

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: P1191362

Luminaire Tested: SQ2-FA-125U-100D-L930-UNV-STD-W-4

Issue Date: 9/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1191362
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-125U-100D-L930-UNV-STD-W-4
Description: CORELITE SQ2 LED LUMINAIRE
FROSTED CONTINUOUS ASYMMETRIC ROLL LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

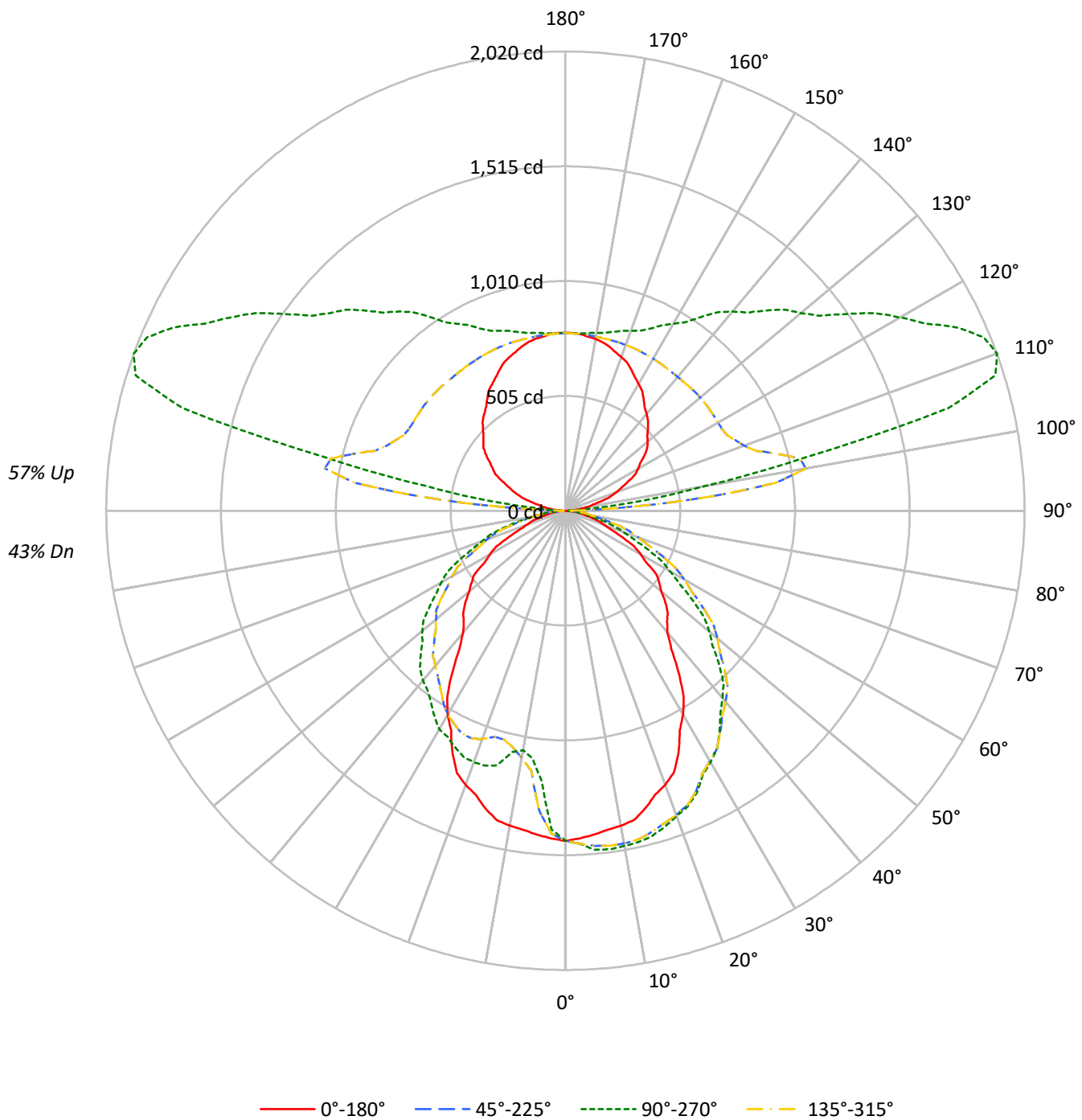
Lumens per Lamp: N/A
Luminaire Lumens: 8431.1 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 81.5
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42
2	88	80	74	69	80	74	69	64	61	57	54	49	47	45	39	37	35
3	80	71	63	58	73	65	59	54	54	49	45	44	40	38	34	32	30
4	73	62	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20
7	57	45	37	32	52	41	34	30	35	29	25	29	25	22	23	20	18
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	1.5
10°-20°	365.1	4.3
20°-30°	554.5	6.6
30°-40°	650.9	7.7
40°-50°	660.5	7.8
50°-60°	578.6	6.9
60°-70°	410.5	4.9
70°-80°	211.4	2.5
80°-90°	45.2	0.5
90°-100°	299.1	3.5
100°-110°	973.7	11.5
110°-120°	963.2	11.4
120°-130°	787.1	9.3
130°-140°	643.3	7.6
140°-150°	501.1	5.9
150°-160°	361.2	4.3
160°-170°	220.8	2.6
170°-180°	74.5	0.9
0°-30°	1050.2	12.5
0°-40°	1701.1	20.2
0°-60°	2940.2	34.9
0°-90°	3607.2	42.8
90°-120°	2236.0	26.5
90°-150°	4167.5	49.4
90°-180°	4824.0	57.2
0°-180°	8431.1	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	3
95°	40	120	40	120	40	47
105°	165	1744	165	1744	165	176
115°	306	1905	306	1905	306	303
125°	425	1507	425	1507	425	378
135°	514	1244	514	1244	514	397
145°	600	1040	600	1040	600	376
155°	685	883	685	883	685	315
165°	747	814	747	814	747	210
175°	779	783	779	783	779	74
180°	782	782	782	782	782	

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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	5.1	10.4	5.7	5.7	5.7	10.4	5.1	4.5	9.5	10.4
90°	0.0	2.8	6.7	5.8	5.8	5.8	6.7	2.8	0.0	2.8	6.7
92.5°	13.8	49.8	159.1	52.4	40.4	52.4	159.1	49.8	13.8	49.8	159.1
95°	40.4	123.1	548.2	195.4	120.2	195.4	548.2	123.1	40.4	123.1	548.2
97.5°	76.0	160.2	930.3	566.6	345.8	566.6	930.3	160.2	76.0	160.2	930.3
100°	99.1	181.8	1074.2	957.9	621.3	957.9	1074.2	181.8	99.1	181.8	1074.2
102.5°	125.2	205.0	1056.5	1417.1	1077.5	1417.1	1056.5	205.0	125.2	205.0	1056.5
105°	165.4	238.8	964.6	1842.3	1744.5	1842.3	964.6	238.8	165.4	238.8	964.6
107.5°	208.9	277.9	877.3	1879.2	1982.8	1879.2	877.3	277.9	208.9	277.9	877.3
110°	240.4	303.4	835.7	1833.4	2020.5	1833.4	835.7	303.4	240.4	303.4	835.7

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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°	266.6	328.8	809.5	1750.8	1992.0	1750.8	809.5	328.8	266.6	328.8	809.5
115°	305.8	365.1	785.7	1619.2	1905.1	1619.2	785.7	365.1	305.8	365.1	785.7
117.5°	346.2	399.6	776.5	1498.8	1783.4	1498.8	776.5	399.6	346.2	399.6	776.5
120°	369.3	421.9	774.2	1424.8	1700.3	1424.8	774.2	421.9	369.3	421.9	774.2
122.5°	391.6	443.5	774.9	1360.5	1617.2	1360.5	774.9	443.5	391.6	443.5	774.9
125°	425.1	474.0	775.1	1278.5	1507.0	1278.5	775.1	474.0	425.1	474.0	775.1
127.5°	453.7	503.7	774.9	1217.0	1407.5	1217.0	774.9	503.7	453.7	503.7	774.9
130°	472.2	523.0	774.2	1181.9	1352.1	1181.9	774.2	523.0	472.2	523.0	774.2
132.5°	488.3	541.4	773.4	1149.4	1309.0	1149.4	773.4	541.4	488.3	541.4	773.4
135°	513.5	567.1	771.3	1103.4	1244.4	1103.4	771.3	567.1	513.5	567.1	771.3
137.5°	538.2	592.1	769.2	1056.7	1181.9	1056.7	769.2	592.1	538.2	592.1	769.2
140°	555.9	607.6	768.4	1025.0	1143.4	1025.0	768.4	607.6	555.9	607.6	768.4
142.5°	572.8	622.2	768.4	994.7	1100.4	994.7	768.4	622.2	572.8	622.2	768.4
145°	600.1	644.3	769.4	950.3	1040.5	950.3	769.4	644.3	600.1	644.3	769.4
147.5°	626.6	665.0	770.7	912.5	982.3	912.5	770.7	665.0	626.6	665.0	770.7
150°	644.3	678.2	772.2	889.9	949.2	889.9	772.2	678.2	644.3	678.2	772.2
152.5°	662.0	689.9	773.0	872.7	920.0	872.7	773.0	689.9	662.0	689.9	773.0
155°	684.7	707.3	774.2	850.9	882.8	850.9	774.2	707.3	684.7	707.3	774.2
157.5°	706.3	722.4	775.3	834.7	857.1	834.7	775.3	722.4	706.3	722.4	775.3
160°	719.3	732.5	776.1	824.6	842.4	824.6	776.1	732.5	719.3	732.5	776.1
162.5°	730.9	741.0	776.1	816.0	829.4	816.0	776.1	741.0	730.9	741.0	776.1
165°	747.2	753.8	776.1	805.1	814.5	805.1	776.1	753.8	747.2	753.8	776.1
167.5°	758.8	762.9	776.3	797.0	801.9	797.0	776.3	762.9	758.8	762.9	776.3
170°	766.5	768.3	777.0	791.5	793.4	791.5	777.0	768.3	766.5	768.3	777.0
172.5°	771.9	773.0	778.6	788.4	788.0	788.4	778.6	773.0	771.9	773.0	778.6
175°	779.0	779.0	779.0	784.7	782.8	784.7	779.0	779.0	779.0	779.0	779.0
177.5°	781.9	781.1	780.3	784.1	781.1	784.1	780.3	781.1	781.9	781.1	780.3
180°	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9	781.9

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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°	10.2	10.2	10.2	10.4	9.5	4.5
90°	5.8	5.8	5.8	6.7	2.8	0.0
92.5°	52.4	40.4	52.4	159.1	49.8	13.8
95°	195.4	120.2	195.4	548.2	123.1	40.4
97.5°	566.6	345.8	566.6	930.3	160.2	76.0
100°	957.9	621.3	957.9	1074.2	181.8	99.1
102.5°	1417.1	1077.5	1417.1	1056.5	205.0	125.2
105°	1842.3	1744.5	1842.3	964.6	238.8	165.4
107.5°	1879.2	1982.8	1879.2	877.3	277.9	208.9
110°	1833.4	2020.5	1833.4	835.7	303.4	240.4

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1750.8	1992.0	1750.8	809.5	328.8	266.6
115°	1619.2	1905.1	1619.2	785.7	365.1	305.8
117.5°	1498.8	1783.4	1498.8	776.5	399.6	346.2
120°	1424.8	1700.3	1424.8	774.2	421.9	369.3
122.5°	1360.5	1617.2	1360.5	774.9	443.5	391.6
125°	1278.5	1507.0	1278.5	775.1	474.0	425.1
127.5°	1217.0	1407.5	1217.0	774.9	503.7	453.7
130°	1181.9	1352.1	1181.9	774.2	523.0	472.2
132.5°	1149.4	1309.0	1149.4	773.4	541.4	488.3
135°	1103.4	1244.4	1103.4	771.3	567.1	513.5
137.5°	1056.7	1181.9	1056.7	769.2	592.1	538.2
140°	1025.0	1143.4	1025.0	768.4	607.6	555.9
142.5°	994.7	1100.4	994.7	768.4	622.2	572.8
145°	950.3	1040.5	950.3	769.4	644.3	600.1
147.5°	912.5	982.3	912.5	770.7	665.0	626.6
150°	889.9	949.2	889.9	772.2	678.2	644.3
152.5°	872.7	920.0	872.7	773.0	689.9	662.0
155°	850.9	882.8	850.9	774.2	707.3	684.7
157.5°	834.7	857.1	834.7	775.3	722.4	706.3
160°	824.6	842.4	824.6	776.1	732.5	719.3
162.5°	816.0	829.4	816.0	776.1	741.0	730.9
165°	805.1	814.5	805.1	776.1	753.8	747.2
167.5°	797.0	801.9	797.0	776.3	762.9	758.8
170°	791.5	793.4	791.5	777.0	768.3	766.5
172.5°	788.4	788.0	788.4	778.6	773.0	771.9
175°	784.7	782.8	784.7	779.0	779.0	779.0
177.5°	784.1	781.1	784.1	780.3	781.1	781.9
180°	781.9	781.9	781.9	781.9	781.9	781.9

TEST NUMBER: P1191362

CATALOG NUMBER: SQ2-FA-125U-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	16.61	17.40	17.62	18.43	19.80	17.83	18.63	18.85	19.66	21.03
	3H	17.69	18.41	18.72	19.44	20.83	19.07	19.78	20.10	20.82	22.21
	4H	18.04	18.72	19.08	19.76	21.15	19.46	20.13	20.50	21.17	22.57
	6H	18.20	18.82	19.25	19.87	21.28	19.61	20.24	20.66	21.28	22.69
	8H	18.23	18.83	19.29	19.88	21.29	19.64	20.23	20.69	21.29	22.69
	12H	18.23	18.79	19.29	19.84	21.27	19.62	20.18	20.68	21.23	22.66
4H	2H	17.53	18.20	18.57	19.24	20.64	18.44	19.12	19.48	20.15	21.55
	3H	18.89	19.45	19.94	20.52	21.93	19.88	20.45	20.94	21.51	22.92
	4H	19.33	19.85	20.39	20.90	22.34	20.35	20.86	21.41	21.92	23.35
	6H	19.56	20.00	20.63	21.08	22.51	20.57	21.01	21.64	22.09	23.52
	8H	19.61	20.02	20.68	21.10	22.54	20.61	21.03	21.68	22.10	23.54
	12H	19.61	19.98	20.70	21.07	22.52	20.60	20.97	21.69	22.06	23.51
8H	4H	19.73	20.14	20.80	21.21	22.66	20.55	20.97	21.62	22.04	23.48
	6H	20.07	20.41	21.16	21.52	22.96	20.86	21.20	21.95	22.32	23.76
	8H	20.18	20.48	21.28	21.58	23.04	20.95	21.25	22.05	22.35	23.81
	12H	20.22	20.48	21.32	21.57	23.07	20.96	21.23	22.07	22.32	23.82
12H	4H	19.73	20.10	20.81	21.19	22.63	20.52	20.89	21.61	21.98	23.43
	6H	20.14	20.44	21.24	21.54	23.00	20.88	21.18	21.98	22.28	23.74
	8H	20.28	20.54	21.39	21.64	23.14	20.99	21.25	22.09	22.34	23.84