

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: P1191356

Luminaire Tested: SQ2-FA-125U-075D-L930-UNV-STD-W-4

Issue Date: 9/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1191356
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-L930-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

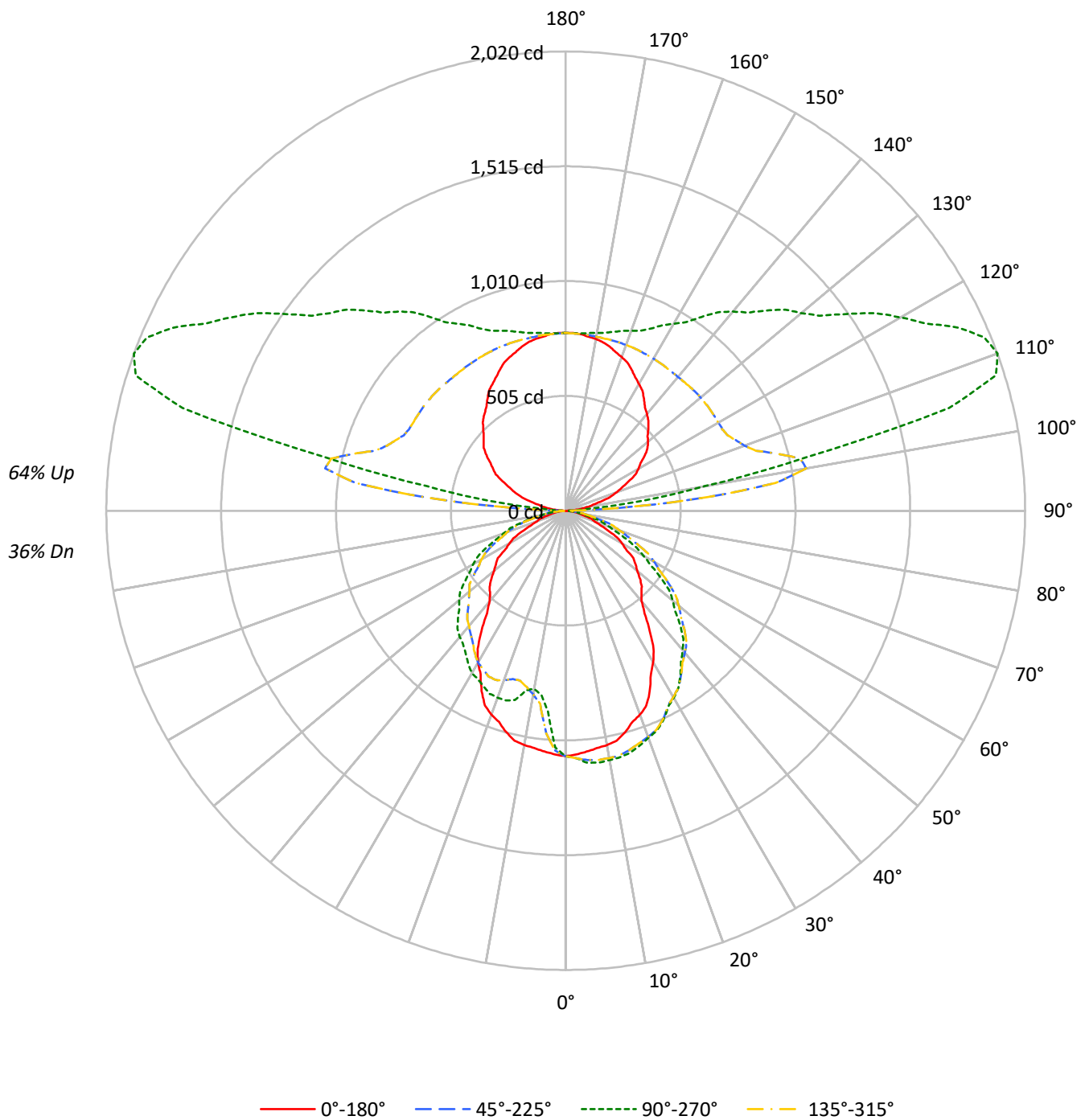
Lumens per Lamp: N/A
Luminaire Lumens: 7507.0 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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

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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	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°	17438	17438	17438	17438
5°	17233	18047	17233	14384
10°	17157	18256	17157	13041
15°	16864	18404	16864	14414
20°	16399	18270	16399	15033
25°	15586	18121	15586	15214
30°	14359	17717	14359	15375
35°	12707	17327	12707	15100
40°	10941	16853	10941	15264
45°	10800	16248	10800	15294
50°	10304	15458	10304	15352
55°	10252	14258	10252	15201
60°	9193	12707	9193	15138
65°	7836	11194	7836	14712
70°	6326	9484	6326	13633
75°	5483	7835	5483	12533
80°	4668	5839	4668	10116
85°	3094	3094	3094	6206

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 16824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	1.3
10°-20°	271.5	3.6
20°-30°	412.4	5.5
30°-40°	484.1	6.4
40°-50°	491.2	6.5
50°-60°	430.4	5.7
60°-70°	305.3	4.1
70°-80°	157.2	2.1
80°-90°	33.8	0.5
90°-100°	299.1	4.0
100°-110°	973.7	13.0
110°-120°	963.2	12.8
120°-130°	787.1	10.5
130°-140°	643.3	8.6
140°-150°	501.1	6.7
150°-160°	361.2	4.8
160°-170°	220.8	2.9
170°-180°	74.5	1.0
0°-30°	781.1	10.4
0°-40°	1265.2	16.9
0°-60°	2186.8	29.1
0°-90°	2683.1	35.7
90°-120°	2236.0	29.8
90°-150°	4167.5	55.5
90°-180°	4824.0	64.3
0°-180°	7507.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1080	1080	1080	1080	1080	
5°	1063	1114	1063	888	1063	101
15°	1009	1101	1009	862	1009	283
25°	875	1017	875	854	875	399
35°	645	879	645	766	645	402
45°	473	712	473	670	473	362
55°	364	506	364	540	364	315
65°	205	293	205	385	205	205
75°	88	126	88	201	88	95
85°	17	17	17	34	17	21
90°	0	6	0	6	0	2
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°	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0
2.5°	1073.3	1089.7	1090.1	1090.1	1090.1	1090.1	1090.1	1089.7	1073.3	1073.3	1056.6
5°	1063.3	1091.9	1101.0	1105.3	1113.5	1105.3	1101.0	1091.9	1063.3	1051.0	983.7
7.5°	1053.2	1091.7	1105.1	1112.8	1116.9	1112.8	1105.1	1091.7	1053.2	998.4	857.3
10°	1046.5	1091.6	1105.1	1109.4	1113.5	1109.4	1105.1	1091.6	1046.5	936.0	820.5
12.5°	1036.5	1084.8	1101.8	1106.1	1110.2	1106.1	1101.8	1084.8	1036.5	880.1	793.7
15°	1008.9	1074.3	1088.4	1096.9	1101.0	1096.9	1088.4	1074.3	1008.9	832.9	774.4
17.5°	974.5	1053.9	1072.5	1080.1	1083.4	1080.1	1072.5	1053.9	974.5	790.3	775.3
20°	954.4	1040.4	1059.1	1063.3	1063.3	1063.3	1059.1	1040.4	954.4	770.2	795.4
22.5°	927.6	1023.4	1042.3	1043.3	1046.5	1043.3	1042.3	1023.4	927.6	746.7	805.4
25°	874.9	985.4	1013.0	1009.0	1017.2	1009.0	1013.0	985.4	874.9	715.3	803.7
27.5°	810.4	949.6	969.5	973.7	973.7	973.7	969.5	949.6	810.4	684.4	787.0
30°	770.2	925.8	946.1	950.3	950.3	950.3	946.1	925.8	770.2	663.8	770.2
32.5°	720.0	905.0	922.6	923.5	923.5	923.5	922.6	905.0	720.0	643.1	743.5
35°	644.7	869.8	883.3	883.2	879.1	883.2	883.3	869.8	644.7	611.9	711.6
37.5°	569.3	824.7	843.1	837.1	833.0	837.1	843.1	824.7	569.3	580.0	684.9
40°	519.1	797.4	816.3	803.6	799.6	803.6	816.3	797.4	519.1	555.9	661.4
42.5°	492.3	767.3	786.2	770.2	766.1	770.2	786.2	767.3	492.3	532.4	641.3
45°	473.0	718.6	736.8	719.8	711.6	719.8	736.8	718.6	473.0	497.6	607.0
47.5°	443.7	659.8	685.7	660.4	652.2	660.4	685.7	659.8	443.7	461.7	576.0
50°	410.2	623.1	648.9	623.5	615.4	623.5	648.9	623.1	410.2	434.8	552.6
52.5°	386.8	586.5	608.7	580.0	571.8	580.0	608.7	586.5	386.8	401.5	532.5
55°	364.2	532.0	548.4	518.8	506.5	518.8	548.4	532.0	364.2	351.9	494.0
57.5°	311.4	471.1	488.1	454.3	440.4	454.3	488.1	471.1	311.4	300.8	453.8
60°	284.7	427.9	447.9	414.0	393.5	414.0	447.9	427.9	284.7	264.2	427.0
62.5°	254.5	381.4	407.7	373.8	353.3	373.8	407.7	381.4	254.5	240.6	396.8
65°	205.1	315.6	347.4	313.5	293.0	313.5	347.4	315.6	205.1	213.3	347.4
67.5°	160.7	255.7	291.4	254.1	237.8	254.1	291.4	255.7	160.7	187.8	302.2
70°	134.0	215.8	251.2	217.3	200.9	217.3	251.2	215.8	134.0	170.8	272.1
72.5°	117.2	179.4	217.7	180.5	167.4	180.5	217.7	179.4	117.2	154.0	235.3
75°	87.9	124.7	167.4	133.8	125.6	133.8	167.4	124.7	87.9	124.7	184.2
77.5°	63.6	80.8	118.0	89.5	86.2	89.5	118.0	80.8	63.6	93.9	134.0
80°	50.2	54.3	87.9	62.8	62.8	62.8	87.9	54.3	50.2	70.7	100.5
82.5°	33.5	37.6	61.1	42.6	39.3	42.6	61.1	37.6	33.5	50.7	70.3
85°	16.7	16.7	25.1	16.7	16.7	16.7	25.1	16.7	16.7	24.9	33.5
87.5°	3.3	3.9	8.0	4.5	4.5	4.5	8.0	3.9	3.3	7.2	8.0
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°	1080.0	1080.0	1080.0	1080.0	1080.0	1080.0
2.5°	1046.5	1043.2	1046.5	1056.6	1073.3	1073.3
5°	907.9	887.5	907.9	983.7	1051.0	1063.3
7.5°	825.4	818.8	825.4	857.3	998.4	1053.2
10°	795.4	795.4	795.4	820.5	936.0	1046.5
12.5°	792.4	808.8	792.4	793.7	880.1	1036.5
15°	841.9	862.3	841.9	774.4	832.9	1008.9
17.5°	858.5	874.9	858.5	775.3	790.3	974.5
20°	858.5	874.9	858.5	795.4	770.2	954.4
22.5°	855.2	871.6	855.2	805.4	746.7	927.6
25°	845.8	854.0	845.8	803.7	715.3	874.9
27.5°	829.0	834.7	829.0	787.0	684.4	810.4
30°	812.4	824.7	812.4	770.2	663.8	770.2
32.5°	795.4	797.9	795.4	743.5	643.1	720.0
35°	770.2	766.1	770.2	711.6	611.9	644.7
37.5°	736.0	740.9	736.0	684.9	580.0	569.3
40°	716.0	724.2	716.0	661.4	555.9	519.1
42.5°	695.9	704.1	695.9	641.3	532.4	492.3
45°	665.7	669.8	665.7	607.0	497.6	473.0
47.5°	630.5	634.6	630.5	576.0	461.7	443.7
50°	607.1	611.2	607.1	552.6	434.8	410.2
52.5°	580.3	584.4	580.3	532.5	401.5	386.8
55°	540.0	540.0	540.0	494.0	351.9	364.2
57.5°	494.1	499.0	494.1	453.8	300.8	311.4
60°	460.7	468.8	460.7	427.0	264.2	284.7
62.5°	430.4	435.4	430.4	396.8	240.6	254.5
65°	381.0	385.1	381.0	347.4	213.3	205.1
67.5°	325.8	329.0	325.8	302.2	187.8	160.7
70°	288.8	288.8	288.8	272.1	170.8	134.0
72.5°	252.1	255.4	252.1	235.3	154.0	117.2
75°	196.8	200.9	196.8	184.2	124.7	87.9
77.5°	141.6	145.7	141.6	134.0	93.9	63.6
80°	104.7	108.8	104.7	100.5	70.7	50.2
82.5°	74.5	75.4	74.5	70.3	50.7	33.5
85°	33.5	33.5	33.5	33.5	24.9	16.7
87.5°	7.9	7.9	7.9	8.0	7.2	3.3
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: P1191356

CATALOG NUMBER: SQ2-FA-125U-075D-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	14.80	15.54	15.87	16.62	18.08	16.02	16.77	17.10	17.84	19.30
	3H	15.88	16.55	16.96	17.63	19.11	17.26	17.93	18.34	19.01	20.49
	4H	16.23	16.86	17.32	17.94	19.43	17.64	18.28	18.73	19.36	20.84
	6H	16.38	16.97	17.48	18.05	19.55	17.80	18.38	18.90	19.46	20.96
	8H	16.42	16.97	17.52	18.07	19.56	17.82	18.37	18.92	19.47	20.97
	12H	16.41	16.93	17.52	18.03	19.54	17.80	18.32	18.91	19.42	20.93
4H	2H	15.71	16.35	16.81	17.43	18.91	16.62	17.26	17.72	18.34	19.82
	3H	17.07	17.60	18.18	18.71	20.20	18.06	18.59	19.17	19.70	21.20
	4H	17.51	17.99	18.62	19.09	20.61	18.53	19.01	19.64	20.11	21.63
	6H	17.73	18.14	18.85	19.27	20.78	18.74	19.16	19.86	20.28	21.79
	8H	17.79	18.17	18.90	19.29	20.81	18.79	19.17	19.90	20.29	21.82
	12H	17.78	18.13	18.92	19.26	20.79	18.77	19.12	19.90	20.25	21.78
8H	4H	17.90	18.29	19.02	19.40	20.93	18.73	19.11	19.84	20.23	21.76
	6H	18.24	18.56	19.38	19.72	21.24	19.03	19.35	20.17	20.51	22.03
	8H	18.35	18.63	19.50	19.77	21.31	19.12	19.40	20.27	20.54	22.09
	12H	18.38	18.63	19.53	19.76	21.34	19.13	19.38	20.28	20.51	22.09
12H	4H	17.90	18.25	19.03	19.37	20.91	18.69	19.04	19.82	20.17	21.70
	6H	18.31	18.59	19.46	19.73	21.27	19.05	19.33	20.20	20.47	22.01
	8H	18.45	18.69	19.60	19.83	21.41	19.16	19.40	20.31	20.54	22.12