.0	1492.3	1522.4	1512.7	1503.0	1512.7	1522.4	1492.3
32.5°	1244.1	1283.6	1331.0	1381.8	1435.8	1475.5	1471.8	1468.0	1471.8	1475.5	1435.8
35°	1131.3	1170.7	1218.5	1276.4	1344.4	1397.1	1403.8	1410.5	1403.8	1397.1	1344.4
37.5°	1017.9	1059.4	1109.4	1170.7	1243.2	1302.5	1322.6	1342.6	1322.6	1302.5	1243.2
40°	942.6	984.1	1034.1	1096.9	1172.3	1236.0	1264.4	1292.8	1264.4	1236.0	1172.3
42.5°	871.2	912.8	962.8	1025.6	1101.1	1166.6	1202.1	1237.7	1202.1	1166.6	1101.1
45°	766.1	806.4	855.0	917.7	994.7	1062.9	1104.7	1146.6	1104.7	1062.9	994.7
47.5°	668.4	707.1	754.2	816.1	892.9	960.9	1002.5	1044.0	1002.5	960.9	892.9
50°	604.5	643.9	691.0	751.1	824.3	889.3	929.7	970.0	929.7	889.3	824.3
52.5°	538.4	580.2	628.5	688.4	759.8	822.4	858.6	894.7	858.6	822.4	759.8
55°	439.0	482.5	536.3	596.8	664.1	723.1	757.5	791.8	757.5	723.1	664.1
57.5°	369.6	408.9	457.7	512.6	573.4	626.4	656.2	685.9	656.2	626.4	573.4
60°	331.9	365.4	406.5	456.5	515.6	566.4	592.5	618.7	592.5	566.4	515.6
62.5°	297.4	324.1	356.9	401.8	459.1	507.8	531.0	554.1	531.0	507.8	459.1
65°	248.6	270.7	297.6	334.9	382.8	422.9	440.1	457.3	440.1	422.9	382.8
67.5°	204.2	223.1	246.8	277.0	313.9	344.0	353.6	363.1	353.6	344.0	313.9
70°	179.0	194.5	213.9	239.7	271.8	296.6	299.6	302.6	299.6	296.6	271.8
72.5°	155.0	167.1	182.4	203.9	231.9	252.6	251.4	250.2	251.4	252.6	231.9
75°	122.4	130.6	141.0	156.4	176.5	190.2	184.2	178.2	184.2	190.2	176.5
77.5°	90.5	96.6	104.4	115.7	130.5	139.3	130.3	121.4	130.3	139.3	130.5
80°	70.6	75.1	81.1	89.7	100.9	107.0	98.1	89.1	98.1	107.0	100.9
82.5°	53.1	55.4	58.4	64.0	72.2	76.6	69.4	62.2	69.4	76.6	72.2
85°	21.7	25.2	29.7	33.4	36.4	37.7	34.0	30.3	34.0	37.7	36.4
87.5°	10.6	10.7	11.3	12.8	14.9	15.4	12.0	9.0	12.0	15.1	15.5
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: P1428427

CATALOG NUMBER: SQ2W-PW1-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: P1428427

CATALOG NUMBER: SQ2W-PW1-K-100U-075D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1765.2	1765.2	1765.2	1765.2	1765.2	1765.2	1765.2	1765.2	1765.2	1765.2	1765.2
2.5°	1764.5	1761.5	1762.1	1763.0	1764.8	1766.6	1764.8	1763.0	1762.1	1761.5	1764.5
5°	1763.6	1760.6	1761.3	1763.6	1770.3	1777.0	1770.3	1763.6	1761.3	1760.6	1763.6
7.5°	1758.0	1756.8	1759.3	1762.9	1769.4	1776.0	1769.4	1762.9	1759.3	1756.8	1758.0
10°	1752.4	1752.0	1755.7	1760.0	1766.0	1772.0	1766.0	1760.0	1755.7	1752.0	1752.4
12.5°	1745.0	1745.6	1749.9	1754.6	1760.6	1766.6	1760.6	1754.6	1749.9	1745.6	1745.0
15°	1728.6	1730.9	1736.1	1741.0	1744.7	1748.4	1744.7	1741.0	1736.1	1730.9	1728.6
17.5°	1701.6	1701.7	1703.0	1704.5	1706.3	1708.1	1706.3	1704.5	1703.0	1701.7	1701.6
20°	1680.6	1676.9	1671.7	1667.7	1667.7	1667.7	1667.7	1667.7	1671.7	1676.9	1680.6
22.5°	1651.2	1641.5	1627.3	1615.4	1610.7	1605.9	1610.7	1615.4	1627.3	1641.5	1651.2
25°	1592.8	1570.8	1541.7	1517.0	1505.8	1494.6	1505.8	1517.0	1541.7	1570.8	1592.8
27.5°	1513.4	1477.9	1436.5	1401.6	1386.0	1370.5	1386.0	1401.6	1436.5	1477.9	1513.4
30°	1449.0	1404.5	1359.0	1321.0	1306.1	1291.2	1306.1	1321.0	1359.0	1404.5	1449.0
32.5°	1381.8	1331.0	1283.6	1244.1	1227.9	1211.8	1227.9	1244.1	1283.6	1331.0	1381.8
35°	1276.4	1218.5	1170.7	1131.3	1117.1	1102.9	1117.1	1131.3	1170.7	1218.5	1276.4
37.5°	1170.7	1109.4	1059.4	1017.9	1002.2	986.5	1002.2	1017.9	1059.4	1109.4	1170.7
40°	1096.9	1034.1	984.1	942.6	926.9	911.2	926.9	942.6	984.1	1034.1	1096.9
42.5°	1025.6	962.8	912.8	871.2	854.9	838.6	854.9	871.2	912.8	962.8	1025.6
45°	917.7	855.0	806.4	766.1	750.4	734.7	750.4	766.1	806.4	855.0	917.7
47.5°	816.1	754.2	707.1	668.4	655.0	641.5	655.0	668.4	707.1	754.2	816.1
50°	751.1	691.0	643.9	604.5	588.0	571.6	588.0	604.5	643.9	691.0	751.1
52.5°	688.4	628.5	580.2	538.4	516.0	493.6	516.0	538.4	580.2	628.5	688.4
55°	596.8	536.3	482.5	439.0	426.3	413.6	426.3	439.0	482.5	536.3	596.8
57.5°	512.6	457.7	408.9	369.6	359.1	348.7	359.1	369.6	408.9	457.7	512.6
60°	456.5	406.5	365.4	331.9	321.5	311.0	321.5	331.9	365.4	406.5	456.5
62.5°	401.8	356.9	324.1	297.4	288.8	280.1	288.8	297.4	324.1	356.9	401.8
65°	334.9	297.6	270.7	248.6	241.2	233.7	241.2	248.6	270.7	297.6	334.9
67.5°	277.0	246.8	223.1	204.2	199.3	194.3	199.3	204.2	223.1	246.8	277.0
70°	239.7	213.9	194.5	179.0	175.2	171.5	175.2	179.0	194.5	213.9	239.7
72.5°	203.9	182.4	167.1	155.0	152.5	150.0	152.5	155.0	167.1	182.4	203.9
75°	156.4	141.0	130.6	122.4	120.9	119.4	120.9	122.4	130.6	141.0	156.4
77.5°	115.7	104.4	96.6	90.5	89.3	88.1	89.3	90.5	96.6	104.4	115.7
80°	89.7	81.1	75.1	70.6	70.6	70.6	70.6	70.6	75.1	81.1	89.7
82.5°	64.0	58.4	55.4	53.1	53.1	53.1	53.1	53.1	55.4	58.4	64.0
85°	33.4	29.7	25.2	21.7	20.9	20.2	20.9	21.7	25.2	29.7	33.4
87.5°	14.0	14.4	16.0	16.8	18.1	17.4	18.1	16.8	16.0	14.4	14.0
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: P1428427

CATALOG NUMBER: SQ2W-PW1-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: P1428427

CATALOG NUMBER: SQ2W-PW1-K-100U-075D-L840-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1765.2	1765.2	1765.2	1765.2
2.5°	1771.1	1773.5	1763.3	1753.1
5°	1770.3	1772.2	1759.5	1746.8
7.5°	1763.1	1763.7	1750.9	1738.0
10°	1756.8	1756.8	1743.4	1729.9
12.5°	1748.3	1747.3	1733.2	1719.2
15°	1729.4	1726.2	1711.3	1696.3
17.5°	1702.6	1699.6	1684.7	1669.8
20°	1682.9	1680.8	1665.9	1650.9
22.5°	1656.4	1656.3	1640.2	1624.0
25°	1607.8	1615.1	1599.4	1583.7
27.5°	1543.0	1562.0	1549.3	1536.6
30°	1492.3	1522.4	1512.7	1503.0
32.5°	1435.8	1475.5	1471.8	1468.0
35°	1344.4	1397.1	1403.8	1410.5
37.5°	1243.2	1302.5	1322.6	1342.6
40°	1172.3	1236.0	1264.4	1292.8
42.5°	1101.1	1166.6	1202.1	1237.7
45°	994.7	1062.9	1104.7	1146.6
47.5°	892.9	960.9	1002.5	1044.0
50°	824.3	889.3	929.7	970.0
52.5°	759.8	822.4	858.6	894.7
55°	664.1	723.1	757.5	791.8
57.5°	573.4	626.4	656.2	685.9
60°	515.6	566.4	592.5	618.7
62.5°	459.1	507.8	531.0	554.1
65°	382.8	422.9	440.1	457.3
67.5°	313.9	344.0	353.6	363.1
70°	271.8	296.6	299.6	302.6
72.5°	231.9	252.6	251.4	250.2
75°	176.5	190.2	184.2	178.2
77.5°	130.5	139.3	130.3	121.4
80°	100.9	107.0	98.1	89.1
82.5°	72.2	76.6	69.4	62.2
85°	36.4	37.7	34.0	30.3
87.5°	15.5	15.1	12.0	9.0
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: P1428427

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**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: P1428427

CATALOG NUMBER: SQ2W-PW1-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	18.22	19.02	19.21	20.02	21.34	14.47	15.26	15.46	16.26	17.59
	3H	19.52	20.23	20.52	21.24	22.58	15.73	16.44	16.74	17.45	18.80
	4H	19.92	20.60	20.94	21.61	22.96	16.24	16.91	17.25	17.92	19.27
	6H	20.10	20.72	21.13	21.74	23.10	16.54	17.16	17.57	18.18	19.54
	8H	20.14	20.73	21.17	21.76	23.12	16.65	17.24	17.69	18.28	19.64
	12H	20.14	20.70	21.18	21.72	23.11	16.68	17.24	17.72	18.27	19.65
4H	2H	18.34	19.02	19.37	20.03	21.38	15.27	15.94	16.29	16.96	18.31
	3H	19.88	20.44	20.91	21.48	22.84	16.71	17.27	17.74	18.31	19.68
	4H	20.42	20.93	21.46	21.96	23.35	17.29	17.80	18.33	18.83	20.22
	6H	20.73	21.17	21.78	22.22	23.61	17.67	18.11	18.72	19.16	20.55
	8H	20.82	21.23	21.87	22.28	23.68	17.82	18.23	18.87	19.28	20.67
	12H	20.84	21.21	21.90	22.27	23.67	17.86	18.23	18.92	19.29	20.69
8H	4H	20.45	20.86	21.50	21.91	23.31	17.63	18.03	18.67	19.08	20.48
	6H	20.87	21.21	21.95	22.30	23.70	18.12	18.45	19.19	19.54	20.94
	8H	21.04	21.34	22.12	22.42	23.83	18.33	18.63	19.41	19.71	21.12
	12H	21.12	21.38	22.20	22.45	23.91	18.42	18.68	19.50	19.75	21.20
12H	4H	20.41	20.78	21.48	21.84	23.25	17.64	18.01	18.71	19.07	20.48
	6H	20.87	21.16	21.95	22.24	23.66	18.19	18.49	19.27	19.56	20.98
	8H	21.05	21.32	22.14	22.39	23.84	18.43	18.69	19.52	19.76	21.22