

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: P1427788

Luminaire Tested: SQ2W-F-K-125U-100D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1427788  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/10/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2W-F-K-125U-100D-L940-UNV-STD-W-WM-4  
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE  
DOWNLIGHT - FROSTED CONTINUOUS ROLL LENS  
UPLIGHT - ASYMMETRIC ROLL LENS  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

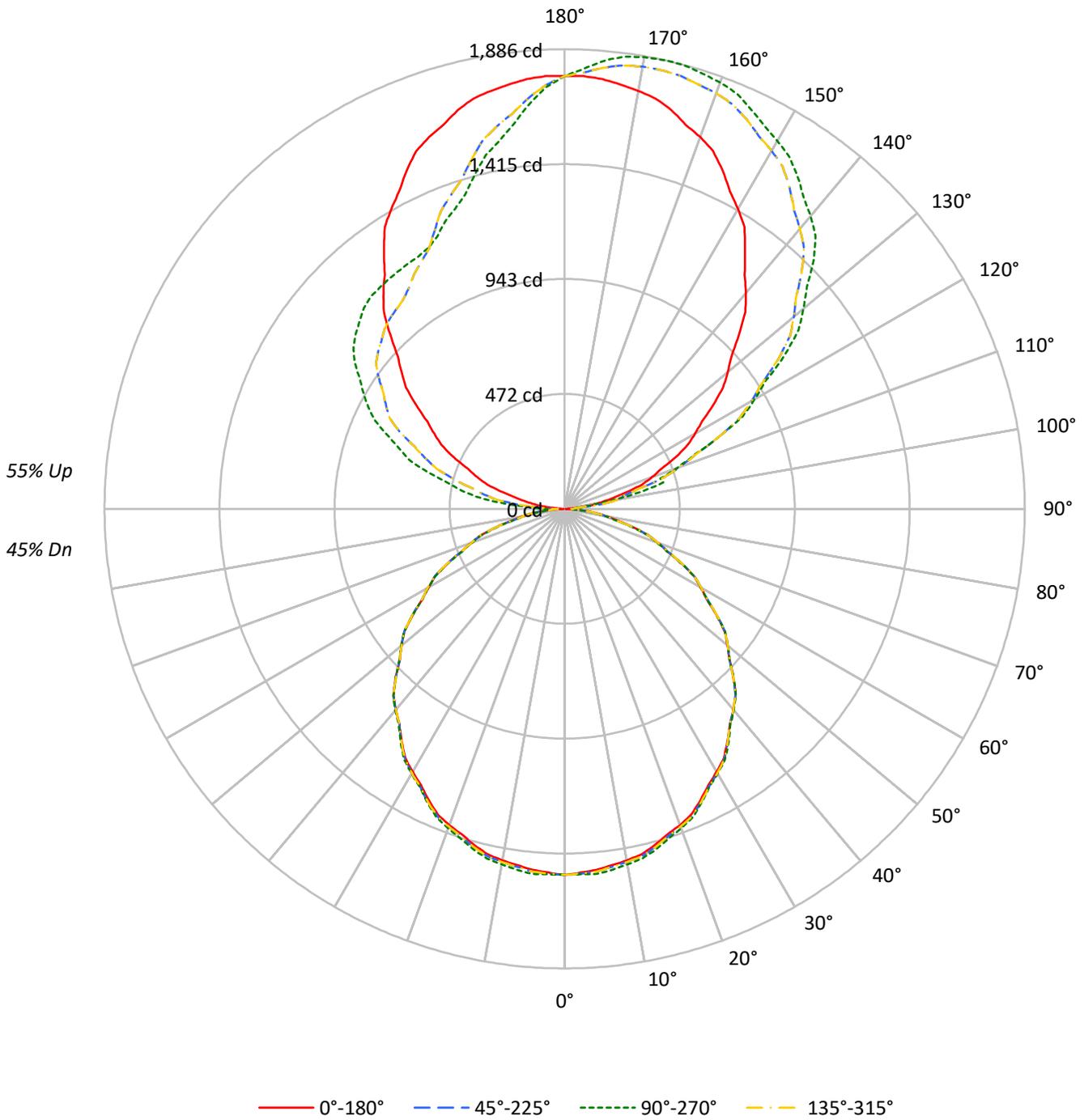
Lumens per Lamp: N/A  
Luminaire Lumens: 9419.8 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 81.6  
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

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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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	51	51	51	45
1	97	92	88	85	88	85	81	78	70	68	66	57	56	54	45	44	43	38
2	88	80	74	69	80	74	68	64	61	58	54	50	47	45	40	38	36	31
3	80	70	63	57	73	65	58	53	54	49	45	44	41	38	35	33	31	26
4	73	62	54	48	67	57	50	45	48	43	38	39	35	32	31	28	26	22
5	67	55	47	41	61	51	44	38	43	37	33	35	31	28	28	25	23	19
6	62	49	41	36	56	46	38	33	38	33	29	32	27	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	21	23	20	18	15
8	53	40	33	27	48	37	30	26	32	26	22	26	22	19	21	18	16	13
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	20	16	14	12
10	46	34	27	22	42	31	25	20	27	21	18	22	18	15	18	15	13	11

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

	0°	90°	180°	270°
0°	24251	24251	24251	24251
5°	24103	24377	24103	24377
10°	24018	24295	24018	24295
15°	23886	24187	23886	24187
20°	23735	23972	23735	23972
25°	23480	23686	23480	23686
30°	23231	23388	23231	23388
35°	22933	23079	22933	23079
40°	22672	22739	22672	22739
45°	22340	22340	22340	22340
50°	21893	21946	21893	21946
55°	21379	21407	21379	21407
60°	20802	20802	20802	20802
65°	20126	20045	20126	20045
70°	19175	18977	19175	18977
75°	17885	17486	17885	17486
80°	15937	15146	15937	15146
85°	12745	10782	12745	10782

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 22491 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.1	1.5
10°-20°	406.1	4.3
20°-30°	611.3	6.5
30°-40°	731.0	7.8
40°-50°	754.8	8.0
50°-60°	680.8	7.2
60°-70°	521.5	5.5
70°-80°	301.4	3.2
80°-90°	85.6	0.9
90°-100°	141.3	1.5
100°-110°	412.2	4.4
110°-120°	672.6	7.1
120°-130°	853.5	9.1
130°-140°	913.3	9.7
140°-150°	852.8	9.1
150°-160°	701.7	7.4
160°-170°	470.6	5.0
170°-180°	167.1	1.8
0°-30°	1159.5	12.3
0°-40°	1890.4	20.1
0°-60°	3326.1	35.3
0°-90°	4234.6	45.0
90°-120°	1226.1	13.0
90°-150°	3845.7	40.8
90°-180°	5185.0	55.0
0°-180°	9419.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1502	1502	1502	1502	1502	
5°	1487	1504	1487	1504	1487	141
15°	1429	1447	1429	1447	1429	403
25°	1318	1330	1318	1330	1318	607
35°	1164	1171	1164	1171	1164	728
45°	978	978	978	978	978	754
55°	760	760	760	760	760	679
65°	527	525	527	525	527	521
75°	287	280	287	280	287	304
85°	69	58	69	58	69	80
90°	5	40	5	77	5	7
95°	56	41	56	242	56	67
105°	262	420	262	578	262	279
115°	502	696	502	857	502	495
125°	743	1103	743	1051	743	664
135°	1010	1444	1010	1164	1010	780
145°	1290	1665	1290	1189	1290	807
155°	1532	1808	1532	1234	1532	704
165°	1693	1885	1693	1421	1693	477
175°	1770	1846	1770	1666	1770	168
180°	1776	1776	1776	1776	1776	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0
2.5°	1494.4	1501.6	1508.7	1505.7	1499.3	1496.9	1498.4	1499.7	1500.4	1501.2	1500.4
5°	1487.2	1496.6	1506.0	1502.7	1495.2	1491.9	1492.9	1494.7	1499.4	1504.1	1499.4
7.5°	1475.2	1484.6	1494.0	1491.0	1483.8	1480.8	1481.9	1484.0	1488.9	1493.8	1488.9
10°	1465.0	1474.4	1483.8	1480.5	1473.0	1470.2	1472.1	1474.4	1478.2	1481.9	1478.2
12.5°	1452.3	1461.7	1471.1	1468.4	1461.6	1458.8	1459.9	1461.8	1465.9	1470.1	1465.9
15°	1429.0	1438.4	1447.8	1445.3	1438.7	1436.1	1437.5	1439.5	1443.3	1447.0	1443.3
17.5°	1400.9	1409.7	1418.6	1416.2	1410.1	1407.8	1409.4	1411.5	1414.8	1418.0	1414.8
20°	1381.4	1389.9	1398.4	1395.9	1389.8	1387.0	1387.4	1388.6	1391.9	1395.2	1391.9
22.5°	1357.8	1366.2	1374.7	1372.5	1366.8	1363.4	1362.3	1362.6	1366.6	1370.7	1366.6
25°	1318.0	1326.4	1334.9	1333.1	1328.0	1324.7	1323.3	1323.0	1326.3	1329.6	1326.3
27.5°	1276.5	1283.6	1290.6	1289.1	1284.8	1282.2	1281.2	1281.1	1283.5	1285.8	1283.5
30°	1246.1	1253.1	1260.2	1258.4	1253.7	1250.9	1249.9	1249.8	1252.2	1254.5	1252.2
32.5°	1213.9	1220.6	1227.2	1224.8	1219.4	1216.6	1216.4	1216.9	1219.6	1222.4	1219.6
35°	1163.5	1169.2	1174.8	1172.4	1167.2	1164.8	1165.3	1166.2	1168.6	1170.9	1168.6
37.5°	1113.0	1117.3	1121.6	1119.1	1114.3	1111.9	1111.8	1112.2	1114.2	1116.2	1114.2
40°	1075.7	1080.5	1085.2	1082.4	1077.3	1074.5	1074.0	1074.2	1076.6	1078.9	1076.6
42.5°	1037.7	1041.2	1044.8	1042.4	1038.0	1035.9	1036.2	1036.7	1037.9	1039.2	1037.9
45°	978.4	981.7	985.0	982.7	978.4	976.3	976.3	976.6	977.5	978.4	977.5
47.5°	916.4	919.0	921.5	919.7	916.4	914.5	913.9	913.9	915.4	916.9	915.4
50°	871.6	874.9	878.2	876.5	873.2	871.1	870.2	870.0	871.8	873.7	871.8
52.5°	827.6	831.3	834.9	833.4	830.1	827.8	826.5	825.9	827.4	828.9	827.4
55°	759.5	763.7	767.9	766.9	764.1	761.7	759.8	758.7	759.6	760.5	759.6
57.5°	689.9	694.0	698.2	697.4	694.9	692.6	690.3	688.9	690.3	691.6	690.3
60°	644.2	647.9	651.7	650.5	647.7	645.4	643.5	642.3	643.2	644.2	643.2
62.5°	597.6	601.4	605.2	603.7	600.5	598.0	596.1	594.9	595.9	596.8	595.9
65°	526.8	530.1	533.3	532.1	529.2	526.9	525.0	523.7	524.2	524.7	524.2
67.5°	455.3	458.1	460.9	459.6	456.8	454.1	451.4	449.5	450.3	451.0	450.3
70°	406.2	409.0	411.8	410.8	408.4	406.1	403.7	402.0	402.0	402.0	402.0
72.5°	358.8	361.2	363.7	362.3	359.5	357.2	355.2	353.7	353.7	353.7	353.7
75°	286.7	288.1	289.5	288.8	287.4	285.5	283.1	281.2	280.8	280.3	280.8
77.5°	217.1	217.1	217.1	215.7	213.9	212.1	210.4	208.9	208.3	207.7	208.3
80°	171.4	171.4	171.4	170.3	168.9	167.5	166.1	164.8	163.8	162.9	163.8
82.5°	129.0	128.3	127.5	126.3	124.9	123.1	120.9	119.6	120.5	121.4	120.5
85°	68.8	67.8	66.9	65.6	64.2	62.5	60.6	59.1	58.6	58.2	58.6
87.5°	22.2	22.9	24.0	24.4	24.3	23.3	21.8	21.0	21.0	20.6	21.0
90°	5.4	12.6	21.5	28.7	34.1	35.9	35.9	37.7	39.5	39.5	39.5
92.5°	19.7	31.2	31.6	31.6	38.4	41.6	44.5	44.8	46.6	46.6	46.6
95°	55.6	61.0	91.5	89.7	61.0	48.4	41.3	41.3	41.3	41.3	41.3
97.5°	106.2	114.1	119.1	159.6	168.6	162.9	132.7	111.6	99.7	94.4	99.7
100°	150.7	154.3	165.0	166.8	211.7	254.7	233.2	206.3	197.3	191.9	197.3
102.5°	195.2	197.3	213.8	221.4	231.8	256.2	330.8	322.5	316.4	315.3	316.4
105°	261.9	263.7	294.2	308.5	315.7	315.7	313.9	349.8	407.2	419.7	407.2
107.5°	333.3	341.5	377.4	415.8	424.0	426.2	416.9	411.5	409.3	410.8	409.3
110°	382.1	394.6	437.7	486.1	498.7	502.3	498.7	493.3	489.7	489.7	489.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	429.4	447.7	496.5	552.1	573.3	584.1	576.2	572.2	568.6	571.5	568.6
115°	502.3	529.2	593.7	651.1	694.2	699.6	697.8	697.8	696.0	696.0	696.0
117.5°	569.7	612.8	685.2	752.0	801.8	816.2	823.3	821.2	819.0	822.6	819.0
120°	617.1	667.3	749.8	825.1	873.6	895.1	902.3	898.7	902.3	898.7	902.3
122.5°	667.3	729.0	810.1	888.3	945.3	969.7	978.3	979.0	979.8	977.6	979.8
125°	742.6	818.0	913.0	993.8	1052.9	1081.6	1088.8	1090.6	1094.2	1103.2	1094.2
127.5°	818.7	904.1	1008.5	1086.3	1146.9	1181.7	1192.9	1196.8	1204.3	1208.3	1204.3
130°	871.8	968.6	1074.5	1148.0	1207.2	1244.9	1264.6	1270.0	1279.0	1277.2	1279.0
132.5°	927.7	1028.9	1136.2	1212.6	1267.5	1308.0	1324.9	1340.3	1343.5	1346.1	1343.5
135°	1009.9	1119.3	1226.9	1302.3	1354.3	1393.8	1415.3	1429.6	1438.6	1444.0	1438.6
137.5°	1096.4	1211.9	1315.2	1382.3	1434.7	1468.7	1493.1	1508.2	1517.5	1521.8	1517.5
140°	1155.2	1266.4	1366.9	1436.8	1483.5	1517.5	1539.1	1557.0	1567.8	1567.8	1567.8
142.5°	1211.2	1320.9	1418.5	1488.5	1529.4	1560.6	1583.5	1597.2	1609.4	1609.4	1609.4
145°	1289.7	1399.1	1488.8	1558.8	1592.9	1621.6	1646.7	1657.5	1664.6	1664.6	1664.6
147.5°	1371.9	1468.7	1550.5	1617.6	1646.3	1680.1	1699.8	1708.4	1717.4	1713.4	1717.4
150°	1420.7	1510.4	1589.3	1652.1	1680.8	1713.1	1732.8	1740.0	1748.9	1743.6	1748.9
152.5°	1468.0	1553.4	1625.2	1683.6	1708.0	1740.3	1762.9	1770.1	1776.2	1772.3	1776.2
155°	1531.9	1607.2	1673.6	1727.4	1748.9	1779.4	1801.0	1809.9	1817.1	1808.1	1817.1
157.5°	1588.9	1653.9	1711.6	1761.1	1784.1	1810.3	1830.4	1841.5	1848.7	1844.7	1848.7
160°	1623.4	1682.6	1734.6	1781.2	1802.7	1826.1	1847.6	1860.1	1867.3	1861.9	1867.3
162.5°	1652.1	1705.5	1754.7	1797.0	1815.7	1836.1	1861.9	1873.1	1880.2	1873.4	1880.2
165°	1693.3	1736.4	1779.4	1815.3	1831.4	1847.6	1874.5	1887.1	1892.4	1885.3	1892.4
167.5°	1724.5	1757.5	1792.3	1823.2	1835.0	1850.8	1877.7	1888.1	1894.9	1886.0	1894.9
170°	1741.8	1770.5	1801.0	1826.1	1835.0	1849.4	1876.3	1885.3	1890.6	1881.7	1890.6
172.5°	1756.1	1777.6	1802.4	1824.6	1829.3	1840.8	1866.2	1875.2	1879.2	1871.6	1879.2
175°	1770.5	1783.0	1801.0	1815.3	1813.5	1820.7	1842.2	1849.4	1856.6	1845.8	1856.6
177.5°	1777.3	1783.0	1788.8	1797.4	1791.6	1791.6	1807.4	1811.7	1813.2	1807.4	1813.2
180°	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8



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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0
2.5°	1499.7	1498.4	1496.9	1499.3	1505.7	1508.7	1501.6	1494.4	1501.6	1508.7	1505.7
5°	1494.7	1492.9	1491.9	1495.2	1502.7	1506.0	1496.6	1487.2	1496.6	1506.0	1502.7
7.5°	1484.0	1481.9	1480.8	1483.8	1491.0	1494.0	1484.6	1475.2	1484.6	1494.0	1491.0
10°	1474.4	1472.1	1470.2	1473.0	1480.5	1483.8	1474.4	1465.0	1474.4	1483.8	1480.5
12.5°	1461.8	1459.9	1458.8	1461.6	1468.4	1471.1	1461.7	1452.3	1461.7	1471.1	1468.4
15°	1439.5	1437.5	1436.1	1438.7	1445.3	1447.8	1438.4	1429.0	1438.4	1447.8	1445.3
17.5°	1411.5	1409.4	1407.8	1410.1	1416.2	1418.6	1409.7	1400.9	1409.7	1418.6	1416.2
20°	1388.6	1387.4	1387.0	1389.8	1395.9	1398.4	1389.9	1381.4	1389.9	1398.4	1395.9
22.5°	1362.6	1362.3	1363.4	1366.8	1372.5	1374.7	1366.2	1357.8	1366.2	1374.7	1372.5
25°	1323.0	1323.3	1324.7	1328.0	1333.1	1334.9	1326.4	1318.0	1326.4	1334.9	1333.1
27.5°	1281.1	1281.2	1282.2	1284.8	1289.1	1290.6	1283.6	1276.5	1283.6	1290.6	1289.1
30°	1249.8	1249.9	1250.9	1253.7	1258.4	1260.2	1253.1	1246.1	1253.1	1260.2	1258.4
32.5°	1216.9	1216.4	1216.6	1219.4	1224.8	1227.2	1220.6	1213.9	1220.6	1227.2	1224.8
35°	1166.2	1165.3	1164.8	1167.2	1172.4	1174.8	1169.2	1163.5	1169.2	1174.8	1172.4
37.5°	1112.2	1111.8	1111.9	1114.3	1119.1	1121.6	1117.3	1113.0	1117.3	1121.6	1119.1
40°	1074.2	1074.0	1074.5	1077.3	1082.4	1085.2	1080.5	1075.7	1080.5	1085.2	1082.4
42.5°	1036.7	1036.2	1035.9	1038.0	1042.4	1044.8	1041.2	1037.7	1041.2	1044.8	1042.4
45°	976.6	976.3	976.3	978.4	982.7	985.0	981.7	978.4	981.7	985.0	982.7
47.5°	913.9	913.9	914.5	916.4	919.7	921.5	919.0	916.4	919.0	921.5	919.7
50°	870.0	870.2	871.1	873.2	876.5	878.2	874.9	871.6	874.9	878.2	876.5
52.5°	825.9	826.5	827.8	830.1	833.4	834.9	831.3	827.6	831.3	834.9	833.4
55°	758.7	759.8	761.7	764.1	766.9	767.9	763.7	759.5	763.7	767.9	766.9
57.5°	688.9	690.3	692.6	694.9	697.4	698.2	694.0	689.9	694.0	698.2	697.4
60°	642.3	643.5	645.4	647.7	650.5	651.7	647.9	644.2	647.9	651.7	650.5
62.5°	594.9	596.1	598.0	600.5	603.7	605.2	601.4	597.6	601.4	605.2	603.7
65°	523.7	525.0	526.9	529.2	532.1	533.3	530.1	526.8	530.1	533.3	532.1
67.5°	449.5	451.4	454.1	456.8	459.6	460.9	458.1	455.3	458.1	460.9	459.6
70°	402.0	403.7	406.1	408.4	410.8	411.8	409.0	406.2	409.0	411.8	410.8
72.5°	353.7	355.2	357.2	359.5	362.3	363.7	361.2	358.8	361.2	363.7	362.3
75°	281.2	283.1	285.5	287.4	288.8	289.5	288.1	286.7	288.1	289.5	288.8
77.5°	208.9	210.4	212.1	213.9	215.7	217.1	217.1	217.1	217.1	217.1	215.7
80°	164.8	166.1	167.5	168.9	170.3	171.4	171.4	171.4	171.4	171.4	170.3
82.5°	119.6	120.9	123.1	124.9	126.3	127.5	128.3	129.0	128.3	127.5	126.3
85°	59.1	60.6	62.5	64.2	65.6	66.9	67.8	68.8	67.8	66.9	65.6
87.5°	21.0	21.8	23.3	24.3	24.4	24.0	22.9	22.2	22.9	23.6	25.1
90°	37.7	35.9	35.9	34.1	28.7	21.5	12.6	5.4	12.6	19.7	32.3
92.5°	44.8	44.5	41.6	38.4	31.6	31.6	31.2	19.7	34.1	48.4	69.6
95°	41.3	41.3	48.4	61.0	89.7	91.5	61.0	55.6	78.9	111.2	139.9
97.5°	111.6	132.7	162.9	168.6	159.6	119.1	114.1	106.2	144.6	176.5	222.8
100°	206.3	233.2	254.7	211.7	166.8	165.0	154.3	150.7	191.9	222.4	267.3
102.5°	322.5	330.8	256.2	231.8	221.4	213.8	197.3	195.2	236.4	278.4	316.1
105°	349.8	313.9	315.7	315.7	308.5	294.2	263.7	261.9	308.5	357.0	403.6
107.5°	411.5	416.9	426.2	424.0	415.8	377.4	341.5	333.3	375.3	433.4	484.7
110°	493.3	498.7	502.3	498.7	486.1	437.7	394.6	382.1	419.7	480.7	536.3



TEST NUMBER: P1427788

CATALOG NUMBER: SQ2W-F-K-125U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	572.2	576.2	584.1	573.3	552.1	496.5	447.7	429.4	467.1	529.5	586.6
115°	697.8	697.8	699.6	694.2	651.1	593.7	529.2	502.3	534.5	591.9	654.7
117.5°	821.2	823.3	816.2	801.8	752.0	685.2	612.8	569.7	595.2	655.8	720.4
120°	898.7	902.3	895.1	873.6	825.1	749.8	667.3	617.1	636.8	696.0	760.6
122.5°	979.0	978.3	969.7	945.3	888.3	810.1	729.0	667.3	675.5	730.4	793.6
125°	1090.6	1088.8	1081.6	1052.9	993.8	913.0	818.0	742.6	731.9	778.5	843.1
127.5°	1196.8	1192.9	1181.7	1146.9	1086.3	1008.5	904.1	818.7	794.6	824.1	883.3
130°	1270.0	1264.6	1244.9	1207.2	1148.0	1074.5	968.6	871.8	837.7	855.6	907.7
132.5°	1340.3	1324.9	1308.0	1267.5	1212.6	1136.2	1028.9	927.7	880.7	888.6	929.2
135°	1429.6	1415.3	1393.8	1354.3	1302.3	1226.9	1119.3	1009.9	945.3	938.1	961.5
137.5°	1508.2	1493.1	1468.7	1434.7	1382.3	1315.2	1211.9	1096.4	1014.9	990.9	999.9
140°	1557.0	1539.1	1517.5	1483.5	1436.8	1366.9	1266.4	1155.2	1063.7	1029.6	1024.2
142.5°	1597.2	1583.5	1560.6	1529.4	1488.5	1418.5	1320.9	1211.2	1113.9	1069.8	1057.3
145°	1657.5	1646.7	1621.6	1592.9	1558.8	1488.8	1399.1	1289.7	1192.9	1135.5	1108.6
147.5°	1708.4	1699.8	1680.1	1646.3	1617.6	1550.5	1468.7	1371.9	1272.5	1201.5	1166.7
150°	1740.0	1732.8	1713.1	1680.8	1652.1	1589.3	1510.4	1420.7	1325.6	1250.3	1205.4
152.5°	1770.1	1762.9	1740.3	1708.0	1683.6	1625.2	1553.4	1468.0	1371.5	1296.2	1249.9
155°	1809.9	1801.0	1779.4	1748.9	1727.4	1673.6	1607.2	1531.9	1449.4	1370.4	1318.4
157.5°	1841.5	1830.4	1810.3	1784.1	1761.1	1711.6	1653.9	1588.9	1516.8	1441.5	1388.4
160°	1860.1	1847.6	1826.1	1802.7	1781.2	1734.6	1682.6	1623.4	1557.0	1488.8	1431.4
162.5°	1873.1	1861.9	1836.1	1815.7	1797.0	1754.7	1705.5	1652.1	1592.9	1533.3	1480.2
165°	1887.1	1874.5	1847.6	1831.4	1815.3	1779.4	1736.4	1693.3	1643.1	1594.7	1551.6
167.5°	1888.1	1877.7	1850.8	1835.0	1823.2	1792.3	1757.5	1724.5	1685.4	1647.4	1611.5
170°	1885.3	1876.3	1849.4	1835.0	1826.1	1801.0	1770.5	1741.8	1711.3	1679.0	1650.3
172.5°	1875.2	1866.2	1840.8	1829.3	1824.6	1802.4	1777.6	1756.1	1729.9	1706.2	1683.3
175°	1849.4	1842.2	1820.7	1813.5	1815.3	1801.0	1783.0	1770.5	1754.3	1740.0	1727.4
177.5°	1811.7	1807.4	1791.6	1791.6	1797.4	1788.8	1783.0	1777.3	1770.1	1765.8	1761.5
180°	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8



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CATALOG NUMBER: SQ2W-F-K-125U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0	1502.0
2.5°	1499.3	1496.9	1498.4	1499.7	1500.4	1501.2	1500.4	1499.7	1498.4	1496.9	1499.3
5°	1495.2	1491.9	1492.9	1494.7	1499.4	1504.1	1499.4	1494.7	1492.9	1491.9	1495.2
7.5°	1483.8	1480.8	1481.9	1484.0	1488.9	1493.8	1488.9	1484.0	1481.9	1480.8	1483.8
10°	1473.0	1470.2	1472.1	1474.4	1478.2	1481.9	1478.2	1474.4	1472.1	1470.2	1473.0
12.5°	1461.6	1458.8	1459.9	1461.8	1465.9	1470.1	1465.9	1461.8	1459.9	1458.8	1461.6
15°	1438.7	1436.1	1437.5	1439.5	1443.3	1447.0	1443.3	1439.5	1437.5	1436.1	1438.7
17.5°	1410.1	1407.8	1409.4	1411.5	1414.8	1418.0	1414.8	1411.5	1409.4	1407.8	1410.1
20°	1389.8	1387.0	1387.4	1388.6	1391.9	1395.2	1391.9	1388.6	1387.4	1387.0	1389.8
22.5°	1366.8	1363.4	1362.3	1362.6	1366.6	1370.7	1366.6	1362.6	1362.3	1363.4	1366.8
25°	1328.0	1324.7	1323.3	1323.0	1326.3	1329.6	1326.3	1323.0	1323.3	1324.7	1328.0
27.5°	1284.8	1282.2	1281.2	1281.1	1283.5	1285.8	1283.5	1281.1	1281.2	1282.2	1284.8
30°	1253.7	1250.9	1249.9	1249.8	1252.2	1254.5	1252.2	1249.8	1249.9	1250.9	1253.7
32.5°	1219.4	1216.6	1216.4	1216.9	1219.6	1222.4	1219.6	1216.9	1216.4	1216.6	1219.4
35°	1167.2	1164.8	1165.3	1166.2	1168.6	1170.9	1168.6	1166.2	1165.3	1164.8	1167.2
37.5°	1114.3	1111.9	1111.8	1112.2	1114.2	1116.2	1114.2	1112.2	1111.8	1111.9	1114.3
40°	1077.3	1074.5	1074.0	1074.2	1076.6	1078.9	1076.6	1074.2	1074.0	1074.5	1077.3
42.5°	1038.0	1035.9	1036.2	1036.7	1037.9	1039.2	1037.9	1036.7	1036.2	1035.9	1038.0
45°	978.4	976.3	976.3	976.6	977.5	978.4	977.5	976.6	976.3	976.3	978.4
47.5°	916.4	914.5	913.9	913.9	915.4	916.9	915.4	913.9	913.9	914.5	916.4
50°	873.2	871.1	870.2	870.0	871.8	873.7	871.8	870.0	870.2	871.1	873.2
52.5°	830.1	827.8	826.5	825.9	827.4	828.9	827.4	825.9	826.5	827.8	830.1
55°	764.1	761.7	759.8	758.7	759.6	760.5	759.6	758.7	759.8	761.7	764.1
57.5°	694.9	692.6	690.3	688.9	690.3	691.6	690.3	688.9	690.3	692.6	694.9
60°	647.7	645.4	643.5	642.3	643.2	644.2	643.2	642.3	643.5	645.4	647.7
62.5°	600.5	598.0	596.1	594.9	595.9	596.8	595.9	594.9	596.1	598.0	600.5
65°	529.2	526.9	525.0	523.7	524.2	524.7	524.2	523.7	525.0	526.9	529.2
67.5°	456.8	454.1	451.4	449.5	450.3	451.0	450.3	449.5	451.4	454.1	456.8
70°	408.4	406.1	403.7	402.0	402.0	402.0	402.0	402.0	403.7	406.1	408.4
72.5°	359.5	357.2	355.2	353.7	353.7	353.7	353.7	353.7	355.2	357.2	359.5
75°	287.4	285.5	283.1	281.2	280.8	280.3	280.8	281.2	283.1	285.5	287.4
77.5°	213.9	212.1	210.4	208.9	208.3	207.7	208.3	208.9	210.4	212.1	213.9
80°	168.9	167.5	166.1	164.8	163.8	162.9	163.8	164.8	166.1	167.5	168.9
82.5°	124.9	123.1	120.9	119.6	120.5	121.4	120.5	119.6	120.9	123.1	124.9
85°	64.2	62.5	60.6	59.1	58.6	58.2	58.6	59.1	60.6	62.5	64.2
87.5°	25.7	26.9	27.9	28.2	29.2	28.1	29.2	28.2	27.9	26.9	25.7
90°	41.3	53.8	66.4	73.5	80.7	77.1	80.7	73.5	66.4	53.8	41.3
92.5°	82.9	104.0	119.5	132.4	138.1	137.4	138.1	132.4	119.5	104.0	82.9
95°	166.8	191.9	217.0	235.0	245.7	242.2	245.7	235.0	217.0	191.9	166.8
97.5°	257.2	291.0	318.9	335.8	346.6	353.7	346.6	335.8	318.9	291.0	257.2
100°	317.5	349.8	382.1	401.8	419.7	426.9	419.7	401.8	382.1	349.8	317.5
102.5°	366.3	408.6	443.8	464.9	480.0	487.2	480.0	464.9	443.8	408.6	366.3
105°	446.7	491.5	529.2	556.1	572.2	577.6	572.2	556.1	529.2	491.5	446.7
107.5°	527.0	573.3	608.1	637.9	657.6	669.1	657.6	637.9	608.1	573.3	527.0
110°	590.2	627.8	665.5	692.4	712.1	719.3	712.1	692.4	665.5	627.8	590.2



TEST NUMBER: P1427788

CATALOG NUMBER: SQ2W-F-K-125U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	643.2	685.2	722.9	749.8	772.4	782.4	772.4	749.8	722.9	685.2	643.2
115°	717.5	773.1	807.2	832.3	848.5	857.4	848.5	832.3	807.2	773.1	717.5
117.5°	779.2	837.3	874.6	894.0	901.6	908.0	901.6	894.0	874.6	837.3	779.2
120°	818.0	871.8	914.8	939.9	948.9	952.5	948.9	939.9	914.8	871.8	818.0
122.5°	853.8	904.8	946.4	977.3	992.0	995.5	992.0	977.3	946.4	904.8	853.8
125°	904.1	952.5	995.5	1026.0	1042.2	1051.2	1042.2	1026.0	995.5	952.5	904.1
127.5°	947.8	1000.2	1039.7	1067.3	1083.1	1090.3	1083.1	1067.3	1039.7	1000.2	947.8
130°	972.2	1026.0	1065.5	1096.0	1110.3	1117.5	1110.3	1096.0	1065.5	1026.0	972.2
132.5°	990.9	1047.6	1088.5	1116.1	1131.9	1139.0	1131.9	1116.1	1088.5	1047.6	990.9
135°	1013.5	1072.7	1115.7	1142.6	1157.0	1164.2	1157.0	1142.6	1115.7	1072.7	1013.5
137.5°	1033.2	1087.0	1131.9	1160.2	1173.1	1177.8	1173.1	1160.2	1131.9	1087.0	1033.2
140°	1047.6	1094.2	1139.0	1166.0	1180.3	1182.1	1180.3	1166.0	1139.0	1094.2	1047.6
142.5°	1066.2	1102.8	1141.9	1168.8	1183.2	1186.4	1183.2	1168.8	1141.9	1102.8	1066.2
145°	1099.6	1121.1	1148.0	1173.1	1185.7	1189.3	1185.7	1173.1	1148.0	1121.1	1099.6
147.5°	1141.6	1148.4	1162.4	1178.9	1191.1	1193.6	1191.1	1178.9	1162.4	1148.4	1141.6
150°	1173.1	1171.3	1176.7	1187.5	1198.2	1196.5	1198.2	1187.5	1176.7	1171.3	1173.1
152.5°	1209.0	1198.6	1198.2	1203.3	1208.3	1207.9	1208.3	1203.3	1198.2	1198.6	1209.0
155°	1270.0	1250.3	1239.5	1235.9	1235.9	1234.1	1235.9	1235.9	1239.5	1250.3	1270.0
157.5°	1337.1	1309.5	1293.3	1284.7	1282.2	1278.2	1282.2	1284.7	1293.3	1309.5	1337.1
160°	1383.0	1352.5	1336.4	1322.0	1316.6	1311.3	1316.6	1322.0	1336.4	1352.5	1383.0
162.5°	1426.1	1397.0	1379.4	1366.5	1361.1	1352.9	1361.1	1366.5	1379.4	1397.0	1426.1
165°	1496.0	1465.5	1445.8	1435.0	1427.8	1420.7	1427.8	1435.0	1445.8	1465.5	1496.0
167.5°	1566.0	1532.6	1519.7	1507.5	1500.7	1487.8	1500.7	1507.5	1519.7	1532.6	1566.0
170°	1609.0	1578.5	1571.4	1560.6	1548.0	1533.7	1548.0	1560.6	1571.4	1578.5	1609.0
172.5°	1646.3	1625.9	1618.7	1607.9	1604.0	1592.5	1604.0	1607.9	1618.7	1625.9	1646.3
175°	1700.5	1684.4	1684.4	1682.6	1677.2	1666.4	1677.2	1682.6	1684.4	1684.4	1700.5
177.5°	1745.7	1737.1	1742.8	1742.8	1741.4	1731.4	1741.4	1742.8	1742.8	1737.1	1745.7
180°	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8	1775.8



TEST NUMBER: P1427788

CATALOG NUMBER: SQ2W-F-K-125U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
0°	1502.0	1502.0	1502.0	1502.0
2.5°	1505.7	1508.7	1501.6	1494.4
5°	1502.7	1506.0	1496.6	1487.2
7.5°	1491.0	1494.0	1484.6	1475.2
10°	1480.5	1483.8	1474.4	1465.0
12.5°	1468.4	1471.1	1461.7	1452.3
15°	1445.3	1447.8	1438.4	1429.0
17.5°	1416.2	1418.6	1409.7	1400.9
20°	1395.9	1398.4	1389.9	1381.4
22.5°	1372.5	1374.7	1366.2	1357.8
25°	1333.1	1334.9	1326.4	1318.0
27.5°	1289.1	1290.6	1283.6	1276.5
30°	1258.4	1260.2	1253.1	1246.1
32.5°	1224.8	1227.2	1220.6	1213.9
35°	1172.4	1174.8	1169.2	1163.5
37.5°	1119.1	1121.6	1117.3	1113.0
40°	1082.4	1085.2	1080.5	1075.7
42.5°	1042.4	1044.8	1041.2	1037.7
45°	982.7	985.0	981.7	978.4
47.5°	919.7	921.5	919.0	916.4
50°	876.5	878.2	874.9	871.6
52.5°	833.4	834.9	831.3	827.6
55°	766.9	767.9	763.7	759.5
57.5°	697.4	698.2	694.0	689.9
60°	650.5	651.7	647.9	644.2
62.5°	603.7	605.2	601.4	597.6
65°	532.1	533.3	530.1	526.8
67.5°	459.6	460.9	458.1	455.3
70°	410.8	411.8	409.0	406.2
72.5°	362.3	363.7	361.2	358.8
75°	288.8	289.5	288.1	286.7
77.5°	215.7	217.1	217.1	217.1
80°	170.3	171.4	171.4	171.4
82.5°	126.3	127.5	128.3	129.0
85°	65.6	66.9	67.8	68.8
87.5°	25.1	23.6	22.9	22.2
90°	32.3	19.7	12.6	5.4
92.5°	69.6	48.4	34.1	19.7
95°	139.9	111.2	78.9	55.6
97.5°	222.8	176.5	144.6	106.2
100°	267.3	222.4	191.9	150.7
102.5°	316.1	278.4	236.4	195.2
105°	403.6	357.0	308.5	261.9
107.5°	484.7	433.4	375.3	333.3
110°	536.3	480.7	419.7	382.1



TEST NUMBER: P1427788

CATALOG NUMBER: SQ2W-F-K-125U-100D-L940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	330°	340°	350°	360°
112.5°	586.6	529.5	467.1	429.4
115°	654.7	591.9	534.5	502.3
117.5°	720.4	655.8	595.2	569.7
120°	760.6	696.0	636.8	617.1
122.5°	793.6	730.4	675.5	667.3
125°	843.1	778.5	731.9	742.6
127.5°	883.3	824.1	794.6	818.7
130°	907.7	855.6	837.7	871.8
132.5°	929.2	888.6	880.7	927.7
135°	961.5	938.1	945.3	1009.9
137.5°	999.9	990.9	1014.9	1096.4
140°	1024.2	1029.6	1063.7	1155.2
142.5°	1057.3	1069.8	1113.9	1211.2
145°	1108.6	1135.5	1192.9	1289.7
147.5°	1166.7	1201.5	1272.5	1371.9
150°	1205.4	1250.3	1325.6	1420.7
152.5°	1249.9	1296.2	1371.5	1468.0
155°	1318.4	1370.4	1449.4	1531.9
157.5°	1388.4	1441.5	1516.8	1588.9
160°	1431.4	1488.8	1557.0	1623.4
162.5°	1480.2	1533.3	1592.9	1652.1
165°	1551.6	1594.7	1643.1	1693.3
167.5°	1611.5	1647.4	1685.4	1724.5
170°	1650.3	1679.0	1711.3	1741.8
172.5°	1683.3	1706.2	1729.9	1756.1
175°	1727.4	1740.0	1754.3	1770.5
177.5°	1761.5	1765.8	1770.1	1777.3
180°	1775.8	1775.8	1775.8	1775.8



TEST NUMBER: P1427788  
 CATALOG NUMBER: SQ2W-F-K-125U-100D-L940-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	18.46	19.28	19.45	20.29	21.63	18.37	19.20	19.37	20.21	21.55
	3H	20.24	20.99	21.25	22.00	23.37	20.14	20.88	21.15	21.90	23.26
	4H	20.94	21.64	21.96	22.66	24.03	20.82	21.53	21.84	22.55	23.92
	6H	21.37	22.02	22.40	23.05	24.43	21.23	21.88	22.26	22.91	24.29
	8H	21.53	22.15	22.57	23.19	24.57	21.38	21.99	22.41	23.04	24.41
	12H	21.61	22.20	22.66	23.24	24.64	21.44	22.03	22.48	23.06	24.46
4H	2H	19.03	19.74	20.06	20.76	22.13	18.96	19.67	19.99	20.69	22.06
	3H	21.05	21.64	22.08	22.69	24.07	20.96	21.54	21.99	22.59	23.98
	4H	21.86	22.40	22.90	23.44	24.85	21.75	22.29	22.79	23.33	24.74
	6H	22.41	22.88	23.47	23.94	25.34	22.27	22.74	23.32	23.80	25.20
	8H	22.63	23.06	23.68	24.12	25.53	22.47	22.90	23.52	23.96	25.37
	12H	22.74	23.13	23.81	24.20	25.62	22.55	22.94	23.62	24.02	25.44
8H	4H	22.10	22.54	23.16	23.60	25.01	22.01	22.44	23.06	23.50	24.91
	6H	22.79	23.15	23.87	24.25	25.66	22.66	23.02	23.74	24.12	25.53
	8H	23.10	23.41	24.18	24.49	25.93	22.94	23.26	24.02	24.34	25.77
	12H	23.28	23.55	24.37	24.63	26.11	23.09	23.36	24.17	24.44	25.91
12H	4H	22.10	22.49	23.17	23.56	24.98	22.00	22.40	23.07	23.47	24.89
	6H	22.84	23.16	23.93	24.24	25.67	22.72	23.03	23.80	24.11	25.55
	8H	23.17	23.45	24.26	24.53	26.00	23.02	23.30	24.11	24.38	25.85