

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: P853814

Luminaire Tested: SQ2-FA-150U-050D-940-UNV-STD-W-4

Issue Date: 7/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P853814  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-14, G2-2308-131-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2-FA-150U-050D-940-UNV-STD-W-4  
Description: CORELITE SQ2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: -

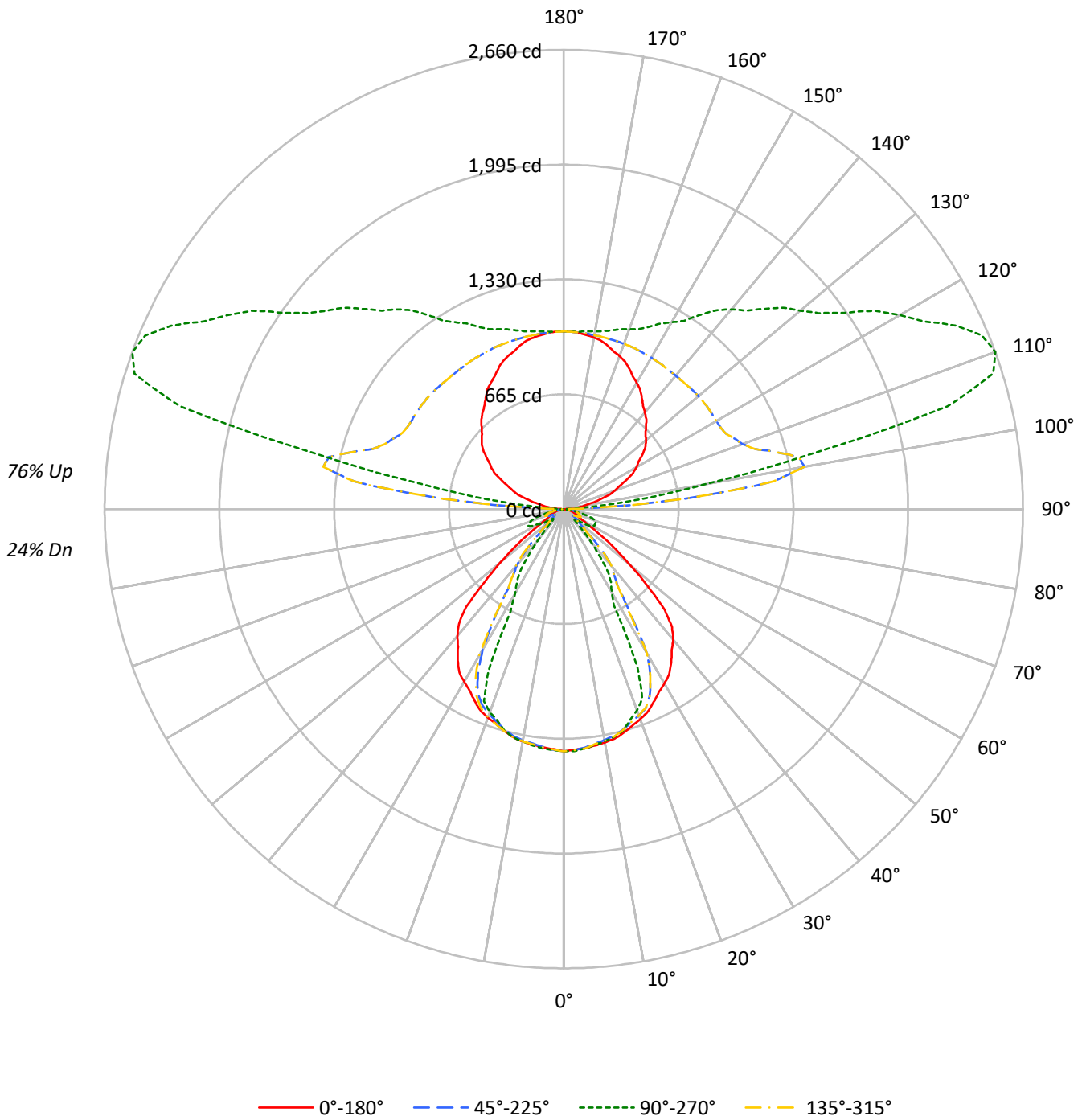
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8401.5 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 0.95 / 0.95  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 74.4  
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24
1	93	89	85	82	82	79	76	73	61	59	58	45	44	43	30	29	28	22
2	85	78	72	68	75	70	65	61	54	51	49	40	38	36	27	26	25	19
3	78	69	63	57	69	62	56	52	48	45	42	36	34	32	24	23	22	17
4	71	62	54	49	63	55	49	45	44	39	36	33	30	28	22	21	20	15
5	66	55	48	42	59	50	43	39	39	35	31	30	27	24	20	19	18	14
6	61	50	42	37	54	45	38	34	36	31	28	27	24	22	19	17	16	13
7	56	45	38	33	50	41	34	30	32	28	25	25	22	20	18	16	14	12
8	52	41	34	29	47	37	31	27	30	25	22	23	20	18	16	15	13	11
9	49	37	31	26	44	34	28	24	27	23	20	21	18	16	15	13	12	10
10	45	34	28	23	41	31	25	22	25	21	18	20	17	15	14	12	11	9

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

	0°	90°	180°	270°
0°	22646	22646	22646	22646
5°	22527	22561	22441	22545
10°	22492	22405	22405	22405
15°	22420	22190	22243	22190
20°	22246	21301	22082	21500
25°	21953	17977	21802	18355
30°	21752	10314	21515	10452
35°	21370	8862	21100	8736
40°	20778	4660	20198	4616
45°	18888	2005	18212	2005
50°	12461	2419	11823	2258
55°	6967	4467	6609	4051
60°	3759	6284	3688	5635
65°	3312	7637	3477	8688
70°	3097	9139	2946	9640
75°	2901	7854	2969	8116
80°	2455	5607	2455	5904
85°	2149	3131	1964	3724

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18888 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.0	1.6
10°-20°	374.5	4.5
20°-30°	510.6	6.1
30°-40°	429.1	5.1
40°-50°	243.7	2.9
50°-60°	129.3	1.5
60°-70°	119.0	1.4
70°-80°	87.4	1.0
80°-90°	24.0	0.3
90°-100°	392.1	4.7
100°-110°	1284.0	15.3
110°-120°	1269.4	15.1
120°-130°	1037.7	12.4
130°-140°	846.8	10.1
140°-150°	659.0	7.8
150°-160°	474.5	5.6
160°-170°	290.3	3.5
170°-180°	98.1	1.2
0°-30°	1017.0	12.1
0°-40°	1446.1	17.2
0°-60°	1819.1	21.7
0°-90°	2049.5	24.4
90°-120°	2945.6	35.1
90°-150°	5489.1	65.3
90°-180°	6352.0	75.6
0°-180°	8401.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1403	1403	1403	1403	1403	
5°	1390	1392	1385	1391	1390	132
15°	1341	1328	1331	1328	1341	378
25°	1232	1009	1224	1030	1232	568
35°	1084	450	1070	443	1084	677
45°	827	88	798	88	827	605
55°	248	159	235	144	248	238
65°	87	200	91	227	87	87
75°	46	126	48	130	46	48
85°	12	17	11	20	12	13
90°	1	8	1	8	1	3
95°	55	165	55	165	55	62
105°	223	2300	223	2300	223	235
115°	402	2512	402	2512	402	397
125°	560	1982	560	1982	560	498
135°	674	1640	674	1640	674	521
145°	788	1372	788	1372	788	494
155°	898	1164	898	1164	898	413
165°	980	1071	980	1071	980	276
175°	1025	1031	1025	1031	1025	97
180°	1029	1029	1029	1029	1029	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1402.6	1402.6	1402.6	1402.6	1402.6	1402.6	1402.6	1402.6	1402.6	1402.6	1402.6
2.5°	1395.0	1415.7	1397.5	1395.2	1402.6	1401.0	1398.4	1408.2	1391.6	1408.2	1395.0
5°	1389.9	1413.7	1386.7	1379.6	1392.0	1383.8	1391.0	1405.3	1384.6	1403.2	1382.5
7.5°	1381.2	1402.3	1370.0	1365.4	1377.6	1370.4	1373.4	1393.3	1376.0	1388.2	1369.4
10°	1371.9	1390.6	1358.2	1355.3	1366.6	1359.4	1362.4	1383.2	1366.6	1378.0	1359.2
12.5°	1361.8	1376.3	1343.8	1342.5	1352.3	1347.5	1348.9	1366.3	1353.1	1364.5	1346.5
15°	1341.3	1354.7	1322.2	1317.2	1327.5	1323.4	1325.4	1341.0	1330.7	1337.9	1322.2
17.5°	1315.9	1326.6	1294.3	1279.1	1279.5	1284.7	1294.3	1313.1	1303.8	1313.3	1291.1
20°	1294.7	1307.1	1271.4	1241.8	1239.7	1244.9	1271.4	1290.4	1285.2	1295.5	1264.0
22.5°	1270.2	1278.4	1246.1	1196.0	1188.9	1194.1	1242.7	1265.1	1263.2	1270.2	1231.0
25°	1232.3	1240.6	1181.5	1109.4	1009.1	1103.2	1183.6	1223.8	1223.8	1230.1	1178.4
27.5°	1193.8	1194.0	1087.2	712.5	628.5	686.9	1085.7	1172.9	1182.8	1179.7	1078.1
30°	1166.7	1159.5	963.6	576.0	553.2	567.7	964.7	1137.5	1154.0	1142.7	939.3
32.5°	1135.4	1114.9	711.5	529.5	510.9	523.7	688.0	1095.5	1124.4	1099.8	738.7
35°	1084.2	1030.4	542.6	468.2	449.6	466.1	538.4	1012.5	1070.5	1004.3	560.6
37.5°	1029.0	819.0	477.7	372.9	332.8	364.8	475.4	810.3	1006.6	791.5	477.3
40°	985.8	643.5	429.5	272.8	221.1	257.3	426.3	613.9	958.3	660.5	418.9
42.5°	928.3	565.3	344.8	173.3	135.6	158.6	330.7	552.2	899.1	572.3	333.4
45°	827.2	485.9	204.2	95.0	87.8	91.9	188.3	476.9	797.6	466.6	208.4
47.5°	655.2	370.6	131.2	80.8	88.6	80.8	127.1	358.8	618.8	358.2	131.0
50°	496.1	289.2	101.5	81.8	96.3	81.8	98.4	279.4	470.7	305.2	100.5
52.5°	367.5	241.7	82.9	89.7	115.7	91.3	80.6	235.3	348.9	246.3	78.5
55°	247.5	189.6	66.6	118.3	158.7	121.4	66.6	184.1	234.8	182.1	64.5
57.5°	157.0	141.0	67.5	152.1	181.1	155.0	68.5	135.9	150.6	136.6	59.2
60°	116.4	111.2	75.1	161.5	194.6	163.6	76.2	107.0	114.2	106.0	63.5
62.5°	96.0	87.6	90.3	174.9	202.2	170.4	92.2	83.5	99.9	80.0	70.2
65°	86.7	56.7	106.8	177.2	199.9	177.2	107.9	53.7	91.0	57.9	95.2
67.5°	78.3	42.1	103.2	176.0	201.2	176.4	100.7	40.1	75.1	39.1	97.3
70°	65.6	37.7	97.3	179.1	193.6	172.9	97.3	36.6	62.4	35.5	114.2
72.5°	54.6	35.8	90.5	165.4	171.6	159.2	91.4	35.6	54.8	32.0	107.5
75°	46.5	35.2	86.7	132.1	125.9	125.9	84.6	34.2	47.6	32.1	83.6
77.5°	34.9	31.2	71.9	86.2	81.4	81.4	70.7	30.1	33.2	28.2	67.9
80°	26.4	28.5	59.2	63.4	60.3	60.3	57.1	27.5	26.4	26.4	56.1
82.5°	20.5	24.2	45.7	46.5	44.2	43.4	44.4	24.0	20.5	22.2	43.4
85°	11.6	16.8	24.3	20.0	16.9	15.9	23.3	15.7	10.6	15.7	23.3
87.5°	4.4	8.2	5.1	4.9	5.1	4.9	5.1	8.2	4.4	7.3	5.9
90°	1.1	3.1	8.5	7.4	8.5	7.4	8.5	3.1	1.1	3.1	8.5
92.5°	18.0	65.6	201.4	65.5	52.5	65.5	201.4	65.6	18.0	65.6	201.4
95°	55.0	159.5	712.9	253.9	165.0	253.9	712.9	159.5	55.0	159.5	712.9
97.5°	99.8	210.3	1223.1	739.9	458.6	739.9	1223.1	210.3	99.8	210.3	1223.1
100°	131.2	236.6	1415.2	1263.8	837.7	1263.8	1415.2	236.6	131.2	236.6	1415.2
102.5°	166.7	269.7	1394.0	1862.2	1443.5	1862.2	1394.0	269.7	166.7	269.7	1394.0
105°	223.2	318.3	1274.5	2421.5	2300.5	2421.5	1274.5	318.3	223.2	318.3	1274.5
107.5°	278.8	366.1	1158.0	2473.8	2606.8	2473.8	1158.0	366.1	278.8	366.1	1158.0
110°	315.2	400.0	1102.1	2412.9	2660.1	2412.9	1102.1	400.0	315.2	400.0	1102.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	349.9	432.2	1068.3	2307.0	2623.7	2307.0	1068.3	432.2	349.9	432.2	1068.3
115°	401.9	480.5	1035.5	2139.7	2512.0	2139.7	1035.5	480.5	401.9	480.5	1035.5
117.5°	452.5	525.9	1023.0	1975.3	2353.4	1975.3	1023.0	525.9	452.5	525.9	1023.0
120°	485.5	554.8	1019.6	1879.4	2247.6	1879.4	1019.6	554.8	485.5	554.8	1019.6
122.5°	515.1	582.7	1019.6	1796.7	2138.4	1796.7	1019.6	582.7	515.1	582.7	1019.6
125°	559.5	623.6	1020.7	1687.4	1982.1	1687.4	1020.7	623.6	559.5	623.6	1020.7
127.5°	597.2	662.5	1019.4	1606.7	1863.2	1606.7	1019.4	662.5	597.2	662.5	1019.4
130°	620.9	687.1	1018.6	1558.0	1789.6	1558.0	1018.6	687.1	620.9	687.1	1018.6
132.5°	642.0	709.9	1016.0	1516.0	1726.1	1516.0	1016.0	709.9	642.0	709.9	1016.0
135°	673.7	745.1	1012.2	1455.4	1640.5	1455.4	1012.2	745.1	673.7	745.1	1012.2
137.5°	707.2	777.9	1009.9	1392.1	1559.5	1392.1	1009.9	777.9	707.2	777.9	1009.9
140°	730.9	799.1	1009.0	1352.2	1510.4	1352.2	1009.0	799.1	730.9	799.1	1009.0
142.5°	754.6	818.7	1009.0	1309.5	1452.8	1309.5	1009.0	818.7	754.6	818.7	1009.0
145°	788.0	845.9	1010.1	1251.9	1371.8	1251.9	1010.1	845.9	788.0	845.9	1010.1
147.5°	823.1	871.3	1011.6	1201.7	1292.3	1201.7	1011.6	871.3	823.1	871.3	1011.6
150°	845.1	887.5	1013.3	1172.6	1249.1	1172.6	1013.3	887.5	845.1	887.5	1013.3
152.5°	867.1	904.5	1014.1	1148.6	1211.9	1148.6	1014.1	904.5	867.1	904.5	1014.1
155°	898.0	928.0	1016.4	1120.0	1163.5	1120.0	1016.4	928.0	898.0	928.0	1016.4
157.5°	925.7	947.4	1018.8	1097.5	1129.0	1097.5	1018.8	947.4	925.7	947.4	1018.8
160°	943.5	961.0	1019.6	1084.7	1109.5	1084.7	1019.6	961.0	943.5	961.0	1019.6
162.5°	958.7	973.0	1019.6	1074.4	1092.6	1074.4	1019.6	973.0	958.7	973.0	1019.6
165°	980.5	989.8	1020.7	1060.1	1071.4	1060.1	1020.7	989.8	980.5	989.8	1020.7
167.5°	998.9	1003.4	1021.9	1048.9	1055.2	1048.9	1021.9	1003.4	998.9	1003.4	1021.9
170°	1009.0	1011.1	1022.8	1042.9	1045.0	1042.9	1022.8	1011.1	1009.0	1011.1	1022.8
172.5°	1016.7	1017.9	1025.3	1038.7	1039.1	1038.7	1025.3	1017.9	1016.7	1017.9	1025.3
175°	1024.9	1024.9	1026.0	1033.3	1031.2	1033.3	1026.0	1024.9	1024.9	1024.9	1026.0
177.5°	1029.1	1028.3	1027.4	1032.4	1029.1	1032.4	1027.4	1028.3	1029.1	1028.3	1027.4
180°	1029.1	1029.1	1029.1	1029.1	1029.1	1029.1	1029.1	1029.1	1029.1	1029.1	1029.1



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1402.6	1402.6	1402.6	1402.6	1402.6	1402.6
2.5°	1391.7	1397.5	1397.5	1394.1	1410.7	1395.0
5°	1377.5	1391.0	1384.8	1384.6	1405.4	1389.9
7.5°	1367.6	1380.2	1374.4	1373.2	1393.7	1381.2
10°	1357.3	1366.6	1362.5	1365.6	1384.3	1371.9
12.5°	1343.0	1354.0	1349.8	1354.6	1371.7	1361.8
15°	1318.2	1327.5	1329.6	1331.7	1351.6	1341.3
17.5°	1277.3	1281.8	1292.2	1306.8	1327.5	1315.9
20°	1245.1	1251.3	1257.6	1283.1	1307.1	1294.7
22.5°	1208.6	1206.5	1221.0	1250.9	1280.9	1270.2
25°	1109.9	1030.3	1118.2	1195.3	1235.4	1232.3
27.5°	772.8	670.6	761.0	1103.3	1187.6	1193.8
30°	608.2	560.6	607.2	984.8	1152.2	1166.7
32.5°	540.0	507.3	535.6	749.5	1107.7	1135.4
35°	466.0	443.2	466.0	560.6	1020.1	1084.2
37.5°	373.0	326.4	372.1	484.5	824.6	1029.0
40°	277.9	219.0	269.6	433.7	659.0	985.8
42.5°	185.2	141.1	175.2	341.4	570.0	928.3
45°	100.2	87.8	96.1	206.3	465.2	827.2
47.5°	78.6	83.1	78.6	130.1	355.9	655.2
50°	75.4	89.9	75.4	100.5	294.4	496.1
52.5°	82.2	97.5	81.4	79.3	240.3	367.5
55°	93.2	143.9	94.2	64.5	176.2	247.5
57.5°	132.7	161.8	134.1	61.1	135.7	157.0
60°	136.3	174.5	135.2	64.5	105.0	116.4
62.5°	161.2	216.0	161.0	73.8	78.0	96.0
65°	206.7	227.4	208.8	94.1	55.7	86.7
67.5°	196.2	210.9	194.2	100.9	38.4	78.3
70°	192.8	204.2	190.7	115.3	35.6	65.6
72.5°	179.9	181.3	176.1	106.8	32.0	54.6
75°	139.4	130.1	134.2	92.0	32.1	46.5
77.5°	86.7	82.9	83.6	70.2	28.3	34.9
80°	65.5	63.5	62.4	59.2	26.4	26.4
82.5°	48.6	46.5	45.5	45.7	22.2	20.5
85°	22.2	20.1	19.1	26.4	15.8	11.6
87.5°	5.7	5.9	4.9	5.9	6.5	4.4
90°	7.4	8.5	7.4	8.5	3.1	1.1
92.5°	65.5	52.5	65.5	201.4	65.6	18.0
95°	253.9	165.0	253.9	712.9	159.5	55.0
97.5°	739.9	458.6	739.9	1223.1	210.3	99.8
100°	1263.8	837.7	1263.8	1415.2	236.6	131.2
102.5°	1862.2	1443.5	1862.2	1394.0	269.7	166.7
105°	2421.5	2300.5	2421.5	1274.5	318.3	223.2
107.5°	2473.8	2606.8	2473.8	1158.0	366.1	278.8
110°	2412.9	2660.1	2412.9	1102.1	400.0	315.2





TEST NUMBER: P853814

CATALOG NUMBER: SQ2-FA-150U-050D-940-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	2307.0	2623.7	2307.0	1068.3	432.2	349.9
115°	2139.7	2512.0	2139.7	1035.5	480.5	401.9
117.5°	1975.3	2353.4	1975.3	1023.0	525.9	452.5
120°	1879.4	2247.6	1879.4	1019.6	554.8	485.5
122.5°	1796.7	2138.4	1796.7	1019.6	582.7	515.1
125°	1687.4	1982.1	1687.4	1020.7	623.6	559.5
127.5°	1606.7	1863.2	1606.7	1019.4	662.5	597.2
130°	1558.0	1789.6	1558.0	1018.6	687.1	620.9
132.5°	1516.0	1726.1	1516.0	1016.0	709.9	642.0
135°	1455.4	1640.5	1455.4	1012.2	745.1	673.7
137.5°	1392.1	1559.5	1392.1	1009.9	777.9	707.2
140°	1352.2	1510.4	1352.2	1009.0	799.1	730.9
142.5°	1309.5	1452.8	1309.5	1009.0	818.7	754.6
145°	1251.9	1371.8	1251.9	1010.1	845.9	788.0
147.5°	1201.7	1292.3	1201.7	1011.6	871.3	823.1
150°	1172.6	1249.1	1172.6	1013.3	887.5	845.1
152.5°	1148.6	1211.9	1148.6	1014.1	904.5	867.1
155°	1120.0	1163.5	1120.0	1016.4	928.0	898.0
157.5°	1097.5	1129.0	1097.5	1018.8	947.4	925.7
160°	1084.7	1109.5	1084.7	1019.6	961.0	943.5
162.5°	1074.4	1092.6	1074.4	1019.6	973.0	958.7
165°	1060.1	1071.4	1060.1	1020.7	989.8	980.5
167.5°	1048.9	1055.2	1048.9	1021.9	1003.4	998.9
170°	1042.9	1045.0	1042.9	1022.8	1011.1	1009.0
172.5°	1038.7	1039.1	1038.7	1025.3	1017.9	1016.7
175°	1033.3	1031.2	1033.3	1026.0	1024.9	1024.9
177.5°	1032.4	1029.1	1032.4	1027.4	1028.3	1029.1
180°	1029.1	1029.1	1029.1	1029.1	1029.1	1029.1



TEST NUMBER: P853814

CATALOG NUMBER: SQ2-FA-150U-050D-940-UNV-STD-W-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	7.64	8.27	8.80	9.41	11.01	6.50	7.12	7.66	8.26	9.87
	3H	8.33	8.89	9.50	10.04	11.66	12.64	13.20	13.81	14.35	15.96
	4H	8.73	9.27	9.91	10.41	12.03	13.91	14.44	15.08	15.59	17.21
	6H	9.08	9.57	10.26	10.72	12.35	14.50	15.00	15.69	16.15	17.78
	8H	9.19	9.66	10.38	10.82	12.44	14.62	15.09	15.81	16.25	17.88
	12H	9.26	9.70	10.44	10.86	12.50	14.66	15.10	15.85	16.26	17.90
4H	2H	8.02	8.55	9.20	9.70	11.32	7.01	7.54	8.20	8.69	10.31
	3H	9.00	9.45	10.19	10.62	12.25	13.32	13.77	14.51	14.94	16.57
	4H	9.56	9.97	10.75	11.13	12.78	14.77	15.18	15.96	16.34	17.99
	6H	10.02	10.37	11.22	11.56	13.20	15.50	15.85	16.69	17.03	18.67
	8H	10.19	10.52	11.38	11.69	13.35	15.66	15.99	16.85	17.16	18.82
	12H	10.30	10.59	11.50	11.78	13.44	15.71	16.01	16.92	17.20	18.86
8H	4H	10.65	10.97	11.84	12.15	13.80	14.88	15.21	16.07	16.38	18.04
	6H	11.25	11.52	12.46	12.74	14.39	15.76	16.02	16.97	17.24	18.89
	8H	11.49	11.72	12.70	12.91	14.59	16.01	16.24	17.22	17.44	19.11
	12H	11.65	11.85	12.86	13.04	14.75	16.12	16.32	17.34	17.52	19.22
12H	4H	10.78	11.08	11.99	12.27	13.92	14.83	15.13	16.04	16.32	17.98
	6H	11.53	11.76	12.74	12.95	14.63	15.77	16.00	16.98	17.19	18.87
	8H	11.81	12.02	13.03	13.21	14.92	16.04	16.24	17.25	17.43	19.14