

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: P1191330

Luminaire Tested: SQ2-FA-100U-075D-L835-UNV-STD-W-4

Issue Date: 9/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1191330
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-075D-L835-UNV-STD-W-4
Description: CORELITE SQ2 LED LUMINAIRE
FROSTED CONTINUOUS ASYMMETRIC ROLL LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

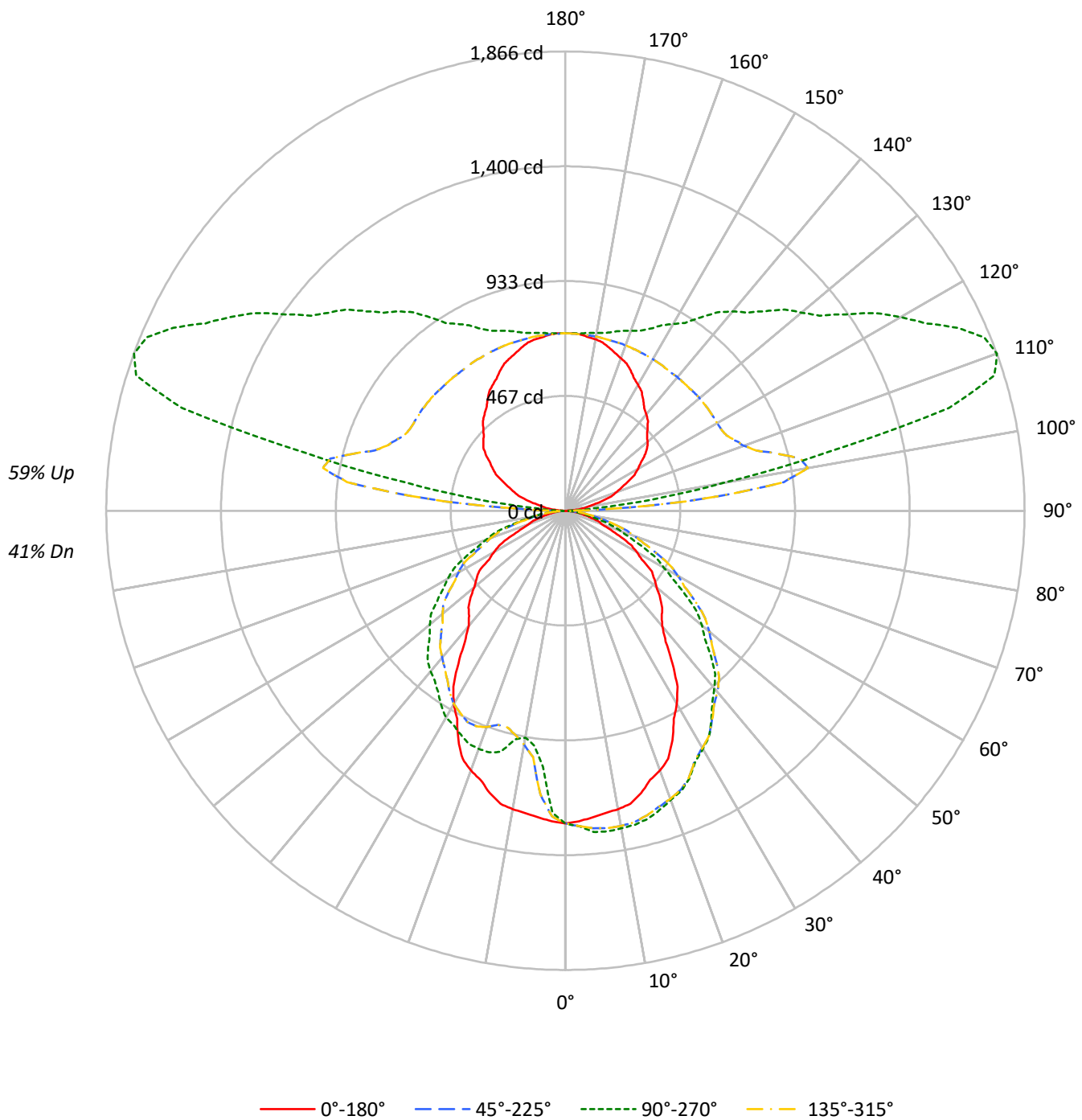
Lumens per Lamp: N/A
Luminaire Lumens: 7642.5 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 59.3
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	63	63	63	48	48	48
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	43	42	41
2	87	80	74	69	79	73	68	64	60	57	54	49	46	44	38	36	34
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	33	31	29
4	73	62	54	49	66	57	50	45	47	42	38	38	35	32	30	27	25
5	67	55	47	42	61	51	44	39	42	37	33	34	30	27	27	24	22
6	61	50	42	36	56	46	39	33	38	33	29	31	27	24	24	21	19
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17
8	53	41	33	28	48	37	31	26	31	26	22	26	22	19	20	17	15
9	49	37	30	25	45	34	27	23	29	24	20	24	20	17	19	16	14
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	20518	20518	20518	20518
5°	20277	21235	20277	16924
10°	20189	21481	20189	15342
15°	19841	21653	19841	16959
20°	19295	21496	19295	17687
25°	18339	21323	18339	17900
30°	16897	20845	16897	18090
35°	14950	20386	14950	17767
40°	12874	19829	12874	17960
45°	12709	19119	12709	17995
50°	12125	18186	12125	18063
55°	12062	16777	12062	17886
60°	10814	14951	10814	17815
65°	9219	13173	9219	17310
70°	7440	11160	7440	16046
75°	6450	9220	6450	14747
80°	5495	6871	5495	11911
85°	3649	3649	3649	7299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 19795 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.3	1.5
10°-20°	319.5	4.2
20°-30°	485.2	6.3
30°-40°	569.6	7.5
40°-50°	578.0	7.6
50°-60°	506.4	6.6
60°-70°	359.2	4.7
70°-80°	185.0	2.4
80°-90°	40.1	0.5
90°-100°	301.0	3.9
100°-110°	910.3	11.9
110°-120°	888.6	11.6
120°-130°	726.2	9.5
130°-140°	592.7	7.8
140°-150°	461.4	6.0
150°-160°	332.6	4.4
160°-170°	203.6	2.7
170°-180°	68.8	0.9
0°-30°	919.0	12.0
0°-40°	1488.7	19.5
0°-60°	2573.0	33.7
0°-90°	3157.3	41.3
90°-120°	2099.9	27.5
90°-150°	3880.2	50.8
90°-180°	4485.0	58.7
0°-180°	7642.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1271	1271	1271	1271	1271	
5°	1251	1310	1251	1044	1251	119
15°	1187	1295	1187	1015	1187	333
25°	1029	1197	1029	1005	1029	470
35°	758	1034	758	901	758	473
45°	557	837	557	788	557	426
55°	428	596	428	635	428	371
65°	241	345	241	453	241	241
75°	103	148	103	236	103	112
85°	20	20	20	39	20	25
90°	0	7	0	7	0	2
95°	37	132	37	132	37	44
105°	158	1613	158	1613	158	166
115°	282	1757	282	1757	282	279
125°	394	1390	394	1390	394	350
135°	472	1146	472	1146	472	365
145°	551	958	551	958	551	345
155°	628	816	628	816	628	289
165°	687	752	687	752	687	194
175°	718	723	718	723	718	68
180°	721	721	721	721	721	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1270.8	1270.8	1270.8	1270.8	1270.8	1270.8	1270.8	1270.8	1270.8	1270.8	1270.8
2.5°	1262.9	1282.2	1282.6	1282.6	1282.6	1282.6	1282.6	1282.2	1262.9	1262.9	1243.2
5°	1251.1	1284.8	1295.4	1300.5	1310.2	1300.5	1295.4	1284.8	1251.1	1236.6	1157.5
7.5°	1239.2	1284.5	1300.3	1309.3	1314.1	1309.3	1300.3	1284.5	1239.2	1174.7	1008.7
10°	1231.4	1284.3	1300.3	1305.4	1310.2	1305.4	1300.3	1284.3	1231.4	1101.3	965.4
12.5°	1219.5	1276.4	1296.4	1301.4	1306.2	1301.4	1296.4	1276.4	1219.5	1035.6	933.9
15°	1187.0	1264.1	1280.6	1290.6	1295.4	1290.6	1280.6	1264.1	1187.0	979.9	911.2
17.5°	1146.6	1240.1	1261.9	1270.9	1274.7	1270.9	1261.9	1240.1	1146.6	929.9	912.2
20°	1123.0	1224.1	1246.1	1251.1	1251.1	1251.1	1246.1	1224.1	1123.0	906.3	935.8
22.5°	1091.5	1204.2	1226.4	1227.5	1231.4	1227.5	1226.4	1204.2	1091.5	878.6	947.7
25°	1029.4	1159.5	1192.0	1187.3	1196.9	1187.3	1192.0	1159.5	1029.4	841.6	945.7
27.5°	953.6	1117.3	1140.7	1145.7	1145.7	1145.7	1140.7	1117.3	953.6	805.2	926.0
30°	906.3	1089.3	1113.2	1118.1	1118.1	1118.1	1113.2	1089.3	906.3	781.1	906.3
32.5°	847.2	1064.9	1085.6	1086.6	1086.6	1086.6	1085.6	1064.9	847.2	756.6	874.8
35°	758.5	1023.4	1039.3	1039.2	1034.3	1039.2	1039.3	1023.4	758.5	720.0	837.3
37.5°	669.9	970.4	992.0	985.0	980.2	985.0	992.0	970.4	669.9	682.4	805.8
40°	610.8	938.2	960.5	945.6	940.8	945.6	960.5	938.2	610.8	654.1	778.2
42.5°	579.2	902.9	925.0	906.2	901.4	906.2	925.0	902.9	579.2	626.4	754.6
45°	556.6	845.5	866.9	847.0	837.3	847.0	866.9	845.5	556.6	585.5	714.2
47.5°	522.1	776.4	806.8	777.0	767.4	777.0	806.8	776.4	522.1	543.3	677.7
50°	482.7	733.1	763.4	733.7	724.0	733.7	763.4	733.1	482.7	511.6	650.2
52.5°	455.1	690.1	716.2	682.4	672.8	682.4	716.2	690.1	455.1	472.4	626.5
55°	428.5	626.0	645.2	610.4	596.0	610.4	645.2	626.0	428.5	414.1	581.2
57.5°	366.5	554.3	574.3	534.5	518.2	534.5	574.3	554.3	366.5	353.9	533.9
60°	334.9	503.5	527.0	487.1	463.0	487.1	527.0	503.5	334.9	310.9	502.4
62.5°	299.5	448.8	479.7	439.8	415.7	439.8	479.7	448.8	299.5	283.1	466.9
65°	241.3	371.4	408.8	368.9	344.8	368.9	408.8	371.4	241.3	251.0	408.8
67.5°	189.1	300.9	342.8	299.0	279.8	299.0	342.8	300.9	189.1	220.9	355.6
70°	157.6	253.9	295.5	255.7	236.4	255.7	295.5	253.9	157.6	201.0	320.2
72.5°	137.9	211.1	256.1	212.4	197.0	212.4	256.1	211.1	137.9	181.3	276.8
75°	103.4	146.8	197.0	157.4	147.8	157.4	197.0	146.8	103.4	146.8	216.7
77.5°	74.9	95.1	138.9	105.3	101.5	105.3	138.9	95.1	74.9	110.5	157.6
80°	59.1	63.9	103.4	73.9	73.9	73.9	103.4	63.9	59.1	83.2	118.2
82.5°	39.4	44.2	71.9	50.2	46.3	50.2	71.9	44.2	39.4	59.6	82.7
85°	19.7	19.7	29.6	19.7	19.7	19.7	29.6	19.7	19.7	29.3	39.4
87.5°	3.9	4.4	10.6	5.5	5.3	5.5	10.6	4.4	3.9	8.2	10.6
90°	0.0	2.2	13.6	7.9	6.8	7.9	13.6	2.2	0.0	2.2	13.6
92.5°	12.7	51.2	183.7	60.9	43.9	60.9	183.7	51.2	12.7	51.2	183.7
95°	37.3	118.1	567.9	209.8	132.4	209.8	567.9	118.1	37.3	118.1	567.9
97.5°	72.2	150.3	895.1	592.3	360.7	592.3	895.1	150.3	72.2	150.3	895.1
100°	93.9	170.2	1000.1	966.9	649.4	966.9	1000.1	170.2	93.9	170.2	1000.1
102.5°	118.3	192.0	978.4	1356.1	1081.1	1356.1	978.4	192.0	118.3	192.0	978.4
105°	158.4	222.6	893.8	1697.4	1613.3	1697.4	893.8	222.6	158.4	222.6	893.8
107.5°	196.4	257.7	812.3	1731.2	1828.5	1731.2	812.3	257.7	196.4	257.7	812.3
110°	221.7	280.4	771.6	1688.6	1865.6	1688.6	771.6	280.4	221.7	280.4	771.6

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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°	246.2	303.0	747.2	1617.3	1841.2	1617.3	747.2	303.0	246.2	303.0	747.2
115°	281.7	335.9	722.9	1495.9	1757.0	1495.9	722.9	335.9	281.7	335.9	722.9
117.5°	317.0	368.3	714.3	1382.3	1649.5	1382.3	714.3	368.3	317.0	368.3	714.3
120°	340.5	389.2	711.6	1316.0	1572.6	1316.0	711.6	389.2	340.5	389.2	711.6
122.5°	362.3	408.3	711.6	1257.6	1494.8	1257.6	711.6	408.3	362.3	408.3	711.6
125°	393.7	436.9	712.8	1181.4	1390.4	1181.4	712.8	436.9	393.7	436.9	712.8
127.5°	419.3	464.0	711.6	1123.9	1302.2	1123.9	711.6	464.0	419.3	464.0	711.6
130°	435.6	482.0	711.6	1090.9	1252.4	1090.9	711.6	482.0	435.6	482.0	711.6
132.5°	450.1	497.4	710.7	1060.8	1209.9	1060.8	710.7	497.4	450.1	497.4	710.7
135°	471.8	521.6	708.2	1018.9	1146.1	1018.9	708.2	521.6	471.8	521.6	708.2
137.5°	496.0	543.3	708.2	974.1	1092.0	974.1	708.2	543.3	496.0	543.3	708.2
140°	511.4	557.8	708.2	945.0	1056.7	945.0	708.2	557.8	511.4	557.8	708.2
142.5°	526.8	571.5	707.3	918.4	1016.0	918.4	707.3	571.5	526.8	571.5	707.3
145°	551.0	591.9	708.2	876.4	958.3	876.4	708.2	591.9	551.0	591.9	708.2
147.5°	575.2	609.9	709.6	841.8	904.6	841.8	709.6	609.9	575.2	609.9	709.6
150°	590.6	622.7	710.5	822.6	875.7	822.6	710.5	622.7	590.6	622.7	710.5
152.5°	605.1	633.6	711.4	806.1	849.4	806.1	711.4	633.6	605.1	633.6	711.4
155°	627.9	648.9	712.8	785.8	815.7	785.8	712.8	648.9	627.9	648.9	712.8
157.5°	647.8	664.9	714.1	770.9	791.7	770.9	714.1	664.9	647.8	664.9	714.1
160°	659.6	674.0	715.0	761.8	777.2	761.8	715.0	674.0	659.6	674.0	715.0
162.5°	671.4	682.2	715.9	753.6	766.4	753.6	715.9	682.2	671.4	682.2	715.9
165°	686.7	694.5	716.2	743.5	752.4	743.5	716.2	694.5	686.7	694.5	716.2
167.5°	699.9	703.8	717.5	735.7	739.5	735.7	717.5	703.8	699.9	703.8	717.5
170°	707.1	709.3	718.4	732.0	733.1	732.0	718.4	709.3	707.1	709.3	718.4
172.5°	711.6	713.0	718.4	728.4	728.6	728.4	718.4	713.0	711.6	713.0	718.4
175°	718.4	718.4	719.5	725.2	722.9	725.2	719.5	718.4	718.4	718.4	719.5
177.5°	721.6	720.7	719.8	722.4	720.7	722.4	719.8	720.7	721.6	720.7	719.8
180°	720.7	720.7	720.7	720.7	720.7	720.7	720.7	720.7	720.7	720.7	720.7

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1270.8	1270.8	1270.8	1270.8	1270.8	1270.8
2.5°	1231.3	1227.4	1231.3	1243.2	1262.9	1262.9
5°	1068.3	1044.2	1068.3	1157.5	1236.6	1251.1
7.5°	971.1	963.4	971.1	1008.7	1174.7	1239.2
10°	935.8	935.8	935.8	965.4	1101.3	1231.4
12.5°	932.3	951.6	932.3	933.9	1035.6	1219.5
15°	990.6	1014.6	990.6	911.2	979.9	1187.0
17.5°	1010.2	1029.4	1010.2	912.2	929.9	1146.6
20°	1010.2	1029.4	1010.2	935.8	906.3	1123.0
22.5°	1006.2	1025.5	1006.2	947.7	878.6	1091.5
25°	995.2	1004.8	995.2	945.7	841.6	1029.4
27.5°	975.4	982.1	975.4	926.0	805.2	953.6
30°	955.9	970.3	955.9	906.3	781.1	906.3
32.5°	935.9	938.8	935.9	874.8	756.6	847.2
35°	906.2	901.4	906.2	837.3	720.0	758.5
37.5°	866.0	871.8	866.0	805.8	682.4	669.9
40°	842.5	852.1	842.5	778.2	654.1	610.8
42.5°	818.8	828.5	818.8	754.6	626.4	579.2
45°	783.3	788.1	783.3	714.2	585.5	556.6
47.5°	741.9	746.7	741.9	677.7	543.3	522.1
50°	714.3	719.1	714.3	650.2	511.6	482.7
52.5°	682.8	687.6	682.8	626.5	472.4	455.1
55°	635.4	635.4	635.4	581.2	414.1	428.5
57.5°	581.3	587.1	581.3	533.9	353.9	366.5
60°	542.0	551.7	542.0	502.4	310.9	334.9
62.5°	506.5	512.2	506.5	466.9	283.1	299.5
65°	448.3	453.1	448.3	408.8	251.0	241.3
67.5°	383.3	387.1	383.3	355.6	220.9	189.1
70°	339.9	339.9	339.9	320.2	201.0	157.6
72.5°	296.6	300.5	296.6	276.8	181.3	137.9
75°	231.6	236.4	231.6	216.7	146.8	103.4
77.5°	166.6	171.4	166.6	157.6	110.5	74.9
80°	123.2	128.1	123.2	118.2	83.2	59.1
82.5°	87.7	88.7	87.7	82.7	59.6	39.4
85°	39.4	39.4	39.4	39.4	29.3	19.7
87.5°	9.5	9.2	9.5	10.6	8.2	3.9
90°	7.9	6.8	7.9	13.6	2.2	0.0
92.5°	60.9	43.9	60.9	183.7	51.2	12.7
95°	209.8	132.4	209.8	567.9	118.1	37.3
97.5°	592.3	360.7	592.3	895.1	150.3	72.2
100°	966.9	649.4	966.9	1000.1	170.2	93.9
102.5°	1356.1	1081.1	1356.1	978.4	192.0	118.3
105°	1697.4	1613.3	1697.4	893.8	222.6	158.4
107.5°	1731.2	1828.5	1731.2	812.3	257.7	196.4
110°	1688.6	1865.6	1688.6	771.6	280.4	221.7

TEST NUMBER: P1191330

CATALOG NUMBER: SQ2-FA-100U-075D-L835-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1617.3	1841.2	1617.3	747.2	303.0	246.2
115°	1495.9	1757.0	1495.9	722.9	335.9	281.7
117.5°	1382.3	1649.5	1382.3	714.3	368.3	317.0
120°	1316.0	1572.6	1316.0	711.6	389.2	340.5
122.5°	1257.6	1494.8	1257.6	711.6	408.3	362.3
125°	1181.4	1390.4	1181.4	712.8	436.9	393.7
127.5°	1123.9	1302.2	1123.9	711.6	464.0	419.3
130°	1090.9	1252.4	1090.9	711.6	482.0	435.6
132.5°	1060.8	1209.9	1060.8	710.7	497.4	450.1
135°	1018.9	1146.1	1018.9	708.2	521.6	471.8
137.5°	974.1	1092.0	974.1	708.2	543.3	496.0
140°	945.0	1056.7	945.0	708.2	557.8	511.4
142.5°	918.4	1016.0	918.4	707.3	571.5	526.8
145°	876.4	958.3	876.4	708.2	591.9	551.0
147.5°	841.8	904.6	841.8	709.6	609.9	575.2
150°	822.6	875.7	822.6	710.5	622.7	590.6
152.5°	806.1	849.4	806.1	711.4	633.6	605.1
155°	785.8	815.7	785.8	712.8	648.9	627.9
157.5°	770.9	791.7	770.9	714.1	664.9	647.8
160°	761.8	777.2	761.8	715.0	674.0	659.6
162.5°	753.6	766.4	753.6	715.9	682.2	671.4
165°	743.5	752.4	743.5	716.2	694.5	686.7
167.5°	735.7	739.5	735.7	717.5	703.8	699.9
170°	732.0	733.1	732.0	718.4	709.3	707.1
172.5°	728.4	728.6	728.4	718.4	713.0	711.6
175°	725.2	722.9	725.2	719.5	718.4	718.4
177.5°	722.4	720.7	722.4	719.8	720.7	721.6
180°	720.7	720.7	720.7	720.7	720.7	720.7

TEST NUMBER: P1191330

CATALOG NUMBER: SQ2-FA-100U-075D-L835-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	15.99	16.77	17.02	17.81	19.20	17.21	18.00	18.24	19.04	20.43
	3H	17.07	17.78	18.11	18.82	20.23	18.45	19.15	19.49	20.20	21.61
	4H	17.42	18.09	18.47	19.14	20.55	18.84	19.50	19.89	20.55	21.97
	6H	17.58	18.19	18.64	19.25	20.67	18.99	19.61	20.05	20.66	22.09
	8H	17.61	18.20	18.68	19.26	20.69	19.02	19.60	20.08	20.67	22.09
	12H	17.61	18.16	18.68	19.22	20.67	19.00	19.55	20.07	20.61	22.06
4H	2H	16.91	17.57	17.96	18.62	20.04	17.82	18.49	18.88	19.53	20.95
	3H	18.27	18.82	19.33	19.90	21.33	19.26	19.82	20.33	20.89	22.32
	4H	18.71	19.22	19.78	20.29	21.74	19.73	20.24	20.80	21.30	22.75
	6H	18.93	19.37	20.01	20.46	21.91	19.94	20.38	21.02	21.47	22.92
	8H	18.99	19.40	20.07	20.48	21.94	19.99	20.40	21.07	21.48	22.94
	12H	18.99	19.36	20.09	20.45	21.92	19.97	20.34	21.07	21.44	22.91
8H	4H	19.10	19.51	20.18	20.59	22.05	19.93	20.34	21.01	21.42	22.88
	6H	19.45	19.78	20.55	20.91	22.36	20.24	20.57	21.34	21.70	23.16
	8H	19.56	19.85	20.67	20.96	22.44	20.33	20.63	21.44	21.73	23.21
	12H	19.59	19.85	20.71	20.95	22.47	20.34	20.60	21.45	21.70	23.22
12H	4H	19.10	19.47	20.20	20.57	22.03	19.89	20.26	20.99	21.36	22.83
	6H	19.52	19.81	20.63	20.92	22.40	20.26	20.55	21.37	21.66	23.14
	8H	19.66	19.92	20.77	21.02	22.54	20.37	20.63	21.48	21.73	23.24