

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: P1191266

Luminaire Tested: SQ2-FA-050U-100D-L930-UNV-STD-W-4

Issue Date: 9/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1191266
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-050U-100D-L930-UNV-STD-W-4
Description: CORELITE SQ2 LED LUMINAIRE
FROSTED CONTINUOUS ASYMMETRIC ROLL LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

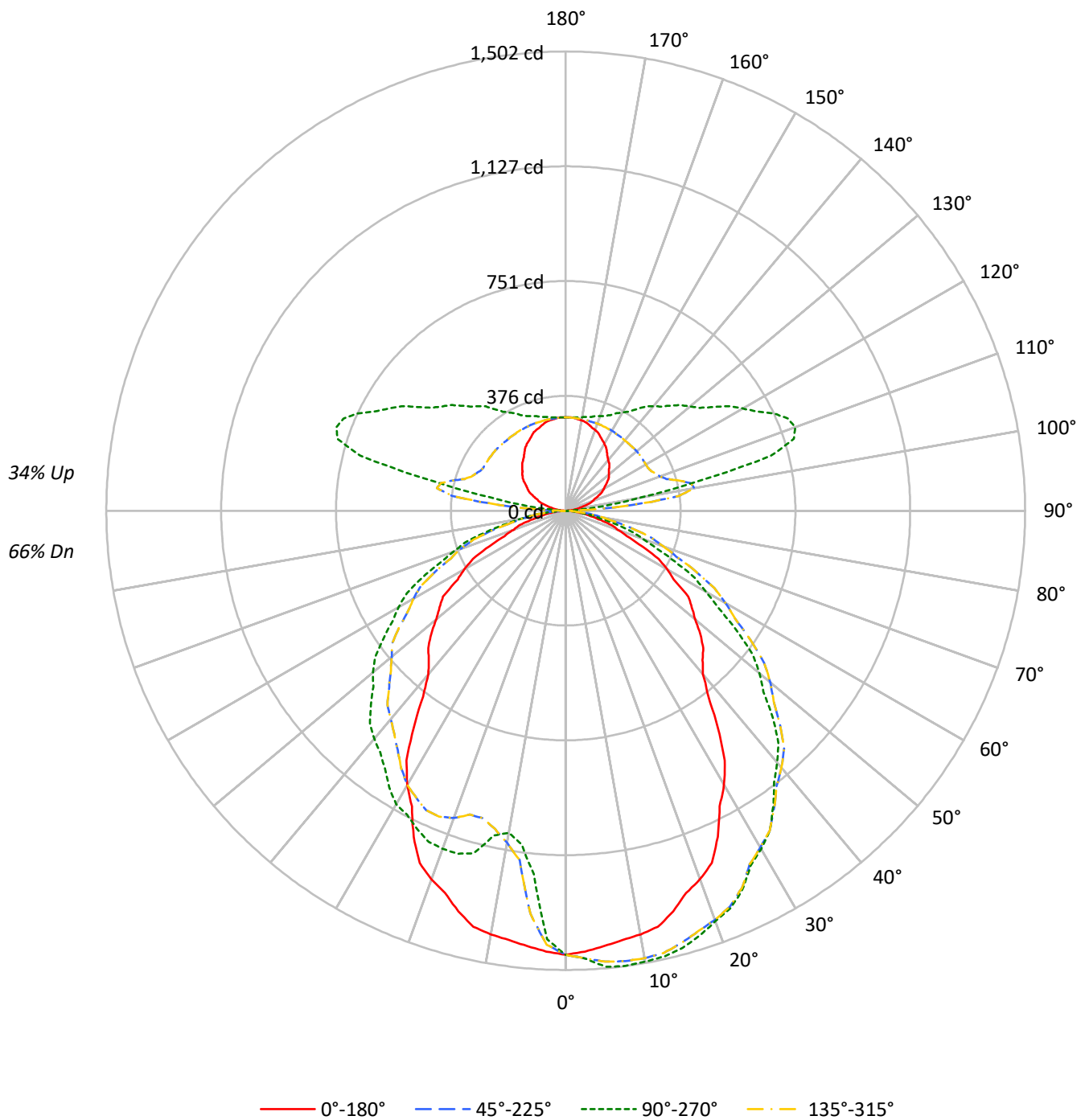
Lumens per Lamp: N/A
Luminaire Lumens: 5505.9 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 52.4
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

TEST NUMBER: P1191266

CATALOG NUMBER: SQ2-FA-050U-100D-L930-UNV-STD-W-4

Luminous Intensity Polar Plot



TEST NUMBER: P1191266

CATALOG NUMBER: SQ2-FA-050U-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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70
1	101	97	93	90	95	91	88	85	81	78	76	71	69	68	63	61	60
2	92	85	79	73	87	80	75	70	71	67	63	63	60	57	55	53	50
3	84	75	67	61	79	71	64	58	63	57	53	56	51	48	49	46	43
4	77	66	58	52	72	63	55	50	56	50	45	49	45	41	44	40	37
5	71	59	51	45	66	56	48	43	50	44	39	44	40	36	39	35	32
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	36	32	28
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	28	25
8	56	44	36	30	53	41	34	29	37	31	27	34	28	25	30	26	23
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	23	20
10	49	37	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19

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: P1191266

CATALOG NUMBER: SQ2-FA-050U-100D-L930-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	2.4
10°-20°	365.1	6.6
20°-30°	554.5	10.1
30°-40°	650.9	11.8
40°-50°	660.5	12.0
50°-60°	578.6	10.5
60°-70°	410.5	7.5
70°-80°	211.4	3.8
80°-90°	44.7	0.8
90°-100°	121.8	2.2
100°-110°	386.3	7.0
110°-120°	378.8	6.9
120°-130°	308.3	5.6
130°-140°	251.4	4.6
140°-150°	196.0	3.6
150°-160°	141.2	2.6
160°-170°	86.3	1.6
170°-180°	29.1	0.5
0°-30°	1050.2	19.1
0°-40°	1701.1	30.9
0°-60°	2940.2	53.4
0°-90°	3606.7	65.5
90°-120°	887.0	16.1
90°-150°	1642.6	29.8
90°-180°	1899.0	34.5
0°-180°	5505.9	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	3	0	3	0	1
95°	16	53	16	53	16	19
105°	67	695	67	695	67	71
115°	120	752	120	752	120	119
125°	166	590	166	590	166	148
135°	201	486	201	486	201	155
145°	235	405	235	405	235	147
155°	267	345	267	345	267	123
165°	291	317	291	317	291	82
175°	305	306	305	306	305	29
180°	306	306	306	306	306	

TEST NUMBER: P1191266

CATALOG NUMBER: SQ2-FA-050U-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	4.7	9.6	5.1	5.1	5.1	9.6	4.7	4.5	9.1	9.6
90°	0.0	0.9	2.9	2.9	2.9	2.9	2.9	0.9	0.0	0.9	2.9
92.5°	5.4	21.4	68.3	22.7	16.0	22.7	68.3	21.4	5.4	21.4	68.3
95°	16.3	49.3	221.2	82.0	52.9	82.0	221.2	49.3	16.3	49.3	221.2
97.5°	30.4	63.9	374.7	234.1	143.7	234.1	374.7	63.9	30.4	63.9	374.7
100°	40.4	72.4	427.0	389.3	252.9	389.3	427.0	72.4	40.4	72.4	427.0
102.5°	51.2	81.6	417.8	571.7	437.6	571.7	417.8	81.6	51.2	81.6	417.8
105°	67.3	94.6	380.8	725.4	695.3	725.4	380.8	94.6	67.3	94.6	380.8
107.5°	83.5	108.7	345.6	741.4	782.1	741.4	345.6	108.7	83.5	108.7	345.6
110°	94.2	118.7	327.9	723.0	798.2	723.0	327.9	118.7	94.2	118.7	327.9

TEST NUMBER: P1191266

CATALOG NUMBER: SQ2-FA-050U-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°	105.0	128.0	317.9	691.1	786.7	691.1	317.9	128.0	105.0	128.0	317.9
115°	120.2	142.8	307.7	639.2	752.1	639.2	307.7	142.8	120.2	142.8	307.7
117.5°	135.0	156.5	303.7	589.2	703.0	589.2	303.7	156.5	135.0	156.5	303.7
120°	144.3	164.9	302.9	558.4	668.4	558.4	302.9	164.9	144.3	164.9	302.9
122.5°	153.5	173.4	302.9	533.6	636.1	533.6	302.9	173.4	153.5	173.4	302.9
125°	166.4	186.1	302.9	501.2	590.5	501.2	302.9	186.1	166.4	186.1	302.9
127.5°	177.7	196.7	302.9	476.0	552.2	476.0	302.9	196.7	177.7	196.7	302.9
130°	184.6	204.4	302.9	461.3	529.9	461.3	302.9	204.4	184.6	204.4	302.9
132.5°	191.6	211.3	302.2	449.6	511.4	449.6	302.2	211.3	191.6	211.3	302.2
135°	201.0	220.7	301.0	431.1	485.7	431.1	301.0	220.7	201.0	220.7	301.0
137.5°	210.2	230.9	300.8	413.5	462.2	413.5	300.8	230.9	210.2	230.9	300.8
140°	216.4	237.1	300.1	401.1	445.3	401.1	300.1	237.1	216.4	237.1	300.1
142.5°	224.1	244.0	300.8	388.7	429.9	388.7	300.8	244.0	224.1	244.0	300.8
145°	234.7	252.5	301.0	372.0	404.9	372.0	301.0	252.5	234.7	252.5	301.0
147.5°	245.2	260.5	301.2	357.2	384.1	357.2	301.2	260.5	245.2	260.5	301.2
150°	252.9	265.2	302.0	348.6	370.3	348.6	302.0	265.2	252.9	265.2	302.0
152.5°	259.1	269.8	302.0	341.6	359.5	341.6	302.0	269.8	259.1	269.8	302.0
155°	267.4	276.8	302.0	332.1	345.3	332.1	302.0	276.8	267.4	276.8	302.0
157.5°	276.2	282.6	302.9	326.2	335.3	326.2	302.9	282.6	276.2	282.6	302.9
160°	280.8	286.5	302.9	322.3	329.9	322.3	302.9	286.5	280.8	286.5	302.9
162.5°	285.4	289.6	302.9	319.2	324.5	319.2	302.9	289.6	285.4	289.6	302.9
165°	291.4	294.2	302.9	314.5	317.4	314.5	302.9	294.2	291.4	294.2	302.9
167.5°	297.0	297.7	303.9	311.3	313.7	311.3	303.9	297.7	297.0	297.7	303.9
170°	300.1	300.1	303.9	309.7	310.6	309.7	303.9	300.1	300.1	300.1	303.9
172.5°	301.6	302.3	303.9	308.1	308.3	308.1	303.9	302.3	301.6	302.3	303.9
175°	304.9	303.9	304.9	306.8	305.8	306.8	304.9	303.9	304.9	303.9	304.9
177.5°	305.8	305.1	305.1	306.6	305.1	306.6	305.1	305.1	305.8	305.1	305.1
180°	305.8	305.8	305.8	305.8	305.8	305.8	305.8	305.8	305.8	305.8	305.8

TEST NUMBER: P1191266

CATALOG NUMBER: SQ2-FA-050U-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°	9.6	9.6	9.6	9.6	9.1	4.5
90°	2.9	2.9	2.9	2.9	0.9	0.0
92.5°	22.7	16.0	22.7	68.3	21.4	5.4
95°	82.0	52.9	82.0	221.2	49.3	16.3
97.5°	234.1	143.7	234.1	374.7	63.9	30.4
100°	389.3	252.9	389.3	427.0	72.4	40.4
102.5°	571.7	437.6	571.7	417.8	81.6	51.2
105°	725.4	695.3	725.4	380.8	94.6	67.3
107.5°	741.4	782.1	741.4	345.6	108.7	83.5
110°	723.0	798.2	723.0	327.9	118.7	94.2



TEST NUMBER: P1191266

CATALOG NUMBER: SQ2-FA-050U-100D-L930-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	691.1	786.7	691.1	317.9	128.0	105.0
115°	639.2	752.1	639.2	307.7	142.8	120.2
117.5°	589.2	703.0	589.2	303.7	156.5	135.0
120°	558.4	668.4	558.4	302.9	164.9	144.3
122.5°	533.6	636.1	533.6	302.9	173.4	153.5
125°	501.2	590.5	501.2	302.9	186.1	166.4
127.5°	476.0	552.2	476.0	302.9	196.7	177.7
130°	461.3	529.9	461.3	302.9	204.4	184.6
132.5°	449.6	511.4	449.6	302.2	211.3	191.6
135°	431.1	485.7	431.1	301.0	220.7	201.0
137.5°	413.5	462.2	413.5	300.8	230.9	210.2
140°	401.1	445.3	401.1	300.1	237.1	216.4
142.5°	388.7	429.9	388.7	300.8	244.0	224.1
145°	372.0	404.9	372.0	301.0	252.5	234.7
147.5°	357.2	384.1	357.2	301.2	260.5	245.2
150°	348.6	370.3	348.6	302.0	265.2	252.9
152.5°	341.6	359.5	341.6	302.0	269.8	259.1
155°	332.1	345.3	332.1	302.0	276.8	267.4
157.5°	326.2	335.3	326.2	302.9	282.6	276.2
160°	322.3	329.9	322.3	302.9	286.5	280.8
162.5°	319.2	324.5	319.2	302.9	289.6	285.4
165°	314.5	317.4	314.5	302.9	294.2	291.4
167.5°	311.3	313.7	311.3	303.9	297.7	297.0
170°	309.7	310.6	309.7	303.9	300.1	300.1
172.5°	308.1	308.3	308.1	303.9	302.3	301.6
175°	306.8	305.8	306.8	304.9	303.9	304.9
177.5°	306.6	305.1	306.6	305.1	305.1	305.8
180°	305.8	305.8	305.8	305.8	305.8	305.8

TEST NUMBER: P1191266

CATALOG NUMBER: SQ2-FA-050U-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	18.63	19.65	19.44	20.48	21.52	19.86	20.87	20.67	21.71	22.74
	3H	19.73	20.65	20.56	21.49	22.55	21.11	22.03	21.94	22.87	23.93
	4H	20.09	20.96	20.94	21.81	22.88	21.51	22.37	22.35	23.22	24.29
	6H	20.26	21.06	21.12	21.92	23.00	21.68	22.47	22.53	23.33	24.42
	8H	20.30	21.06	21.17	21.94	23.02	21.71	22.46	22.57	23.34	24.42
	12H	20.31	21.03	21.17	21.90	23.01	21.70	22.42	22.57	23.29	24.40
4H	2H	19.58	20.44	20.43	21.29	22.36	20.49	21.35	21.34	22.20	23.27
	3H	20.96	21.68	21.82	22.56	23.65	21.96	22.67	22.82	23.56	24.65
	4H	21.41	22.07	22.28	22.95	24.06	22.43	23.08	23.30	23.96	25.08
	6H	21.65	22.21	22.54	23.12	24.24	22.66	23.22	23.55	24.13	25.25
	8H	21.71	22.24	22.60	23.14	24.27	22.71	23.24	23.60	24.14	25.27
	12H	21.72	22.19	22.63	23.11	24.25	22.71	23.18	23.62	24.10	25.24
8H	4H	21.83	22.35	22.72	23.25	24.38	22.65	23.18	23.54	24.08	25.21
	6H	22.18	22.61	23.09	23.55	24.68	22.97	23.40	23.89	24.35	25.48
	8H	22.29	22.68	23.22	23.61	24.76	23.06	23.45	23.99	24.38	25.53
	12H	22.34	22.68	23.27	23.60	24.80	23.09	23.42	24.02	24.35	25.55
12H	4H	21.84	22.31	22.75	23.23	24.36	22.63	23.10	23.54	24.02	25.16
	6H	22.25	22.64	23.18	23.57	24.72	22.99	23.38	23.92	24.31	25.46
	8H	22.40	22.74	23.33	23.67	24.87	23.11	23.45	24.04	24.38	25.57