

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: P1191357

Luminaire Tested: SQ2-FA-125U-075D-L935-UNV-STD-W-4

Issue Date: 9/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1191357
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-075D-L935-UNV-STD-W-4
Description: CORELITE SQ2 LED LUMINAIRE
FROSTED CONTINUOUS ASYMMETRIC ROLL LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

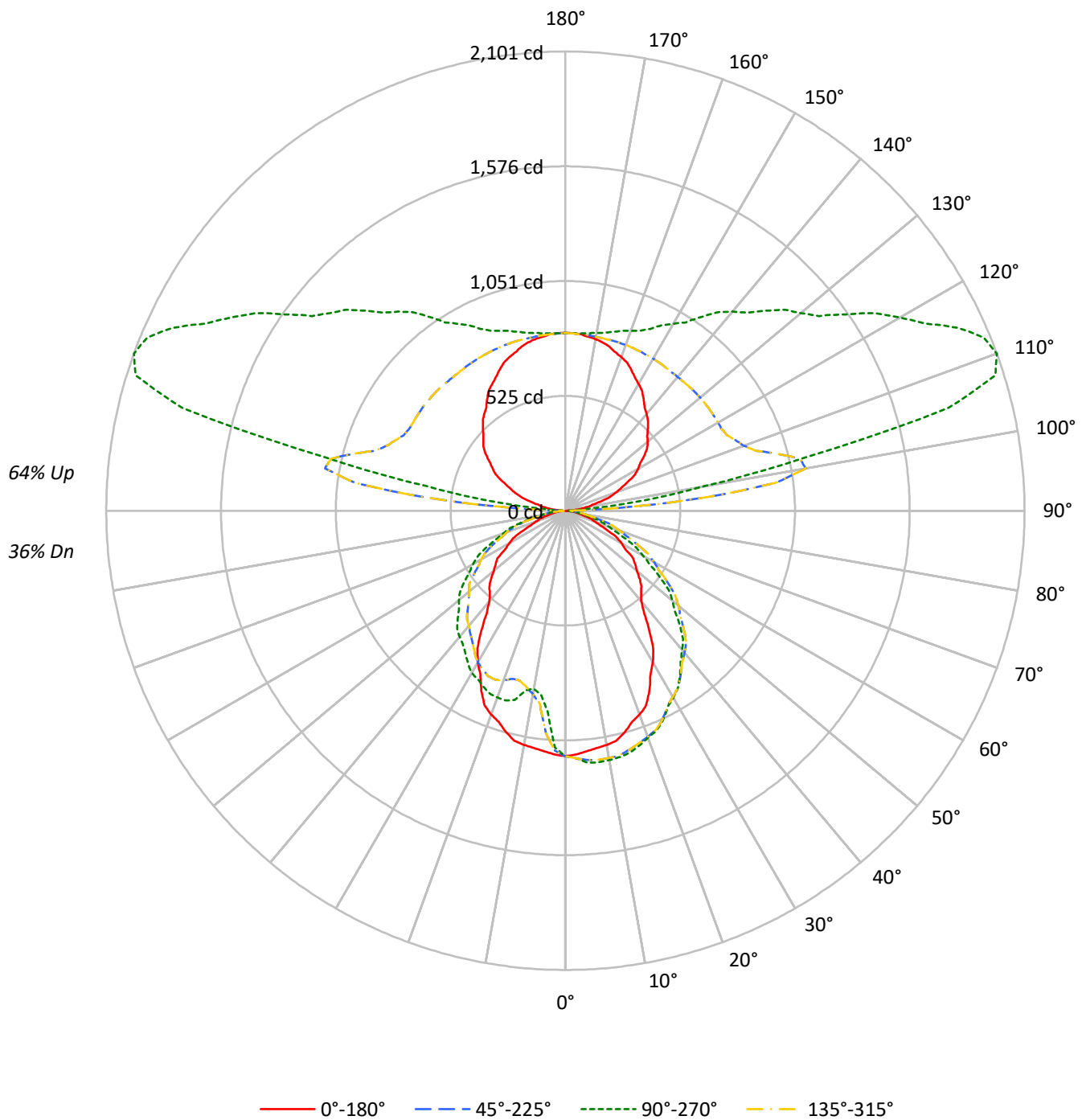
Lumens per Lamp: N/A
Luminaire Lumens: 7805.2 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 70.6
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: P1191357

CATALOG NUMBER: SQ2-FA-125U-075D-L935-UNV-STD-W-4

Luminous Intensity Polar Plot



TEST NUMBER: P1191357

CATALOG NUMBER: SQ2-FA-125U-075D-L935-UNV-STD-W-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	104	104	104	104	94	94	94	94	75	75	75	59	59	59	43	43	43
1	95	90	87	83	86	82	79	76	66	64	62	52	50	49	38	37	36
2	86	79	73	68	78	72	67	62	58	54	51	45	43	41	34	32	31
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	26
4	72	61	54	48	65	56	49	44	45	41	37	36	32	30	27	24	23
5	66	55	47	41	59	50	43	38	40	35	32	32	28	25	24	22	20
6	61	49	41	35	55	45	38	33	36	31	27	29	25	22	22	19	17
7	56	44	36	31	50	40	33	29	33	28	24	26	22	20	20	17	15
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	16	14
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	18130	18130	18130	18130
5°	17917	18763	17917	14955
10°	17839	18980	17839	13559
15°	17533	19134	17533	14987
20°	17050	18995	17050	15631
25°	16206	18841	16206	15818
30°	14930	18420	14930	15985
35°	13212	18015	13212	15699
40°	11375	17521	11375	15871
45°	11230	16895	11230	15901
50°	10713	16071	10713	15963
55°	10660	14823	10660	15806
60°	9558	13211	9558	15742
65°	8149	11641	8149	15297
70°	6576	9862	6576	14176
75°	5702	8147	5702	13032
80°	4854	6072	4854	10525
85°	3223	3223	3223	6447

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 17491 cd/sqm

TEST NUMBER: P1191357

CATALOG NUMBER: SQ2-FA-125U-075D-L935-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	1.3
10°-20°	282.3	3.6
20°-30°	428.8	5.5
30°-40°	503.3	6.4
40°-50°	510.8	6.5
50°-60°	447.4	5.7
60°-70°	317.4	4.1
70°-80°	163.5	2.1
80°-90°	35.2	0.5
90°-100°	311.0	4.0
100°-110°	1012.4	13.0
110°-120°	1001.4	12.8
120°-130°	818.4	10.5
130°-140°	668.9	8.6
140°-150°	521.0	6.7
150°-160°	375.5	4.8
160°-170°	229.5	2.9
170°-180°	77.4	1.0
0°-30°	812.1	10.4
0°-40°	1315.5	16.9
0°-60°	2273.7	29.1
0°-90°	2789.7	35.7
90°-120°	2324.8	29.8
90°-150°	4333.0	55.5
90°-180°	5015.0	64.3
0°-180°	7805.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1123	1123	1123	1123	1123	
5°	1106	1158	1106	923	1106	105
15°	1049	1145	1049	897	1049	295
25°	910	1058	910	888	910	415
35°	670	914	670	796	670	418
45°	492	740	492	696	492	376
55°	379	527	379	562	379	328
65°	213	305	213	400	213	213
75°	91	131	91	209	91	99
85°	17	17	17	35	17	22
90°	0	6	0	6	0	2
95°	42	125	42	125	42	49
105°	172	1814	172	1814	172	183
115°	318	1981	318	1981	318	315
125°	442	1567	442	1567	442	393
135°	534	1294	534	1294	534	412
145°	624	1082	624	1082	624	391
155°	712	918	712	918	712	328
165°	777	847	777	847	777	219
175°	810	814	810	814	810	77
180°	813	813	813	813	813	

TEST NUMBER: P1191357

CATALOG NUMBER: SQ2-FA-125U-075D-L935-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9
2.5°	1116.0	1133.0	1133.4	1133.4	1133.4	1133.4	1133.4	1133.0	1116.0	1116.0	1098.5
5°	1105.5	1135.3	1144.7	1149.2	1157.7	1149.2	1144.7	1135.3	1105.5	1092.7	1022.8
7.5°	1095.1	1135.1	1149.0	1157.0	1161.2	1157.0	1149.0	1135.1	1095.1	1038.0	891.4
10°	1088.1	1134.9	1149.0	1153.5	1157.7	1153.5	1149.0	1134.9	1088.1	973.2	853.1
12.5°	1077.7	1127.9	1145.6	1150.0	1154.3	1150.0	1145.6	1127.9	1077.7	915.1	825.2
15°	1048.9	1117.0	1131.6	1140.4	1144.7	1140.4	1131.6	1117.0	1048.9	865.9	805.2
17.5°	1013.2	1095.8	1115.1	1123.0	1126.4	1123.0	1115.1	1095.8	1013.2	821.7	806.1
20°	992.3	1081.7	1101.2	1105.5	1105.5	1105.5	1101.2	1081.7	992.3	800.8	827.0
22.5°	964.5	1064.1	1083.7	1084.7	1088.1	1084.7	1083.7	1064.1	964.5	776.4	837.4
25°	909.7	1024.6	1053.3	1049.1	1057.6	1049.1	1053.3	1024.6	909.7	743.7	835.7
27.5°	842.6	987.3	1008.0	1012.4	1012.4	1012.4	1008.0	987.3	842.6	711.6	818.3
30°	800.8	962.6	983.6	988.0	988.0	988.0	983.6	962.6	800.8	690.2	800.8
32.5°	748.6	941.0	959.3	960.1	960.1	960.1	959.3	941.0	748.6	668.6	773.0
35°	670.3	904.3	918.4	918.3	914.0	918.3	918.4	904.3	670.3	636.2	739.9
37.5°	591.9	857.5	876.6	870.4	866.1	870.4	876.6	857.5	591.9	603.0	712.1
40°	539.7	829.1	848.7	835.6	831.3	835.6	848.7	829.1	539.7	578.0	687.7
42.5°	511.8	797.8	817.4	800.7	796.5	800.7	817.4	797.8	511.8	553.5	666.8
45°	491.8	747.2	766.0	748.4	739.9	748.4	766.0	747.2	491.8	517.4	631.1
47.5°	461.4	686.1	712.9	686.6	678.1	686.6	712.9	686.1	461.4	480.1	598.9
50°	426.5	647.8	674.6	648.3	639.8	648.3	674.6	647.8	426.5	452.1	574.5
52.5°	402.2	609.8	632.8	603.0	594.5	603.0	632.8	609.8	402.2	417.5	553.6
55°	378.7	553.1	570.2	539.4	526.6	539.4	570.2	553.1	378.7	365.9	513.6
57.5°	323.8	489.8	507.5	472.3	457.9	472.3	507.5	489.8	323.8	312.8	471.8
60°	296.0	444.9	465.7	430.4	409.1	430.4	465.7	444.9	296.0	274.7	443.9
62.5°	264.6	396.6	423.9	388.6	367.3	388.6	423.9	396.6	264.6	250.2	412.6
65°	213.3	328.2	361.2	325.9	304.7	325.9	361.2	328.2	213.3	221.8	361.2
67.5°	167.1	265.9	302.9	264.2	247.2	264.2	302.9	265.9	167.1	195.2	314.2
70°	139.3	224.4	261.1	225.9	208.9	225.9	261.1	224.4	139.3	177.6	282.9
72.5°	121.9	186.6	226.3	187.7	174.1	187.7	226.3	186.6	121.9	160.2	244.6
75°	91.4	129.7	174.1	139.1	130.6	139.1	174.1	129.7	91.4	129.7	191.5
77.5°	66.2	84.0	122.7	93.1	89.7	93.1	122.7	84.0	66.2	97.6	139.3
80°	52.2	56.5	91.4	65.3	65.3	65.3	91.4	56.5	52.2	73.5	104.5
82.5°	34.8	39.1	63.5	44.3	40.9	44.3	63.5	39.1	34.8	52.7	73.1
85°	17.4	17.4	26.1	17.4	17.4	17.4	26.1	17.4	17.4	25.9	34.8
87.5°	3.5	4.1	8.4	4.7	4.7	4.7	8.4	4.1	3.5	7.5	8.4
90°	0.0	2.9	7.0	6.0	6.0	6.0	7.0	2.9	0.0	2.9	7.0
92.5°	14.4	51.7	165.4	54.5	42.0	54.5	165.4	51.7	14.4	51.7	165.4
95°	42.0	128.0	569.9	203.2	125.0	203.2	569.9	128.0	42.0	128.0	569.9
97.5°	79.0	166.6	967.3	589.1	359.6	589.1	967.3	166.6	79.0	166.6	967.3
100°	103.0	189.0	1116.9	995.9	645.9	995.9	1116.9	189.0	103.0	189.0	1116.9
102.5°	130.2	213.1	1098.5	1473.4	1120.3	1473.4	1098.5	213.1	130.2	213.1	1098.5
105°	172.0	248.2	1002.9	1915.5	1813.8	1915.5	1002.9	248.2	172.0	248.2	1002.9
107.5°	217.2	288.9	912.1	1953.8	2061.6	1953.8	912.1	288.9	217.2	288.9	912.1
110°	250.0	315.5	868.9	1906.2	2100.8	1906.2	868.9	315.5	250.0	315.5	868.9

TEST NUMBER: P1191357

CATALOG NUMBER: SQ2-FA-125U-075D-L935-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°	277.2	341.9	841.7	1820.3	2071.2	1820.3	841.7	341.9	277.2	341.9	841.7
115°	318.0	379.6	816.9	1683.6	1980.8	1683.6	816.9	379.6	318.0	379.6	816.9
117.5°	360.0	415.5	807.3	1558.3	1854.2	1558.3	807.3	415.5	360.0	415.5	807.3
120°	384.0	438.7	804.9	1481.3	1767.8	1481.3	804.9	438.7	384.0	438.7	804.9
122.5°	407.2	461.1	805.7	1414.5	1681.4	1414.5	805.7	461.1	407.2	461.1	805.7
125°	441.9	492.8	805.9	1329.2	1566.8	1329.2	805.9	492.8	441.9	492.8	805.9
127.5°	471.7	523.8	805.7	1265.4	1463.4	1265.4	805.7	523.8	471.7	523.8	805.7
130°	490.9	543.7	804.9	1228.9	1405.8	1228.9	804.9	543.7	490.9	543.7	804.9
132.5°	507.7	562.9	804.1	1195.0	1361.0	1195.0	804.1	562.9	507.7	562.9	804.1
135°	533.9	589.7	801.9	1147.2	1293.9	1147.2	801.9	589.7	533.9	589.7	801.9
137.5°	559.5	615.7	799.7	1098.6	1228.9	1098.6	799.7	615.7	559.5	615.7	799.7
140°	577.9	631.7	798.9	1065.7	1188.9	1065.7	798.9	631.7	577.9	631.7	798.9
142.5°	595.5	647.0	798.9	1034.2	1144.1	1034.2	798.9	647.0	595.5	647.0	798.9
145°	623.9	669.9	799.9	988.0	1081.9	988.0	799.9	669.9	623.9	669.9	799.9
147.5°	651.5	691.4	801.3	948.7	1021.3	948.7	801.3	691.4	651.5	691.4	801.3
150°	669.9	705.1	802.9	925.3	986.9	925.3	802.9	705.1	669.9	705.1	802.9
152.5°	688.3	717.3	803.7	907.4	956.5	907.4	803.7	717.3	688.3	717.3	803.7
155°	711.9	735.4	804.9	884.7	917.9	884.7	804.9	735.4	711.9	735.4	804.9
157.5°	734.3	751.1	806.1	867.8	891.1	867.8	806.1	751.1	734.3	751.1	806.1
160°	747.9	761.6	806.9	857.3	875.9	857.3	806.9	761.6	747.9	761.6	806.9
162.5°	759.9	770.5	806.9	848.4	862.3	848.4	806.9	770.5	759.9	770.5	806.9
165°	776.9	783.8	806.9	837.1	846.9	837.1	806.9	783.8	776.9	783.8	806.9
167.5°	788.9	793.2	807.1	828.6	833.7	828.6	807.1	793.2	788.9	793.2	807.1
170°	796.9	798.9	807.9	823.0	824.9	823.0	807.9	798.9	796.9	798.9	807.9
172.5°	802.5	803.7	809.5	819.7	819.3	819.7	809.5	803.7	802.5	803.7	809.5
175°	809.9	809.9	809.9	815.9	813.9	815.9	809.9	809.9	809.9	809.9	809.9
177.5°	812.9	812.1	811.3	815.2	812.1	815.2	811.3	812.1	812.9	812.1	811.3
180°	812.9	812.9	812.9	812.9	812.9	812.9	812.9	812.9	812.9	812.9	812.9

TEST NUMBER: P1191357

CATALOG NUMBER: SQ2-FA-125U-075D-L935-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1122.9	1122.9	1122.9	1122.9	1122.9	1122.9
2.5°	1088.0	1084.6	1088.0	1098.5	1116.0	1116.0
5°	944.0	922.7	944.0	1022.8	1092.7	1105.5
7.5°	858.1	851.3	858.1	891.4	1038.0	1095.1
10°	827.0	827.0	827.0	853.1	973.2	1088.1
12.5°	823.9	840.9	823.9	825.2	915.1	1077.7
15°	875.3	896.6	875.3	805.2	865.9	1048.9
17.5°	892.6	909.7	892.6	806.1	821.7	1013.2
20°	892.6	909.7	892.6	827.0	800.8	992.3
22.5°	889.1	906.2	889.1	837.4	776.4	964.5
25°	879.4	887.9	879.4	835.7	743.7	909.7
27.5°	861.9	867.9	861.9	818.3	711.6	842.6
30°	844.7	857.4	844.7	800.8	690.2	800.8
32.5°	827.0	829.6	827.0	773.0	668.6	748.6
35°	800.7	796.5	800.7	739.9	636.2	670.3
37.5°	765.3	770.4	765.3	712.1	603.0	591.9
40°	744.5	753.0	744.5	687.7	578.0	539.7
42.5°	723.6	732.1	723.6	666.8	553.5	511.8
45°	692.1	696.4	692.1	631.1	517.4	491.8
47.5°	655.6	659.8	655.6	598.9	480.1	461.4
50°	631.2	635.5	631.2	574.5	452.1	426.5
52.5°	603.3	607.6	603.3	553.6	417.5	402.2
55°	561.5	561.5	561.5	513.6	365.9	378.7
57.5°	513.7	518.8	513.7	471.8	312.8	323.8
60°	479.0	487.5	479.0	443.9	274.7	296.0
62.5°	447.5	452.7	447.5	412.6	250.2	264.6
65°	396.2	400.4	396.2	361.2	221.8	213.3
67.5°	338.7	342.1	338.7	314.2	195.2	167.1
70°	300.3	300.3	300.3	282.9	177.6	139.3
72.5°	262.1	265.5	262.1	244.6	160.2	121.9
75°	204.7	208.9	204.7	191.5	129.7	91.4
77.5°	147.2	151.5	147.2	139.3	97.6	66.2
80°	108.9	113.2	108.9	104.5	73.5	52.2
82.5°	77.5	78.3	77.5	73.1	52.7	34.8
85°	34.8	34.8	34.8	34.8	25.9	17.4
87.5°	8.2	8.2	8.2	8.4	7.5	3.5
90°	6.0	6.0	6.0	7.0	2.9	0.0
92.5°	54.5	42.0	54.5	165.4	51.7	14.4
95°	203.2	125.0	203.2	569.9	128.0	42.0
97.5°	589.1	359.6	589.1	967.3	166.6	79.0
100°	995.9	645.9	995.9	1116.9	189.0	103.0
102.5°	1473.4	1120.3	1473.4	1098.5	213.1	130.2
105°	1915.5	1813.8	1915.5	1002.9	248.2	172.0
107.5°	1953.8	2061.6	1953.8	912.1	288.9	217.2
110°	1906.2	2100.8	1906.2	868.9	315.5	250.0

TEST NUMBER: P1191357

CATALOG NUMBER: SQ2-FA-125U-075D-L935-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1820.3	2071.2	1820.3	841.7	341.9	277.2
115°	1683.6	1980.8	1683.6	816.9	379.6	318.0
117.5°	1558.3	1854.2	1558.3	807.3	415.5	360.0
120°	1481.3	1767.8	1481.3	804.9	438.7	384.0
122.5°	1414.5	1681.4	1414.5	805.7	461.1	407.2
125°	1329.2	1566.8	1329.2	805.9	492.8	441.9
127.5°	1265.4	1463.4	1265.4	805.7	523.8	471.7
130°	1228.9	1405.8	1228.9	804.9	543.7	490.9
132.5°	1195.0	1361.0	1195.0	804.1	562.9	507.7
135°	1147.2	1293.9	1147.2	801.9	589.7	533.9
137.5°	1098.6	1228.9	1098.6	799.7	615.7	559.5
140°	1065.7	1188.9	1065.7	798.9	631.7	577.9
142.5°	1034.2	1144.1	1034.2	798.9	647.0	595.5
145°	988.0	1081.9	988.0	799.9	669.9	623.9
147.5°	948.7	1021.3	948.7	801.3	691.4	651.5
150°	925.3	986.9	925.3	802.9	705.1	669.9
152.5°	907.4	956.5	907.4	803.7	717.3	688.3
155°	884.7	917.9	884.7	804.9	735.4	711.9
157.5°	867.8	891.1	867.8	806.1	751.1	734.3
160°	857.3	875.9	857.3	806.9	761.6	747.9
162.5°	848.4	862.3	848.4	806.9	770.5	759.9
165°	837.1	846.9	837.1	806.9	783.8	776.9
167.5°	828.6	833.7	828.6	807.1	793.2	788.9
170°	823.0	824.9	823.0	807.9	798.9	796.9
172.5°	819.7	819.3	819.7	809.5	803.7	802.5
175°	815.9	813.9	815.9	809.9	809.9	809.9
177.5°	815.2	812.1	815.2	811.3	812.1	812.9
180°	812.9	812.9	812.9	812.9	812.9	812.9

TEST NUMBER: P1191357

CATALOG NUMBER: SQ2-FA-125U-075D-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	14.93	15.68	16.01	16.75	18.21	16.16	16.90	17.23	17.98	19.44
	3H	16.02	16.68	17.10	17.76	19.24	17.39	18.06	18.47	19.14	20.62
	4H	16.36	17.00	17.45	18.08	19.56	17.78	18.41	18.87	19.49	20.98
	6H	16.52	17.10	17.62	18.19	19.68	17.93	18.51	19.03	19.60	21.10
	8H	16.55	17.10	17.66	18.21	19.70	17.95	18.51	19.06	19.61	21.10
	12H	16.54	17.07	17.65	18.16	19.68	17.93	18.46	19.04	19.56	21.07
4H	2H	15.85	16.48	16.95	17.56	19.05	16.76	17.39	17.86	18.47	19.96
	3H	17.21	17.73	18.31	18.84	20.34	18.20	18.73	19.30	19.84	21.33
	4H	17.65	18.13	18.76	19.23	20.75	18.66	19.15	19.77	20.24	21.76
	6H	17.87	18.28	18.98	19.40	20.91	18.88	19.29	19.99	20.41	21.93
	8H	17.92	18.31	19.04	19.42	20.95	18.92	19.31	20.04	20.42	21.95
	12H	17.92	18.27	19.05	19.39	20.93	18.90	19.26	20.04	20.38	21.91
8H	4H	18.04	18.42	19.15	19.54	21.06	18.86	19.25	19.98	20.36	21.89
	6H	18.38	18.69	19.51	19.85	21.38	19.17	19.49	20.31	20.64	22.17
	8H	18.49	18.77	19.64	19.91	21.45	19.26	19.54	20.41	20.68	22.22
	12H	18.52	18.77	19.67	19.90	21.48	19.27	19.51	20.42	20.65	22.23
12H	4H	18.03	18.38	19.17	19.51	21.04	18.82	19.17	19.96	20.30	21.83
	6H	18.45	18.73	19.59	19.86	21.41	19.19	19.47	20.33	20.60	22.15
	8H	18.59	18.83	19.73	19.96	21.54	19.29	19.54	20.44	20.67	22.25