

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: P934296

Luminaire Tested: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934296
REPORT IS A COMBINATION OF REPORTS P933692 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

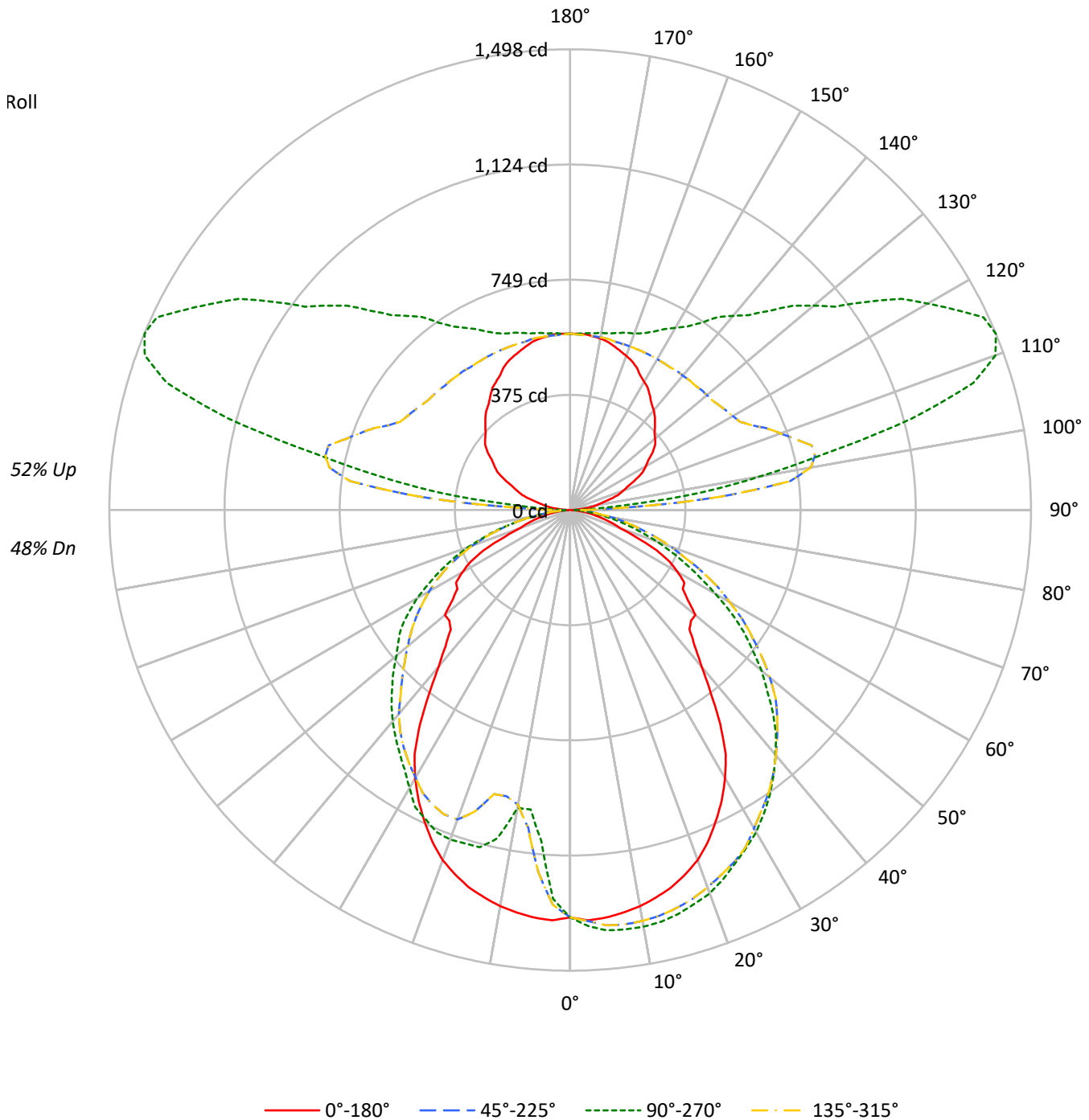
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7154.5 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 56.8
Input Voltage (V): NR
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6144	6144	6144	6144
5°	6190	6202	6190	4877
10°	6148	6109	6148	4367
15°	6081	5977	6081	4991
20°	5954	5820	5954	5001
25°	5694	5591	5694	4895
30°	5357	5402	5357	4663
35°	4776	5161	4776	4406
40°	3980	4878	3980	4214
45°	3556	4547	3556	3992
50°	3778	4153	3778	3768
55°	3554	3728	3554	3639
60°	3664	3166	3664	3333
65°	3321	2617	3321	2925
70°	2300	2086	2300	2452
75°	2018	1542	2018	1847
80°	1624	1019	1624	1109
85°	936	541	936	459

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5450 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.5	1.7
10°-20°	339.4	4.7
20°-30°	524.6	7.3
30°-40°	626.3	8.8
40°-50°	630.0	8.8
50°-60°	548.1	7.7
60°-70°	388.6	5.4
70°-80°	205.6	2.9
80°-90°	53.4	0.7
90°-100°	279.6	3.9
100°-110°	735.2	10.3
110°-120°	762.3	10.7
120°-130°	611.4	8.5
130°-140°	479.8	6.7
140°-150°	368.3	5.1
150°-160°	265.2	3.7
160°-170°	162.3	2.3
170°-180°	54.8	0.8
0°-30°	983.5	13.7
0°-40°	1609.8	22.5
0°-60°	2787.9	39.0
0°-90°	3435.6	48.0
90°-120°	1777.1	24.8
90°-150°	3236.6	45.2
90°-180°	3719.0	52.0
0°-180°	7154.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1324	1324	1324	1324	1324	
5°	1330	1372	1330	1079	1330	126
15°	1270	1359	1270	1135	1270	357
25°	1119	1268	1119	1110	1119	514
35°	851	1131	851	966	851	526
45°	549	932	549	818	549	440
55°	447	688	447	672	447	411
65°	311	415	311	464	311	297
75°	118	197	118	236	118	124
85°	20	50	20	43	20	27
90°	4	15	4	15	4	4
95°	37	169	37	169	37	41
105°	132	1151	132	1151	132	140
115°	235	1482	235	1482	235	232
125°	327	1180	327	1180	327	291
135°	390	916	390	916	390	302
145°	452	743	452	743	452	283
155°	511	640	511	640	511	235
165°	552	596	552	596	552	156
175°	574	578	574	578	574	54
180°	574	574	574	574	574	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2
2.5°	1335.4	1335.4	1343.0	1345.5	1345.5	1341.7	1338.0	1341.7	1353.0	1356.7	1355.5
5°	1330.5	1340.5	1354.3	1356.7	1359.3	1358.0	1355.5	1358.0	1370.6	1373.1	1374.3
7.5°	1320.4	1339.3	1356.7	1360.6	1364.3	1360.6	1359.3	1361.8	1374.3	1376.8	1376.8
10°	1307.9	1334.2	1354.3	1356.7	1360.6	1356.7	1356.7	1361.8	1374.3	1376.8	1378.0
12.5°	1290.3	1326.7	1345.5	1347.9	1353.0	1351.8	1350.5	1355.5	1368.0	1370.6	1370.6
15°	1270.3	1312.9	1330.5	1332.9	1341.7	1339.3	1339.3	1344.2	1358.0	1361.8	1360.6
17.5°	1242.8	1295.4	1315.4	1319.2	1325.4	1324.2	1325.4	1330.5	1343.0	1345.5	1346.7
20°	1211.4	1271.5	1295.4	1299.1	1305.4	1305.4	1305.4	1311.6	1324.2	1329.2	1329.2
22.5°	1168.8	1246.5	1271.5	1274.1	1281.6	1281.6	1284.1	1292.8	1304.1	1305.4	1305.4
25°	1118.7	1219.0	1240.3	1247.7	1255.3	1259.0	1262.8	1267.8	1271.5	1270.3	1271.5
27.5°	1066.2	1183.8	1211.4	1216.4	1226.4	1230.3	1235.2	1236.5	1237.7	1241.5	1239.0
30°	1007.2	1135.0	1176.4	1181.4	1197.7	1200.2	1195.1	1197.7	1203.9	1206.4	1209.0
32.5°	940.8	1062.3	1140.0	1151.3	1166.4	1158.8	1157.6	1161.3	1171.3	1171.3	1173.9
35°	850.6	1006.0	1106.2	1116.2	1127.5	1118.7	1123.8	1125.0	1131.3	1135.0	1133.8
37.5°	751.7	957.2	1071.1	1078.7	1087.5	1076.2	1083.6	1087.5	1092.4	1089.9	1089.9
40°	664.0	880.7	1029.8	1034.8	1042.3	1033.6	1041.0	1043.6	1046.1	1043.6	1042.3
42.5°	598.8	796.8	985.9	992.2	987.1	993.5	995.9	1001.0	997.2	992.2	992.2
45°	548.7	774.2	938.3	945.9	938.3	948.4	952.1	952.1	940.8	938.3	937.1
47.5°	532.5	729.1	890.8	890.8	886.9	899.5	905.8	897.0	885.7	882.0	882.0
50°	531.2	679.0	825.6	820.6	838.1	853.1	846.9	838.1	829.3	815.6	815.6
52.5°	482.3	617.7	741.7	760.5	788.0	796.8	786.7	778.0	763.0	756.6	751.7
55°	447.2	553.8	665.2	702.8	731.6	742.9	724.1	715.4	692.7	689.0	686.5
57.5°	439.7	461.0	595.1	642.7	677.7	676.5	665.2	648.9	630.2	626.4	625.1
60°	403.4	333.3	519.9	576.3	612.6	608.9	598.8	583.8	566.3	563.8	561.2
62.5°	365.8	241.8	434.7	498.6	549.9	548.7	539.9	517.4	504.8	498.6	493.6
65°	310.6	203.0	309.4	414.7	488.6	491.1	472.3	456.0	442.2	434.7	433.5
67.5°	236.8	165.4	209.2	345.8	429.7	427.2	403.4	395.9	378.4	374.6	367.1
70°	175.4	110.2	145.3	280.7	372.1	365.8	347.0	338.3	321.9	313.2	308.2
72.5°	145.3	88.9	106.5	218.0	313.2	305.7	289.4	279.4	265.6	258.1	253.0
75°	117.8	94.0	81.4	161.6	254.3	249.3	234.2	224.3	213.0	203.0	204.2
77.5°	86.5	87.7	65.1	119.0	201.7	194.2	185.4	172.9	167.8	157.8	157.8
80°	65.1	68.9	48.8	81.4	145.3	145.3	137.8	129.1	120.3	115.3	115.3
82.5°	43.8	43.8	36.3	51.4	99.0	95.2	90.2	87.7	82.7	80.1	80.1
85°	20.1	25.0	22.5	31.3	53.9	56.4	56.4	53.9	52.6	50.2	51.4
87.5°	6.3	11.3	13.8	17.6	27.6	28.9	30.1	30.1	30.1	31.3	31.3
90°	3.8	6.9	10.0	10.7	16.9	25.1	29.2	26.0	19.5	14.7	14.7
92.5°	15.4	41.6	67.8	74.3	104.5	144.7	164.8	144.4	103.7	73.1	70.2
95°	37.0	84.9	132.8	144.8	257.0	406.8	481.7	429.8	326.2	248.4	239.6
97.5°	63.9	106.1	148.4	159.0	346.2	595.9	720.8	688.0	622.4	573.3	556.5
100°	84.7	123.0	161.3	170.9	378.7	655.8	794.3	796.7	801.5	805.0	785.0
102.5°	102.5	138.2	173.9	182.9	393.6	674.6	815.1	856.9	940.4	1002.9	985.8
105°	132.4	162.7	193.1	200.6	404.7	676.8	812.8	906.4	1093.6	1234.0	1224.8
107.5°	163.3	191.5	219.7	226.8	406.7	646.6	766.5	897.1	1158.3	1354.1	1356.4
110°	184.0	209.5	235.1	241.4	403.7	619.9	728.1	874.0	1165.9	1384.8	1394.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	204.5	228.7	253.0	259.1	403.8	596.6	693.0	842.4	1141.2	1365.2	1380.0
115°	235.3	257.7	280.1	285.7	407.5	569.9	651.1	795.0	1082.8	1298.6	1319.0
117.5°	265.6	286.0	306.4	311.5	415.1	553.1	622.1	752.1	1011.8	1206.6	1229.2
120°	283.4	302.5	321.8	326.5	421.2	547.5	610.6	729.3	966.6	1144.6	1166.6
122.5°	300.7	320.0	339.3	344.2	430.0	544.5	601.8	708.6	922.4	1082.7	1104.4
125°	327.3	344.8	362.5	366.9	442.0	542.1	592.2	682.9	864.5	1000.7	1020.7
127.5°	348.8	366.6	384.3	388.8	453.9	540.7	584.0	662.0	817.9	934.8	951.7
130°	360.3	379.5	398.7	403.5	462.6	541.5	580.9	650.3	789.1	893.2	908.8
132.5°	372.3	391.4	410.7	415.4	469.7	542.1	578.3	640.4	764.7	857.8	871.7
135°	390.0	407.5	424.9	429.3	477.4	541.5	573.7	625.7	729.7	807.7	819.8
137.5°	408.2	425.4	442.7	447.0	488.9	544.9	572.9	616.9	704.9	770.8	780.6
140°	423.1	439.1	455.0	459.0	496.0	545.5	570.2	608.2	684.2	741.1	750.3
142.5°	434.7	449.3	464.1	467.7	501.9	547.4	570.2	603.6	670.3	720.4	728.3
145°	452.4	465.2	478.1	481.3	509.7	547.5	566.4	593.7	648.3	689.2	695.2
147.5°	470.1	482.6	495.1	498.2	520.9	551.2	566.4	587.9	630.7	663.0	667.9
150°	481.7	493.0	504.3	507.1	526.9	553.2	566.4	584.5	620.8	648.0	652.0
152.5°	493.6	502.2	510.7	512.9	530.7	554.5	566.4	581.9	612.8	636.1	639.1
155°	511.3	517.6	524.0	525.6	539.2	557.3	566.4	578.7	603.3	621.8	623.8
157.5°	524.3	530.5	536.7	538.3	547.6	560.1	566.4	575.9	595.1	609.4	610.8
160°	533.2	538.1	542.8	544.1	551.5	561.4	566.4	574.6	590.9	603.3	604.1
162.5°	542.1	545.7	549.3	550.2	555.6	562.8	566.4	573.3	587.2	597.6	598.3
165°	551.7	555.0	558.2	559.0	561.4	564.7	566.4	571.3	581.2	588.7	589.5
167.5°	560.6	562.1	563.7	564.0	566.1	568.8	570.2	573.5	580.0	584.9	585.2
170°	566.4	567.9	569.5	569.8	569.9	570.1	570.2	573.5	580.0	584.9	584.9
172.5°	569.5	569.8	570.1	570.2	570.2	570.2	570.2	572.8	578.0	581.8	581.5
175°	573.7	573.7	573.7	573.7	572.5	571.0	570.2	571.8	575.1	577.5	577.5
177.5°	573.7	573.7	573.7	573.7	572.7	571.5	571.0	572.3	574.8	576.7	576.4
180°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2
2.5°	1358.0	1354.3	1358.0	1355.5	1356.7	1353.0	1341.7	1338.0	1341.7	1345.5	1345.5
5°	1374.3	1371.8	1374.3	1374.3	1373.1	1370.6	1358.0	1355.5	1358.0	1359.3	1356.7
7.5°	1379.3	1375.6	1379.3	1376.8	1376.8	1374.3	1361.8	1359.3	1360.6	1364.3	1360.6
10°	1379.3	1375.6	1379.3	1378.0	1376.8	1374.3	1361.8	1356.7	1356.7	1360.6	1356.7
12.5°	1373.1	1370.6	1373.1	1370.6	1370.6	1368.0	1355.5	1350.5	1351.8	1353.0	1347.9
15°	1363.0	1359.3	1363.0	1360.6	1361.8	1358.0	1344.2	1339.3	1339.3	1341.7	1332.9
17.5°	1347.9	1343.0	1347.9	1346.7	1345.5	1343.0	1330.5	1325.4	1324.2	1325.4	1319.2
20°	1330.5	1326.7	1330.5	1329.2	1329.2	1324.2	1311.6	1305.4	1305.4	1305.4	1299.1
22.5°	1302.9	1299.1	1302.9	1305.4	1305.4	1304.1	1292.8	1284.1	1281.6	1281.6	1274.1
25°	1271.5	1267.8	1271.5	1271.5	1270.3	1271.5	1267.8	1262.8	1259.0	1255.3	1247.7
27.5°	1241.5	1239.0	1241.5	1239.0	1241.5	1237.7	1236.5	1235.2	1230.3	1226.4	1216.4
30°	1211.4	1209.0	1211.4	1209.0	1206.4	1203.9	1197.7	1195.1	1200.2	1197.7	1181.4
32.5°	1173.9	1171.3	1173.9	1173.9	1171.3	1171.3	1161.3	1157.6	1158.8	1166.4	1151.3
35°	1135.0	1131.3	1135.0	1133.8	1135.0	1131.3	1125.0	1123.8	1118.7	1127.5	1116.2
37.5°	1089.9	1086.1	1089.9	1089.9	1089.9	1092.4	1087.5	1083.6	1076.2	1087.5	1078.7
40°	1043.6	1038.5	1043.6	1042.3	1043.6	1046.1	1043.6	1041.0	1033.6	1042.3	1034.8
42.5°	991.0	989.7	991.0	992.2	992.2	997.2	1001.0	995.9	993.5	987.1	992.2
45°	934.6	932.0	934.6	937.1	938.3	940.8	952.1	952.1	948.4	938.3	945.9
47.5°	874.4	868.2	874.4	882.0	882.0	885.7	897.0	905.8	899.5	886.9	890.8
50°	810.5	811.8	810.5	815.6	815.6	829.3	838.1	846.9	853.1	838.1	820.6
52.5°	747.9	746.6	747.9	751.7	756.6	763.0	778.0	786.7	796.8	788.0	760.5
55°	685.3	687.8	685.3	686.5	689.0	692.7	715.4	724.1	742.9	731.6	702.8
57.5°	622.6	618.9	622.6	625.1	626.4	630.2	648.9	665.2	676.5	677.7	642.7
60°	549.9	545.0	549.9	561.2	563.8	566.3	583.8	598.8	608.9	612.6	576.3
62.5°	486.1	477.3	486.1	493.6	498.6	504.8	517.4	539.9	548.7	549.9	498.6
65°	418.4	414.7	418.4	433.5	434.7	442.2	456.0	472.3	491.1	488.6	414.7
67.5°	357.1	357.1	357.1	367.1	374.6	378.4	395.9	403.4	427.2	429.7	345.8
70°	300.7	299.4	300.7	308.2	313.2	321.9	338.3	347.0	365.8	372.1	280.7
72.5°	246.8	245.5	246.8	253.0	258.1	265.6	279.4	289.4	305.7	313.2	218.0
75°	199.2	196.7	199.2	204.2	203.0	213.0	224.3	234.2	249.3	254.3	161.6
77.5°	152.8	152.8	152.8	157.8	157.8	167.8	172.9	185.4	194.2	201.7	119.0
80°	114.0	112.7	114.0	115.3	115.3	120.3	129.1	137.8	145.3	145.3	81.4
82.5°	80.1	77.7	80.1	80.1	80.1	82.7	87.7	90.2	95.2	99.0	51.4
85°	50.2	50.2	50.2	51.4	50.2	52.6	53.9	56.4	56.4	53.9	31.3
87.5°	32.6	31.3	32.6	31.3	31.3	30.1	30.1	30.1	28.9	27.6	17.6
90°	14.7	14.7	14.7	14.7	14.7	19.5	26.0	29.2	25.1	16.9	10.7
92.5°	58.6	47.0	58.6	70.2	73.1	103.7	144.4	164.8	144.7	104.5	74.3
95°	204.3	169.1	204.3	239.6	248.4	326.2	429.8	481.7	406.8	257.0	144.8
97.5°	489.4	422.4	489.4	556.5	573.3	622.4	688.0	720.8	595.9	346.2	159.0
100°	705.2	625.2	705.2	785.0	805.0	801.5	796.7	794.3	655.8	378.7	170.9
102.5°	917.4	848.9	917.4	985.8	1002.9	940.4	856.9	815.1	674.6	393.6	182.9
105°	1188.0	1151.2	1188.0	1224.8	1234.0	1093.6	906.4	812.8	676.8	404.7	200.6
107.5°	1365.2	1374.1	1365.2	1356.4	1354.1	1158.3	897.1	766.5	646.6	406.7	226.8
110°	1432.8	1471.1	1432.8	1394.5	1384.8	1165.9	874.0	728.1	619.9	403.7	241.4



TEST NUMBER: P934296

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1438.8	1497.7	1438.8	1380.0	1365.2	1141.2	842.4	693.0	596.6	403.8	259.1
115°	1400.6	1482.3	1400.6	1319.0	1298.6	1082.8	795.0	651.1	569.9	407.5	285.7
117.5°	1319.8	1410.3	1319.8	1229.2	1206.6	1011.8	752.1	622.1	553.1	415.1	311.5
120°	1254.5	1342.5	1254.5	1166.6	1144.6	966.6	729.3	610.6	547.5	421.2	326.5
122.5°	1191.1	1277.9	1191.1	1104.4	1082.7	922.4	708.6	601.8	544.5	430.0	344.2
125°	1100.5	1180.5	1100.5	1020.7	1000.7	864.5	682.9	592.2	542.1	442.0	366.9
127.5°	1019.1	1086.5	1019.1	951.7	934.8	817.9	662.0	584.0	540.7	453.9	388.8
130°	971.1	1033.4	971.1	908.8	893.2	789.1	650.3	580.9	541.5	462.6	403.5
132.5°	927.6	983.3	927.6	871.7	857.8	764.7	640.4	578.3	542.1	469.7	415.4
135°	867.9	916.0	867.9	819.8	807.7	729.7	625.7	573.7	541.5	477.4	429.3
137.5°	820.1	859.4	820.1	780.6	770.8	704.9	616.9	572.9	544.9	488.9	447.0
140°	787.1	823.9	787.1	750.3	741.1	684.2	608.2	570.2	545.5	496.0	459.0
142.5°	759.9	791.6	759.9	728.3	720.4	670.3	603.6	570.2	547.4	501.9	467.7
145°	719.2	743.1	719.2	695.2	689.2	648.3	593.7	566.4	547.5	509.7	481.3
147.5°	687.8	707.7	687.8	667.9	663.0	630.7	587.9	566.4	551.2	520.9	498.2
150°	668.1	684.2	668.1	652.0	648.0	620.8	584.5	566.4	553.2	526.9	507.1
152.5°	651.3	663.4	651.3	639.1	636.1	612.8	581.9	566.4	554.5	530.7	512.9
155°	631.9	639.9	631.9	623.8	621.8	603.3	578.7	566.4	557.3	539.2	525.6
157.5°	616.5	622.1	616.5	610.8	609.4	595.1	575.9	566.4	560.1	547.6	538.3
160°	607.4	610.6	607.4	604.1	603.3	590.9	574.6	566.4	561.4	551.5	544.1
162.5°	601.4	604.5	601.4	598.3	597.6	587.2	573.3	566.4	562.8	555.6	550.2
165°	592.7	596.0	592.7	589.5	588.7	581.2	571.3	566.4	564.7	561.4	559.0
167.5°	586.6	588.0	586.6	585.2	584.9	580.0	573.5	570.2	568.8	566.1	564.0
170°	584.9	584.9	584.9	584.9	584.9	580.0	573.5	570.2	570.1	569.9	569.8
172.5°	580.3	579.1	580.3	581.5	581.8	578.0	572.8	570.2	570.2	570.2	570.2
175°	577.5	577.5	577.5	577.5	577.5	575.1	571.8	570.2	571.0	572.5	573.7
177.5°	575.1	573.7	575.1	576.4	576.7	574.8	572.3	571.0	571.5	572.7	573.7
180°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7



TEST NUMBER: P934296

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2
2.5°	1343.0	1335.4	1335.4	1322.9	1318.0	1314.1	1307.9	1289.1	1284.1	1279.1	1286.6
5°	1354.3	1340.5	1330.5	1307.9	1289.1	1281.6	1257.8	1212.7	1182.6	1160.0	1147.5
7.5°	1356.7	1339.3	1320.4	1285.4	1240.3	1220.2	1147.5	1064.9	1042.3	1022.3	1009.7
10°	1354.3	1334.2	1307.9	1255.3	1148.8	1113.7	1041.0	987.1	973.4	969.7	973.4
12.5°	1345.5	1326.7	1290.3	1202.7	1053.6	1029.8	987.1	955.9	953.3	959.6	993.5
15°	1330.5	1312.9	1270.3	1132.5	1001.0	983.4	953.3	942.1	955.9	999.8	1101.2
17.5°	1315.4	1295.4	1242.8	1063.6	960.9	948.4	927.1	949.6	1027.3	1086.1	1120.0
20°	1295.4	1271.5	1211.4	1013.5	932.0	920.8	910.7	1012.3	1071.1	1092.4	1111.2
22.5°	1271.5	1246.5	1168.8	978.5	902.0	893.3	899.5	1047.3	1071.1	1086.1	1102.4
25°	1240.3	1219.0	1118.7	950.9	878.2	868.2	892.0	1043.6	1057.4	1061.1	1093.7
27.5°	1211.4	1183.8	1066.2	925.8	849.4	845.6	898.2	1027.3	1037.3	1041.0	1076.2
30°	1176.4	1135.0	1007.2	899.5	819.3	818.1	899.5	1007.2	1004.7	1014.8	1049.8
32.5°	1140.0	1062.3	940.8	866.9	790.5	789.2	890.8	977.2	974.6	988.5	1014.8
35°	1106.2	1006.0	850.6	829.3	754.2	755.4	869.5	942.1	943.3	955.9	972.2
37.5°	1071.1	957.2	751.7	788.0	719.1	719.1	840.6	909.5	907.0	910.7	933.3
40°	1029.8	880.7	664.0	734.1	686.5	682.8	805.6	874.4	865.6	864.4	895.7
42.5°	985.9	796.8	598.8	662.8	648.9	643.9	763.0	831.8	815.6	819.3	859.4
45°	938.3	774.2	548.7	560.0	610.1	606.4	716.6	783.0	771.7	781.8	823.0
47.5°	890.8	729.1	532.5	464.8	568.8	567.5	665.2	735.3	729.1	739.2	783.0
50°	825.6	679.0	531.2	398.4	522.4	527.4	603.8	689.0	689.0	697.8	744.1
52.5°	741.7	617.7	482.3	360.8	468.5	483.5	549.9	648.9	651.5	660.2	701.5
55°	665.2	553.8	447.2	331.9	404.6	437.2	497.4	607.6	612.6	621.4	658.9
57.5°	595.1	461.0	439.7	298.1	345.8	377.1	451.0	567.5	570.0	577.5	613.8
60°	519.9	333.3	403.4	261.8	294.4	318.2	408.4	519.9	528.6	533.7	565.0
62.5°	434.7	241.8	365.8	236.8	269.4	274.3	373.3	474.8	486.1	489.9	508.7
65°	309.4	203.0	310.6	215.5	243.0	244.3	335.8	428.4	438.5	444.8	458.5
67.5°	209.2	165.4	236.8	195.4	223.0	224.3	299.4	374.6	388.4	393.4	402.2
70°	145.3	110.2	175.4	174.1	200.4	203.0	260.6	325.7	338.3	342.0	347.0
72.5°	106.5	88.9	145.3	156.6	176.6	179.1	220.5	270.6	283.1	286.9	289.4
75°	81.4	94.0	117.8	136.6	150.4	151.6	180.4	220.5	229.3	231.7	233.0
77.5°	65.1	87.7	86.5	110.2	122.7	120.3	141.6	170.4	177.9	177.9	177.9
80°	48.8	68.9	65.1	78.9	90.2	87.7	101.4	121.5	124.0	126.6	125.2
82.5°	36.3	43.8	43.8	50.2	60.1	57.6	67.6	78.9	78.9	78.9	81.4
85°	22.5	25.0	20.1	26.3	33.8	32.6	37.5	42.6	43.8	43.8	41.4
87.5°	13.8	11.3	6.3	10.0	15.0	15.0	17.6	18.8	17.6	17.6	17.6
90°	10.0	6.9	3.8	6.9	10.0	10.7	16.9	25.1	29.2	26.0	19.5
92.5°	67.8	41.6	15.4	41.6	67.8	74.3	104.5	144.7	164.8	144.4	103.7
95°	132.8	84.9	37.0	84.9	132.8	144.8	257.0	406.8	481.7	429.8	326.2
97.5°	148.4	106.1	63.9	106.1	148.4	159.0	346.2	595.9	720.8	688.0	622.4
100°	161.3	123.0	84.7	123.0	161.3	170.9	378.7	655.8	794.3	796.7	801.5
102.5°	173.9	138.2	102.5	138.2	173.9	182.9	393.6	674.6	815.1	856.9	940.4
105°	193.1	162.7	132.4	162.7	193.1	200.6	404.7	676.8	812.8	906.4	1093.6
107.5°	219.7	191.5	163.3	191.5	219.7	226.8	406.7	646.6	766.5	897.1	1158.3
110°	235.1	209.5	184.0	209.5	235.1	241.4	403.7	619.9	728.1	874.0	1165.9



TEST NUMBER: P934296

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	253.0	228.7	204.5	228.7	253.0	259.1	403.8	596.6	693.0	842.4	1141.2
115°	280.1	257.7	235.3	257.7	280.1	285.7	407.5	569.9	651.1	795.0	1082.8
117.5°	306.4	286.0	265.6	286.0	306.4	311.5	415.1	553.1	622.1	752.1	1011.8
120°	321.8	302.5	283.4	302.5	321.8	326.5	421.2	547.5	610.6	729.3	966.6
122.5°	339.3	320.0	300.7	320.0	339.3	344.2	430.0	544.5	601.8	708.6	922.4
125°	362.5	344.8	327.3	344.8	362.5	366.9	442.0	542.1	592.2	682.9	864.5
127.5°	384.3	366.6	348.8	366.6	384.3	388.8	453.9	540.7	584.0	662.0	817.9
130°	398.7	379.5	360.3	379.5	398.7	403.5	462.6	541.5	580.9	650.3	789.1
132.5°	410.7	391.4	372.3	391.4	410.7	415.4	469.7	542.1	578.3	640.4	764.7
135°	424.9	407.5	390.0	407.5	424.9	429.3	477.4	541.5	573.7	625.7	729.7
137.5°	442.7	425.4	408.2	425.4	442.7	447.0	488.9	544.9	572.9	616.9	704.9
140°	455.0	439.1	423.1	439.1	455.0	459.0	496.0	545.5	570.2	608.2	684.2
142.5°	464.1	449.3	434.7	449.3	464.1	467.7	501.9	547.4	570.2	603.6	670.3
145°	478.1	465.2	452.4	465.2	478.1	481.3	509.7	547.5	566.4	593.7	648.3
147.5°	495.1	482.6	470.1	482.6	495.1	498.2	520.9	551.2	566.4	587.9	630.7
150°	504.3	493.0	481.7	493.0	504.3	507.1	526.9	553.2	566.4	584.5	620.8
152.5°	510.7	502.2	493.6	502.2	510.7	512.9	530.7	554.5	566.4	581.9	612.8
155°	524.0	517.6	511.3	517.6	524.0	525.6	539.2	557.3	566.4	578.7	603.3
157.5°	536.7	530.5	524.3	530.5	536.7	538.3	547.6	560.1	566.4	575.9	595.1
160°	542.8	538.1	533.2	538.1	542.8	544.1	551.5	561.4	566.4	574.6	590.9
162.5°	549.3	545.7	542.1	545.7	549.3	550.2	555.6	562.8	566.4	573.3	587.2
165°	558.2	555.0	551.7	555.0	558.2	559.0	561.4	564.7	566.4	571.3	581.2
167.5°	563.7	562.1	560.6	562.1	563.7	564.0	566.1	568.8	570.2	573.5	580.0
170°	569.5	567.9	566.4	567.9	569.5	569.8	569.9	570.1	570.2	573.5	580.0
172.5°	570.1	569.8	569.5	569.8	570.1	570.2	570.2	570.2	570.2	572.8	578.0
175°	573.7	573.7	573.7	573.7	573.7	573.7	572.5	571.0	570.2	571.8	575.1
177.5°	573.7	573.7	573.7	573.7	573.7	573.7	572.7	571.5	571.0	572.3	574.8
180°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7



TEST NUMBER: P934296

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2
2.5°	1277.8	1274.1	1279.1	1265.3	1279.1	1274.1	1277.8	1286.6	1279.1	1284.1	1289.1
5°	1121.3	1115.0	1094.9	1078.7	1094.9	1115.0	1121.3	1147.5	1160.0	1182.6	1212.7
7.5°	1002.2	997.2	992.2	982.2	992.2	997.2	1002.2	1009.7	1022.3	1042.3	1064.9
10°	975.9	977.2	984.7	983.4	984.7	977.2	975.9	973.4	969.7	973.4	987.1
12.5°	1043.6	1054.9	1096.1	1093.7	1096.1	1054.9	1043.6	993.5	959.6	953.3	955.9
15°	1121.3	1125.0	1133.8	1135.0	1133.8	1125.0	1121.3	1101.2	999.8	955.9	942.1
17.5°	1128.7	1130.0	1136.3	1136.3	1136.3	1130.0	1128.7	1120.0	1086.1	1027.3	949.6
20°	1122.5	1125.0	1137.5	1140.0	1137.5	1125.0	1122.5	1111.2	1092.4	1071.1	1012.3
22.5°	1120.0	1125.0	1135.0	1133.8	1135.0	1125.0	1120.0	1102.4	1086.1	1071.1	1047.3
25°	1107.4	1107.4	1108.8	1110.0	1108.8	1107.4	1107.4	1093.7	1061.1	1057.4	1043.6
27.5°	1081.1	1083.6	1091.2	1089.9	1091.2	1083.6	1081.1	1076.2	1041.0	1037.3	1027.3
30°	1057.4	1054.9	1048.6	1043.6	1048.6	1054.9	1057.4	1049.8	1014.8	1004.7	1007.2
32.5°	1017.2	1011.0	1004.7	1001.0	1004.7	1011.0	1017.2	1014.8	988.5	974.6	977.2
35°	969.7	970.9	969.7	965.8	969.7	970.9	969.7	972.2	955.9	943.3	942.1
37.5°	935.9	938.3	937.1	932.0	937.1	938.3	935.9	933.3	910.7	907.0	909.5
40°	900.7	902.0	900.7	897.0	900.7	902.0	900.7	895.7	864.4	865.6	874.4
42.5°	866.9	865.6	861.9	859.4	861.9	865.6	866.9	859.4	819.3	815.6	831.8
45°	828.1	829.3	821.8	818.1	821.8	829.3	828.1	823.0	781.8	771.7	783.0
47.5°	789.2	789.2	783.0	779.2	783.0	789.2	789.2	783.0	739.2	729.1	735.3
50°	747.9	746.6	737.9	736.6	737.9	746.6	747.9	744.1	697.8	689.0	689.0
52.5°	700.3	700.3	701.5	704.0	701.5	700.3	700.3	701.5	660.2	651.5	648.9
55°	658.9	660.2	669.0	671.5	669.0	660.2	658.9	658.9	621.4	612.6	607.6
57.5°	616.3	616.3	622.6	622.6	622.6	616.3	616.3	613.8	577.5	570.0	567.5
60°	567.5	570.0	575.1	573.8	575.1	570.0	567.5	565.0	533.7	528.6	519.9
62.5°	516.1	518.7	519.9	517.4	519.9	518.7	516.1	508.7	489.9	486.1	474.8
65°	462.2	464.8	466.1	463.5	466.1	464.8	462.2	458.5	444.8	438.5	428.4
67.5°	407.1	405.9	404.6	409.7	404.6	405.9	407.1	402.2	393.4	388.4	374.6
70°	350.8	350.8	349.5	352.0	349.5	350.8	350.8	347.0	342.0	338.3	325.7
72.5°	290.7	289.4	294.4	290.7	294.4	289.4	290.7	289.4	286.9	283.1	270.6
75°	231.7	234.2	231.7	235.6	231.7	234.2	231.7	233.0	231.7	229.3	220.5
77.5°	176.6	179.1	176.6	176.6	176.6	179.1	176.6	177.9	177.9	177.9	170.4
80°	125.2	124.0	124.0	122.7	124.0	124.0	125.2	125.2	126.6	124.0	121.5
82.5°	80.1	78.9	78.9	81.4	78.9	78.9	80.1	81.4	78.9	78.9	78.9
85°	43.8	45.1	42.6	42.6	42.6	45.1	43.8	41.4	43.8	43.8	42.6
87.5°	16.3	15.0	15.0	15.0	15.0	15.0	16.3	17.6	17.6	17.6	18.8
90°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	19.5	26.0	29.2	25.1
92.5°	73.1	70.2	58.6	47.0	58.6	70.2	73.1	103.7	144.4	164.8	144.7
95°	248.4	239.6	204.3	169.1	204.3	239.6	248.4	326.2	429.8	481.7	406.8
97.5°	573.3	556.5	489.4	422.4	489.4	556.5	573.3	622.4	688.0	720.8	595.9
100°	805.0	785.0	705.2	625.2	705.2	785.0	805.0	801.5	796.7	794.3	655.8
102.5°	1002.9	985.8	917.4	848.9	917.4	985.8	1002.9	940.4	856.9	815.1	674.6
105°	1234.0	1224.8	1188.0	1151.2	1188.0	1224.8	1234.0	1093.6	906.4	812.8	676.8
107.5°	1354.1	1356.4	1365.2	1374.1	1365.2	1356.4	1354.1	1158.3	897.1	766.5	646.6
110°	1384.8	1394.5	1432.8	1471.1	1432.8	1394.5	1384.8	1165.9	874.0	728.1	619.9



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1365.2	1380.0	1438.8	1497.7	1438.8	1380.0	1365.2	1141.2	842.4	693.0	596.6
115°	1298.6	1319.0	1400.6	1482.3	1400.6	1319.0	1298.6	1082.8	795.0	651.1	569.9
117.5°	1206.6	1229.2	1319.8	1410.3	1319.8	1229.2	1206.6	1011.8	752.1	622.1	553.1
120°	1144.6	1166.6	1254.5	1342.5	1254.5	1166.6	1144.6	966.6	729.3	610.6	547.5
122.5°	1082.7	1104.4	1191.1	1277.9	1191.1	1104.4	1082.7	922.4	708.6	601.8	544.5
125°	1000.7	1020.7	1100.5	1180.5	1100.5	1020.7	1000.7	864.5	682.9	592.2	542.1
127.5°	934.8	951.7	1019.1	1086.5	1019.1	951.7	934.8	817.9	662.0	584.0	540.7
130°	893.2	908.8	971.1	1033.4	971.1	908.8	893.2	789.1	650.3	580.9	541.5
132.5°	857.8	871.7	927.6	983.3	927.6	871.7	857.8	764.7	640.4	578.3	542.1
135°	807.7	819.8	867.9	916.0	867.9	819.8	807.7	729.7	625.7	573.7	541.5
137.5°	770.8	780.6	820.1	859.4	820.1	780.6	770.8	704.9	616.9	572.9	544.9
140°	741.1	750.3	787.1	823.9	787.1	750.3	741.1	684.2	608.2	570.2	545.5
142.5°	720.4	728.3	759.9	791.6	759.9	728.3	720.4	670.3	603.6	570.2	547.4
145°	689.2	695.2	719.2	743.1	719.2	695.2	689.2	648.3	593.7	566.4	547.5
147.5°	663.0	667.9	687.8	707.7	687.8	667.9	663.0	630.7	587.9	566.4	551.2
150°	648.0	652.0	668.1	684.2	668.1	652.0	648.0	620.8	584.5	566.4	553.2
152.5°	636.1	639.1	651.3	663.4	651.3	639.1	636.1	612.8	581.9	566.4	554.5
155°	621.8	623.8	631.9	639.9	631.9	623.8	621.8	603.3	578.7	566.4	557.3
157.5°	609.4	610.8	616.5	622.1	616.5	610.8	609.4	595.1	575.9	566.4	560.1
160°	603.3	604.1	607.4	610.6	607.4	604.1	603.3	590.9	574.6	566.4	561.4
162.5°	597.6	598.3	601.4	604.5	601.4	598.3	597.6	587.2	573.3	566.4	562.8
165°	588.7	589.5	592.7	596.0	592.7	589.5	588.7	581.2	571.3	566.4	564.7
167.5°	584.9	585.2	586.6	588.0	586.6	585.2	584.9	580.0	573.5	570.2	568.8
170°	584.9	584.9	584.9	584.9	584.9	584.9	584.9	580.0	573.5	570.2	570.1
172.5°	581.8	581.5	580.3	579.1	580.3	581.5	581.8	578.0	572.8	570.2	570.2
175°	577.5	577.5	577.5	577.5	577.5	577.5	577.5	575.1	571.8	570.2	571.0
177.5°	576.7	576.4	575.1	573.7	575.1	576.4	576.7	574.8	572.3	571.0	571.5
180°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1324.2	1324.2	1324.2	1324.2	1324.2
2.5°	1307.9	1314.1	1318.0	1322.9	1335.4
5°	1257.8	1281.6	1289.1	1307.9	1330.5
7.5°	1147.5	1220.2	1240.3	1285.4	1320.4
10°	1041.0	1113.7	1148.8	1255.3	1307.9
12.5°	987.1	1029.8	1053.6	1202.7	1290.3
15°	953.3	983.4	1001.0	1132.5	1270.3
17.5°	927.1	948.4	960.9	1063.6	1242.8
20°	910.7	920.8	932.0	1013.5	1211.4
22.5°	899.5	893.3	902.0	978.5	1168.8
25°	892.0	868.2	878.2	950.9	1118.7
27.5°	898.2	845.6	849.4	925.8	1066.2
30°	899.5	818.1	819.3	899.5	1007.2
32.5°	890.8	789.2	790.5	866.9	940.8
35°	869.5	755.4	754.2	829.3	850.6
37.5°	840.6	719.1	719.1	788.0	751.7
40°	805.6	682.8	686.5	734.1	664.0
42.5°	763.0	643.9	648.9	662.8	598.8
45°	716.6	606.4	610.1	560.0	548.7
47.5°	665.2	567.5	568.8	464.8	532.5
50°	603.8	527.4	522.4	398.4	531.2
52.5°	549.9	483.5	468.5	360.8	482.3
55°	497.4	437.2	404.6	331.9	447.2
57.5°	451.0	377.1	345.8	298.1	439.7
60°	408.4	318.2	294.4	261.8	403.4
62.5°	373.3	274.3	269.4	236.8	365.8
65°	335.8	244.3	243.0	215.5	310.6
67.5°	299.4	224.3	223.0	195.4	236.8
70°	260.6	203.0	200.4	174.1	175.4
72.5°	220.5	179.1	176.6	156.6	145.3
75°	180.4	151.6	150.4	136.6	117.8
77.5°	141.6	120.3	122.7	110.2	86.5
80°	101.4	87.7	90.2	78.9	65.1
82.5°	67.6	57.6	60.1	50.2	43.8
85°	37.5	32.6	33.8	26.3	20.1
87.5°	17.6	15.0	15.0	10.0	6.3
90°	16.9	10.7	10.0	6.9	3.8
92.5°	104.5	74.3	67.8	41.6	15.4
95°	257.0	144.8	132.8	84.9	37.0
97.5°	346.2	159.0	148.4	106.1	63.9
100°	378.7	170.9	161.3	123.0	84.7
102.5°	393.6	182.9	173.9	138.2	102.5
105°	404.7	200.6	193.1	162.7	132.4
107.5°	406.7	226.8	219.7	191.5	163.3
110°	403.7	241.4	235.1	209.5	184.0



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CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	403.8	259.1	253.0	228.7	204.5
115°	407.5	285.7	280.1	257.7	235.3
117.5°	415.1	311.5	306.4	286.0	265.6
120°	421.2	326.5	321.8	302.5	283.4
122.5°	430.0	344.2	339.3	320.0	300.7
125°	442.0	366.9	362.5	344.8	327.3
127.5°	453.9	388.8	384.3	366.6	348.8
130°	462.6	403.5	398.7	379.5	360.3
132.5°	469.7	415.4	410.7	391.4	372.3
135°	477.4	429.3	424.9	407.5	390.0
137.5°	488.9	447.0	442.7	425.4	408.2
140°	496.0	459.0	455.0	439.1	423.1
142.5°	501.9	467.7	464.1	449.3	434.7
145°	509.7	481.3	478.1	465.2	452.4
147.5°	520.9	498.2	495.1	482.6	470.1
150°	526.9	507.1	504.3	493.0	481.7
152.5°	530.7	512.9	510.7	502.2	493.6
155°	539.2	525.6	524.0	517.6	511.3
157.5°	547.6	538.3	536.7	530.5	524.3
160°	551.5	544.1	542.8	538.1	533.2
162.5°	555.6	550.2	549.3	545.7	542.1
165°	561.4	559.0	558.2	555.0	551.7
167.5°	566.1	564.0	563.7	562.1	560.6
170°	569.9	569.8	569.5	567.9	566.4
172.5°	570.2	570.2	570.1	569.8	569.5
175°	572.5	573.7	573.7	573.7	573.7
177.5°	572.7	573.7	573.7	573.7	573.7
180°	573.7	573.7	573.7	573.7	573.7



TEST NUMBER: P934296
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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	10.93	11.77	11.90	12.76	14.06	13.77	14.61	14.74	15.60	16.90
	3H	11.40	12.16	12.39	13.16	14.48	15.11	15.87	16.10	16.87	18.19
	4H	11.59	12.31	12.59	13.31	14.64	15.56	16.27	16.56	17.27	18.60
	6H	11.71	12.37	12.72	13.38	14.72	15.84	16.50	16.85	17.51	18.85
	8H	11.71	12.34	12.73	13.36	14.70	15.92	16.55	16.93	17.57	18.91
	12H	11.68	12.28	12.70	13.30	14.66	15.96	16.55	16.98	17.57	18.93
4H	2H	11.96	12.68	12.97	13.68	15.01	14.17	14.89	15.18	15.89	17.22
	3H	12.99	13.58	14.00	14.61	15.96	15.68	16.28	16.69	17.31	18.65
	4H	13.26	13.81	14.28	14.83	16.19	16.21	16.75	17.23	17.78	19.14
	6H	13.39	13.86	14.42	14.90	16.26	16.57	17.04	17.61	18.09	19.45
	8H	13.39	13.83	14.42	14.87	16.24	16.68	17.12	17.72	18.16	19.54
	12H	13.36	13.75	14.41	14.81	16.19	16.74	17.14	17.79	18.19	19.57
8H	4H	13.72	14.15	14.75	15.19	16.57	16.33	16.77	17.36	17.81	19.18
	6H	13.98	14.34	15.03	15.42	16.79	16.77	17.13	17.83	18.21	19.59
	8H	14.02	14.34	15.08	15.40	16.80	16.92	17.24	17.99	18.30	19.70
	12H	14.00	14.28	15.07	15.34	16.78	17.02	17.30	18.09	18.36	19.80
12H	4H	13.72	14.12	14.77	15.17	16.55	16.30	16.69	17.35	17.74	19.13
	6H	14.04	14.36	15.10	15.42	16.81	16.77	17.08	17.83	18.15	19.54
	8H	14.10	14.38	15.17	15.44	16.88	16.93	17.21	18.00	18.27	19.70