

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: P1427950

Luminaire Tested: SQ2W-PH1-K-125U-075D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1427950
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2308-131-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/10/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2W-PH1-K-125U-075D-L940-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - PERCEIVE HEX LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

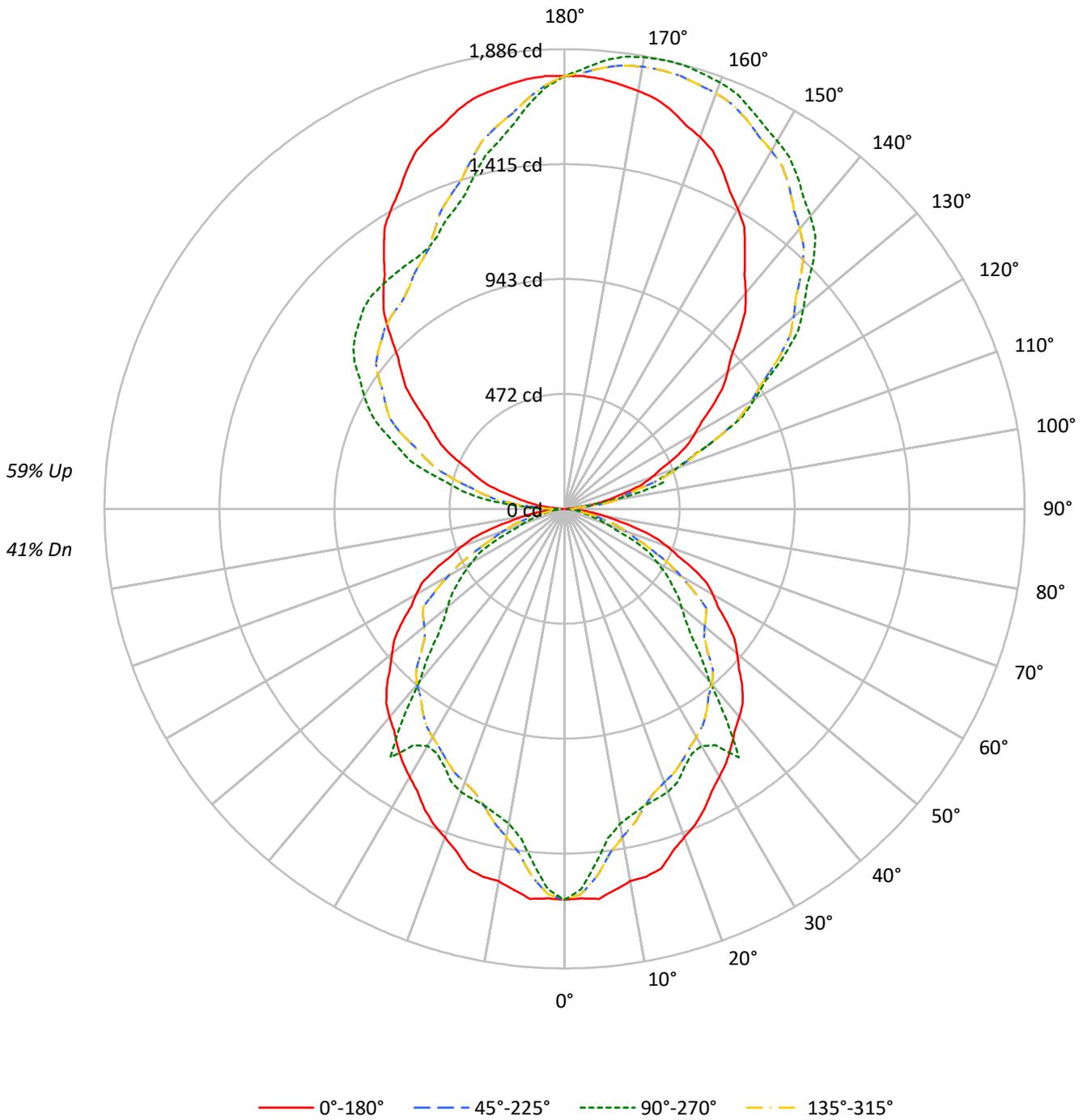
Lumens per Lamp: N/A
Luminaire Lumens: 8738.5 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 70.7
Input Voltage (V): 120
Input Current (A_{in}): 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: P1427950

CATALOG NUMBER: SQ2W-PH1-K-125U-075D-L940-UNV-STD-W-WM-4

Luminous Intensity Polar Plot





TEST NUMBER: P1427950

CATALOG NUMBER: SQ2W-PH1-K-125U-075D-L940-UNV-STD-W-WM-4

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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41				
1	96	92	88	84	87	84	80	78	69	66	64	55	53	52	42	41	40	35				
2	87	80	74	69	79	73	68	64	60	57	54	48	46	44	37	36	34	29				
3	80	71	63	58	72	65	58	53	53	49	45	43	40	37	33	31	29	25				
4	73	62	55	49	66	57	50	45	47	42	38	38	35	32	30	27	25	21				
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	27	24	22	19				
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16				
7	57	45	37	32	52	41	34	29	34	29	25	28	24	21	22	19	17	14				
8	53	41	33	28	48	37	31	26	31	26	22	26	22	19	20	17	15	13				
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12				
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	25893	25893	25893	25893
5°	26042	23667	26042	23667
10°	25443	21515	25443	21515
15°	25557	21093	25557	21093
20°	24645	21262	24645	21262
25°	24194	20768	24194	20768
30°	23670	20938	23670	20938
35°	23488	24541	23488	24541
40°	23509	19458	23509	19458
45°	23518	16760	23518	16760
50°	23189	15714	23189	15714
55°	22894	15077	22894	15077
60°	22665	14140	22665	14140
65°	22269	12302	22269	12302
70°	21035	8790	21035	8790
75°	18752	6662	18752	6662
80°	15323	6239	15323	6239
85°	9614	4242	9614	4242

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23518 cd/sqm



TEST NUMBER: P1427950

CATALOG NUMBER: SQ2W-PH1-K-125U-075D-L940-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	1.6
10°-20°	371.2	4.2
20°-30°	544.2	6.2
30°-40°	659.0	7.5
40°-50°	648.0	7.4
50°-60°	563.7	6.5
60°-70°	392.0	4.5
70°-80°	185.9	2.1
80°-90°	48.3	0.6
90°-100°	141.3	1.6
100°-110°	412.2	4.7
110°-120°	672.6	7.7
120°-130°	853.5	9.8
130°-140°	913.3	10.5
140°-150°	852.8	9.8
150°-160°	701.7	8.0
160°-170°	470.6	5.4
170°-180°	167.1	1.9
0°-30°	1056.5	12.1
0°-40°	1715.5	19.6
0°-60°	2927.1	33.5
0°-90°	3553.4	40.7
90°-120°	1226.1	14.0
90°-150°	3845.7	44.0
90°-180°	5185.0	59.3
0°-180°	8738.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1604	1604	1604	1604	1604	
5°	1607	1460	1607	1460	1607	151
15°	1529	1262	1529	1262	1529	426
25°	1358	1166	1358	1166	1358	625
35°	1192	1245	1192	1245	1192	746
45°	1030	734	1030	734	1030	792
55°	813	536	813	536	813	727
65°	583	322	583	322	583	573
75°	301	107	301	107	301	319
85°	52	23	52	23	52	70
90°	5	40	5	77	5	6
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	



TEST NUMBER: P1427950

CATALOG NUMBER: SQ2W-PH1-K-125U-075D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7
2.5°	1600.1	1607.7	1615.3	1604.5	1587.7	1576.1	1569.6	1564.4	1563.3	1562.2	1563.3
5°	1606.8	1606.1	1605.4	1573.7	1531.7	1500.1	1479.1	1463.0	1461.7	1460.3	1461.7
7.5°	1577.5	1556.5	1535.4	1492.9	1443.1	1406.6	1383.4	1365.7	1364.6	1363.6	1364.6
10°	1551.9	1520.0	1488.1	1440.0	1386.4	1349.1	1328.1	1312.3	1312.3	1312.3	1312.3
12.5°	1545.7	1495.4	1445.1	1392.3	1338.8	1304.2	1288.6	1277.7	1281.0	1284.2	1281.0
15°	1529.0	1453.0	1377.1	1323.5	1277.4	1252.3	1248.2	1247.0	1254.5	1261.9	1254.5
17.5°	1473.4	1391.6	1309.8	1262.7	1227.2	1213.8	1222.5	1231.1	1239.8	1248.5	1239.8
20°	1434.4	1353.7	1273.0	1229.4	1198.2	1190.7	1207.0	1221.2	1229.4	1237.5	1229.4
22.5°	1401.4	1319.6	1237.8	1199.3	1175.1	1172.0	1189.9	1204.4	1208.8	1213.1	1208.8
25°	1358.1	1265.8	1173.6	1145.5	1138.7	1143.1	1158.7	1169.9	1167.8	1165.8	1167.8
27.5°	1306.2	1209.9	1113.6	1095.5	1103.5	1112.3	1121.7	1129.2	1130.4	1131.6	1130.4
30°	1269.6	1173.3	1077.0	1062.5	1075.4	1086.6	1096.1	1105.4	1114.3	1123.1	1114.3
32.5°	1234.2	1134.6	1035.0	1024.7	1044.1	1065.1	1087.6	1109.5	1129.7	1149.9	1129.7
35°	1191.7	1088.0	984.2	976.1	999.8	1030.3	1067.6	1112.2	1178.7	1245.1	1178.7
37.5°	1147.2	1036.0	924.7	921.0	953.2	985.3	1017.5	1046.9	1068.0	1089.2	1068.0
40°	1115.4	998.8	882.1	882.0	920.6	960.6	1002.0	1020.8	972.0	923.2	972.0
42.5°	1081.3	964.6	848.0	844.5	878.9	922.9	976.8	996.6	914.1	831.6	914.1
45°	1030.0	908.6	787.2	782.8	817.4	841.8	856.0	852.0	793.0	734.0	793.0
47.5°	969.6	853.9	738.2	737.2	774.5	777.2	745.4	715.7	692.6	669.6	692.6
50°	923.2	814.0	704.8	709.5	752.3	748.2	697.3	655.5	640.5	625.6	640.5
52.5°	878.0	774.2	670.5	683.1	734.5	726.4	658.7	605.4	595.4	585.3	595.4
55°	813.3	713.6	613.9	642.4	713.6	702.8	609.9	539.7	537.6	535.6	537.6
57.5°	744.6	650.4	556.1	575.9	633.7	622.3	541.7	482.2	485.7	489.2	485.7
60°	701.9	610.4	518.8	521.4	555.3	544.4	488.8	446.1	442.0	437.9	442.0
62.5°	656.8	569.5	482.3	469.7	481.9	469.1	431.4	402.1	398.1	394.0	398.1
65°	582.9	503.6	424.2	400.3	394.9	376.6	345.4	322.0	322.0	322.0	322.0
67.5°	501.7	432.5	363.4	336.6	324.0	305.8	282.1	260.2	243.9	227.7	243.9
70°	445.6	384.5	323.5	295.5	278.6	256.9	230.4	207.9	197.0	186.2	197.0
72.5°	385.8	333.4	281.0	252.4	231.6	210.5	188.9	169.6	157.1	144.7	157.1
75°	300.6	258.6	216.5	188.7	165.6	144.3	124.6	109.5	108.2	106.8	108.2
77.5°	217.3	186.6	156.0	133.5	113.7	98.8	88.9	81.5	81.7	81.8	81.7
80°	164.8	141.7	118.7	97.7	77.3	66.8	66.1	65.8	66.5	67.1	66.5
82.5°	116.0	98.9	81.8	68.4	56.2	50.5	51.5	52.2	52.4	52.5	52.4
85°	51.9	43.7	35.6	32.6	31.2	29.2	26.4	24.2	23.6	22.9	23.6
87.5°	12.1	13.0	14.2	14.3	13.7	13.3	13.3	13.6	14.0	14.0	14.0
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

TEST NUMBER: P1427950

CATALOG NUMBER: SQ2W-PH1-K-125U-075D-L940-UNV-STD-W-WM-4

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



TEST NUMBER: P1427950

CATALOG NUMBER: SQ2W-PH1-K-125U-075D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7
2.5°	1564.4	1569.6	1576.1	1587.7	1604.5	1615.3	1607.7	1600.1	1607.7	1615.3	1604.5
5°	1463.0	1479.1	1500.1	1531.7	1573.7	1605.4	1606.1	1606.8	1606.1	1605.4	1573.7
7.5°	1365.7	1383.4	1406.6	1443.1	1492.9	1535.4	1556.5	1577.5	1556.5	1535.4	1492.9
10°	1312.3	1328.1	1349.1	1386.4	1440.0	1488.1	1520.0	1551.9	1520.0	1488.1	1440.0
12.5°	1277.7	1288.6	1304.2	1338.8	1392.3	1445.1	1495.4	1545.7	1495.4	1445.1	1392.3
15°	1247.0	1248.2	1252.3	1277.4	1323.5	1377.1	1453.0	1529.0	1453.0	1377.1	1323.5
17.5°	1231.1	1222.5	1213.8	1227.2	1262.7	1309.8	1391.6	1473.4	1391.6	1309.8	1262.7
20°	1221.2	1207.0	1190.7	1198.2	1229.4	1273.0	1353.7	1434.4	1353.7	1273.0	1229.4
22.5°	1204.4	1189.9	1172.0	1175.1	1199.3	1237.8	1319.6	1401.4	1319.6	1237.8	1199.3
25°	1169.9	1158.7	1143.1	1138.7	1145.5	1173.6	1265.8	1358.1	1265.8	1173.6	1145.5
27.5°	1129.2	1121.7	1112.3	1103.5	1095.5	1113.6	1209.9	1306.2	1209.9	1113.6	1095.5
30°	1105.4	1096.1	1086.6	1075.4	1062.5	1077.0	1173.3	1269.6	1173.3	1077.0	1062.5
32.5°	1109.5	1087.6	1065.1	1044.1	1024.7	1035.0	1134.6	1234.2	1134.6	1035.0	1024.7
35°	1112.2	1067.6	1030.3	999.8	976.1	984.2	1088.0	1191.7	1088.0	984.2	976.1
37.5°	1046.9	1017.5	985.3	953.2	921.0	924.7	1036.0	1147.2	1036.0	924.7	921.0
40°	1020.8	1002.0	960.6	920.6	882.0	882.1	998.8	1115.4	998.8	882.1	882.0
42.5°	996.6	976.8	922.9	878.9	844.5	848.0	964.6	1081.3	964.6	848.0	844.5
45°	852.0	856.0	841.8	817.4	782.8	787.2	908.6	1030.0	908.6	787.2	782.8
47.5°	715.7	745.4	777.2	774.5	737.2	738.2	853.9	969.6	853.9	738.2	737.2
50°	655.5	697.3	748.2	752.3	709.5	704.8	814.0	923.2	814.0	704.8	709.5
52.5°	605.4	658.7	726.4	734.5	683.1	670.5	774.2	878.0	774.2	670.5	683.1
55°	539.7	609.9	702.8	713.6	642.4	613.9	713.6	813.3	713.6	613.9	642.4
57.5°	482.2	541.7	622.3	633.7	575.9	556.1	650.4	744.6	650.4	556.1	575.9
60°	446.1	488.8	544.4	555.3	521.4	518.8	610.4	701.9	610.4	518.8	521.4
62.5°	402.1	431.4	469.1	481.9	469.7	482.3	569.5	656.8	569.5	482.3	469.7
65°	322.0	345.4	376.6	394.9	400.3	424.2	503.6	582.9	503.6	424.2	400.3
67.5°	260.2	282.1	305.8	324.0	336.6	363.4	432.5	501.7	432.5	363.4	336.6
70°	207.9	230.4	256.9	278.6	295.5	323.5	384.5	445.6	384.5	323.5	295.5
72.5°	169.6	188.9	210.5	231.6	252.4	281.0	333.4	385.8	333.4	281.0	252.4
75°	109.5	124.6	144.3	165.6	188.7	216.5	258.6	300.6	258.6	216.5	188.7
77.5°	81.5	88.9	98.8	113.7	133.5	156.0	186.6	217.3	186.6	156.0	133.5
80°	65.8	66.1	66.8	77.3	97.7	118.7	141.7	164.8	141.7	118.7	97.7
82.5°	52.2	51.5	50.5	56.2	68.4	81.8	98.9	116.0	98.9	81.8	68.4
85°	24.2	26.4	29.2	31.2	32.6	35.6	43.7	51.9	43.7	35.6	32.6
87.5°	13.6	13.3	13.3	13.7	14.3	14.2	13.0	12.1	13.0	13.8	15.0
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: P1427950

CATALOG NUMBER: SQ2W-PH1-K-125U-075D-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



TEST NUMBER: P1427950

CATALOG NUMBER: SQ2W-PH1-K-125U-075D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7	1603.7
2.5°	1587.7	1576.1	1569.6	1564.4	1563.3	1562.2	1563.3	1564.4	1569.6	1576.1	1587.7
5°	1531.7	1500.1	1479.1	1463.0	1461.7	1460.3	1461.7	1463.0	1479.1	1500.1	1531.7
7.5°	1443.1	1406.6	1383.4	1365.7	1364.6	1363.6	1364.6	1365.7	1383.4	1406.6	1443.1
10°	1386.4	1349.1	1328.1	1312.3	1312.3	1312.3	1312.3	1312.3	1328.1	1349.1	1386.4
12.5°	1338.8	1304.2	1288.6	1277.7	1281.0	1284.2	1281.0	1277.7	1288.6	1304.2	1338.8
15°	1277.4	1252.3	1248.2	1247.0	1254.5	1261.9	1254.5	1247.0	1248.2	1252.3	1277.4
17.5°	1227.2	1213.8	1222.5	1231.1	1239.8	1248.5	1239.8	1231.1	1222.5	1213.8	1227.2
20°	1198.2	1190.7	1207.0	1221.2	1229.4	1237.5	1229.4	1221.2	1207.0	1190.7	1198.2
22.5°	1175.1	1172.0	1189.9	1204.4	1208.8	1213.1	1208.8	1204.4	1189.9	1172.0	1175.1
25°	1138.7	1143.1	1158.7	1169.9	1167.8	1165.8	1167.8	1169.9	1158.7	1143.1	1138.7
27.5°	1103.5	1112.3	1121.7	1129.2	1130.4	1131.6	1130.4	1129.2	1121.7	1112.3	1103.5
30°	1075.4	1086.6	1096.1	1105.4	1114.3	1123.1	1114.3	1105.4	1096.1	1086.6	1075.4
32.5°	1044.1	1065.1	1087.6	1109.5	1129.7	1149.9	1129.7	1109.5	1087.6	1065.1	1044.1
35°	999.8	1030.3	1067.6	1112.2	1178.7	1245.1	1178.7	1112.2	1067.6	1030.3	999.8
37.5°	953.2	985.3	1017.5	1046.9	1068.0	1089.2	1068.0	1046.9	1017.5	985.3	953.2
40°	920.6	960.6	1002.0	1020.8	972.0	923.2	972.0	1020.8	1002.0	960.6	920.6
42.5°	878.9	922.9	976.8	996.6	914.1	831.6	914.1	996.6	976.8	922.9	878.9
45°	817.4	841.8	856.0	852.0	793.0	734.0	793.0	852.0	856.0	841.8	817.4
47.5°	774.5	777.2	745.4	715.7	692.6	669.6	692.6	715.7	745.4	777.2	774.5
50°	752.3	748.2	697.3	655.5	640.5	625.6	640.5	655.5	697.3	748.2	752.3
52.5°	734.5	726.4	658.7	605.4	595.4	585.3	595.4	605.4	658.7	726.4	734.5
55°	713.6	702.8	609.9	539.7	537.6	535.6	537.6	539.7	609.9	702.8	713.6
57.5°	633.7	622.3	541.7	482.2	485.7	489.2	485.7	482.2	541.7	622.3	633.7
60°	555.3	544.4	488.8	446.1	442.0	437.9	442.0	446.1	488.8	544.4	555.3
62.5°	481.9	469.1	431.4	402.1	398.1	394.0	398.1	402.1	431.4	469.1	481.9
65°	394.9	376.6	345.4	322.0	322.0	322.0	322.0	322.0	345.4	376.6	394.9
67.5°	324.0	305.8	282.1	260.2	243.9	227.7	243.9	260.2	282.1	305.8	324.0
70°	278.6	256.9	230.4	207.9	197.0	186.2	197.0	207.9	230.4	256.9	278.6
72.5°	231.6	210.5	188.9	169.6	157.1	144.7	157.1	169.6	188.9	210.5	231.6
75°	165.6	144.3	124.6	109.5	108.2	106.8	108.2	109.5	124.6	144.3	165.6
77.5°	113.7	98.8	88.9	81.5	81.7	81.8	81.7	81.5	88.9	98.8	113.7
80°	77.3	66.8	66.1	65.8	66.5	67.1	66.5	65.8	66.1	66.8	77.3
82.5°	56.2	50.5	51.5	52.2	52.4	52.5	52.4	52.2	51.5	50.5	56.2
85°	31.2	29.2	26.4	24.2	23.6	22.9	23.6	24.2	26.4	29.2	31.2
87.5°	15.2	16.9	19.4	20.8	22.2	21.5	22.2	20.8	19.4	16.9	15.2
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	608.1	573.3	527.0	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: P1427950

CATALOG NUMBER: SQ2W-PH1-K-125U-075D-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: P1427950

CATALOG NUMBER: SQ2W-PH1-K-125U-075D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1603.7	1603.7	1603.7	1603.7
2.5°	1604.5	1615.3	1607.7	1600.1
5°	1573.7	1605.4	1606.1	1606.8
7.5°	1492.9	1535.4	1556.5	1577.5
10°	1440.0	1488.1	1520.0	1551.9
12.5°	1392.3	1445.1	1495.4	1545.7
15°	1323.5	1377.1	1453.0	1529.0
17.5°	1262.7	1309.8	1391.6	1473.4
20°	1229.4	1273.0	1353.7	1434.4
22.5°	1199.3	1237.8	1319.6	1401.4
25°	1145.5	1173.6	1265.8	1358.1
27.5°	1095.5	1113.6	1209.9	1306.2
30°	1062.5	1077.0	1173.3	1269.6
32.5°	1024.7	1035.0	1134.6	1234.2
35°	976.1	984.2	1088.0	1191.7
37.5°	921.0	924.7	1036.0	1147.2
40°	882.0	882.1	998.8	1115.4
42.5°	844.5	848.0	964.6	1081.3
45°	782.8	787.2	908.6	1030.0
47.5°	737.2	738.2	853.9	969.6
50°	709.5	704.8	814.0	923.2
52.5°	683.1	670.5	774.2	878.0
55°	642.4	613.9	713.6	813.3
57.5°	575.9	556.1	650.4	744.6
60°	521.4	518.8	610.4	701.9
62.5°	469.7	482.3	569.5	656.8
65°	400.3	424.2	503.6	582.9
67.5°	336.6	363.4	432.5	501.7
70°	295.5	323.5	384.5	445.6
72.5°	252.4	281.0	333.4	385.8
75°	188.7	216.5	258.6	300.6
77.5°	133.5	156.0	186.6	217.3
80°	97.7	118.7	141.7	164.8
82.5°	68.4	81.8	98.9	116.0
85°	32.6	35.6	43.7	51.9
87.5°	15.0	13.8	13.0	12.1
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: P1427950

CATALOG NUMBER: SQ2W-PH1-K-125U-075D-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: P1427950
 CATALOG NUMBER: SQ2W-PH1-K-125U-075D-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	17.25	18.03	18.28	19.07	20.47	16.08	16.85	17.11	17.89	19.29
	3H	19.42	20.11	20.46	21.16	22.58	17.12	17.82	18.16	18.87	20.28
	4H	20.23	20.88	21.28	21.94	23.36	17.36	18.02	18.42	19.07	20.50
	6H	20.69	21.29	21.75	22.35	23.79	17.50	18.10	18.56	19.16	20.60
	8H	20.84	21.41	21.91	22.49	23.92	17.55	18.13	18.62	19.20	20.63
	12H	20.89	21.44	21.97	22.51	23.96	17.56	18.11	18.64	19.18	20.63
4H	2H	17.67	18.33	18.74	19.38	20.81	16.75	17.41	17.81	18.46	19.89
	3H	19.92	20.46	20.99	21.54	22.98	17.97	18.52	19.04	19.60	21.04
	4H	20.79	21.29	21.86	22.36	23.82	18.26	18.76	19.34	19.83	21.29
	6H	21.34	21.77	22.43	22.86	24.32	18.45	18.88	19.54	19.98	21.43
	8H	21.54	21.94	22.63	23.03	24.50	18.54	18.94	19.63	20.03	21.50
	12H	21.62	21.98	22.72	23.08	24.56	18.56	18.93	19.66	20.02	21.50
8H	4H	20.80	21.20	21.89	22.29	23.76	18.48	18.88	19.57	19.97	21.44
	6H	21.43	21.76	22.54	22.89	24.35	18.75	19.08	19.85	20.21	21.67
	8H	21.69	21.98	22.80	23.09	24.58	18.89	19.18	20.01	20.29	21.78
	12H	21.82	22.07	22.94	23.18	24.70	18.95	19.21	20.07	20.31	21.84
12H	4H	20.75	21.11	21.85	22.21	23.69	18.47	18.84	19.58	19.94	21.41
	6H	21.40	21.69	22.52	22.80	24.29	18.78	19.07	19.90	20.18	21.67
	8H	21.67	21.93	22.79	23.03	24.56	18.94	19.20	20.06	20.30	21.83