

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: P1191338

Luminaire Tested: SQ2-FA-100U-100D-L930-UNV-STD-W-4

Issue Date: 9/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1191338
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-9, G2-2502-345-2)
Test Lab: INNOVATION CENTER
Issue Date: 9/23/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2-FA-100U-100D-L930-UNV-STD-W-4
Description: CORELITE SQ2 LED LUMINAIRE
FROSTED CONTINUOUS ASYMMETRIC ROLL LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

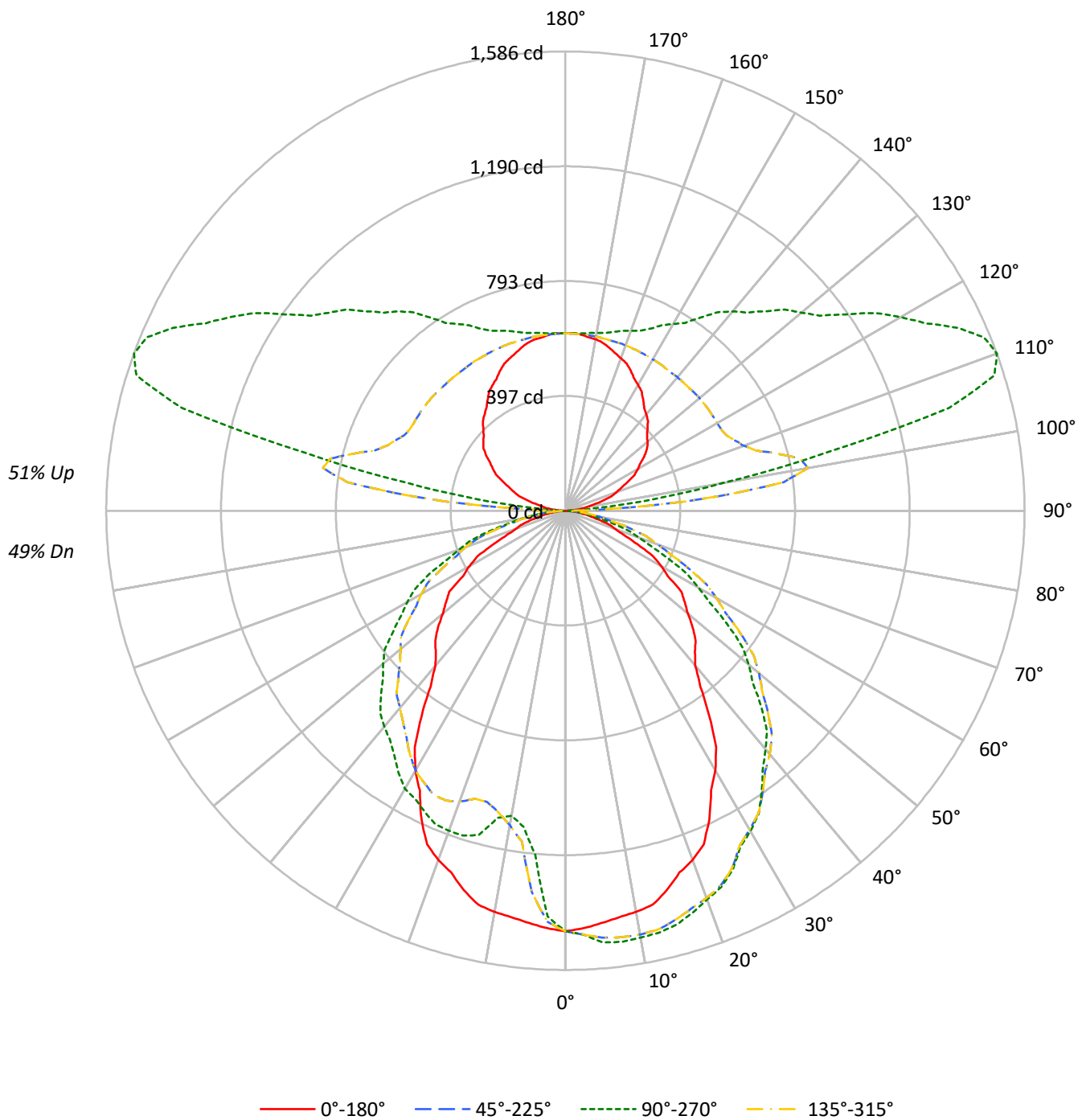
Lumens per Lamp: N/A
Luminaire Lumens: 7419.4 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 70.2
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

TEST NUMBER: P1191338

CATALOG NUMBER: SQ2-FA-100U-100D-L930-UNV-STD-W-4

Luminous Intensity Polar Plot



TEST NUMBER: P1191338

CATALOG NUMBER: SQ2-FA-100U-100D-L930-UNV-STD-W-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39
3	81	72	64	59	74	66	60	55	56	51	47	47	43	40	38	36	33
4	74	63	56	50	68	59	52	46	50	45	40	42	38	35	34	31	29
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25
6	63	51	43	37	58	47	40	35	40	35	30	34	29	26	28	25	22
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18
9	50	38	30	25	46	35	29	24	30	25	21	26	22	18	21	18	16
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	23445	23445	23445	23445
5°	23170	24264	23170	19339
10°	23069	24545	23069	17533
15°	22673	24742	22673	19380
20°	22050	24563	22050	20211
25°	20956	24366	20956	20455
30°	19307	23819	19307	20672
35°	17085	23296	17085	20302
40°	14710	22658	14710	20523
45°	14522	21847	14522	20562
50°	13855	20783	13855	20640
55°	13785	19170	13785	20439
60°	12358	17086	12358	20357
65°	10537	15052	10537	19782
70°	8502	12755	8502	18335
75°	7374	10530	7374	16856
80°	6276	7848	6276	13603
85°	4168	4168	4168	8336

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 22619 cd/sqm

TEST NUMBER: P1191338

CATALOG NUMBER: SQ2-FA-100U-100D-L930-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	1.8
10°-20°	365.1	4.9
20°-30°	554.5	7.5
30°-40°	650.9	8.8
40°-50°	660.5	8.9
50°-60°	578.6	7.8
60°-70°	410.5	5.5
70°-80°	211.4	2.8
80°-90°	45.4	0.6
90°-100°	255.8	3.4
100°-110°	773.7	10.4
110°-120°	755.2	10.2
120°-130°	617.2	8.3
130°-140°	503.8	6.8
140°-150°	392.2	5.3
150°-160°	282.7	3.8
160°-170°	173.1	2.3
170°-180°	58.4	0.8
0°-30°	1050.2	14.2
0°-40°	1701.1	22.9
0°-60°	2940.2	39.6
0°-90°	3607.4	48.6
90°-120°	1784.7	24.1
90°-150°	3297.8	44.4
90°-180°	3812.0	51.4
0°-180°	7419.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1452	1452	1452	1452	1452	
5°	1430	1497	1430	1193	1430	136
15°	1356	1480	1356	1159	1356	381
25°	1176	1368	1176	1148	1176	537
35°	867	1182	867	1030	867	540
45°	636	957	636	900	636	486
55°	490	681	490	726	490	424
65°	276	394	276	518	276	275
75°	118	169	118	270	118	128
85°	22	22	22	45	22	28
90°	0	6	0	6	0	2
95°	32	112	32	112	32	38
105°	135	1371	135	1371	135	141
115°	239	1493	239	1493	239	237
125°	335	1182	335	1182	335	297
135°	401	974	401	974	401	310
145°	468	814	468	814	468	293
155°	534	693	534	693	534	246
165°	584	639	584	639	584	164
175°	611	614	611	614	611	58
180°	612	612	612	612	612	

TEST NUMBER: P1191338

CATALOG NUMBER: SQ2-FA-100U-100D-L930-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1
2.5°	1443.1	1465.1	1465.6	1465.6	1465.6	1465.6	1465.6	1465.1	1443.1	1443.1	1420.6
5°	1429.6	1468.1	1480.2	1486.1	1497.1	1486.1	1480.2	1468.1	1429.6	1413.1	1322.7
7.5°	1416.1	1467.8	1485.9	1496.1	1501.6	1496.1	1485.9	1467.8	1416.1	1342.3	1152.7
10°	1407.1	1467.6	1485.9	1491.6	1497.1	1491.6	1485.9	1467.6	1407.1	1258.5	1103.1
12.5°	1393.6	1458.5	1481.4	1487.1	1492.6	1487.1	1481.4	1458.5	1393.6	1183.3	1067.1
15°	1356.4	1444.5	1463.4	1474.7	1480.2	1474.7	1463.4	1444.5	1356.4	1119.8	1041.2
17.5°	1310.3	1417.0	1442.0	1452.2	1456.6	1452.2	1442.0	1417.0	1310.3	1062.6	1042.4
20°	1283.3	1398.8	1424.0	1429.6	1429.6	1429.6	1424.0	1398.8	1283.3	1035.6	1069.4
22.5°	1247.2	1376.0	1401.4	1402.7	1407.1	1402.7	1401.4	1376.0	1247.2	1004.0	1082.9
25°	1176.3	1324.9	1362.0	1356.7	1367.7	1356.7	1362.0	1324.9	1176.3	961.7	1080.6
27.5°	1089.6	1276.7	1303.5	1309.1	1309.1	1309.1	1303.5	1276.7	1089.6	920.1	1058.1
30°	1035.6	1244.7	1272.0	1277.6	1277.6	1277.6	1272.0	1244.7	1035.6	892.5	1035.6
32.5°	968.1	1216.8	1240.5	1241.6	1241.6	1241.6	1240.5	1216.8	968.1	864.6	999.6
35°	866.8	1169.4	1187.6	1187.4	1181.9	1187.4	1187.6	1169.4	866.8	822.7	956.8
37.5°	765.4	1108.9	1133.5	1125.5	1120.0	1125.5	1133.5	1108.9	765.4	779.8	920.8
40°	697.9	1072.1	1097.5	1080.5	1075.0	1080.5	1097.5	1072.1	697.9	747.4	889.3
42.5°	661.9	1031.7	1057.0	1035.5	1030.0	1035.5	1057.0	1031.7	661.9	715.8	862.3
45°	636.0	966.2	990.6	967.8	956.8	967.8	990.6	966.2	636.0	669.0	816.1
47.5°	596.6	887.2	921.9	887.9	876.9	887.9	921.9	887.2	596.6	620.8	774.5
50°	551.6	837.7	872.4	838.4	827.4	838.4	872.4	837.7	551.6	584.6	742.9
52.5°	520.1	788.6	818.4	779.8	768.8	779.8	818.4	788.6	520.1	539.9	715.9
55°	489.7	715.3	737.3	697.5	681.0	697.5	737.3	715.3	489.7	473.2	664.1
57.5°	418.7	633.4	656.3	610.8	592.1	610.8	656.3	633.4	418.7	404.4	610.1
60°	382.7	575.3	602.2	556.6	529.1	556.6	602.2	575.3	382.7	355.2	574.1
62.5°	342.2	512.8	548.2	502.5	475.0	502.5	548.2	512.8	342.2	323.5	533.6
65°	275.8	424.4	467.1	421.5	394.0	421.5	467.1	424.4	275.8	286.8	467.1
67.5°	216.1	343.8	391.7	341.7	319.7	341.7	391.7	343.8	216.1	252.4	406.4
70°	180.1	290.2	337.7	292.2	270.2	292.2	337.7	290.2	180.1	229.6	365.8
72.5°	157.6	241.2	292.7	242.7	225.1	242.7	292.7	241.2	157.6	207.1	316.3
75°	118.2	167.7	225.1	179.9	168.8	179.9	225.1	167.7	118.2	167.7	247.6
77.5°	85.6	108.7	158.7	120.3	115.9	120.3	158.7	108.7	85.6	126.3	180.1
80°	67.5	73.0	118.2	84.4	84.4	84.4	118.2	73.0	67.5	95.1	135.1
82.5°	45.0	50.5	82.2	57.3	52.9	57.3	82.2	50.5	45.0	68.1	94.6
85°	22.5	22.5	33.8	22.5	22.5	22.5	33.8	22.5	22.5	33.5	45.0
87.5°	4.5	4.9	11.3	5.8	5.7	5.8	11.3	4.9	4.5	9.3	11.3
90°	0.0	1.9	11.5	6.7	5.8	6.7	11.5	1.9	0.0	1.9	11.5
92.5°	10.8	43.5	156.2	51.8	37.3	51.8	156.2	43.5	10.8	43.5	156.2
95°	31.7	100.4	482.7	178.3	112.5	178.3	482.7	100.4	31.7	100.4	482.7
97.5°	61.3	127.7	760.8	503.4	306.5	503.4	760.8	127.7	61.3	127.7	760.8
100°	79.8	144.7	850.0	821.8	551.9	821.8	850.0	144.7	79.8	144.7	850.0
102.5°	100.6	163.2	831.5	1152.6	918.8	1152.6	831.5	163.2	100.6	163.2	831.5
105°	134.6	189.1	759.6	1442.6	1371.2	1442.6	759.6	189.1	134.6	189.1	759.6
107.5°	166.9	219.0	690.4	1471.3	1554.0	1471.3	690.4	219.0	166.9	219.0	690.4
110°	188.5	238.3	655.8	1435.2	1585.6	1435.2	655.8	238.3	188.5	238.3	655.8

TEST NUMBER: P1191338

CATALOG NUMBER: SQ2-FA-100U-100D-L930-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	209.2	257.6	635.0	1374.5	1564.8	1374.5	635.0	257.6	209.2	257.6	635.0
115°	239.4	285.5	614.4	1271.4	1493.3	1271.4	614.4	285.5	239.4	285.5	614.4
117.5°	269.4	313.0	607.1	1174.8	1401.9	1174.8	607.1	313.0	269.4	313.0	607.1
120°	289.4	330.8	604.8	1118.4	1336.5	1118.4	604.8	330.8	289.4	330.8	604.8
122.5°	307.9	347.0	604.8	1068.8	1270.4	1068.8	604.8	347.0	307.9	347.0	604.8
125°	334.6	371.3	605.8	1004.0	1181.7	1004.0	605.8	371.3	334.6	371.3	605.8
127.5°	356.3	394.3	604.8	955.2	1106.7	955.2	604.8	394.3	356.3	394.3	604.8
130°	370.2	409.7	604.8	927.2	1064.4	927.2	604.8	409.7	370.2	409.7	604.8
132.5°	382.5	422.7	604.0	901.5	1028.3	901.5	604.0	422.7	382.5	422.7	604.0
135°	401.0	443.3	601.9	865.9	974.0	865.9	601.9	443.3	401.0	443.3	601.9
137.5°	421.5	461.8	601.9	827.9	928.1	827.9	601.9	461.8	421.5	461.8	601.9
140°	434.6	474.1	601.9	803.1	898.1	803.1	601.9	474.1	434.6	474.1	601.9
142.5°	447.7	485.7	601.2	780.5	863.5	780.5	601.2	485.7	447.7	485.7	601.2
145°	468.3	503.1	601.9	744.9	814.4	744.9	601.9	503.1	468.3	503.1	601.9
147.5°	488.8	518.4	603.1	715.4	768.8	715.4	603.1	518.4	488.8	518.4	603.1
150°	501.9	529.2	603.8	699.1	744.2	699.1	603.8	529.2	501.9	529.2	603.8
152.5°	514.2	538.5	604.6	685.1	721.9	685.1	604.6	538.5	514.2	538.5	604.6
155°	533.7	551.5	605.8	667.9	693.3	667.9	605.8	551.5	533.7	551.5	605.8
157.5°	550.6	565.1	606.9	655.2	672.9	655.2	606.9	565.1	550.6	565.1	606.9
160°	560.6	572.8	607.7	647.4	660.6	647.4	607.7	572.8	560.6	572.8	607.7
162.5°	570.6	579.8	608.5	640.4	651.3	640.4	608.5	579.8	570.6	579.8	608.5
165°	583.7	590.2	608.7	631.9	639.4	631.9	608.7	590.2	583.7	590.2	608.7
167.5°	594.8	598.2	609.8	625.3	628.5	625.3	609.8	598.2	594.8	598.2	609.8
170°	601.0	602.8	610.6	622.1	623.1	622.1	610.6	602.8	601.0	602.8	610.6
172.5°	604.8	605.9	610.6	619.0	619.2	619.0	610.6	605.9	604.8	605.9	610.6
175°	610.6	610.6	611.5	616.3	614.4	616.3	611.5	610.6	610.6	610.6	611.5
177.5°	613.3	612.5	611.7	614.0	612.5	614.0	611.7	612.5	613.3	612.5	611.7
180°	612.5	612.5	612.5	612.5	612.5	612.5	612.5	612.5	612.5	612.5	612.5

TEST NUMBER: P1191338

CATALOG NUMBER: SQ2-FA-100U-100D-L930-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1452.1	1452.1	1452.1	1452.1	1452.1	1452.1
2.5°	1407.0	1402.6	1407.0	1420.6	1443.1	1443.1
5°	1220.7	1193.2	1220.7	1322.7	1413.1	1429.6
7.5°	1109.7	1100.9	1109.7	1152.7	1342.3	1416.1
10°	1069.4	1069.4	1069.4	1103.1	1258.5	1407.1
12.5°	1065.4	1087.4	1065.4	1067.1	1183.3	1393.6
15°	1131.9	1159.4	1131.9	1041.2	1119.8	1356.4
17.5°	1154.3	1176.3	1154.3	1042.4	1062.6	1310.3
20°	1154.3	1176.3	1154.3	1069.4	1035.6	1283.3
22.5°	1149.8	1171.8	1149.8	1082.9	1004.0	1247.2
25°	1137.2	1148.2	1137.2	1080.6	961.7	1176.3
27.5°	1114.6	1122.3	1114.6	1058.1	920.1	1089.6
30°	1092.3	1108.8	1092.3	1035.6	892.5	1035.6
32.5°	1069.5	1072.8	1069.5	999.6	864.6	968.1
35°	1035.5	1030.0	1035.5	956.8	822.7	866.8
37.5°	989.6	996.2	989.6	920.8	779.8	765.4
40°	962.7	973.7	962.7	889.3	747.4	697.9
42.5°	935.7	946.7	935.7	862.3	715.8	661.9
45°	895.0	900.5	895.0	816.1	669.0	636.0
47.5°	847.7	853.3	847.7	774.5	620.8	596.6
50°	816.2	821.7	816.2	742.9	584.6	551.6
52.5°	780.2	785.7	780.2	715.9	539.9	520.1
55°	726.1	726.1	726.1	664.1	473.2	489.7
57.5°	664.3	670.9	664.3	610.1	404.4	418.7
60°	619.4	630.4	619.4	574.1	355.2	382.7
62.5°	578.7	585.3	578.7	533.6	323.5	342.2
65°	512.3	517.8	512.3	467.1	286.8	275.8
67.5°	438.0	442.4	438.0	406.4	252.4	216.1
70°	388.4	388.4	388.4	365.8	229.6	180.1
72.5°	338.9	343.3	338.9	316.3	207.1	157.6
75°	264.7	270.2	264.7	247.6	167.7	118.2
77.5°	190.4	195.9	190.4	180.1	126.3	85.6
80°	140.8	146.3	140.8	135.1	95.1	67.5
82.5°	100.2	101.3	100.2	94.6	68.1	45.0
85°	45.0	45.0	45.0	45.0	33.5	22.5
87.5°	10.3	10.2	10.3	11.3	9.3	4.5
90°	6.7	5.8	6.7	11.5	1.9	0.0
92.5°	51.8	37.3	51.8	156.2	43.5	10.8
95°	178.3	112.5	178.3	482.7	100.4	31.7
97.5°	503.4	306.5	503.4	760.8	127.7	61.3
100°	821.8	551.9	821.8	850.0	144.7	79.8
102.5°	1152.6	918.8	1152.6	831.5	163.2	100.6
105°	1442.6	1371.2	1442.6	759.6	189.1	134.6
107.5°	1471.3	1554.0	1471.3	690.4	219.0	166.9
110°	1435.2	1585.6	1435.2	655.8	238.3	188.5

TEST NUMBER: P1191338

CATALOG NUMBER: SQ2-FA-100U-100D-L930-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1374.5	1564.8	1374.5	635.0	257.6	209.2
115°	1271.4	1493.3	1271.4	614.4	285.5	239.4
117.5°	1174.8	1401.9	1174.8	607.1	313.0	269.4
120°	1118.4	1336.5	1118.4	604.8	330.8	289.4
122.5°	1068.8	1270.4	1068.8	604.8	347.0	307.9
125°	1004.0	1181.7	1004.0	605.8	371.3	334.6
127.5°	955.2	1106.7	955.2	604.8	394.3	356.3
130°	927.2	1064.4	927.2	604.8	409.7	370.2
132.5°	901.5	1028.3	901.5	604.0	422.7	382.5
135°	865.9	974.0	865.9	601.9	443.3	401.0
137.5°	827.9	928.1	827.9	601.9	461.8	421.5
140°	803.1	898.1	803.1	601.9	474.1	434.6
142.5°	780.5	863.5	780.5	601.2	485.7	447.7
145°	744.9	814.4	744.9	601.9	503.1	468.3
147.5°	715.4	768.8	715.4	603.1	518.4	488.8
150°	699.1	744.2	699.1	603.8	529.2	501.9
152.5°	685.1	721.9	685.1	604.6	538.5	514.2
155°	667.9	693.3	667.9	605.8	551.5	533.7
157.5°	655.2	672.9	655.2	606.9	565.1	550.6
160°	647.4	660.6	647.4	607.7	572.8	560.6
162.5°	640.4	651.3	640.4	608.5	579.8	570.6
165°	631.9	639.4	631.9	608.7	590.2	583.7
167.5°	625.3	628.5	625.3	609.8	598.2	594.8
170°	622.1	623.1	622.1	610.6	602.8	601.0
172.5°	619.0	619.2	619.0	610.6	605.9	604.8
175°	616.3	614.4	616.3	611.5	610.6	610.6
177.5°	614.0	612.5	614.0	611.7	612.5	613.3
180°	612.5	612.5	612.5	612.5	612.5	612.5

TEST NUMBER: P1191338

CATALOG NUMBER: SQ2-FA-100U-100D-L930-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	17.18	18.03	18.15	19.01	20.30	18.41	19.25	19.38	20.24	21.53
	3H	18.27	19.03	19.25	20.02	21.33	19.65	20.41	20.63	21.40	22.71
	4H	18.62	19.34	19.62	20.34	21.66	20.04	20.76	21.03	21.75	23.07
	6H	18.79	19.45	19.79	20.45	21.78	20.20	20.86	21.20	21.86	23.19
	8H	18.82	19.45	19.83	20.47	21.80	20.22	20.85	21.23	21.87	23.20
	12H	18.82	19.41	19.83	20.43	21.78	20.21	20.81	21.22	21.82	23.17
4H	2H	18.11	18.83	19.11	19.82	21.14	19.02	19.74	20.02	20.73	22.06
	3H	19.48	20.07	20.48	21.10	22.43	20.47	21.07	21.48	22.09	23.43
	4H	19.92	20.47	20.94	21.48	22.84	20.94	21.48	21.95	22.50	23.86
	6H	20.15	20.62	21.18	21.66	23.01	21.16	21.63	22.19	22.67	24.02
	8H	20.20	20.64	21.23	21.68	23.05	21.20	21.64	22.23	22.68	24.05
	12H	20.20	20.60	21.25	21.65	23.02	21.19	21.59	22.24	22.64	24.01
8H	4H	20.32	20.76	21.35	21.79	23.16	21.15	21.58	22.17	22.62	23.99
	6H	20.66	21.03	21.72	22.10	23.47	21.45	21.82	22.51	22.89	24.26
	8H	20.78	21.10	21.84	22.16	23.54	21.55	21.87	22.61	22.93	24.31
	12H	20.81	21.09	21.88	22.15	23.58	21.56	21.84	22.63	22.90	24.33
12H	4H	20.32	20.72	21.37	21.77	23.14	21.11	21.51	22.16	22.56	23.93
	6H	20.74	21.05	21.80	22.12	23.50	21.48	21.79	22.54	22.86	24.24
	8H	20.88	21.16	21.94	22.21	23.64	21.59	21.87	22.65	22.92	24.35