

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: P1435841

Luminaire Tested: SQ2W-FA-K-125U-075D-L830-UNV-STD-W-WM-4

Issue Date: 3/24/2026

Test Information

Test Method: LM-79-2019
Report Number: P1435841
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2303-941-3, G2-2502-345-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/24/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2W-FA-K-125U-075D-L830-UNV-STD-W-WM-4
Description: CORELITE SQ2W WALL MOUNTED LED LUMINAIRE
DOWNLIGHT - FROSTED CONTINUOUS ASYMMETRIC ROLL LENS
UPLIGHT - ASYMMETRIC ROLL LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

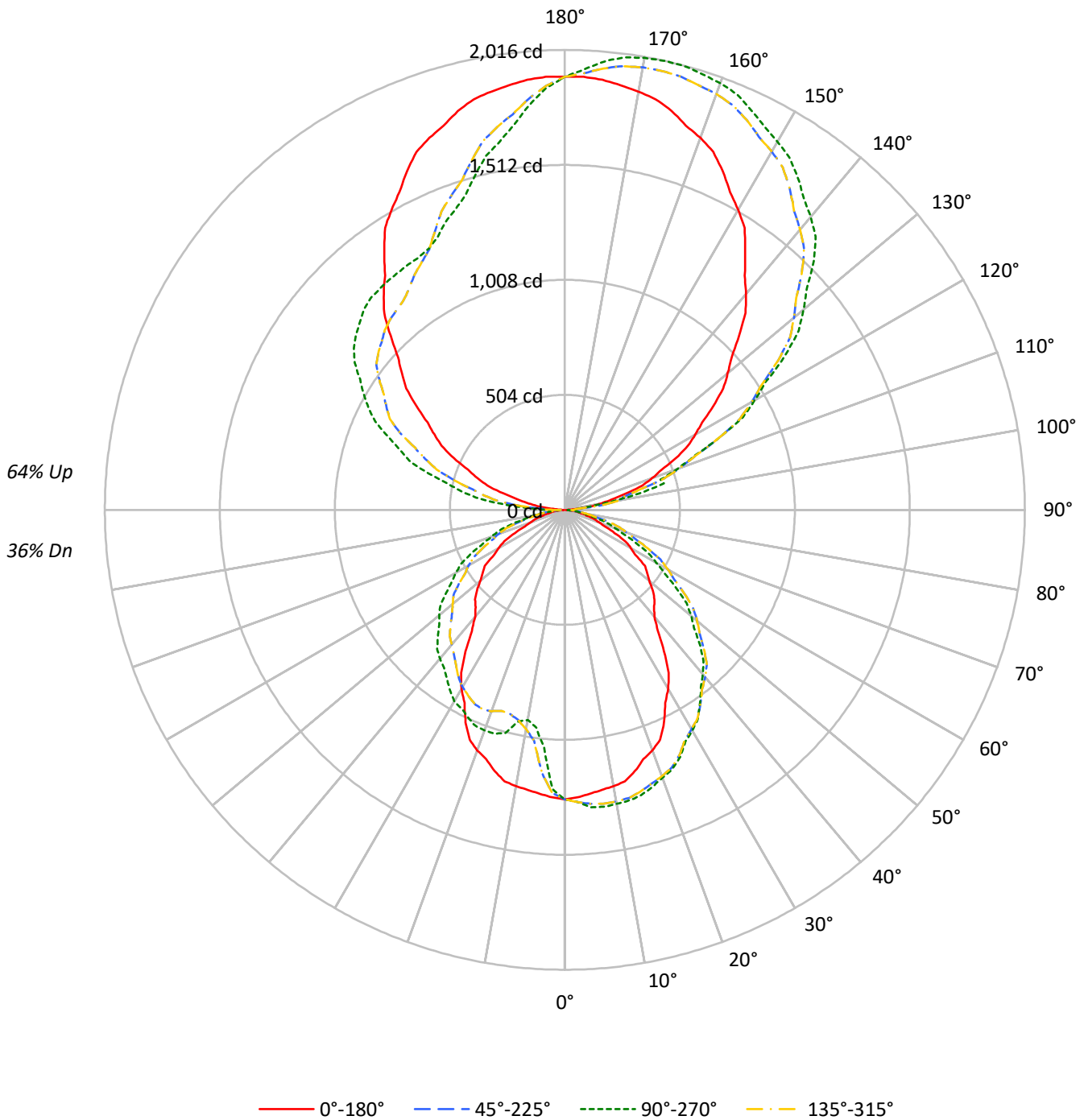
Lumens per Lamp: N/A
Luminaire Lumens: 8703.2 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 70.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	32	31	26
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	26	22
4	72	61	54	48	65	56	49	44	46	41	37	36	32	30	27	25	23	19
5	66	55	47	41	59	50	43	38	41	36	32	32	28	26	24	22	20	16
6	61	49	41	35	55	45	38	33	37	31	27	29	25	22	22	19	17	14
7	56	44	36	31	51	40	33	29	33	28	24	26	23	20	20	17	15	13
8	52	40	32	27	47	36	30	25	30	25	21	24	20	18	18	16	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	20498	20498	20498	20498
5°	20257	21215	20257	16909
10°	20170	21461	20170	15329
15°	19824	21633	19824	16944
20°	19278	21475	19278	17671
25°	18322	21303	18322	17884
30°	16881	20826	16881	18073
35°	14936	20368	14936	17749
40°	12861	19810	12861	17942
45°	12698	19102	12698	17979
50°	12114	18170	12114	18047
55°	12051	16760	12051	17869
60°	10805	14938	10805	17799
65°	9211	13161	9211	17295
70°	7435	11150	7435	16031
75°	6444	9208	6444	14735
80°	5495	6862	5495	11892
85°	3649	3649	3649	7299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 40°
 Vertical Angle: 45°
 Luminance: 19701 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	1.3
10°-20°	319.2	3.7
20°-30°	484.8	5.6
30°-40°	569.1	6.5
40°-50°	577.5	6.6
50°-60°	505.9	5.8
60°-70°	358.8	4.1
70°-80°	184.7	2.1
80°-90°	46.6	0.5
90°-100°	151.1	1.7
100°-110°	440.5	5.1
110°-120°	719.0	8.3
120°-130°	912.3	10.5
130°-140°	976.2	11.2
140°-150°	911.5	10.5
150°-160°	750.1	8.6
160°-170°	503.1	5.8
170°-180°	178.6	2.1
0°-30°	918.2	10.5
0°-40°	1487.3	17.1
0°-60°	2570.7	29.5
0°-90°	3160.9	36.3
90°-120°	1310.6	15.1
90°-150°	4110.6	47.2
90°-180°	5542.0	63.7
0°-180°	8703.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1270	1270	1270	1270	1270	
5°	1250	1309	1250	1043	1250	119
15°	1186	1294	1186	1014	1186	333
25°	1028	1196	1028	1004	1028	470
35°	758	1033	758	900	758	472
45°	556	837	556	787	556	425
55°	428	595	428	635	428	370
65°	241	344	241	453	241	241
75°	103	148	103	236	103	112
85°	20	20	20	39	20	25
90°	6	42	6	82	6	5
95°	59	44	59	259	59	72
105°	280	449	280	617	280	298
115°	537	744	537	916	537	529
125°	794	1179	794	1124	794	710
135°	1080	1544	1080	1244	1080	834
145°	1379	1779	1379	1271	1379	863
155°	1637	1933	1637	1319	1637	753
165°	1810	2015	1810	1519	1810	510
175°	1892	1973	1892	1781	1892	180
180°	1898	1898	1898	1898	1898	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6
2.5°	1261.7	1270.5	1279.2	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4
5°	1249.9	1265.2	1280.6	1287.7	1292.0	1295.3	1297.5	1300.2	1304.6	1309.0	1304.6
7.5°	1238.1	1258.7	1279.2	1289.3	1295.9	1301.1	1305.1	1308.6	1310.7	1312.9	1310.7
10°	1230.3	1254.3	1278.4	1289.3	1295.9	1300.2	1302.4	1304.6	1306.8	1309.0	1306.8
12.5°	1218.4	1244.3	1270.1	1282.7	1291.1	1296.3	1298.5	1300.7	1302.9	1305.1	1302.9
15°	1186.0	1221.0	1256.0	1269.6	1276.2	1281.7	1286.0	1289.9	1292.0	1294.2	1292.0
17.5°	1145.6	1188.0	1230.5	1247.6	1256.4	1262.7	1266.7	1270.1	1271.8	1273.6	1271.8
20°	1122.0	1167.9	1213.9	1231.9	1240.6	1246.1	1248.3	1249.9	1249.9	1249.9	1249.9
22.5°	1090.5	1141.7	1192.9	1212.2	1221.0	1225.6	1226.0	1226.8	1228.5	1230.3	1228.5
25°	1028.5	1087.5	1146.6	1171.2	1184.3	1189.8	1187.6	1187.1	1191.4	1195.8	1191.4
27.5°	952.7	1027.1	1101.4	1126.6	1135.3	1140.8	1143.0	1144.6	1144.6	1144.6	1144.6
30°	905.5	988.6	1071.7	1099.0	1107.8	1113.2	1115.4	1117.1	1117.1	1117.1	1117.1
32.5°	846.4	945.3	1044.1	1074.1	1081.1	1084.8	1085.2	1085.6	1085.6	1085.6	1085.6
35°	757.8	878.1	998.4	1031.8	1036.1	1038.3	1038.3	1037.8	1035.6	1033.4	1035.6
37.5°	669.3	805.7	942.2	981.3	987.8	989.6	986.5	983.7	981.5	979.3	981.5
40°	610.2	758.9	907.7	949.8	956.3	956.3	949.8	944.3	942.1	939.9	942.1
42.5°	578.7	725.7	872.7	914.3	920.9	920.0	911.7	904.9	902.7	900.5	902.7
45°	556.1	687.3	818.5	856.3	862.8	861.7	853.0	845.3	840.9	836.6	840.9
47.5°	521.6	637.1	752.6	789.7	800.6	799.5	786.4	775.4	771.1	766.7	771.1
50°	482.3	596.0	709.7	746.4	757.3	756.2	743.1	732.1	727.8	723.4	727.8
52.5°	454.7	561.4	668.2	701.7	710.9	708.1	693.2	681.0	676.6	672.2	676.6
55°	428.1	517.8	607.5	634.8	641.4	637.0	621.7	608.6	602.0	595.4	602.0
57.5°	366.1	451.4	536.7	563.3	570.3	565.0	547.5	532.6	525.1	517.7	525.1
60°	334.6	411.2	487.7	513.4	522.2	517.8	500.3	484.4	473.5	462.6	473.5
62.5°	299.2	367.0	434.8	460.9	473.2	470.6	453.1	437.2	426.3	415.3	426.3
65°	241.1	300.2	359.2	385.5	400.8	399.7	382.2	366.3	355.4	344.5	355.4
67.5°	189.0	239.7	290.4	316.3	333.8	332.9	313.6	297.0	288.3	279.5	288.3
70°	157.5	201.2	245.0	269.0	286.5	286.5	269.0	253.7	245.0	236.2	245.0
72.5°	137.8	171.0	204.3	227.0	246.3	246.3	227.0	210.8	203.8	196.8	203.8
75°	103.3	123.0	142.7	164.0	185.9	188.1	170.6	156.4	152.0	147.6	152.0
77.5°	74.8	84.0	93.2	109.9	129.1	131.3	116.5	104.9	103.1	101.4	103.1
80°	59.1	61.2	63.4	77.1	94.6	96.8	83.7	73.8	73.8	73.8	73.8
82.5°	39.4	41.6	43.7	53.5	65.7	67.0	57.4	49.8	48.0	46.3	48.0
85°	19.7	19.7	19.7	23.0	27.3	27.3	23.0	19.7	19.7	19.7	19.7
87.5°	5.1	6.6	8.5	11.4	14.3	14.7	12.9	12.0	12.4	12.4	12.4
90°	5.8	13.4	23.0	30.7	36.4	38.3	38.3	40.3	42.2	42.2	42.2
92.5°	21.1	33.4	33.7	33.7	41.0	44.5	47.6	47.9	49.9	49.9	49.9
95°	59.4	65.2	97.8	95.9	65.2	51.8	44.1	44.1	44.1	44.1	44.1
97.5°	113.5	121.9	127.3	170.6	180.2	174.1	141.9	119.3	106.6	100.9	106.6
100°	161.1	164.9	176.4	178.3	226.2	272.3	249.3	220.5	210.9	205.2	210.9
102.5°	208.6	210.9	228.5	236.6	247.7	273.8	353.6	344.7	338.2	337.1	338.2
105°	279.9	281.9	314.4	329.8	337.5	337.5	335.5	373.9	435.2	448.7	435.2
107.5°	356.2	365.1	403.4	444.4	453.3	455.6	445.6	439.8	437.5	439.1	437.5
110°	408.4	421.8	467.8	519.6	533.0	536.9	533.0	527.3	523.4	523.4	523.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	459.0	478.6	530.7	590.2	612.8	624.3	615.9	611.6	607.8	610.9	607.8
115°	536.9	565.6	634.6	696.0	742.0	747.8	745.9	745.9	743.9	743.9	743.9
117.5°	609.0	655.0	732.4	803.8	857.1	872.4	880.1	877.8	875.5	879.3	875.5
120°	659.6	713.3	801.5	882.0	933.8	956.8	964.4	960.6	964.4	960.6	964.4
122.5°	713.3	779.2	865.9	949.5	1010.5	1036.5	1045.7	1046.5	1047.3	1045.0	1047.3
125°	793.8	874.3	975.9	1062.2	1125.5	1156.2	1163.8	1165.8	1169.6	1179.2	1169.6
127.5°	875.1	966.4	1077.9	1161.2	1226.0	1263.2	1275.0	1279.3	1287.3	1291.5	1287.3
130°	931.8	1035.4	1148.5	1227.1	1290.4	1330.7	1351.7	1357.5	1367.1	1365.2	1367.1
132.5°	991.7	1099.8	1214.5	1296.1	1354.8	1398.1	1416.2	1432.7	1436.1	1438.8	1436.1
135°	1079.5	1196.4	1311.5	1392.0	1447.6	1489.8	1512.8	1528.1	1537.7	1543.5	1537.7
137.5°	1171.9	1295.4	1405.8	1477.5	1533.5	1569.9	1596.0	1612.1	1622.1	1626.7	1622.1
140°	1234.8	1353.7	1461.0	1535.8	1585.7	1622.1	1645.1	1664.3	1675.8	1675.8	1675.8
142.5°	1294.6	1411.9	1516.3	1591.0	1634.7	1668.1	1692.6	1707.2	1720.3	1720.3	1720.3
145°	1378.6	1495.5	1591.4	1666.2	1702.6	1733.3	1760.1	1771.6	1779.3	1779.3	1779.3
147.5°	1466.4	1569.9	1657.4	1729.1	1759.8	1795.8	1816.9	1826.1	1835.7	1831.5	1835.7
150°	1518.6	1614.4	1698.8	1765.9	1796.6	1831.1	1852.2	1859.8	1869.4	1863.7	1869.4
152.5°	1569.2	1660.4	1737.1	1799.6	1825.7	1860.2	1884.4	1892.1	1898.6	1894.4	1898.6
155°	1637.4	1718.0	1788.9	1846.4	1869.4	1902.0	1925.0	1934.6	1942.3	1932.7	1942.3
157.5°	1698.4	1767.8	1829.5	1882.5	1907.0	1935.0	1956.5	1968.4	1976.0	1971.8	1976.0
160°	1735.2	1798.5	1854.1	1903.9	1927.0	1951.9	1974.9	1988.3	1996.0	1990.2	1996.0
162.5°	1765.9	1823.0	1875.6	1920.8	1940.8	1962.6	1990.2	2002.1	2009.8	2002.5	2009.8
165°	1810.0	1856.0	1902.0	1940.4	1957.6	1974.9	2003.6	2017.1	2022.8	2015.1	2022.8
167.5°	1843.4	1878.6	1915.8	1948.8	1961.5	1978.3	2007.1	2018.2	2025.5	2015.9	2025.5
170°	1861.8	1892.4	1925.0	1951.9	1961.5	1976.8	2005.6	2015.1	2020.9	2011.3	2020.9
172.5°	1877.1	1900.1	1926.6	1950.3	1955.3	1967.6	1994.8	2004.4	2008.6	2000.6	2008.6
175°	1892.4	1905.9	1925.0	1940.4	1938.5	1946.1	1969.1	1976.8	1984.5	1973.0	1984.5
177.5°	1899.7	1905.9	1912.0	1921.2	1915.1	1915.1	1931.9	1936.5	1938.1	1931.9	1938.1
180°	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
0°	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6
2.5°	1281.4	1281.4	1281.4	1281.4	1281.4	1279.2	1270.5	1261.7	1261.7	1261.7	1255.2
5°	1300.2	1297.5	1295.3	1292.0	1287.7	1280.6	1265.2	1249.9	1243.4	1236.8	1208.9
7.5°	1308.6	1305.1	1301.1	1295.9	1289.3	1279.2	1258.7	1238.1	1208.8	1179.5	1117.4
10°	1304.6	1302.4	1300.2	1295.9	1289.3	1278.4	1254.3	1230.3	1171.2	1112.1	1053.1
12.5°	1300.7	1298.5	1296.3	1291.1	1282.7	1270.1	1244.3	1218.4	1134.9	1051.3	998.0
15°	1289.9	1286.0	1281.7	1276.2	1269.6	1256.0	1221.0	1186.0	1091.9	997.9	953.0
17.5°	1270.1	1266.7	1262.7	1256.4	1247.6	1230.5	1188.0	1145.6	1047.2	948.8	919.9
20°	1249.9	1248.3	1246.1	1240.6	1231.9	1213.9	1167.9	1122.0	1023.6	925.2	912.0
22.5°	1226.8	1226.0	1225.6	1221.0	1212.2	1192.9	1141.7	1090.5	993.8	897.2	897.6
25°	1187.1	1187.6	1189.8	1184.3	1171.2	1146.6	1087.5	1028.5	943.2	857.9	872.7
27.5°	1144.6	1143.0	1140.8	1135.3	1126.6	1101.4	1027.1	952.7	885.3	818.0	842.5
30°	1117.1	1115.4	1113.2	1107.8	1099.0	1071.7	988.6	905.5	848.6	791.7	820.2
32.5°	1085.6	1085.2	1084.8	1081.1	1074.1	1044.1	945.3	846.4	805.3	764.2	793.9
35°	1037.8	1038.3	1038.3	1036.1	1031.8	998.4	878.1	757.8	740.3	722.8	757.8
37.5°	983.7	986.5	989.6	987.8	981.3	942.2	805.7	669.3	674.9	680.6	723.1
40°	944.3	949.8	956.3	956.3	949.8	907.7	758.9	610.2	629.9	649.6	695.5
42.5°	904.9	911.7	920.0	920.9	914.3	872.7	725.7	578.7	600.1	621.6	669.3
45°	845.3	853.0	861.7	862.8	856.3	818.5	687.3	556.1	569.2	582.3	628.2
47.5°	775.4	786.4	799.5	800.6	789.7	752.6	637.1	521.6	531.3	540.9	587.9
50°	732.1	743.1	756.2	757.3	746.4	709.7	596.0	482.3	495.4	508.5	557.7
52.5°	681.0	693.2	708.1	710.9	701.7	668.2	561.4	454.7	462.6	470.4	523.6
55°	608.6	621.7	637.0	641.4	634.8	607.5	517.8	428.1	421.6	415.0	469.1
57.5°	532.6	547.5	565.0	570.3	563.3	536.7	451.4	366.1	360.4	354.8	413.4
60°	484.4	500.3	517.8	522.2	513.4	487.7	411.2	334.6	323.7	312.8	374.0
62.5°	437.2	453.1	470.6	473.2	460.9	434.8	367.0	299.2	291.8	284.3	343.8
65°	366.3	382.2	399.7	400.8	385.5	359.2	300.2	241.1	245.5	249.9	303.5
67.5°	297.0	313.6	332.9	333.8	316.3	290.4	239.7	189.0	203.4	217.8	266.1
70°	253.7	269.0	286.5	286.5	269.0	245.0	201.2	157.5	177.2	196.8	241.1
72.5°	210.8	227.0	246.3	246.3	227.0	204.3	171.0	137.8	157.5	177.2	213.6
75°	156.4	170.6	188.1	185.9	164.0	142.7	123.0	103.3	123.0	142.7	170.6
77.5°	104.9	116.5	131.3	129.1	109.9	93.2	84.0	74.8	91.0	107.2	126.6
80°	73.8	83.7	96.8	94.6	77.1	63.4	61.2	59.1	70.0	80.9	95.1
82.5°	49.8	57.4	67.0	65.7	53.5	43.7	41.6	39.4	48.6	57.7	67.6
85°	19.7	23.0	27.3	27.3	23.0	19.7	19.7	19.7	24.1	28.4	32.8
87.5°	12.0	12.9	14.7	14.3	11.4	8.5	6.6	5.1	8.4	11.7	14.8
90°	40.3	38.3	38.3	36.4	30.7	23.0	13.4	5.8	13.4	21.1	34.5
92.5°	47.9	47.6	44.5	41.0	33.7	33.7	33.4	21.1	36.4	51.8	74.4
95°	44.1	44.1	51.8	65.2	95.9	97.8	65.2	59.4	84.4	118.9	149.6
97.5°	119.3	141.9	174.1	180.2	170.6	127.3	121.9	113.5	154.5	188.7	238.1
100°	220.5	249.3	272.3	226.2	178.3	176.4	164.9	161.1	205.2	237.8	285.7
102.5°	344.7	353.6	273.8	247.7	236.6	228.5	210.9	208.6	252.7	297.6	337.8
105°	373.9	335.5	337.5	337.5	329.8	314.4	281.9	279.9	329.8	381.6	431.4
107.5°	439.8	445.6	455.6	453.3	444.4	403.4	365.1	356.2	401.1	463.2	518.1
110°	527.3	533.0	536.9	533.0	519.6	467.8	421.8	408.4	448.7	513.9	573.3



TEST NUMBER: P1435841

CATALOG NUMBER: SQ2W-FA-K-125U-075D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°	190°	200°	210°
112.5°	611.6	615.9	624.3	612.8	590.2	530.7	478.6	459.0	499.3	566.0	627.0
115°	745.9	745.9	747.8	742.0	696.0	634.6	565.6	536.9	571.4	632.7	699.8
117.5°	877.8	880.1	872.4	857.1	803.8	732.4	655.0	609.0	636.2	701.0	770.0
120°	960.6	964.4	956.8	933.8	882.0	801.5	713.3	659.6	680.7	743.9	813.0
122.5°	1046.5	1045.7	1036.5	1010.5	949.5	865.9	779.2	713.3	722.1	780.8	848.2
125°	1165.8	1163.8	1156.2	1125.5	1062.2	975.9	874.3	793.8	782.3	832.1	901.2
127.5°	1279.3	1275.0	1263.2	1226.0	1161.2	1077.9	966.4	875.1	849.4	880.8	944.1
130°	1357.5	1351.7	1330.7	1290.4	1227.1	1148.5	1035.4	931.8	895.4	914.6	970.2
132.5°	1432.7	1416.2	1398.1	1354.8	1296.1	1214.5	1099.8	991.7	941.4	949.9	993.2
135°	1528.1	1512.8	1489.8	1447.6	1392.0	1311.5	1196.4	1079.5	1010.5	1002.8	1027.7
137.5°	1612.1	1596.0	1569.9	1533.5	1477.5	1405.8	1295.4	1171.9	1084.8	1059.2	1068.7
140°	1664.3	1645.1	1622.1	1585.7	1535.8	1461.0	1353.7	1234.8	1137.0	1100.6	1094.8
142.5°	1707.2	1692.6	1668.1	1634.7	1591.0	1516.3	1411.9	1294.6	1190.7	1143.5	1130.1
145°	1771.6	1760.1	1733.3	1702.6	1666.2	1591.4	1495.5	1378.6	1275.0	1213.7	1184.9
147.5°	1826.1	1816.9	1795.8	1759.8	1729.1	1657.4	1569.9	1466.4	1360.2	1284.3	1247.1
150°	1859.8	1852.2	1831.1	1796.6	1765.9	1698.8	1614.4	1518.6	1416.9	1336.4	1288.5
152.5°	1892.1	1884.4	1860.2	1825.7	1799.6	1737.1	1660.4	1569.2	1466.0	1385.5	1336.0
155°	1934.6	1925.0	1902.0	1869.4	1846.4	1788.9	1718.0	1637.4	1549.2	1464.9	1409.3
157.5°	1968.4	1956.5	1935.0	1907.0	1882.5	1829.5	1767.8	1698.4	1621.3	1540.8	1484.0
160°	1988.3	1974.9	1951.9	1927.0	1903.9	1854.1	1798.5	1735.2	1664.3	1591.4	1530.1
162.5°	2002.1	1990.2	1962.6	1940.8	1920.8	1875.6	1823.0	1765.9	1702.6	1639.0	1582.2
165°	2017.1	2003.6	1974.9	1957.6	1940.4	1902.0	1856.0	1810.0	1756.3	1704.5	1658.5
167.5°	2018.2	2007.1	1978.3	1961.5	1948.8	1915.8	1878.6	1843.4	1801.6	1760.9	1722.6
170°	2015.1	2005.6	1976.8	1961.5	1951.9	1925.0	1892.4	1861.8	1829.2	1794.7	1764.0
172.5°	2004.4	1994.8	1967.6	1955.3	1950.3	1926.6	1900.1	1877.1	1849.1	1823.8	1799.3
175°	1976.8	1969.1	1946.1	1938.5	1940.4	1925.0	1905.9	1892.4	1875.2	1859.8	1846.4
177.5°	1936.5	1931.9	1915.1	1915.1	1921.2	1912.0	1905.9	1899.7	1892.1	1887.5	1882.9
180°	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2



TEST NUMBER: P1435841

CATALOG NUMBER: SQ2W-FA-K-125U-075D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
0°	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6	1269.6
2.5°	1246.4	1239.4	1234.2	1229.8	1228.1	1226.3	1228.1	1229.8	1234.2	1239.4	1246.4
5°	1173.9	1136.8	1097.4	1065.1	1054.2	1043.3	1054.2	1065.1	1097.4	1136.8	1173.9
7.5°	1044.3	999.5	982.9	969.5	966.0	962.6	966.0	969.5	982.9	999.5	1044.3
10°	994.0	958.0	944.8	935.0	935.0	935.0	935.0	935.0	944.8	958.0	994.0
12.5°	954.7	932.6	931.7	933.2	942.0	950.7	942.0	933.2	931.7	932.6	954.7
15°	924.6	927.9	962.9	991.9	1002.8	1013.7	1002.8	991.9	962.9	927.9	924.6
17.5°	914.2	933.0	976.3	1011.0	1019.7	1028.5	1019.7	1011.0	976.3	933.0	914.2
20°	927.3	951.4	984.2	1011.0	1019.7	1028.5	1019.7	1011.0	984.2	951.4	927.3
22.5°	930.4	959.7	985.5	1007.1	1015.8	1024.6	1015.8	1007.1	985.5	959.7	930.4
25°	920.8	955.8	977.6	995.1	999.5	1003.9	999.5	995.1	977.6	955.8	920.8
27.5°	897.6	936.1	958.0	975.1	978.2	981.3	978.2	975.1	958.0	936.1	897.6
30°	877.0	916.4	938.3	956.3	962.9	969.4	962.9	956.3	938.3	916.4	877.0
32.5°	847.3	887.5	914.7	935.3	936.6	937.9	936.6	935.3	914.7	887.5	847.3
35°	810.3	851.9	882.5	904.9	902.7	900.5	902.7	904.9	882.5	851.9	810.3
37.5°	777.7	818.4	845.1	865.8	868.4	871.0	868.4	865.8	845.1	818.4	777.7
40°	750.2	791.7	820.2	842.6	847.0	851.3	847.0	842.6	820.2	791.7	750.2
42.5°	725.7	768.1	796.5	819.0	823.3	827.7	823.3	819.0	796.5	768.1	725.7
45°	685.1	728.9	759.5	783.0	785.2	787.4	785.2	783.0	759.5	728.9	685.1
47.5°	647.4	691.3	719.8	741.7	743.8	746.0	743.8	741.7	719.8	691.3	647.4
50°	619.0	663.8	692.2	714.1	716.3	718.5	716.3	714.1	692.2	663.8	619.0
52.5°	591.8	638.4	663.4	682.6	684.8	687.0	684.8	682.6	663.4	638.4	591.8
55°	543.5	592.7	616.8	634.8	634.8	634.8	634.8	634.8	616.8	592.7	543.5
57.5°	493.4	543.9	564.9	581.3	584.0	586.6	584.0	581.3	564.9	543.9	493.4
60°	459.3	510.7	528.2	542.4	546.8	551.2	546.8	542.4	528.2	510.7	459.3
62.5°	425.6	475.3	492.8	506.5	509.2	511.8	509.2	506.5	492.8	475.3	425.6
65°	373.5	417.2	434.7	448.4	450.5	452.7	450.5	448.4	434.7	417.2	373.5
67.5°	325.6	361.4	373.7	383.3	385.0	386.8	385.0	383.3	373.7	361.4	325.6
70°	293.6	324.2	333.0	339.6	339.6	339.6	339.6	339.6	333.0	324.2	293.6
72.5°	255.6	280.9	289.7	296.7	298.4	300.2	298.4	296.7	289.7	280.9	255.6
75°	201.2	219.8	226.4	231.8	234.0	236.2	234.0	231.8	226.4	219.8	201.2
77.5°	147.2	159.4	163.4	166.9	169.1	171.3	169.1	166.9	163.4	159.4	147.2
80°	110.4	119.2	121.4	123.6	125.8	127.9	125.8	123.6	121.4	119.2	110.4
82.5°	77.6	83.8	86.0	87.7	88.1	88.6	88.1	87.7	86.0	83.8	77.6
85°	37.2	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	37.2
87.5°	16.7	19.4	22.1	23.6	25.1	24.4	25.1	23.6	22.1	19.4	16.7
90°	44.1	57.5	70.9	78.6	86.3	82.4	86.3	78.6	70.9	57.5	44.1
92.5°	88.6	111.2	127.7	141.5	147.6	146.9	147.6	141.5	127.7	111.2	88.6
95°	178.3	205.2	232.0	251.2	262.7	258.8	262.7	251.2	232.0	205.2	178.3
97.5°	275.0	311.0	340.9	358.9	370.4	378.1	370.4	358.9	340.9	311.0	275.0
100°	339.4	373.9	408.4	429.5	448.7	456.3	448.7	429.5	408.4	373.9	339.4
102.5°	391.5	436.8	474.4	497.0	513.1	520.8	513.1	497.0	474.4	436.8	391.5
105°	477.4	525.4	565.6	594.4	611.6	617.4	611.6	594.4	565.6	525.4	477.4
107.5°	563.3	612.8	650.0	681.8	702.9	715.2	702.9	681.8	650.0	612.8	563.3
110°	630.8	671.1	711.3	740.1	761.2	768.9	761.2	740.1	711.3	671.1	630.8



TEST NUMBER: P1435841

CATALOG NUMBER: SQ2W-FA-K-125U-075D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	220°	230°	240°	250°	260°	270°	280°	290°	300°	310°	320°
112.5°	687.6	732.4	772.7	801.5	825.6	836.4	825.6	801.5	772.7	732.4	687.6
115°	766.9	826.4	862.8	889.7	906.9	916.5	906.9	889.7	862.8	826.4	766.9
117.5°	832.9	895.0	934.9	955.6	963.7	970.6	963.7	955.6	934.9	895.0	832.9
120°	874.3	931.8	977.9	1004.7	1014.3	1018.1	1014.3	1004.7	977.9	931.8	874.3
122.5°	912.7	967.1	1011.6	1044.6	1060.3	1064.1	1060.3	1044.6	1011.6	967.1	912.7
125°	966.4	1018.1	1064.1	1096.7	1114.0	1123.6	1114.0	1096.7	1064.1	1018.1	966.4
127.5°	1013.1	1069.1	1111.3	1140.8	1157.7	1165.4	1157.7	1140.8	1111.3	1069.1	1013.1
130°	1039.2	1096.7	1138.9	1171.5	1186.8	1194.5	1186.8	1171.5	1138.9	1096.7	1039.2
132.5°	1059.2	1119.7	1163.5	1193.0	1209.9	1217.5	1209.9	1193.0	1163.5	1119.7	1059.2
135°	1083.3	1146.6	1192.6	1221.4	1236.7	1244.4	1236.7	1221.4	1192.6	1146.6	1083.3
137.5°	1104.4	1161.9	1209.9	1240.2	1254.0	1258.9	1254.0	1240.2	1209.9	1161.9	1104.4
140°	1119.7	1169.6	1217.5	1246.3	1261.6	1263.5	1261.6	1246.3	1217.5	1169.6	1119.7
142.5°	1139.7	1178.8	1220.6	1249.4	1264.7	1268.1	1264.7	1249.4	1220.6	1178.8	1139.7
145°	1175.3	1198.4	1227.1	1254.0	1267.4	1271.2	1267.4	1254.0	1227.1	1198.4	1175.3
147.5°	1220.2	1227.5	1242.5	1260.1	1273.1	1275.8	1273.1	1260.1	1242.5	1227.5	1220.2
150°	1254.0	1252.0	1257.8	1269.3	1280.8	1278.9	1280.8	1269.3	1257.8	1252.0	1254.0
152.5°	1292.3	1281.2	1280.8	1286.2	1291.5	1291.2	1291.5	1286.2	1280.8	1281.2	1292.3
155°	1357.5	1336.4	1324.9	1321.1	1321.1	1319.1	1321.1	1321.1	1324.9	1336.4	1357.5
157.5°	1429.2	1399.7	1382.4	1373.2	1370.5	1366.3	1370.5	1373.2	1382.4	1399.7	1429.2
160°	1478.3	1445.7	1428.4	1413.1	1407.3	1401.6	1407.3	1413.1	1428.4	1445.7	1478.3
162.5°	1524.3	1493.2	1474.5	1460.6	1454.9	1446.1	1454.9	1460.6	1474.5	1493.2	1524.3
165°	1599.1	1566.5	1545.4	1533.9	1526.2	1518.6	1526.2	1533.9	1545.4	1566.5	1599.1
167.5°	1673.9	1638.2	1624.4	1611.4	1604.1	1590.3	1604.1	1611.4	1624.4	1638.2	1673.9
170°	1719.9	1687.3	1679.6	1668.1	1654.7	1639.3	1654.7	1668.1	1679.6	1687.3	1719.9
172.5°	1759.8	1737.9	1730.2	1718.7	1714.5	1702.2	1714.5	1718.7	1730.2	1737.9	1759.8
175°	1817.7	1800.4	1800.4	1798.5	1792.7	1781.2	1792.7	1798.5	1800.4	1800.4	1817.7
177.5°	1866.0	1856.8	1862.9	1862.9	1861.4	1850.6	1861.4	1862.9	1862.9	1856.8	1866.0
180°	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2	1898.2



TEST NUMBER: P1435841

CATALOG NUMBER: SQ2W-FA-K-125U-075D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
0°	1269.6	1269.6	1269.6	1269.6
2.5°	1255.2	1261.7	1261.7	1261.7
5°	1208.9	1236.8	1243.4	1249.9
7.5°	1117.4	1179.5	1208.8	1238.1
10°	1053.1	1112.1	1171.2	1230.3
12.5°	998.0	1051.3	1134.9	1218.4
15°	953.0	997.9	1091.9	1186.0
17.5°	919.9	948.8	1047.2	1145.6
20°	912.0	925.2	1023.6	1122.0
22.5°	897.6	897.2	993.8	1090.5
25°	872.7	857.9	943.2	1028.5
27.5°	842.5	818.0	885.3	952.7
30°	820.2	791.7	848.6	905.5
32.5°	793.9	764.2	805.3	846.4
35°	757.8	722.8	740.3	757.8
37.5°	723.1	680.6	674.9	669.3
40°	695.5	649.6	629.9	610.2
42.5°	669.3	621.6	600.1	578.7
45°	628.2	582.3	569.2	556.1
47.5°	587.9	540.9	531.3	521.6
50°	557.7	508.5	495.4	482.3
52.5°	523.6	470.4	462.6	454.7
55°	469.1	415.0	421.6	428.1
57.5°	413.4	354.8	360.4	366.1
60°	374.0	312.8	323.7	334.6
62.5°	343.8	284.3	291.8	299.2
65°	303.5	249.9	245.5	241.1
67.5°	266.1	217.8	203.4	189.0
70°	241.1	196.8	177.2	157.5
72.5°	213.6	177.2	157.5	137.8
75°	170.6	142.7	123.0	103.3
77.5°	126.6	107.2	91.0	74.8
80°	95.1	80.9	70.0	59.1
82.5°	67.6	57.7	48.6	39.4
85°	32.8	28.4	24.1	19.7
87.5°	14.8	11.7	8.4	5.1
90°	34.5	21.1	13.4	5.8
92.5°	74.4	51.8	36.4	21.1
95°	149.6	118.9	84.4	59.4
97.5°	238.1	188.7	154.5	113.5
100°	285.7	237.8	205.2	161.1
102.5°	337.8	297.6	252.7	208.6
105°	431.4	381.6	329.8	279.9
107.5°	518.1	463.2	401.1	356.2
110°	573.3	513.9	448.7	408.4



TEST NUMBER: P1435841

CATALOG NUMBER: SQ2W-FA-K-125U-075D-L830-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	330°	340°	350°	360°
112.5°	627.0	566.0	499.3	459.0
115°	699.8	632.7	571.4	536.9
117.5°	770.0	701.0	636.2	609.0
120°	813.0	743.9	680.7	659.6
122.5°	848.2	780.8	722.1	713.3
125°	901.2	832.1	782.3	793.8
127.5°	944.1	880.8	849.4	875.1
130°	970.2	914.6	895.4	931.8
132.5°	993.2	949.9	941.4	991.7
135°	1027.7	1002.8	1010.5	1079.5
137.5°	1068.7	1059.2	1084.8	1171.9
140°	1094.8	1100.6	1137.0	1234.8
142.5°	1130.1	1143.5	1190.7	1294.6
145°	1184.9	1213.7	1275.0	1378.6
147.5°	1247.1	1284.3	1360.2	1466.4
150°	1288.5	1336.4	1416.9	1518.6
152.5°	1336.0	1385.5	1466.0	1569.2
155°	1409.3	1464.9	1549.2	1637.4
157.5°	1484.0	1540.8	1621.3	1698.4
160°	1530.1	1591.4	1664.3	1735.2
162.5°	1582.2	1639.0	1702.6	1765.9
165°	1658.5	1704.5	1756.3	1810.0
167.5°	1722.6	1760.9	1801.6	1843.4
170°	1764.0	1794.7	1829.2	1861.8
172.5°	1799.3	1823.8	1849.1	1877.1
175°	1846.4	1859.8	1875.2	1892.4
177.5°	1882.9	1887.5	1892.1	1899.7
180°	1898.2	1898.2	1898.2	1898.2



TEST NUMBER: P1435841
 CATALOG NUMBER: SQ2W-FA-K-125U-075D-L830-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	15.45	16.20	16.52	17.27	18.72	16.65	17.40	17.72	18.47	19.92
	3H	16.53	17.20	17.61	18.28	19.75	17.89	18.56	18.96	19.63	21.11
	4H	16.88	17.51	17.97	18.59	20.07	18.27	18.91	19.36	19.99	21.46
	6H	17.03	17.62	18.13	18.70	20.19	18.42	19.01	19.52	20.09	21.58
	8H	17.06	17.62	18.17	18.72	20.21	18.45	19.00	19.55	20.10	21.59
	12H	17.06	17.59	18.16	18.68	20.19	18.43	18.96	19.53	20.05	21.56
4H	2H	16.31	16.94	17.40	18.02	19.50	17.22	17.86	18.31	18.93	20.41
	3H	17.68	18.21	18.78	19.32	20.81	18.67	19.20	19.77	20.31	21.80
	4H	18.13	18.62	19.24	19.72	21.23	19.14	19.63	20.25	20.73	22.24
	6H	18.36	18.77	19.47	19.89	21.40	19.36	19.78	20.47	20.90	22.40
	8H	18.41	18.80	19.52	19.91	21.43	19.41	19.79	20.52	20.91	22.43
	12H	18.41	18.76	19.54	19.88	21.41	19.39	19.74	20.52	20.86	22.39
8H	4H	18.51	18.90	19.62	20.01	21.53	19.33	19.72	20.44	20.83	22.35
	6H	18.85	19.17	19.99	20.33	21.85	19.64	19.96	20.77	21.11	22.63
	8H	18.97	19.25	20.11	20.38	21.92	19.73	20.02	20.88	21.15	22.69
	12H	19.00	19.25	20.15	20.38	21.95	19.74	19.99	20.89	21.12	22.70
12H	4H	18.51	18.86	19.64	19.98	21.51	19.29	19.65	20.42	20.77	22.30
	6H	18.92	19.20	20.06	20.34	21.88	19.66	19.94	20.80	21.07	22.61
	8H	19.06	19.31	20.21	20.44	22.01	19.77	20.01	20.91	21.14	22.72