

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: P1191339

Luminaire Tested: SQ2-FA-100U-100D-L935-UNV-STD-W-4

Issue Date: 9/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1191339
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-L935-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

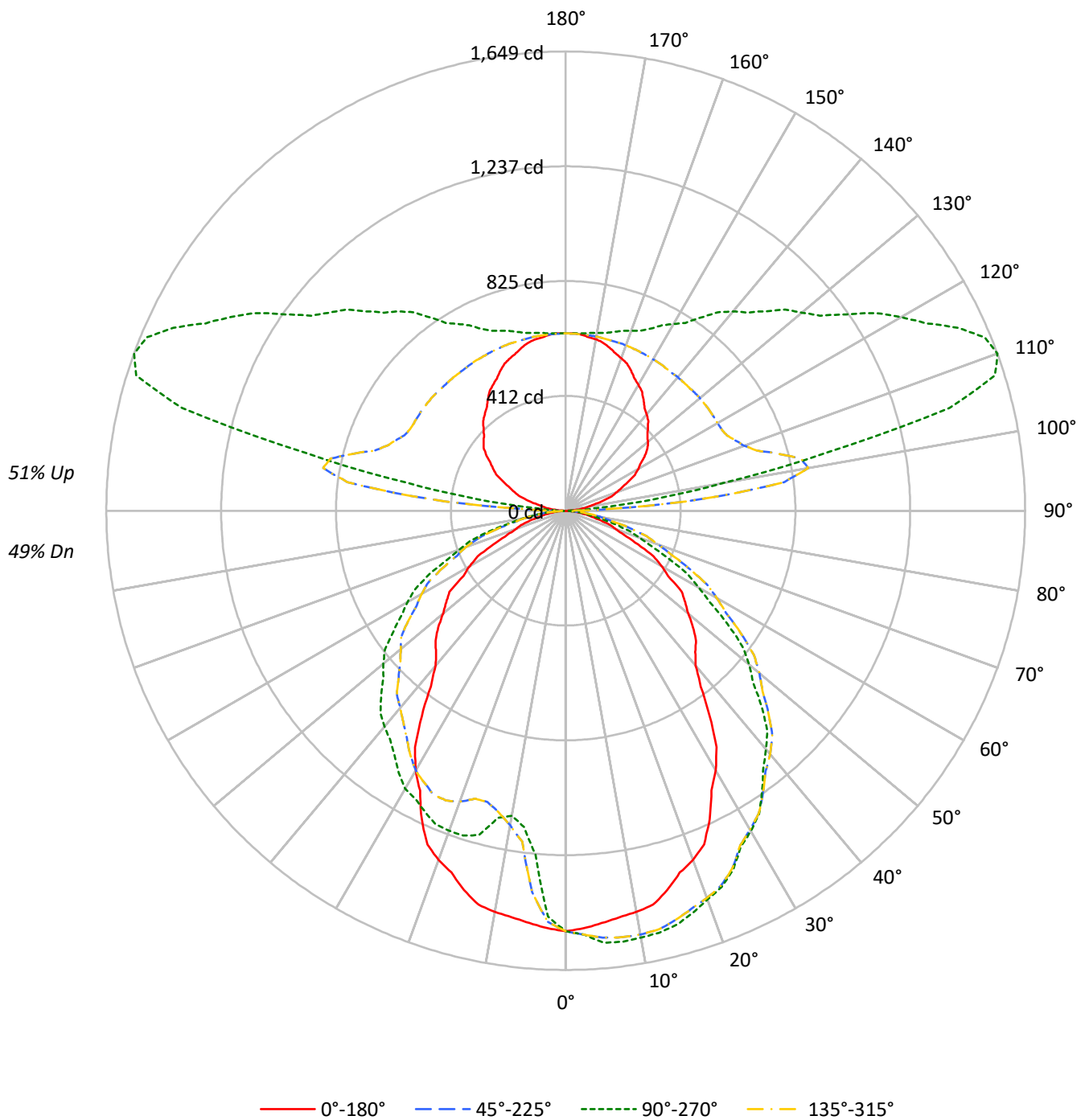
Lumens per Lamp: N/A
Luminaire Lumens: 7714.1 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

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

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CATALOG NUMBER: SQ2-FA-100U-100D-L935-UNV-STD-W-4

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
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°	24377	24377	24377	24377
5°	24091	25229	24091	20107
10°	23986	25520	23986	18230
15°	23574	25725	23574	20150
20°	22924	25539	22924	21014
25°	21788	25333	21788	21268
30°	20074	24766	20074	21492
35°	17763	24222	17763	21108
40°	15293	23558	15293	21338
45°	15100	22715	15100	21379
50°	14405	21607	14405	21461
55°	14331	19933	14331	21250
60°	12849	17764	12849	21164
65°	10953	15648	10953	20569
70°	8842	13261	8842	19062
75°	7667	10954	7667	17523
80°	6527	8164	6527	14142
85°	4335	4335	4335	8670

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 23516 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	1.8
10°-20°	379.6	4.9
20°-30°	576.5	7.5
30°-40°	676.7	8.8
40°-50°	686.7	8.9
50°-60°	601.6	7.8
60°-70°	426.8	5.5
70°-80°	219.8	2.8
80°-90°	47.2	0.6
90°-100°	266.0	3.4
100°-110°	804.4	10.4
110°-120°	785.2	10.2
120°-130°	641.7	8.3
130°-140°	523.8	6.8
140°-150°	407.7	5.3
150°-160°	293.9	3.8
160°-170°	179.9	2.3
170°-180°	60.8	0.8
0°-30°	1091.9	14.2
0°-40°	1768.6	22.9
0°-60°	3057.0	39.6
0°-90°	3750.7	48.6
90°-120°	1855.6	24.1
90°-150°	3428.7	44.4
90°-180°	3963.0	51.4
0°-180°	7714.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1510	1510	1510	1510	1510	
5°	1486	1557	1486	1241	1486	141
15°	1410	1539	1410	1206	1410	396
25°	1223	1422	1223	1194	1223	558
35°	901	1229	901	1071	901	561
45°	661	995	661	936	661	506
55°	509	708	509	755	509	440
65°	287	410	287	538	287	286
75°	123	176	123	281	123	133
85°	23	23	23	47	23	29
90°	0	6	0	6	0	2
95°	33	117	33	117	33	39
105°	140	1426	140	1426	140	147
115°	249	1553	249	1553	249	246
125°	348	1229	348	1229	348	309
135°	417	1013	417	1013	417	323
145°	487	847	487	847	487	305
155°	555	721	555	721	555	255
165°	607	665	607	665	607	171
175°	635	639	635	639	635	60
180°	637	637	637	637	637	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8
2.5°	1500.4	1523.3	1523.8	1523.8	1523.8	1523.8	1523.8	1523.3	1500.4	1500.4	1477.0
5°	1486.4	1526.4	1539.0	1545.2	1556.6	1545.2	1539.0	1526.4	1486.4	1469.2	1375.2
7.5°	1472.3	1526.1	1544.9	1555.6	1561.3	1555.6	1544.9	1526.1	1472.3	1395.7	1198.5
10°	1463.0	1525.9	1544.9	1550.9	1556.6	1550.9	1544.9	1525.9	1463.0	1308.5	1147.0
12.5°	1448.9	1516.4	1540.2	1546.2	1551.9	1546.2	1540.2	1516.4	1448.9	1230.3	1109.5
15°	1410.3	1501.8	1521.5	1533.3	1539.0	1533.3	1521.5	1501.8	1410.3	1164.3	1082.6
17.5°	1362.3	1473.3	1499.2	1509.9	1514.5	1509.9	1499.2	1473.3	1362.3	1104.8	1083.8
20°	1334.2	1454.4	1480.5	1486.4	1486.4	1486.4	1480.5	1454.4	1334.2	1076.7	1111.9
22.5°	1296.8	1430.7	1457.1	1458.4	1463.0	1458.4	1457.1	1430.7	1296.8	1043.9	1125.9
25°	1223.0	1377.5	1416.1	1410.6	1422.0	1410.6	1416.1	1377.5	1223.0	999.9	1123.6
27.5°	1132.9	1327.5	1355.3	1361.1	1361.1	1361.1	1355.3	1327.5	1132.9	956.7	1100.1
30°	1076.7	1294.2	1322.5	1328.4	1328.4	1328.4	1322.5	1294.2	1076.7	928.0	1076.7
32.5°	1006.5	1265.1	1289.7	1290.9	1290.9	1290.9	1289.7	1265.1	1006.5	898.9	1039.3
35°	901.2	1215.9	1234.7	1234.6	1228.9	1234.6	1234.7	1215.9	901.2	855.4	994.8
37.5°	795.9	1152.9	1178.6	1170.2	1164.5	1170.2	1178.6	1152.9	795.9	810.7	957.4
40°	725.6	1114.7	1141.1	1123.4	1117.7	1123.4	1141.1	1114.7	725.6	777.1	924.6
42.5°	688.2	1072.7	1099.0	1076.6	1070.9	1076.6	1099.0	1072.7	688.2	744.3	896.5
45°	661.3	1004.6	1029.9	1006.3	994.8	1006.3	1029.9	1004.6	661.3	695.6	848.5
47.5°	620.3	922.4	958.5	923.2	911.7	923.2	958.5	922.4	620.3	645.5	805.2
50°	573.5	871.0	907.0	871.7	860.2	871.7	907.0	871.0	573.5	607.8	772.4
52.5°	540.7	819.9	850.9	810.8	799.4	810.8	850.9	819.9	540.7	561.3	744.4
55°	509.1	743.7	766.6	725.2	708.1	725.2	766.6	743.7	509.1	491.9	690.5
57.5°	435.4	658.5	682.3	635.1	615.6	635.1	682.3	658.5	435.4	420.5	634.3
60°	397.9	598.2	626.1	578.7	550.1	578.7	626.1	598.2	397.9	369.3	596.9
62.5°	355.8	533.2	570.0	522.5	493.9	522.5	570.0	533.2	355.8	336.3	554.8
65°	286.7	441.2	485.7	438.2	409.6	438.2	485.7	441.2	286.7	298.2	485.7
67.5°	224.7	357.5	407.3	355.3	332.4	355.3	407.3	357.5	224.7	262.5	422.5
70°	187.3	301.7	351.1	303.8	280.9	303.8	351.1	301.7	187.3	238.8	380.4
72.5°	163.9	250.8	304.3	252.4	234.1	252.4	304.3	250.8	163.9	215.3	328.9
75°	122.9	174.4	234.1	187.0	175.6	187.0	234.1	174.4	122.9	174.4	257.5
77.5°	88.9	113.0	165.0	125.1	120.5	125.1	165.0	113.0	88.9	131.3	187.3
80°	70.2	75.9	122.9	87.8	87.8	87.8	122.9	75.9	70.2	98.8	140.4
82.5°	46.8	52.5	85.4	59.6	55.0	59.6	85.4	52.5	46.8	70.8	98.3
85°	23.4	23.4	35.1	23.4	23.4	23.4	35.1	23.4	23.4	34.9	46.8
87.5°	4.7	5.1	11.8	6.1	5.9	6.1	11.8	5.1	4.7	9.6	11.8
90°	0.0	2.0	12.0	7.0	6.0	7.0	12.0	2.0	0.0	2.0	12.0
92.5°	11.2	45.2	162.4	53.8	38.8	53.8	162.4	45.2	11.2	45.2	162.4
95°	33.0	104.3	501.9	185.4	117.0	185.4	501.9	104.3	33.0	104.3	501.9
97.5°	63.8	132.8	791.0	523.4	318.7	523.4	791.0	132.8	63.8	132.8	791.0
100°	83.0	150.4	883.8	854.4	573.8	854.4	883.8	150.4	83.0	150.4	883.8
102.5°	104.6	169.7	864.6	1198.4	955.3	1198.4	864.6	169.7	104.6	169.7	864.6
105°	140.0	196.7	789.8	1499.9	1425.6	1499.9	789.8	196.7	140.0	196.7	789.8
107.5°	173.6	227.7	717.8	1529.7	1615.8	1529.7	717.8	227.7	173.6	227.7	717.8
110°	195.9	247.8	681.8	1492.2	1648.6	1492.2	681.8	247.8	195.9	247.8	681.8

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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°	217.5	267.8	660.2	1429.1	1627.0	1429.1	660.2	267.8	217.5	267.8	660.2
115°	248.9	296.8	638.8	1321.9	1552.6	1321.9	638.8	296.8	248.9	296.8	638.8
117.5°	280.1	325.5	631.2	1221.4	1457.6	1221.4	631.2	325.5	280.1	325.5	631.2
120°	300.9	343.9	628.8	1162.8	1389.6	1162.8	628.8	343.9	300.9	343.9	628.8
122.5°	320.1	360.8	628.8	1111.3	1320.8	1111.3	628.8	360.8	320.1	360.8	628.8
125°	347.9	386.0	629.8	1043.9	1228.7	1043.9	629.8	386.0	347.9	386.0	629.8
127.5°	370.5	410.0	628.8	993.1	1150.7	993.1	628.8	410.0	370.5	410.0	628.8
130°	384.9	426.0	628.8	964.0	1106.7	964.0	628.8	426.0	384.9	426.0	628.8
132.5°	397.7	439.5	628.0	937.3	1069.1	937.3	628.0	439.5	397.7	439.5	628.0
135°	416.9	460.9	625.8	900.3	1012.7	900.3	625.8	460.9	416.9	460.9	625.8
137.5°	438.3	480.1	625.8	860.7	964.9	860.7	625.8	480.1	438.3	480.1	625.8
140°	451.9	492.9	625.8	835.0	933.8	835.0	625.8	492.9	451.9	492.9	625.8
142.5°	465.5	505.0	625.0	811.5	897.8	811.5	625.0	505.0	465.5	505.0	625.0
145°	486.9	523.0	625.8	774.4	846.8	774.4	625.8	523.0	486.9	523.0	625.8
147.5°	508.3	539.0	627.0	743.9	799.4	743.9	627.0	539.0	508.3	539.0	627.0
150°	521.9	550.2	627.8	726.9	773.8	726.9	627.8	550.2	521.9	550.2	627.8
152.5°	534.7	559.9	628.6	712.3	750.6	712.3	628.6	559.9	534.7	559.9	628.6
155°	554.9	573.4	629.8	694.4	720.8	694.4	629.8	573.4	554.9	573.4	629.8
157.5°	572.4	587.5	631.0	681.2	699.6	681.2	631.0	587.5	572.4	587.5	631.0
160°	582.8	595.6	631.8	673.1	686.8	673.1	631.8	595.6	582.8	595.6	631.8
162.5°	593.2	602.8	632.6	665.9	677.2	665.9	632.6	602.8	593.2	602.8	632.6
165°	606.8	613.7	632.8	657.0	664.8	657.0	632.8	613.7	606.8	613.7	632.8
167.5°	618.4	622.0	634.0	650.1	653.4	650.1	634.0	622.0	618.4	622.0	634.0
170°	624.8	626.8	634.8	646.8	647.8	646.8	634.8	626.8	624.8	626.8	634.8
172.5°	628.8	630.0	634.8	643.6	643.8	643.6	634.8	630.0	628.8	630.0	634.8
175°	634.8	634.8	635.8	640.8	638.8	640.8	635.8	634.8	634.8	634.8	635.8
177.5°	637.6	636.8	636.0	638.4	636.8	638.4	636.0	636.8	637.6	636.8	636.0
180°	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8	636.8

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1509.8	1509.8	1509.8	1509.8	1509.8	1509.8
2.5°	1462.9	1458.3	1462.9	1477.0	1500.4	1500.4
5°	1269.2	1240.6	1269.2	1375.2	1469.2	1486.4
7.5°	1153.8	1144.6	1153.8	1198.5	1395.7	1472.3
10°	1111.9	1111.9	1111.9	1147.0	1308.5	1463.0
12.5°	1107.7	1130.6	1107.7	1109.5	1230.3	1448.9
15°	1176.9	1205.5	1176.9	1082.6	1164.3	1410.3
17.5°	1200.2	1223.0	1200.2	1083.8	1104.8	1362.3
20°	1200.2	1223.0	1200.2	1111.9	1076.7	1334.2
22.5°	1195.5	1218.4	1195.5	1125.9	1043.9	1296.8
25°	1182.3	1193.8	1182.3	1123.6	999.9	1223.0
27.5°	1158.8	1166.9	1158.8	1100.1	956.7	1132.9
30°	1135.7	1152.8	1135.7	1076.7	928.0	1076.7
32.5°	1111.9	1115.4	1111.9	1039.3	898.9	1006.5
35°	1076.6	1070.9	1076.6	994.8	855.4	901.2
37.5°	1028.9	1035.8	1028.9	957.4	810.7	795.9
40°	1000.9	1012.4	1000.9	924.6	777.1	725.6
42.5°	972.8	984.3	972.8	896.5	744.3	688.2
45°	930.6	936.3	930.6	848.5	695.6	661.3
47.5°	881.4	887.1	881.4	805.2	645.5	620.3
50°	848.6	854.4	848.6	772.4	607.8	573.5
52.5°	811.2	816.9	811.2	744.4	561.3	540.7
55°	754.9	754.9	754.9	690.5	491.9	509.1
57.5°	690.7	697.5	690.7	634.3	420.5	435.4
60°	644.0	655.4	644.0	596.9	369.3	397.9
62.5°	601.7	608.6	601.7	554.8	336.3	355.8
65°	532.6	538.4	532.6	485.7	298.2	286.7
67.5°	455.4	460.0	455.4	422.5	262.5	224.7
70°	403.8	403.8	403.8	380.4	238.8	187.3
72.5°	352.4	357.0	352.4	328.9	215.3	163.9
75°	275.2	280.9	275.2	257.5	174.4	122.9
77.5°	197.9	203.6	197.9	187.3	131.3	88.9
80°	146.4	152.1	146.4	140.4	98.8	70.2
82.5°	104.2	105.3	104.2	98.3	70.8	46.8
85°	46.8	46.8	46.8	46.8	34.9	23.4
87.5°	10.8	10.6	10.8	11.8	9.6	4.7
90°	7.0	6.0	7.0	12.0	2.0	0.0
92.5°	53.8	38.8	53.8	162.4	45.2	11.2
95°	185.4	117.0	185.4	501.9	104.3	33.0
97.5°	523.4	318.7	523.4	791.0	132.8	63.8
100°	854.4	573.8	854.4	883.8	150.4	83.0
102.5°	1198.4	955.3	1198.4	864.6	169.7	104.6
105°	1499.9	1425.6	1499.9	789.8	196.7	140.0
107.5°	1529.7	1615.8	1529.7	717.8	227.7	173.6
110°	1492.2	1648.6	1492.2	681.8	247.8	195.9

TEST NUMBER: P1191339

CATALOG NUMBER: SQ2-FA-100U-100D-L935-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1429.1	1627.0	1429.1	660.2	267.8	217.5
115°	1321.9	1552.6	1321.9	638.8	296.8	248.9
117.5°	1221.4	1457.6	1221.4	631.2	325.5	280.1
120°	1162.8	1389.6	1162.8	628.8	343.9	300.9
122.5°	1111.3	1320.8	1111.3	628.8	360.8	320.1
125°	1043.9	1228.7	1043.9	629.8	386.0	347.9
127.5°	993.1	1150.7	993.1	628.8	410.0	370.5
130°	964.0	1106.7	964.0	628.8	426.0	384.9
132.5°	937.3	1069.1	937.3	628.0	439.5	397.7
135°	900.3	1012.7	900.3	625.8	460.9	416.9
137.5°	860.7	964.9	860.7	625.8	480.1	438.3
140°	835.0	933.8	835.0	625.8	492.9	451.9
142.5°	811.5	897.8	811.5	625.0	505.0	465.5
145°	774.4	846.8	774.4	625.8	523.0	486.9
147.5°	743.9	799.4	743.9	627.0	539.0	508.3
150°	726.9	773.8	726.9	627.8	550.2	521.9
152.5°	712.3	750.6	712.3	628.6	559.9	534.7
155°	694.4	720.8	694.4	629.8	573.4	554.9
157.5°	681.2	699.6	681.2	631.0	587.5	572.4
160°	673.1	686.8	673.1	631.8	595.6	582.8
162.5°	665.9	677.2	665.9	632.6	602.8	593.2
165°	657.0	664.8	657.0	632.8	613.7	606.8
167.5°	650.1	653.4	650.1	634.0	622.0	618.4
170°	646.8	647.8	646.8	634.8	626.8	624.8
172.5°	643.6	643.8	643.6	634.8	630.0	628.8
175°	640.8	638.8	640.8	635.8	634.8	634.8
177.5°	638.4	636.8	638.4	636.0	636.8	637.6
180°	636.8	636.8	636.8	636.8	636.8	636.8

TEST NUMBER: P1191339

CATALOG NUMBER: SQ2-FA-100U-100D-L935-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	17.32	18.16	18.29	19.15	20.44	18.54	19.39	19.51	20.37	21.66
	3H	18.41	19.17	19.39	20.16	21.47	19.79	20.54	20.77	21.54	22.85
	4H	18.76	19.48	19.75	20.47	21.79	20.17	20.89	21.17	21.89	23.21
	6H	18.92	19.58	19.93	20.58	21.92	20.33	21.00	21.34	22.00	23.33
	8H	18.96	19.58	19.97	20.60	21.93	20.36	20.99	21.37	22.01	23.34
	12H	18.95	19.55	19.97	20.56	21.92	20.34	20.94	21.36	21.95	23.31
4H	2H	18.24	18.96	19.24	19.96	21.28	19.16	19.87	20.16	20.87	22.19
	3H	19.61	20.21	20.62	21.23	22.57	20.61	21.20	21.62	22.23	23.56
	4H	20.06	20.60	21.07	21.62	22.98	21.07	21.62	22.09	22.64	23.99
	6H	20.28	20.75	21.31	21.79	23.15	21.29	21.76	22.32	22.80	24.16
	8H	20.34	20.78	21.37	21.81	23.18	21.34	21.78	22.37	22.81	24.18
	12H	20.34	20.74	21.39	21.79	23.16	21.33	21.73	22.38	22.77	24.15
8H	4H	20.45	20.89	21.48	21.93	23.30	21.28	21.72	22.31	22.75	24.12
	6H	20.80	21.16	21.85	22.24	23.60	21.59	21.95	22.64	23.03	24.40
	8H	20.91	21.23	21.97	22.29	23.68	21.68	22.00	22.75	23.06	24.45
	12H	20.95	21.23	22.01	22.28	23.71	21.70	21.98	22.76	23.03	24.46
12H	4H	20.46	20.85	21.50	21.90	23.28	21.25	21.65	22.30	22.69	24.07
	6H	20.87	21.19	21.93	22.25	23.64	21.61	21.93	22.67	22.99	24.38
	8H	21.01	21.29	22.08	22.35	23.78	21.72	22.00	22.79	23.06	24.49