

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: P1435993

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

Issue Date: 3/24/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1435993  
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-L840-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: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

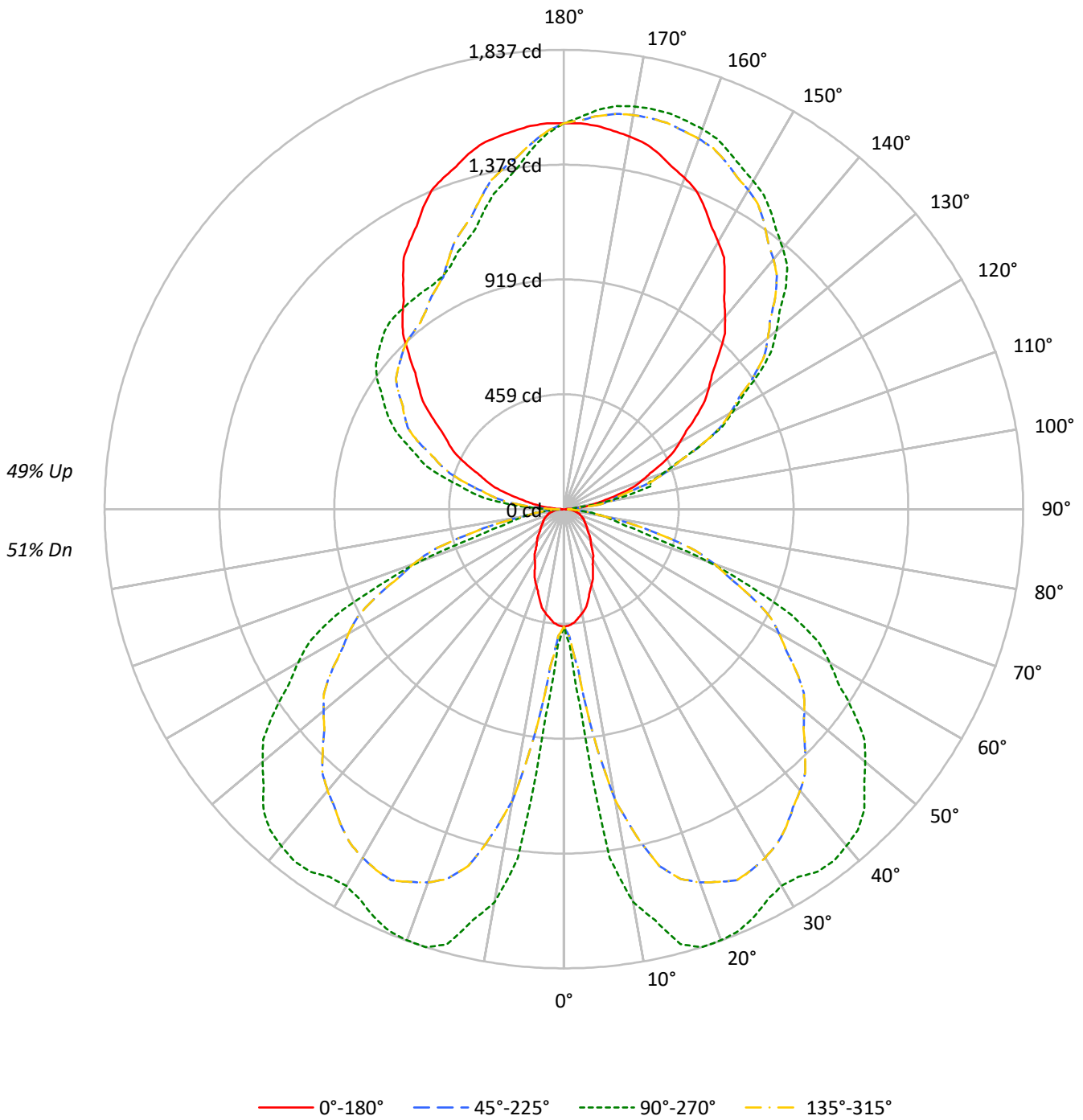
Lumens per Lamp: N/A  
Luminaire Lumens: 9155.7 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 2.98 / 2.52  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 70.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

TEST NUMBER: P1435993

CATALOG NUMBER: SQ2W-FB-K-100U-100D-L840-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°	7592	7592	7592	7592
5°	7400	13446	7400	13446
10°	6930	26163	6930	26163
15°	6272	30112	6272	30112
20°	5553	31535	5553	31535
25°	4913	32054	4913	32054
30°	4340	32449	4340	32449
35°	3877	34885	3877	34885
40°	3526	37065	3526	37065
45°	3251	38812	3251	38812
50°	3067	39516	3067	39516
55°	2989	39831	2989	39831
60°	3064	39634	3064	39634
65°	3194	38513	3194	38513
70°	3309	29131	3309	29131
75°	3668	16076	3668	16076
80°	3784	14923	3784	14923
85°	3761	6280	3761	6280

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 52.5°  
 Luminance: 40191 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.8	0.9
10°-20°	359.4	3.9
20°-30°	632.5	6.9
30°-40°	818.7	8.9
40°-50°	902.9	9.9
50°-60°	842.7	9.2
60°-70°	651.1	7.1
70°-80°	300.1	3.3
80°-90°	63.8	0.7
90°-100°	122.8	1.3
100°-110°	358.2	3.9
110°-120°	584.5	6.4
120°-130°	741.7	8.1
130°-140°	793.6	8.7
140°-150°	741.1	8.1
150°-160°	609.8	6.7
160°-170°	409.0	4.5
170°-180°	145.2	1.6
0°-30°	1070.6	11.7
0°-40°	1889.4	20.6
0°-60°	3635.0	39.7
0°-90°	4649.9	50.8
90°-120°	1065.5	11.6
90°-150°	3341.8	36.5
90°-180°	4506.0	49.2
0°-180°	9155.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	470	470	470	470	470	
5°	457	830	457	830	457	42
15°	375	1802	375	1802	375	105
25°	276	1799	276	1799	276	127
35°	197	1770	197	1770	197	124
45°	142	1700	142	1700	142	110
55°	106	1415	106	1415	106	96
65°	84	1008	84	1008	84	82
75°	59	258	59	258	59	60
85°	20	34	20	34	20	21
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	

TEST NUMBER: P1435993

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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2
2.5°	466.5	475.4	484.2	493.7	503.3	513.8	525.0	534.7	539.5	544.3	539.5
5°	456.6	486.7	516.9	560.6	608.8	663.5	724.8	777.3	803.4	829.6	803.4
7.5°	439.0	500.2	561.5	691.4	844.1	1002.6	1167.0	1303.3	1355.5	1407.8	1355.5
10°	422.7	508.1	593.5	813.7	1079.0	1282.9	1425.5	1539.6	1567.7	1595.8	1567.7
12.5°	404.6	520.5	636.5	908.4	1232.3	1444.2	1544.3	1626.6	1655.5	1684.4	1655.5
15°	375.2	541.0	706.7	1014.2	1368.8	1586.8	1668.2	1737.2	1769.4	1801.5	1769.4
17.5°	344.9	565.5	786.2	1099.7	1444.3	1656.9	1737.5	1802.3	1819.7	1837.2	1819.7
20°	323.2	582.4	841.6	1155.8	1488.3	1689.3	1758.6	1813.3	1824.4	1835.4	1824.4
22.5°	303.3	593.1	882.8	1197.4	1520.3	1707.9	1760.4	1802.7	1814.5	1826.4	1814.5
25°	275.8	602.3	928.8	1242.5	1551.9	1723.2	1756.3	1783.2	1791.2	1799.3	1791.2
27.5°	249.1	594.1	939.1	1248.8	1546.7	1706.6	1728.3	1746.5	1754.3	1762.2	1754.3
30°	232.8	583.4	934.0	1240.9	1533.3	1687.5	1703.6	1718.4	1729.4	1740.5	1729.4
32.5°	218.4	570.6	922.8	1225.9	1512.6	1663.6	1678.9	1696.3	1720.2	1744.1	1720.2
35°	196.7	543.2	889.8	1189.7	1474.0	1628.2	1652.3	1681.5	1725.7	1769.9	1725.7
37.5°	178.1	508.2	838.3	1135.2	1420.9	1588.9	1639.4	1687.8	1730.4	1773.0	1730.4
40°	167.3	483.7	800.2	1094.8	1382.1	1559.4	1626.7	1686.2	1722.4	1758.6	1722.4
42.5°	156.4	456.0	755.6	1047.8	1337.5	1521.6	1600.2	1668.2	1704.3	1740.5	1704.3
45°	142.4	411.6	680.9	970.5	1266.8	1461.2	1553.6	1631.5	1665.6	1699.8	1665.6
47.5°	129.3	363.2	597.0	887.9	1197.7	1401.6	1499.7	1579.4	1604.4	1629.3	1604.4
50°	122.1	331.0	540.0	831.8	1151.3	1359.2	1455.7	1533.0	1553.1	1573.2	1553.1
52.5°	114.8	299.7	484.5	777.0	1105.3	1314.8	1405.6	1478.4	1496.9	1515.4	1496.9
55°	106.2	256.9	407.6	696.9	1032.5	1239.9	1319.3	1382.8	1398.9	1415.0	1398.9
57.5°	98.6	220.1	341.7	621.9	955.0	1155.5	1223.2	1277.2	1290.3	1303.3	1290.3
60°	94.9	200.4	305.9	574.9	898.4	1090.8	1152.0	1201.3	1214.3	1227.4	1214.3
62.5°	89.5	181.3	273.2	527.9	836.9	1019.6	1076.1	1121.5	1133.8	1146.0	1133.8
65°	83.6	158.0	232.3	461.9	743.2	907.4	954.6	992.1	1000.1	1008.1	1000.1
67.5°	75.5	138.6	201.7	401.4	646.8	784.1	813.4	831.7	816.6	801.5	816.6
70°	70.1	128.3	186.6	364.7	582.7	696.7	706.7	703.5	660.3	617.1	660.3
72.5°	66.5	118.3	170.1	324.3	512.6	595.6	573.5	536.5	454.7	373.0	454.7
75°	58.8	101.0	143.2	259.2	399.8	421.9	325.5	253.7	255.7	257.7	255.7
77.5°	47.9	79.5	111.0	182.3	266.9	283.7	232.7	194.8	196.7	198.5	196.7
80°	40.7	65.8	90.9	119.0	148.2	161.7	159.7	158.5	159.5	160.5	159.5
82.5°	33.5	52.1	70.8	87.7	104.0	113.1	115.1	116.3	114.9	113.5	114.9
85°	20.3	31.4	42.4	49.0	54.0	52.5	44.5	37.9	35.9	33.9	35.9
87.5°	8.2	13.4	19.0	18.9	16.6	15.3	15.3	15.6	15.9	15.9	15.9
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



TEST NUMBER: P1435993

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

**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°	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2
2.5°	534.7	525.0	513.8	503.3	493.7	484.2	475.4	466.5	475.4	484.2	493.7
5°	777.3	724.8	663.5	608.8	560.6	516.9	486.7	456.6	486.7	516.9	560.6
7.5°	1303.3	1167.0	1002.6	844.1	691.4	561.5	500.2	439.0	500.2	561.5	691.4
10°	1539.6	1425.5	1282.9	1079.0	813.7	593.5	508.1	422.7	508.1	593.5	813.7
12.5°	1626.6	1544.3	1444.2	1232.3	908.4	636.5	520.5	404.6	520.5	636.5	908.4
15°	1737.2	1668.2	1586.8	1368.8	1014.2	706.7	541.0	375.2	541.0	706.7	1014.2
17.5°	1802.3	1737.5	1656.9	1444.3	1099.7	786.2	565.5	344.9	565.5	786.2	1099.7
20°	1813.3	1758.6	1689.3	1488.3	1155.8	841.6	582.4	323.2	582.4	841.6	1155.8
22.5°	1802.7	1760.4	1707.9	1520.3	1197.4	882.8	593.1	303.3	593.1	882.8	1197.4
25°	1783.2	1756.3	1723.2	1551.9	1242.5	928.8	602.3	275.8	602.3	928.8	1242.5
27.5°	1746.5	1728.3	1706.6	1546.7	1248.8	939.1	594.1	249.1	594.1	939.1	1248.8
30°	1718.4	1703.6	1687.5	1533.3	1240.9	934.0	583.4	232.8	583.4	934.0	1240.9
32.5°	1696.3	1678.9	1663.6	1512.6	1225.9	922.8	570.6	218.4	570.6	922.8	1225.9
35°	1681.5	1652.3	1628.2	1474.0	1189.7	889.8	543.2	196.7	543.2	889.8	1189.7
37.5°	1687.8	1639.4	1588.9	1420.9	1135.2	838.3	508.2	178.1	508.2	838.3	1135.2
40°	1686.2	1626.7	1559.4	1382.1	1094.8	800.2	483.7	167.3	483.7	800.2	1094.8
42.5°	1668.2	1600.2	1521.6	1337.5	1047.8	755.6	456.0	156.4	456.0	755.6	1047.8
45°	1631.5	1553.6	1461.2	1266.8	970.5	680.9	411.6	142.4	411.6	680.9	970.5
47.5°	1579.4	1499.7	1401.6	1197.7	887.9	597.0	363.2	129.3	363.2	597.0	887.9
50°	1533.0	1455.7	1359.2	1151.3	831.8	540.0	331.0	122.1	331.0	540.0	831.8
52.5°	1478.4	1405.6	1314.8	1105.3	777.0	484.5	299.7	114.8	299.7	484.5	777.0
55°	1382.8	1319.3	1239.9	1032.5	696.9	407.6	256.9	106.2	256.9	407.6	696.9
57.5°	1277.2	1223.2	1155.5	955.0	621.9	341.7	220.1	98.6	220.1	341.7	621.9
60°	1201.3	1152.0	1090.8	898.4	574.9	305.9	200.4	94.9	200.4	305.9	574.9
62.5°	1121.5	1076.1	1019.6	836.9	527.9	273.2	181.3	89.5	181.3	273.2	527.9
65°	992.1	954.6	907.4	743.2	461.9	232.3	158.0	83.6	158.0	232.3	461.9
67.5°	831.7	813.4	784.1	646.8	401.4	201.7	138.6	75.5	138.6	201.7	401.4
70°	703.5	706.7	696.7	582.7	364.7	186.6	128.3	70.1	128.3	186.6	364.7
72.5°	536.5	573.5	595.6	512.6	324.3	170.1	118.3	66.5	118.3	170.1	324.3
75°	253.7	325.5	421.9	399.8	259.2	143.2	101.0	58.8	101.0	143.2	259.2
77.5°	194.8	232.7	283.7	266.9	182.3	111.0	79.5	47.9	79.5	111.0	182.3
80°	158.5	159.7	161.7	148.2	119.0	90.9	65.8	40.7	65.8	90.9	119.0
82.5°	116.3	115.1	113.1	104.0	87.7	70.8	52.1	33.5	52.1	70.8	87.7
85°	37.9	44.5	52.5	54.0	49.0	42.4	31.4	20.3	31.4	42.4	49.0
87.5°	15.6	15.3	15.3	16.6	18.9	19.0	13.4	8.2	13.4	18.7	19.5
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: P1435993

CATALOG NUMBER: SQ2W-FB-K-100U-100D-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: P1435993

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

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2	470.2
2.5°	503.3	513.8	525.0	534.7	539.5	544.3	539.5	534.7	525.0	513.8	503.3
5°	608.8	663.5	724.8	777.3	803.4	829.6	803.4	777.3	724.8	663.5	608.8
7.5°	844.1	1002.6	1167.0	1303.3	1355.5	1407.8	1355.5	1303.3	1167.0	1002.6	844.1
10°	1079.0	1282.9	1425.5	1539.6	1567.7	1595.8	1567.7	1539.6	1425.5	1282.9	1079.0
12.5°	1232.3	1444.2	1544.3	1626.6	1655.5	1684.4	1655.5	1626.6	1544.3	1444.2	1232.3
15°	1368.8	1586.8	1668.2	1737.2	1769.4	1801.5	1769.4	1737.2	1668.2	1586.8	1368.8
17.5°	1444.3	1656.9	1737.5	1802.3	1819.7	1837.2	1819.7	1802.3	1737.5	1656.9	1444.3
20°	1488.3	1689.3	1758.6	1813.3	1824.4	1835.4	1824.4	1813.3	1758.6	1689.3	1488.3
22.5°	1520.3	1707.9	1760.4	1802.7	1814.5	1826.4	1814.5	1802.7	1760.4	1707.9	1520.3
25°	1551.9	1723.2	1756.3	1783.2	1791.2	1799.3	1791.2	1783.2	1756.3	1723.2	1551.9
27.5°	1546.7	1706.6	1728.3	1746.5	1754.3	1762.2	1754.3	1746.5	1728.3	1706.6	1546.7
30°	1533.3	1687.5	1703.6	1718.4	1729.4	1740.5	1729.4	1718.4	1703.6	1687.5	1533.3
32.5°	1512.6	1663.6	1678.9	1696.3	1720.2	1744.1	1720.2	1696.3	1678.9	1663.6	1512.6
35°	1474.0	1628.2	1652.3	1681.5	1725.7	1769.9	1725.7	1681.5	1652.3	1628.2	1474.0
37.5°	1420.9	1588.9	1639.4	1687.8	1730.4	1773.0	1730.4	1687.8	1639.4	1588.9	1420.9
40°	1382.1	1559.4	1626.7	1686.2	1722.4	1758.6	1722.4	1686.2	1626.7	1559.4	1382.1
42.5°	1337.5	1521.6	1600.2	1668.2	1704.3	1740.5	1704.3	1668.2	1600.2	1521.6	1337.5
45°	1266.8	1461.2	1553.6	1631.5	1665.6	1699.8	1665.6	1631.5	1553.6	1461.2	1266.8
47.5°	1197.7	1401.6	1499.7	1579.4	1604.4	1629.3	1604.4	1579.4	1499.7	1401.6	1197.7
50°	1151.3	1359.2	1455.7	1533.0	1553.1	1573.2	1553.1	1533.0	1455.7	1359.2	1151.3
52.5°	1105.3	1314.8	1405.6	1478.4	1496.9	1515.4	1496.9	1478.4	1405.6	1314.8	1105.3
55°	1032.5	1239.9	1319.3	1382.8	1398.9	1415.0	1398.9	1382.8	1319.3	1239.9	1032.5
57.5°	955.0	1155.5	1223.2	1277.2	1290.3	1303.3	1290.3	1277.2	1223.2	1155.5	955.0
60°	898.4	1090.8	1152.0	1201.3	1214.3	1227.4	1214.3	1201.3	1152.0	1090.8	898.4
62.5°	836.9	1019.6	1076.1	1121.5	1133.8	1146.0	1133.8	1121.5	1076.1	1019.6	836.9
65°	743.2	907.4	954.6	992.1	1000.1	1008.1	1000.1	992.1	954.6	907.4	743.2
67.5°	646.8	784.1	813.4	831.7	816.6	801.5	816.6	831.7	813.4	784.1	646.8
70°	582.7	696.7	706.7	703.5	660.3	617.1	660.3	703.5	706.7	696.7	582.7
72.5°	512.6	595.6	573.5	536.5	454.7	373.0	454.7	536.5	573.5	595.6	512.6
75°	399.8	421.9	325.5	253.7	255.7	257.7	255.7	253.7	325.5	421.9	399.8
77.5°	266.9	283.7	232.7	194.8	196.7	198.5	196.7	194.8	232.7	283.7	266.9
80°	148.2	161.7	159.7	158.5	159.5	160.5	159.5	158.5	159.7	161.7	148.2
82.5°	104.0	113.1	115.1	116.3	114.9	113.5	114.9	116.3	115.1	113.1	104.0
85°	54.0	52.5	44.5	37.9	35.9	33.9	35.9	37.9	44.5	52.5	54.0
87.5°	17.8	18.4	20.6	21.8	23.1	22.4	23.1	21.8	20.6	18.4	17.8
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: P1435993

CATALOG NUMBER: SQ2W-FB-K-100U-100D-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: P1435993

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

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	470.2	470.2	470.2	470.2
2.5°	493.7	484.2	475.4	466.5
5°	560.6	516.9	486.7	456.6
7.5°	691.4	561.5	500.2	439.0
10°	813.7	593.5	508.1	422.7
12.5°	908.4	636.5	520.5	404.6
15°	1014.2	706.7	541.0	375.2
17.5°	1099.7	786.2	565.5	344.9
20°	1155.8	841.6	582.4	323.2
22.5°	1197.4	882.8	593.1	303.3
25°	1242.5	928.8	602.3	275.8
27.5°	1248.8	939.1	594.1	249.1
30°	1240.9	934.0	583.4	232.8
32.5°	1225.9	922.8	570.6	218.4
35°	1189.7	889.8	543.2	196.7
37.5°	1135.2	838.3	508.2	178.1
40°	1094.8	800.2	483.7	167.3
42.5°	1047.8	755.6	456.0	156.4
45°	970.5	680.9	411.6	142.4
47.5°	887.9	597.0	363.2	129.3
50°	831.8	540.0	331.0	122.1
52.5°	777.0	484.5	299.7	114.8
55°	696.9	407.6	256.9	106.2
57.5°	621.9	341.7	220.1	98.6
60°	574.9	305.9	200.4	94.9
62.5°	527.9	273.2	181.3	89.5
65°	461.9	232.3	158.0	83.6
67.5°	401.4	201.7	138.6	75.5
70°	364.7	186.6	128.3	70.1
72.5°	324.3	170.1	118.3	66.5
75°	259.2	143.2	101.0	58.8
77.5°	182.3	111.0	79.5	47.9
80°	119.0	90.9	65.8	40.7
82.5°	87.7	70.8	52.1	33.5
85°	49.0	42.4	31.4	20.3
87.5°	19.5	18.7	13.4	8.2
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: P1435993

CATALOG NUMBER: SQ2W-FB-K-100U-100D-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: P1435993  
 CATALOG NUMBER: SQ2W-FB-K-100U-100D-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	13.29	14.18	14.23	15.15	16.41	22.88	23.78	23.83	24.75	26.00
	3H	14.23	15.03	15.19	16.01	17.29	24.49	25.30	25.45	26.27	27.55
	4H	14.63	15.39	15.60	16.37	17.66	24.67	25.43	25.64	26.41	27.70
	6H	14.89	15.59	15.87	16.57	17.87	24.75	25.45	25.73	26.43	27.74
	8H	14.98	15.65	15.97	16.65	17.95	24.77	25.44	25.76	26.44	27.74
	12H	15.03	15.66	16.02	16.66	17.98	24.75	25.38	25.74	26.38	27.70
4H	2H	18.01	18.77	18.99	19.75	21.04	23.26	24.02	24.23	24.99	26.28
	3H	19.14	19.78	20.13	20.79	22.09	25.15	25.78	26.13	26.79	28.09
	4H	19.43	20.01	20.42	21.01	22.34	25.37	25.95	26.36	26.95	28.28
	6H	19.57	20.06	20.57	21.09	22.41	25.50	26.00	26.51	27.03	28.35
	8H	19.61	20.07	20.61	21.09	22.43	25.55	26.01	26.56	27.03	28.37
	12H	19.61	20.03	20.64	21.06	22.41	25.53	25.95	26.56	26.99	28.33
8H	4H	20.62	21.09	21.63	22.11	23.45	25.46	25.93	26.47	26.95	28.29
	6H	20.88	21.27	21.92	22.33	23.66	25.66	26.05	26.70	27.11	28.44
	8H	20.98	21.32	22.02	22.37	23.72	25.75	26.09	26.80	27.14	28.49
	12H	21.03	21.32	22.07	22.36	23.76	25.76	26.06	26.81	27.10	28.50
12H	4H	20.65	21.07	21.68	22.10	23.45	25.42	25.84	26.45	26.87	28.22
	6H	20.99	21.33	22.03	22.37	23.73	25.65	25.98	26.69	27.03	28.39
	8H	21.13	21.43	22.18	22.47	23.87	25.75	26.04	26.79	27.08	28.48