

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: P1427908

Luminaire Tested: SQ2W-PH1-K-075U-100D-L940-UNV-STD-W-WM-4

Issue Date: 3/10/2026

Test Information

Test Method: LM-79-2019
Report Number: P1427908
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-075U-100D-L940-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - PERCEIVE HEX LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

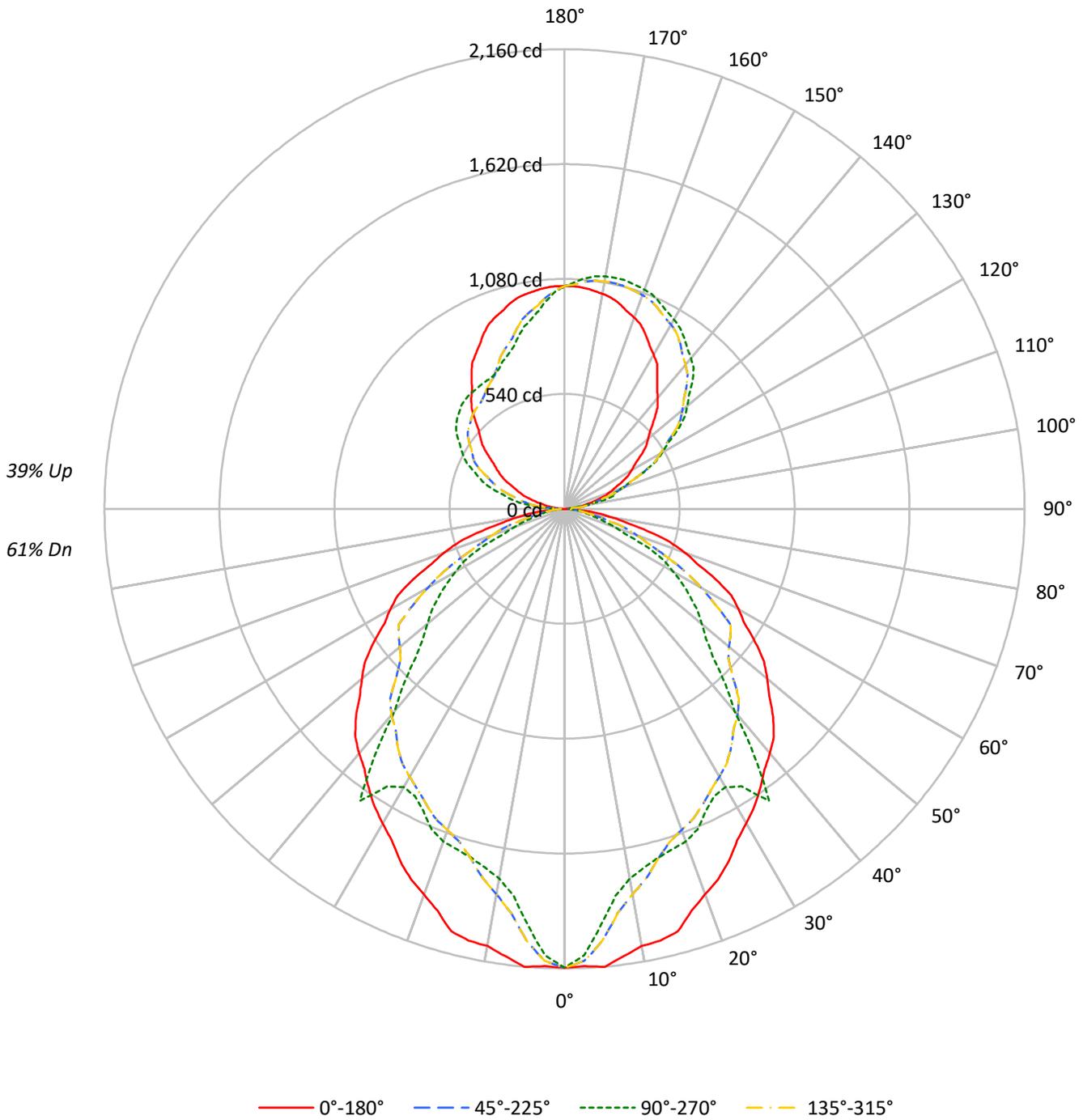
Lumens per Lamp: N/A
Luminaire Lumens: 7826.4 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.02 / 1.23
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 61.2
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: P1427908

CATALOG NUMBER: SQ2W-PH1-K-075U-100D-L940-UNV-STD-W-WM-4

Luminous Intensity Polar Plot





TEST NUMBER: P1427908

CATALOG NUMBER: SQ2W-PH1-K-075U-100D-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	0
RCR																		
0	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	101	96	92	89	94	90	87	84	79	76	74	69	67	65	59	58	56	52
2	92	84	78	73	86	79	74	69	69	65	62	60	57	55	52	50	48	44
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	37
4	77	66	58	52	71	62	55	49	55	49	44	48	43	40	41	38	35	32
5	70	59	50	44	66	55	48	42	49	43	38	43	38	35	37	34	31	28
6	65	53	45	39	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	31	27	31	27	24	22
8	56	43	36	30	52	41	34	29	37	31	26	32	28	24	28	25	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	34813	34813	34813	34813
5°	35012	31821	35012	31821
10°	34207	28927	34207	28927
15°	34361	28361	34361	28361
20°	33135	28589	33135	28589
25°	32528	27923	32528	27923
30°	31822	28151	31822	28151
35°	31581	32997	31581	32997
40°	31608	26160	31608	26160
45°	31619	22532	31619	22532
50°	31176	21129	31176	21129
55°	30781	20270	30781	20270
60°	30473	19013	30473	19013
65°	29940	16538	29940	16538
70°	28281	11816	28281	11816
75°	25215	8958	25215	8958
80°	20604	8396	20604	8396
85°	12930	5706	12930	5706

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 31619 cd/sqm



TEST NUMBER: P1427908

CATALOG NUMBER: SQ2W-PH1-K-075U-100D-L940-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.7	2.4
10°-20°	499.1	6.4
20°-30°	731.7	9.3
30°-40°	886.0	11.3
40°-50°	871.2	11.1
50°-60°	757.8	9.7
60°-70°	527.1	6.7
70°-80°	250.0	3.2
80°-90°	59.4	0.8
90°-100°	83.3	1.1
100°-110°	242.8	3.1
110°-120°	396.2	5.1
120°-130°	502.8	6.4
130°-140°	538.0	6.9
140°-150°	502.4	6.4
150°-160°	413.4	5.3
160°-170°	277.2	3.5
170°-180°	98.4	1.3
0°-30°	1420.5	18.1
0°-40°	2306.5	29.5
0°-60°	3935.5	50.3
0°-90°	4771.9	61.0
90°-120°	722.3	9.2
90°-150°	2265.4	28.9
90°-180°	3054.0	39.0
0°-180°	7826.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2156	2156	2156	2156	2156	
5°	2160	1963	2160	1963	2160	203
15°	2056	1697	2056	1697	2056	573
25°	1826	1567	1826	1567	1826	840
35°	1602	1674	1602	1674	1602	1004
45°	1385	987	1385	987	1385	1064
55°	1094	720	1094	720	1094	977
65°	784	433	784	433	784	770
75°	404	144	404	144	404	428
85°	70	31	70	31	70	94
90°	3	23	3	45	3	5
95°	33	24	33	143	33	40
105°	154	247	154	340	154	164
115°	296	410	296	505	296	292
125°	438	650	438	619	438	391
135°	595	851	595	686	595	460
145°	760	981	760	701	760	475
155°	902	1065	902	727	902	415
165°	998	1111	998	837	998	281
175°	1043	1087	1043	982	1043	99
180°	1046	1046	1046	1046	1046	



TEST NUMBER: P1427908

CATALOG NUMBER: SQ2W-PH1-K-075U-100D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2
2.5°	2151.3	2161.5	2171.7	2157.3	2134.7	2119.0	2110.3	2103.4	2101.9	2100.4	2101.9
5°	2160.3	2159.4	2158.5	2115.9	2059.4	2017.0	1988.7	1967.0	1965.2	1963.4	1965.2
7.5°	2121.0	2092.7	2064.4	2007.2	1940.2	1891.2	1860.0	1836.2	1834.8	1833.3	1834.8
10°	2086.5	2043.6	2000.8	1936.0	1864.0	1813.8	1785.6	1764.4	1764.4	1764.4	1764.4
12.5°	2078.3	2010.6	1943.0	1872.0	1800.0	1753.5	1732.5	1717.9	1722.3	1726.6	1722.3
15°	2055.7	1953.6	1851.5	1779.4	1717.4	1683.7	1678.2	1676.6	1686.6	1696.7	1686.6
17.5°	1981.0	1871.1	1761.1	1697.8	1650.0	1631.9	1643.6	1655.3	1667.0	1678.6	1667.0
20°	1928.5	1820.0	1711.5	1652.9	1611.0	1600.9	1622.8	1642.0	1652.9	1663.9	1652.9
22.5°	1884.2	1774.2	1664.3	1612.4	1580.0	1575.8	1599.8	1619.4	1625.2	1631.0	1625.2
25°	1825.9	1701.9	1577.9	1540.1	1531.0	1536.9	1557.9	1572.9	1570.2	1567.4	1570.2
27.5°	1756.2	1626.7	1497.2	1472.9	1483.7	1495.4	1508.2	1518.2	1519.8	1521.5	1519.8
30°	1706.9	1577.5	1448.0	1428.6	1445.9	1461.0	1473.7	1486.3	1498.1	1510.0	1498.1
32.5°	1659.3	1525.5	1391.6	1377.7	1403.8	1432.0	1462.2	1491.7	1518.9	1546.1	1518.9
35°	1602.3	1462.8	1323.3	1312.3	1344.3	1385.3	1435.4	1495.4	1584.8	1674.1	1584.8
37.5°	1542.4	1392.9	1243.3	1238.4	1281.6	1324.8	1368.0	1407.5	1436.0	1464.4	1436.0
40°	1499.7	1342.9	1186.1	1185.8	1237.8	1291.6	1347.2	1372.5	1306.9	1241.2	1306.9
42.5°	1453.8	1296.9	1140.1	1135.5	1181.6	1240.9	1313.3	1339.9	1229.0	1118.1	1229.0
45°	1384.8	1221.6	1058.4	1052.5	1099.0	1131.8	1151.0	1145.5	1066.2	986.8	1066.2
47.5°	1303.6	1148.0	992.5	991.2	1041.4	1045.0	1002.1	962.2	931.2	900.2	931.2
50°	1241.2	1094.4	947.6	954.0	1011.4	1006.0	937.6	881.3	861.2	841.2	861.2
52.5°	1180.5	1041.0	901.5	918.4	987.6	976.6	885.6	814.0	800.5	787.0	800.5
55°	1093.5	959.5	825.4	863.7	959.5	944.9	820.0	725.6	722.8	720.1	722.8
57.5°	1001.2	874.4	747.7	774.3	852.0	836.6	728.3	648.3	653.0	657.7	653.0
60°	943.7	820.6	697.5	701.0	746.6	732.0	657.2	599.8	594.3	588.8	594.3
62.5°	883.0	765.8	648.5	631.5	647.9	630.8	580.1	540.7	535.2	529.7	535.2
65°	783.7	677.0	570.3	538.2	530.9	506.3	464.3	432.9	432.9	432.9	432.9
67.5°	674.6	581.6	488.6	452.6	435.6	411.2	379.3	349.9	328.0	306.1	328.0
70°	599.1	517.0	434.9	397.3	374.5	345.4	309.8	279.5	264.9	250.3	264.9
72.5°	518.6	448.3	377.9	339.3	311.4	283.0	254.0	228.0	211.3	194.5	211.3
75°	404.2	347.6	291.1	253.7	222.7	194.0	167.5	147.3	145.4	143.6	145.4
77.5°	292.1	250.9	209.7	179.4	152.8	132.9	119.5	109.6	109.8	110.0	109.8
80°	221.6	190.6	159.6	131.3	103.9	89.8	88.9	88.4	89.4	90.3	89.4
82.5°	155.9	132.9	110.0	91.9	75.5	67.9	69.2	70.2	70.4	70.6	70.4
85°	69.8	58.8	47.9	43.8	41.9	39.2	35.6	32.6	31.7	30.8	31.7
87.5°	15.4	15.5	15.8	14.9	13.3	12.4	12.4	12.6	12.9	12.9	12.9
90°	3.2	7.4	12.7	16.9	20.1	21.1	21.1	22.2	23.2	23.2	23.2
92.5°	11.6	18.4	18.6	18.6	22.6	24.5	26.2	26.4	27.5	27.5	27.5
95°	32.8	35.9	53.9	52.8	35.9	28.5	24.3	24.3	24.3	24.3	24.3
97.5°	62.6	67.2	70.2	94.0	99.3	95.9	78.2	65.7	58.8	55.6	58.8
100°	88.8	90.9	97.2	98.3	124.7	150.0	137.4	121.5	116.2	113.1	116.2
102.5°	115.0	116.2	126.0	130.4	136.5	150.9	194.9	190.0	186.4	185.8	186.4
105°	154.3	155.3	173.3	181.7	186.0	186.0	184.9	206.1	239.9	247.3	239.9
107.5°	196.3	201.2	222.3	244.9	249.8	251.1	245.6	242.4	241.1	242.0	241.1
110°	225.1	232.5	257.8	286.4	293.8	295.9	293.8	290.6	288.5	288.5	288.5



TEST NUMBER: P1427908

CATALOG NUMBER: SQ2W-PH1-K-075U-100D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	253.0	263.7	292.5	325.2	337.7	344.1	339.4	337.1	335.0	336.7	335.0
115°	295.9	311.7	349.8	383.6	408.9	412.1	411.0	411.0	410.0	410.0	410.0
117.5°	335.6	361.0	403.7	443.0	472.3	480.8	485.0	483.7	482.5	484.6	482.5
120°	363.5	393.1	441.7	486.1	514.6	527.3	531.5	529.4	531.5	529.4	531.5
122.5°	393.1	429.4	477.2	523.3	556.9	571.2	576.3	576.7	577.2	575.9	577.2
125°	437.5	481.8	537.8	585.4	620.3	637.2	641.4	642.5	644.6	649.9	644.6
127.5°	482.3	532.6	594.1	639.9	675.6	696.1	702.7	705.0	709.5	711.8	709.5
130°	513.5	570.6	632.9	676.3	711.1	733.3	745.0	748.1	753.4	752.4	753.4
132.5°	546.5	606.1	669.3	714.3	746.6	770.5	780.5	789.5	791.5	792.9	791.5
135°	594.9	659.4	722.8	767.1	797.8	821.0	833.7	842.2	847.5	850.6	847.5
137.5°	645.8	713.9	774.8	814.3	845.1	865.2	879.6	888.5	893.9	896.5	893.9
140°	680.5	746.0	805.2	846.4	873.9	893.9	906.6	917.2	923.5	923.5	923.5
142.5°	713.5	778.1	835.6	876.8	900.9	919.3	932.8	940.9	948.0	948.0	948.0
145°	759.7	824.2	877.0	918.3	938.3	955.2	970.0	976.4	980.6	980.6	980.6
147.5°	808.1	865.2	913.4	952.9	969.8	989.7	1001.3	1006.4	1011.7	1009.3	1011.7
150°	836.9	889.7	936.2	973.2	990.1	1009.1	1020.7	1025.0	1030.3	1027.1	1030.3
152.5°	864.8	915.1	957.3	991.8	1006.2	1025.2	1038.5	1042.7	1046.3	1044.0	1046.3
155°	902.4	946.8	985.9	1017.6	1030.3	1048.2	1060.9	1066.2	1070.4	1065.1	1070.4
157.5°	936.0	974.3	1008.3	1037.4	1051.0	1066.4	1078.2	1084.8	1089.0	1086.7	1089.0
160°	956.3	991.2	1021.8	1049.3	1062.0	1075.7	1088.4	1095.8	1100.0	1096.8	1100.0
162.5°	973.2	1004.7	1033.6	1058.6	1069.6	1081.6	1096.8	1103.4	1107.6	1103.6	1107.6
165°	997.5	1022.9	1048.2	1069.4	1078.9	1088.4	1104.2	1111.6	1114.8	1110.6	1114.8
167.5°	1015.9	1035.3	1055.8	1074.0	1081.0	1090.3	1106.1	1112.3	1116.3	1111.0	1116.3
170°	1026.0	1042.9	1060.9	1075.7	1081.0	1089.4	1105.3	1110.6	1113.7	1108.5	1113.7
172.5°	1034.5	1047.2	1061.7	1074.9	1077.6	1084.4	1099.4	1104.6	1107.0	1102.5	1107.0
175°	1042.9	1050.3	1060.9	1069.4	1068.3	1072.5	1085.2	1089.4	1093.7	1087.3	1093.7
177.5°	1047.0	1050.3	1053.7	1058.8	1055.4	1055.4	1064.7	1067.2	1068.1	1064.7	1068.1
180°	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1



TEST NUMBER: P1427908

CATALOG NUMBER: SQ2W-PH1-K-075U-100D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2
2.5°	2103.4	2110.3	2119.0	2134.7	2157.3	2171.7	2161.5	2151.3	2161.5	2171.7	2157.3
5°	1967.0	1988.7	2017.0	2059.4	2115.9	2158.5	2159.4	2160.3	2159.4	2158.5	2115.9
7.5°	1836.2	1860.0	1891.2	1940.2	2007.2	2064.4	2092.7	2121.0	2092.7	2064.4	2007.2
10°	1764.4	1785.6	1813.8	1864.0	1936.0	2000.8	2043.6	2086.5	2043.6	2000.8	1936.0
12.5°	1717.9	1732.5	1753.5	1800.0	1872.0	1943.0	2010.6	2078.3	2010.6	1943.0	1872.0
15°	1676.6	1678.2	1683.7	1717.4	1779.4	1851.5	1953.6	2055.7	1953.6	1851.5	1779.4
17.5°	1655.3	1643.6	1631.9	1650.0	1697.8	1761.1	1871.1	1981.0	1871.1	1761.1	1697.8
20°	1642.0	1622.8	1600.9	1611.0	1652.9	1711.5	1820.0	1928.5	1820.0	1711.5	1652.9
22.5°	1619.4	1599.8	1575.8	1580.0	1612.4	1664.3	1774.2	1884.2	1774.2	1664.3	1612.4
25°	1572.9	1557.9	1536.9	1531.0	1540.1	1577.9	1701.9	1825.9	1701.9	1577.9	1540.1
27.5°	1518.2	1508.2	1495.4	1483.7	1472.9	1497.2	1626.7	1756.2	1626.7	1497.2	1472.9
30°	1486.3	1473.7	1461.0	1445.9	1428.6	1448.0	1577.5	1706.9	1577.5	1448.0	1428.6
32.5°	1491.7	1462.2	1432.0	1403.8	1377.7	1391.6	1525.5	1659.3	1525.5	1391.6	1377.7
35°	1495.4	1435.4	1385.3	1344.3	1312.3	1323.3	1462.8	1602.3	1462.8	1323.3	1312.3
37.5°	1407.5	1368.0	1324.8	1281.6	1238.4	1243.3	1392.9	1542.4	1392.9	1243.3	1238.4
40°	1372.5	1347.2	1291.6	1237.8	1185.8	1186.1	1342.9	1499.7	1342.9	1186.1	1185.8
42.5°	1339.9	1313.3	1240.9	1181.6	1135.5	1140.1	1296.9	1453.8	1296.9	1140.1	1135.5
45°	1145.5	1151.0	1131.8	1099.0	1052.5	1058.4	1221.6	1384.8	1221.6	1058.4	1052.5
47.5°	962.2	1002.1	1045.0	1041.4	991.2	992.5	1148.0	1303.6	1148.0	992.5	991.2
50°	881.3	937.6	1006.0	1011.4	954.0	947.6	1094.4	1241.2	1094.4	947.6	954.0
52.5°	814.0	885.6	976.6	987.6	918.4	901.5	1041.0	1180.5	1041.0	901.5	918.4
55°	725.6	820.0	944.9	959.5	863.7	825.4	959.5	1093.5	959.5	825.4	863.7
57.5°	648.3	728.3	836.6	852.0	774.3	747.7	874.4	1001.2	874.4	747.7	774.3
60°	599.8	657.2	732.0	746.6	701.0	697.5	820.6	943.7	820.6	697.5	701.0
62.5°	540.7	580.1	630.8	647.9	631.5	648.5	765.8	883.0	765.8	648.5	631.5
65°	432.9	464.3	506.3	530.9	538.2	570.3	677.0	783.7	677.0	570.3	538.2
67.5°	349.9	379.3	411.2	435.6	452.6	488.6	581.6	674.6	581.6	488.6	452.6
70°	279.5	309.8	345.4	374.5	397.3	434.9	517.0	599.1	517.0	434.9	397.3
72.5°	228.0	254.0	283.0	311.4	339.3	377.9	448.3	518.6	448.3	377.9	339.3
75°	147.3	167.5	194.0	222.7	253.7	291.1	347.6	404.2	347.6	291.1	253.7
77.5°	109.6	119.5	132.9	152.8	179.4	209.7	250.9	292.1	250.9	209.7	179.4
80°	88.4	88.9	89.8	103.9	131.3	159.6	190.6	221.6	190.6	159.6	131.3
82.5°	70.2	69.2	67.9	75.5	91.9	110.0	132.9	155.9	132.9	110.0	91.9
85°	32.6	35.6	39.2	41.9	43.8	47.9	58.8	69.8	58.8	47.9	43.8
87.5°	12.6	12.4	12.4	13.3	14.9	15.8	15.5	15.4	15.5	15.6	15.3
90°	22.2	21.1	21.1	20.1	16.9	12.7	7.4	3.2	7.4	11.6	19.0
92.5°	26.4	26.2	24.5	22.6	18.6	18.6	18.4	11.6	20.1	28.5	41.0
95°	24.3	24.3	28.5	35.9	52.8	53.9	35.9	32.8	46.5	65.5	82.4
97.5°	65.7	78.2	95.9	99.3	94.0	70.2	67.2	62.6	85.2	104.0	131.2
100°	121.5	137.4	150.0	124.7	98.3	97.2	90.9	88.8	113.1	131.0	157.4
102.5°	190.0	194.9	150.9	136.5	130.4	126.0	116.2	115.0	139.3	164.0	186.2
105°	206.1	184.9	186.0	186.0	181.7	173.3	155.3	154.3	181.7	210.3	237.8
107.5°	242.4	245.6	251.1	249.8	244.9	222.3	201.2	196.3	221.1	255.3	285.5
110°	290.6	293.8	295.9	293.8	286.4	257.8	232.5	225.1	247.3	283.2	315.9



TEST NUMBER: P1427908

CATALOG NUMBER: SQ2W-PH1-K-075U-100D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	337.1	339.4	344.1	337.7	325.2	292.5	263.7	253.0	275.2	311.9	345.5
115°	411.0	411.0	412.1	408.9	383.6	349.8	311.7	295.9	314.9	348.7	385.7
117.5°	483.7	485.0	480.8	472.3	443.0	403.7	361.0	335.6	350.6	386.3	424.4
120°	529.4	531.5	527.3	514.6	486.1	441.7	393.1	363.5	375.1	410.0	448.0
122.5°	576.7	576.3	571.2	556.9	523.3	477.2	429.4	393.1	397.9	430.3	467.5
125°	642.5	641.4	637.2	620.3	585.4	537.8	481.8	437.5	431.1	458.6	496.6
127.5°	705.0	702.7	696.1	675.6	639.9	594.1	532.6	482.3	468.1	485.4	520.3
130°	748.1	745.0	733.3	711.1	676.3	632.9	570.6	513.5	493.5	504.0	534.7
132.5°	789.5	780.5	770.5	746.6	714.3	669.3	606.1	546.5	518.8	523.5	547.4
135°	842.2	833.7	821.0	797.8	767.1	722.8	659.4	594.9	556.9	552.6	566.4
137.5°	888.5	879.6	865.2	845.1	814.3	774.8	713.9	645.8	597.9	583.7	589.0
140°	917.2	906.6	893.9	873.9	846.4	805.2	746.0	680.5	626.6	606.5	603.4
142.5°	940.9	932.8	919.3	900.9	876.8	835.6	778.1	713.5	656.2	630.2	622.8
145°	976.4	970.0	955.2	938.3	918.3	877.0	824.2	759.7	702.7	668.9	653.0
147.5°	1006.4	1001.3	989.7	969.8	952.9	913.4	865.2	808.1	749.6	707.8	687.3
150°	1025.0	1020.7	1009.1	990.1	973.2	936.2	889.7	836.9	780.9	736.5	710.1
152.5°	1042.7	1038.5	1025.2	1006.2	991.8	957.3	915.1	864.8	807.9	763.6	736.3
155°	1066.2	1060.9	1048.2	1030.3	1017.6	985.9	946.8	902.4	853.8	807.3	776.7
157.5°	1084.8	1078.2	1066.4	1051.0	1037.4	1008.3	974.3	936.0	893.5	849.1	817.9
160°	1095.8	1088.4	1075.7	1062.0	1049.3	1021.8	991.2	956.3	917.2	877.0	843.2
162.5°	1103.4	1096.8	1081.6	1069.6	1058.6	1033.6	1004.7	973.2	938.3	903.2	872.0
165°	1111.6	1104.2	1088.4	1078.9	1069.4	1048.2	1022.9	997.5	967.9	939.4	914.0
167.5°	1112.3	1106.1	1090.3	1081.0	1074.0	1055.8	1035.3	1015.9	992.9	970.5	949.3
170°	1110.6	1105.3	1089.4	1081.0	1075.7	1060.9	1042.9	1026.0	1008.1	989.0	972.1
172.5°	1104.6	1099.4	1084.4	1077.6	1074.9	1061.7	1047.2	1034.5	1019.1	1005.1	991.6
175°	1089.4	1085.2	1072.5	1068.3	1069.4	1060.9	1050.3	1042.9	1033.4	1025.0	1017.6
177.5°	1067.2	1064.7	1055.4	1055.4	1058.8	1053.7	1050.3	1047.0	1042.7	1040.2	1037.7
180°	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1



TEST NUMBER: P1427908

CATALOG NUMBER: SQ2W-PH1-K-075U-100D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2	2156.2
2.5°	2134.7	2119.0	2110.3	2103.4	2101.9	2100.4	2101.9	2103.4	2110.3	2119.0	2134.7
5°	2059.4	2017.0	1988.7	1967.0	1965.2	1963.4	1965.2	1967.0	1988.7	2017.0	2059.4
7.5°	1940.2	1891.2	1860.0	1836.2	1834.8	1833.3	1834.8	1836.2	1860.0	1891.2	1940.2
10°	1864.0	1813.8	1785.6	1764.4	1764.4	1764.4	1764.4	1764.4	1785.6	1813.8	1864.0
12.5°	1800.0	1753.5	1732.5	1717.9	1722.3	1726.6	1722.3	1717.9	1732.5	1753.5	1800.0
15°	1717.4	1683.7	1678.2	1676.6	1686.6	1696.7	1686.6	1676.6	1678.2	1683.7	1717.4
17.5°	1650.0	1631.9	1643.6	1655.3	1667.0	1678.6	1667.0	1655.3	1643.6	1631.9	1650.0
20°	1611.0	1600.9	1622.8	1642.0	1652.9	1663.9	1652.9	1642.0	1622.8	1600.9	1611.0
22.5°	1580.0	1575.8	1599.8	1619.4	1625.2	1631.0	1625.2	1619.4	1599.8	1575.8	1580.0
25°	1531.0	1536.9	1557.9	1572.9	1570.2	1567.4	1570.2	1572.9	1557.9	1536.9	1531.0
27.5°	1483.7	1495.4	1508.2	1518.2	1519.8	1521.5	1519.8	1518.2	1508.2	1495.4	1483.7
30°	1445.9	1461.0	1473.7	1486.3	1498.1	1510.0	1498.1	1486.3	1473.7	1461.0	1445.9
32.5°	1403.8	1432.0	1462.2	1491.7	1518.9	1546.1	1518.9	1491.7	1462.2	1432.0	1403.8
35°	1344.3	1385.3	1435.4	1495.4	1584.8	1674.1	1584.8	1495.4	1435.4	1385.3	1344.3
37.5°	1281.6	1324.8	1368.0	1407.5	1436.0	1464.4	1436.0	1407.5	1368.0	1324.8	1281.6
40°	1237.8	1291.6	1347.2	1372.5	1306.9	1241.2	1306.9	1372.5	1347.2	1291.6	1237.8
42.5°	1181.6	1240.9	1313.3	1339.9	1229.0	1118.1	1229.0	1339.9	1313.3	1240.9	1181.6
45°	1099.0	1131.8	1151.0	1145.5	1066.2	986.8	1066.2	1145.5	1151.0	1131.8	1099.0
47.5°	1041.4	1045.0	1002.1	962.2	931.2	900.2	931.2	962.2	1002.1	1045.0	1041.4
50°	1011.4	1006.0	937.6	881.3	861.2	841.2	861.2	881.3	937.6	1006.0	1011.4
52.5°	987.6	976.6	885.6	814.0	800.5	787.0	800.5	814.0	885.6	976.6	987.6
55°	959.5	944.9	820.0	725.6	722.8	720.1	722.8	725.6	820.0	944.9	959.5
57.5°	852.0	836.6	728.3	648.3	653.0	657.7	653.0	648.3	728.3	836.6	852.0
60°	746.6	732.0	657.2	599.8	594.3	588.8	594.3	599.8	657.2	732.0	746.6
62.5°	647.9	630.8	580.1	540.7	535.2	529.7	535.2	540.7	580.1	630.8	647.9
65°	530.9	506.3	464.3	432.9	432.9	432.9	432.9	432.9	464.3	506.3	530.9
67.5°	435.6	411.2	379.3	349.9	328.0	306.1	328.0	349.9	379.3	411.2	435.6
70°	374.5	345.4	309.8	279.5	264.9	250.3	264.9	279.5	309.8	345.4	374.5
72.5°	311.4	283.0	254.0	228.0	211.3	194.5	211.3	228.0	254.0	283.0	311.4
75°	222.7	194.0	167.5	147.3	145.4	143.6	145.4	147.3	167.5	194.0	222.7
77.5°	152.8	132.9	119.5	109.6	109.8	110.0	109.8	109.6	119.5	132.9	152.8
80°	103.9	89.8	88.9	88.4	89.4	90.3	89.4	88.4	88.9	89.8	103.9
82.5°	75.5	67.9	69.2	70.2	70.4	70.6	70.4	70.2	69.2	67.9	75.5
85°	41.9	39.2	35.6	32.6	31.7	30.8	31.7	32.6	35.6	39.2	41.9
87.5°	14.2	14.5	16.0	16.9	17.7	17.3	17.7	16.9	16.0	14.5	14.2
90°	24.3	31.7	39.1	43.3	47.6	45.4	47.6	43.3	39.1	31.7	24.3
92.5°	48.8	61.3	70.4	78.0	81.4	80.9	81.4	78.0	70.4	61.3	48.8
95°	98.3	113.1	127.9	138.4	144.8	142.7	144.8	138.4	127.9	113.1	98.3
97.5°	151.5	171.4	187.9	197.8	204.1	208.4	204.1	197.8	187.9	171.4	151.5
100°	187.0	206.1	225.1	236.7	247.3	251.5	247.3	236.7	225.1	206.1	187.0
102.5°	215.8	240.7	261.4	273.9	282.8	287.0	282.8	273.9	261.4	240.7	215.8
105°	263.1	289.5	311.7	327.6	337.1	340.2	337.1	327.6	311.7	289.5	263.1
107.5°	310.5	337.7	358.2	375.8	387.4	394.1	387.4	375.8	358.2	337.7	310.5
110°	347.6	369.8	392.0	407.9	419.5	423.7	419.5	407.9	392.0	369.8	347.6



TEST NUMBER: P1427908

CATALOG NUMBER: SQ2W-PH1-K-075U-100D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	378.9	403.7	425.8	441.7	455.0	460.9	455.0	441.7	425.8	403.7	378.9
115°	422.7	455.4	475.5	490.3	499.8	505.1	499.8	490.3	475.5	455.4	422.7
117.5°	459.0	493.3	515.2	526.6	531.1	534.9	531.1	526.6	515.2	493.3	459.0
120°	481.8	513.5	538.9	553.7	559.0	561.1	559.0	553.7	538.9	513.5	481.8
122.5°	503.0	533.0	557.5	575.7	584.3	586.5	584.3	575.7	557.5	533.0	503.0
125°	532.6	561.1	586.5	604.4	613.9	619.2	613.9	604.4	586.5	561.1	532.6
127.5°	558.3	589.2	612.4	628.7	638.0	642.2	638.0	628.7	612.4	589.2	558.3
130°	572.7	604.4	627.7	645.6	654.1	658.3	654.1	645.6	627.7	604.4	572.7
132.5°	583.7	617.1	641.2	657.5	666.8	671.0	666.8	657.5	641.2	617.1	583.7
135°	597.0	631.9	657.3	673.1	681.6	685.8	681.6	673.1	657.3	631.9	597.0
137.5°	608.6	640.3	666.8	683.5	691.1	693.8	691.1	683.5	666.8	640.3	608.6
140°	617.1	644.6	671.0	686.8	695.3	696.3	695.3	686.8	671.0	644.6	617.1
142.5°	628.1	649.6	672.7	688.5	697.0	698.9	697.0	688.5	672.7	649.6	628.1
145°	647.7	660.4	676.3	691.1	698.5	700.6	698.5	691.1	676.3	660.4	647.7
147.5°	672.5	676.5	684.7	694.4	701.6	703.1	701.6	694.4	684.7	676.5	672.5
150°	691.1	690.0	693.2	699.5	705.9	704.8	705.9	699.5	693.2	690.0	691.1
152.5°	712.2	706.1	705.9	708.8	711.8	711.6	711.8	708.8	705.9	706.1	712.2
155°	748.1	736.5	730.2	728.0	728.0	727.0	728.0	728.0	730.2	736.5	748.1
157.5°	787.6	771.4	761.9	756.8	755.3	753.0	755.3	756.8	761.9	771.4	787.6
160°	814.7	796.7	787.2	778.8	775.6	772.4	775.6	778.8	787.2	796.7	814.7
162.5°	840.1	822.9	812.6	805.0	801.8	796.9	801.8	805.0	812.6	822.9	840.1
165°	881.3	863.3	851.7	845.3	841.1	836.9	841.1	845.3	851.7	863.3	881.3
167.5°	922.5	902.8	895.2	888.0	884.0	876.4	884.0	888.0	895.2	902.8	922.5
170°	947.8	929.9	925.6	919.3	911.9	903.5	911.9	919.3	925.6	929.9	947.8
172.5°	969.8	957.8	953.5	947.2	944.9	938.1	944.9	947.2	953.5	957.8	969.8
175°	1001.7	992.2	992.2	991.2	988.0	981.7	988.0	991.2	992.2	992.2	1001.7
177.5°	1028.4	1023.3	1026.7	1026.7	1025.8	1019.9	1025.8	1026.7	1026.7	1023.3	1028.4
180°	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1	1046.1



TEST NUMBER: P1427908

CATALOG NUMBER: SQ2W-PH1-K-075U-100D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	2156.2	2156.2	2156.2	2156.2
2.5°	2157.3	2171.7	2161.5	2151.3
5°	2115.9	2158.5	2159.4	2160.3
7.5°	2007.2	2064.4	2092.7	2121.0
10°	1936.0	2000.8	2043.6	2086.5
12.5°	1872.0	1943.0	2010.6	2078.3
15°	1779.4	1851.5	1953.6	2055.7
17.5°	1697.8	1761.1	1871.1	1981.0
20°	1652.9	1711.5	1820.0	1928.5
22.5°	1612.4	1664.3	1774.2	1884.2
25°	1540.1	1577.9	1701.9	1825.9
27.5°	1472.9	1497.2	1626.7	1756.2
30°	1428.6	1448.0	1577.5	1706.9
32.5°	1377.7	1391.6	1525.5	1659.3
35°	1312.3	1323.3	1462.8	1602.3
37.5°	1238.4	1243.3	1392.9	1542.4
40°	1185.8	1186.1	1342.9	1499.7
42.5°	1135.5	1140.1	1296.9	1453.8
45°	1052.5	1058.4	1221.6	1384.8
47.5°	991.2	992.5	1148.0	1303.6
50°	954.0	947.6	1094.4	1241.2
52.5°	918.4	901.5	1041.0	1180.5
55°	863.7	825.4	959.5	1093.5
57.5°	774.3	747.7	874.4	1001.2
60°	701.0	697.5	820.6	943.7
62.5°	631.5	648.5	765.8	883.0
65°	538.2	570.3	677.0	783.7
67.5°	452.6	488.6	581.6	674.6
70°	397.3	434.9	517.0	599.1
72.5°	339.3	377.9	448.3	518.6
75°	253.7	291.1	347.6	404.2
77.5°	179.4	209.7	250.9	292.1
80°	131.3	159.6	190.6	221.6
82.5°	91.9	110.0	132.9	155.9
85°	43.8	47.9	58.8	69.8
87.5°	15.3	15.6	15.5	15.4
90°	19.0	11.6	7.4	3.2
92.5°	41.0	28.5	20.1	11.6
95°	82.4	65.5	46.5	32.8
97.5°	131.2	104.0	85.2	62.6
100°	157.4	131.0	113.1	88.8
102.5°	186.2	164.0	139.3	115.0
105°	237.8	210.3	181.7	154.3
107.5°	285.5	255.3	221.1	196.3
110°	315.9	283.2	247.3	225.1



TEST NUMBER: P1427908

CATALOG NUMBER: SQ2W-PH1-K-075U-100D-L940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	345.5	311.9	275.2	253.0
115°	385.7	348.7	314.9	295.9
117.5°	424.4	386.3	350.6	335.6
120°	448.0	410.0	375.1	363.5
122.5°	467.5	430.3	397.9	393.1
125°	496.6	458.6	431.1	437.5
127.5°	520.3	485.4	468.1	482.3
130°	534.7	504.0	493.5	513.5
132.5°	547.4	523.5	518.8	546.5
135°	566.4	552.6	556.9	594.9
137.5°	589.0	583.7	597.9	645.8
140°	603.4	606.5	626.6	680.5
142.5°	622.8	630.2	656.2	713.5
145°	653.0	668.9	702.7	759.7
147.5°	687.3	707.8	749.6	808.1
150°	710.1	736.5	780.9	836.9
152.5°	736.3	763.6	807.9	864.8
155°	776.7	807.3	853.8	902.4
157.5°	817.9	849.1	893.5	936.0
160°	843.2	877.0	917.2	956.3
162.5°	872.0	903.2	938.3	973.2
165°	914.0	939.4	967.9	997.5
167.5°	949.3	970.5	992.9	1015.9
170°	972.1	989.0	1008.1	1026.0
172.5°	991.6	1005.1	1019.1	1034.5
175°	1017.6	1025.0	1033.4	1042.9
177.5°	1037.7	1040.2	1042.7	1047.0
180°	1046.1	1046.1	1046.1	1046.1



TEST NUMBER: P1427908
 CATALOG NUMBER: SQ2W-PH1-K-075U-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	20.17	21.13	21.03	22.01	23.11	19.00	19.96	19.85	20.84	21.94
	3H	22.35	23.21	23.22	24.10	25.23	20.05	20.91	20.93	21.80	22.94
	4H	23.17	23.98	24.06	24.88	26.02	20.30	21.12	21.19	22.01	23.15
	6H	23.64	24.39	24.54	25.29	26.45	20.45	21.20	21.35	22.10	23.26
	8H	23.80	24.51	24.70	25.43	26.58	20.51	21.22	21.42	22.14	23.30
	12H	23.86	24.54	24.77	25.45	26.63	20.53	21.20	21.44	22.12	23.30
4H	2H	20.62	21.43	21.51	22.32	23.46	19.69	20.50	20.58	21.40	22.54
	3H	22.88	23.55	23.78	24.48	25.64	20.93	21.61	21.84	22.53	23.69
	4H	23.75	24.37	24.67	25.29	26.47	21.23	21.84	22.14	22.77	23.95
	6H	24.32	24.85	25.25	25.80	26.98	21.43	21.96	22.36	22.91	24.09
	8H	24.52	25.02	25.46	25.96	27.16	21.52	22.02	22.46	22.96	24.16
	12H	24.61	25.06	25.56	26.02	27.22	21.55	22.00	22.50	22.96	24.16
8H	4H	23.78	24.28	24.72	25.22	26.42	21.46	21.96	22.40	22.90	24.10
	6H	24.42	24.83	25.38	25.81	27.01	21.74	22.15	22.69	23.13	24.32
	8H	24.68	25.04	25.65	26.01	27.23	21.88	22.25	22.85	23.22	24.43
	12H	24.82	25.13	25.79	26.10	27.36	21.95	22.27	22.92	23.24	24.50
12H	4H	23.74	24.19	24.69	25.14	26.35	21.47	21.91	22.42	22.87	24.07
	6H	24.39	24.76	25.36	25.73	26.94	21.77	22.13	22.74	23.11	24.32
	8H	24.67	24.99	25.64	25.95	27.22	21.94	22.26	22.91	23.22	24.49