

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: P1191290

Luminaire Tested: SQ2-FA-075U-100D-L930-UNV-STD-W-4

Issue Date: 9/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1191290
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-075U-100D-L930-UNV-STD-W-4
Description: CORELITE SQ2 LED LUMINAIRE
FROSTED CONTINUOUS ASYMMETRIC ROLL LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

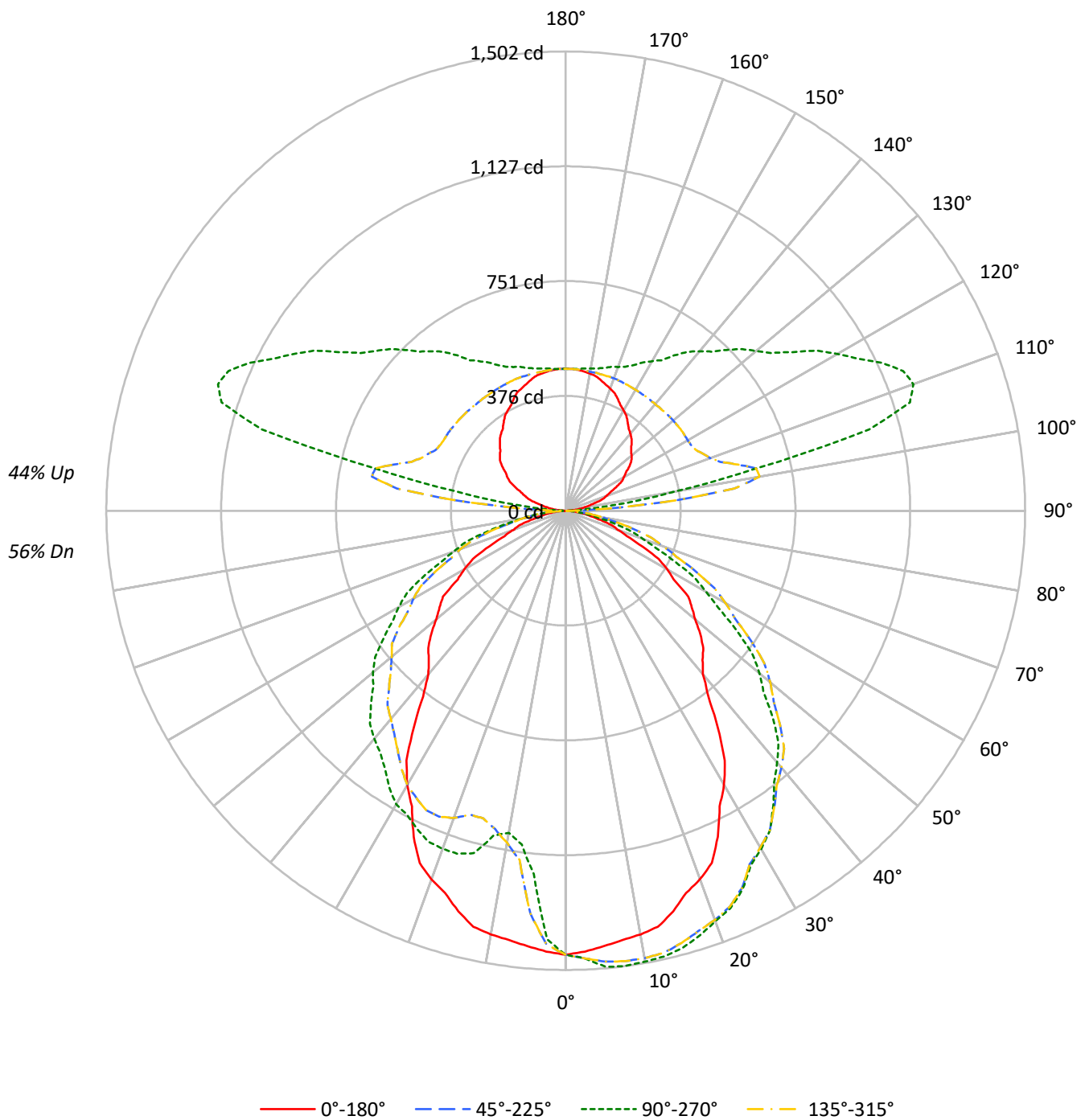
Lumens per Lamp: N/A
Luminaire Lumens: 6482.7 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 60.9
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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61
1	99	95	91	88	92	88	85	82	76	74	71	65	63	61	54	53	52
2	90	83	77	72	84	77	72	67	67	63	59	57	54	51	48	46	44
3	82	73	66	60	76	68	62	56	59	54	50	50	47	44	43	40	37
4	75	65	57	51	70	60	53	48	52	47	42	45	41	37	38	35	32
5	69	58	49	43	64	54	47	41	47	41	37	40	36	32	34	31	28
6	64	52	43	38	59	48	41	36	42	36	32	36	32	28	31	27	25
7	59	47	39	33	55	44	36	31	38	32	28	33	28	25	28	25	22
8	55	42	35	29	51	40	33	28	35	29	25	30	26	22	26	22	20
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	20	18
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16

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	2.0
10°-20°	365.1	5.6
20°-30°	554.5	8.6
30°-40°	650.9	10.0
40°-50°	660.5	10.2
50°-60°	578.6	8.9
60°-70°	410.5	6.3
70°-80°	211.4	3.3
80°-90°	44.8	0.7
90°-100°	175.7	2.7
100°-110°	582.3	9.0
110°-120°	578.0	8.9
120°-130°	470.8	7.3
130°-140°	382.6	5.9
140°-150°	297.1	4.6
150°-160°	214.1	3.3
160°-170°	131.1	2.0
170°-180°	44.3	0.7
0°-30°	1050.2	16.2
0°-40°	1701.1	26.2
0°-60°	2940.2	45.4
0°-90°	3606.8	55.6
90°-120°	1336.0	20.6
90°-150°	2486.4	38.4
90°-180°	2876.0	44.4
0°-180°	6482.7	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	4	0	4	0	2
95°	25	76	25	76	25	29
105°	102	1028	102	1028	102	107
115°	182	1142	182	1142	182	180
125°	254	905	254	905	254	226
135°	304	743	304	743	304	235
145°	353	620	353	620	353	221
155°	403	525	403	525	403	186
165°	442	484	442	484	442	125
175°	463	466	463	466	463	44
180°	464	464	464	464	464	

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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	4.7	9.6	5.3	5.3	5.3	9.6	4.7	4.5	9.1	9.6
90°	0.0	0.9	2.9	3.8	3.8	3.8	2.9	0.9	0.0	0.9	2.9
92.5°	7.7	29.7	87.5	28.4	23.8	28.4	87.5	29.7	7.7	29.7	87.5
95°	25.0	73.9	318.3	113.6	76.0	113.6	318.3	73.9	25.0	73.9	318.3
97.5°	46.0	97.1	555.7	324.1	204.8	324.1	555.7	97.1	46.0	97.1	555.7
100°	60.6	109.5	643.4	552.6	366.4	552.6	643.4	109.5	60.6	109.5	643.4
102.5°	76.7	124.1	638.0	844.5	638.0	844.5	638.0	124.1	76.7	124.1	638.0
105°	101.9	145.2	582.8	1099.5	1028.0	1099.5	582.8	145.2	101.9	145.2	582.8
107.5°	127.7	166.3	529.9	1125.4	1179.8	1125.4	529.9	166.3	127.7	166.3	529.9
110°	142.3	180.9	503.0	1099.8	1209.8	1099.8	503.0	180.9	142.3	180.9	503.0

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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°	157.7	195.5	486.8	1054.3	1194.4	1054.3	486.8	195.5	157.7	195.5	486.8
115°	181.8	217.5	469.3	977.0	1142.5	977.0	469.3	217.5	181.8	217.5	469.3
117.5°	205.6	237.4	463.0	903.1	1076.7	903.1	463.0	237.4	205.6	237.4	463.0
120°	220.2	251.3	460.6	856.8	1025.1	856.8	460.6	251.3	220.2	251.3	460.6
122.5°	233.3	263.6	460.6	818.8	974.4	818.8	460.6	263.6	233.3	263.6	460.6
125°	253.9	282.1	460.6	767.7	904.9	767.7	460.6	282.1	253.9	282.1	460.6
127.5°	270.8	298.5	459.5	728.9	846.3	728.9	459.5	298.5	270.8	298.5	459.5
130°	280.8	310.0	458.7	706.3	811.7	706.3	458.7	310.0	280.8	310.0	458.7
132.5°	290.0	319.9	458.0	687.6	782.4	687.6	458.0	319.9	290.0	319.9	458.0
135°	303.9	334.9	456.8	658.7	743.4	658.7	456.8	334.9	303.9	334.9	456.8
137.5°	318.9	348.8	455.6	630.8	705.5	630.8	455.6	348.8	318.9	348.8	455.6
140°	328.9	358.0	454.9	612.2	680.9	612.2	454.9	358.0	328.9	358.0	454.9
142.5°	338.1	366.5	455.6	593.6	654.7	593.6	455.6	366.5	338.1	366.5	455.6
145°	352.9	379.3	455.8	566.7	620.3	566.7	455.8	379.3	352.9	379.3	455.8
147.5°	368.9	390.9	456.0	543.9	583.7	543.9	456.0	390.9	368.9	390.9	456.0
150°	378.9	398.6	456.8	530.7	564.5	530.7	456.8	398.6	378.9	398.6	456.8
152.5°	388.1	407.1	457.6	519.7	546.8	519.7	457.6	407.1	388.1	407.1	457.6
155°	402.9	417.0	458.7	506.3	525.1	506.3	458.7	417.0	402.9	417.0	458.7
157.5°	417.4	428.3	459.9	496.7	510.1	496.7	459.9	428.3	417.4	428.3	459.9
160°	425.1	434.5	460.6	489.7	500.1	489.7	460.6	434.5	425.1	434.5	460.6
162.5°	432.8	439.9	460.6	485.1	493.1	485.1	460.6	439.9	432.8	439.9	460.6
165°	442.4	447.1	460.6	479.0	483.7	479.0	460.6	447.1	442.4	447.1	460.6
167.5°	451.2	453.7	461.6	473.6	476.0	473.6	461.6	453.7	451.2	453.7	461.6
170°	455.8	456.8	461.6	471.2	472.2	471.2	461.6	456.8	455.8	456.8	461.6
172.5°	458.9	459.9	462.4	468.9	469.1	468.9	462.4	459.9	458.9	459.9	462.4
175°	462.6	462.6	463.5	466.4	465.5	466.4	463.5	462.6	462.6	462.6	463.5
177.5°	464.5	464.5	463.7	465.2	463.7	465.2	463.7	464.5	464.5	464.5	463.7
180°	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5	464.5

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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°	9.8	9.8	9.8	9.6	9.1	4.5
90°	3.8	3.8	3.8	2.9	0.9	0.0
92.5°	28.4	23.8	28.4	87.5	29.7	7.7
95°	113.6	76.0	113.6	318.3	73.9	25.0
97.5°	324.1	204.8	324.1	555.7	97.1	46.0
100°	552.6	366.4	552.6	643.4	109.5	60.6
102.5°	844.5	638.0	844.5	638.0	124.1	76.7
105°	1099.5	1028.0	1099.5	582.8	145.2	101.9
107.5°	1125.4	1179.8	1125.4	529.9	166.3	127.7
110°	1099.8	1209.8	1099.8	503.0	180.9	142.3

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1054.3	1194.4	1054.3	486.8	195.5	157.7
115°	977.0	1142.5	977.0	469.3	217.5	181.8
117.5°	903.1	1076.7	903.1	463.0	237.4	205.6
120°	856.8	1025.1	856.8	460.6	251.3	220.2
122.5°	818.8	974.4	818.8	460.6	263.6	233.3
125°	767.7	904.9	767.7	460.6	282.1	253.9
127.5°	728.9	846.3	728.9	459.5	298.5	270.8
130°	706.3	811.7	706.3	458.7	310.0	280.8
132.5°	687.6	782.4	687.6	458.0	319.9	290.0
135°	658.7	743.4	658.7	456.8	334.9	303.9
137.5°	630.8	705.5	630.8	455.6	348.8	318.9
140°	612.2	680.9	612.2	454.9	358.0	328.9
142.5°	593.6	654.7	593.6	455.6	366.5	338.1
145°	566.7	620.3	566.7	455.8	379.3	352.9
147.5°	543.9	583.7	543.9	456.0	390.9	368.9
150°	530.7	564.5	530.7	456.8	398.6	378.9
152.5°	519.7	546.8	519.7	457.6	407.1	388.1
155°	506.3	525.1	506.3	458.7	417.0	402.9
157.5°	496.7	510.1	496.7	459.9	428.3	417.4
160°	489.7	500.1	489.7	460.6	434.5	425.1
162.5°	485.1	493.1	485.1	460.6	439.9	432.8
165°	479.0	483.7	479.0	460.6	447.1	442.4
167.5°	473.6	476.0	473.6	461.6	453.7	451.2
170°	471.2	472.2	471.2	461.6	456.8	455.8
172.5°	468.9	469.1	468.9	462.4	459.9	458.9
175°	466.4	465.5	466.4	463.5	462.6	462.6
177.5°	465.2	463.7	465.2	463.7	464.5	464.5
180°	464.5	464.5	464.5	464.5	464.5	464.5

TEST NUMBER: P1191290

CATALOG NUMBER: SQ2-FA-075U-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	17.82	18.73	18.72	19.66	20.84	19.04	19.95	19.95	20.88	22.07
	3H	18.91	19.73	19.83	20.66	21.88	20.29	21.11	21.21	22.04	23.26
	4H	19.27	20.04	20.20	20.98	22.20	20.68	21.45	21.62	22.40	23.62
	6H	19.43	20.14	20.38	21.09	22.33	20.84	21.56	21.79	22.50	23.74
	8H	19.47	20.15	20.42	21.11	22.34	20.87	21.55	21.82	22.51	23.75
	12H	19.47	20.11	20.42	21.07	22.33	20.86	21.50	21.82	22.46	23.72
4H	2H	18.75	19.52	19.69	20.47	21.69	19.66	20.44	20.60	21.38	22.60
	3H	20.12	20.77	21.08	21.74	22.98	21.12	21.76	22.07	22.73	23.97
	4H	20.57	21.16	21.53	22.12	23.39	21.59	22.18	22.55	23.14	24.40
	6H	20.80	21.31	21.78	22.30	23.56	21.81	22.32	22.79	23.31	24.57
	8H	20.86	21.33	21.84	22.32	23.59	21.86	22.33	22.84	23.32	24.59
	12H	20.86	21.29	21.86	22.29	23.57	21.85	22.28	22.85	23.28	24.56
8H	4H	20.98	21.45	21.95	22.43	23.71	21.80	22.27	22.78	23.26	24.53
	6H	21.32	21.71	22.32	22.74	24.01	22.11	22.50	23.12	23.53	24.80
	8H	21.44	21.78	22.45	22.79	24.09	22.21	22.55	23.22	23.57	24.86
	12H	21.48	21.78	22.49	22.79	24.12	22.23	22.53	23.24	23.53	24.87
12H	4H	20.98	21.41	21.98	22.41	23.69	21.77	22.20	22.77	23.20	24.48
	6H	21.40	21.74	22.41	22.75	24.04	22.14	22.48	23.15	23.49	24.78
	8H	21.54	21.84	22.55	22.85	24.19	22.25	22.55	23.26	23.56	24.90