

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: P1191379

Luminaire Tested: SQ2-FA-150U-075D-L840-UNV-STD-W-4

Issue Date: 9/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1191379
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-150U-075D-L840-UNV-STD-W-4
Description: CORELITE SQ2 LED LUMINAIRE
FROSTED CONTINUOUS ASYMMETRIC ROLL LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

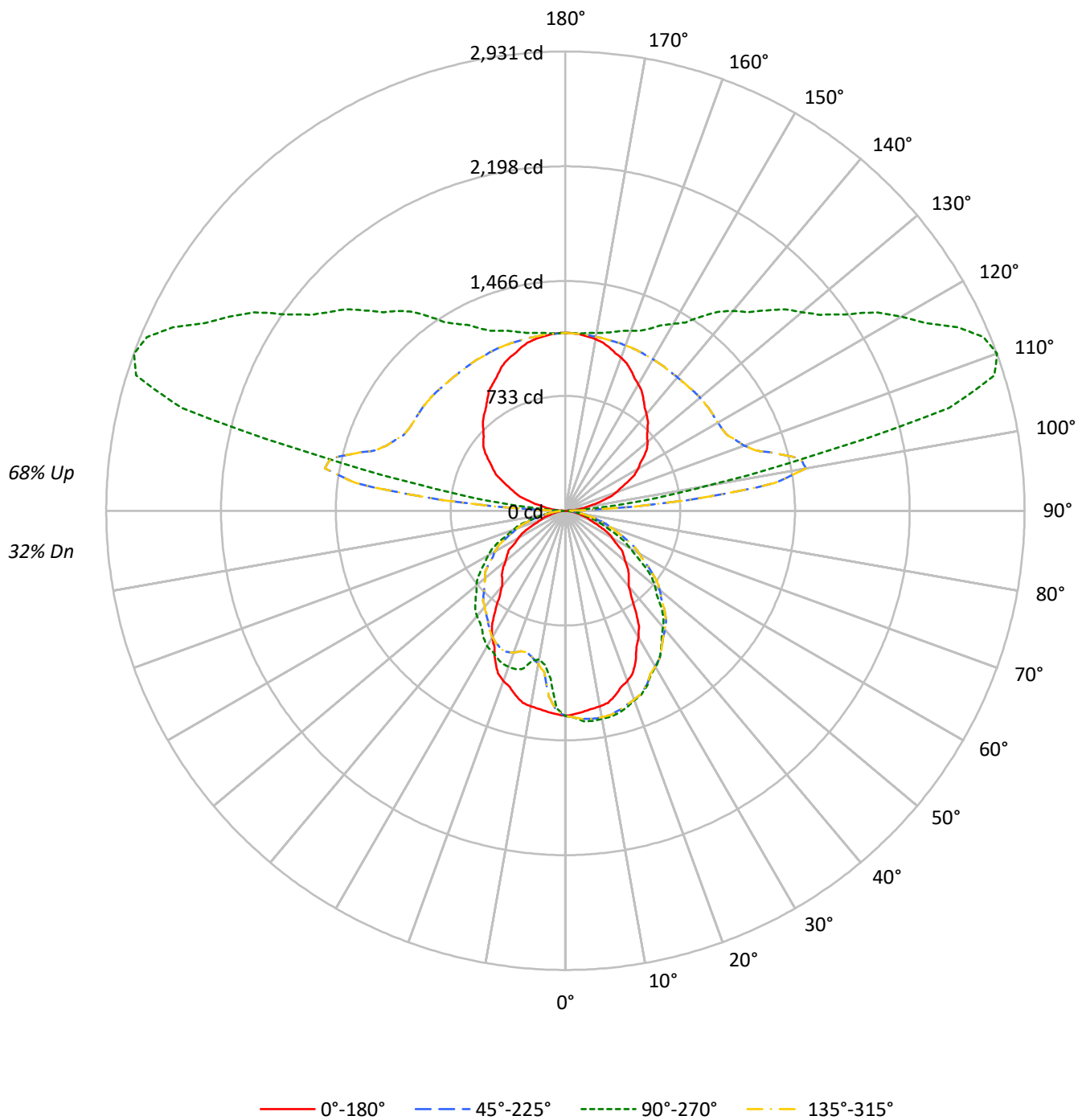
Lumens per Lamp: N/A
Luminaire Lumens: 10249.6 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 83.3
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	103	103	103	103	92	92	92	92	73	73	73	56	56	56	39	39	39
1	94	90	86	82	84	81	78	75	64	62	60	49	48	46	35	34	33
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	29	28
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	25	24
4	71	61	53	47	64	55	48	43	44	39	35	34	31	28	24	22	21
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	20	18
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	12
9	48	36	29	24	43	33	26	22	26	22	18	21	17	15	15	13	11
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	21130	21130	21130	21130
5°	20882	21867	20882	17428
10°	20790	22120	20790	15800
15°	20433	22298	20433	17466
20°	19871	22137	19871	18215
25°	18886	21959	18886	18433
30°	17400	21466	17400	18629
35°	15396	20996	15396	18295
40°	13257	20419	13257	18495
45°	13088	19689	13088	18532
50°	12486	18728	12486	18603
55°	12422	17275	12422	18418
60°	11137	15397	11137	18345
65°	9494	13566	9494	17830
70°	7662	11495	7662	16523
75°	6644	9495	6644	15190
80°	5662	7076	5662	12264
85°	3761	3761	3761	7521

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 20384 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	1.1
10°-20°	329.0	3.2
20°-30°	499.7	4.9
30°-40°	586.6	5.7
40°-50°	595.2	5.8
50°-60°	521.4	5.1
60°-70°	369.9	3.6
70°-80°	190.5	1.9
80°-90°	41.2	0.4
90°-100°	432.0	4.2
100°-110°	1414.7	13.8
110°-120°	1398.6	13.6
120°-130°	1143.3	11.2
130°-140°	933.0	9.1
140°-150°	726.1	7.1
150°-160°	522.8	5.1
160°-170°	319.8	3.1
170°-180°	108.1	1.1
0°-30°	946.4	9.2
0°-40°	1533.0	15.0
0°-60°	2649.7	25.9
0°-90°	3251.3	31.7
90°-120°	3245.3	31.7
90°-150°	6047.6	59.0
90°-180°	6998.0	68.3
0°-180°	10249.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1309	1309	1309	1309	1309	
5°	1288	1349	1288	1075	1288	122
15°	1222	1334	1222	1045	1222	343
25°	1060	1233	1060	1035	1060	484
35°	781	1065	781	928	781	487
45°	573	862	573	812	573	438
55°	441	614	441	654	441	382
65°	248	355	248	467	248	248
75°	106	152	106	244	106	115
85°	20	20	20	41	20	25
90°	1	9	1	9	1	4
95°	61	182	61	182	61	69
105°	246	2535	246	2535	246	259
115°	443	2768	443	2768	443	437
125°	616	2184	616	2184	616	548
135°	742	1807	742	1807	742	574
145°	868	1511	868	1511	868	544
155°	989	1282	989	1282	989	455
165°	1080	1180	1080	1180	1080	304
175°	1129	1136	1129	1136	1129	107
180°	1134	1134	1134	1134	1134	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7
2.5°	1300.5	1320.4	1320.8	1320.8	1320.8	1320.8	1320.8	1320.4	1300.5	1300.5	1280.2
5°	1288.4	1323.1	1334.0	1339.3	1349.2	1339.3	1334.0	1323.1	1288.4	1273.5	1192.0
7.5°	1276.2	1322.8	1339.1	1348.3	1353.3	1348.3	1339.1	1322.8	1276.2	1209.7	1038.8
10°	1268.1	1322.6	1339.1	1344.3	1349.2	1344.3	1339.1	1322.6	1268.1	1134.2	994.2
12.5°	1255.9	1314.4	1335.0	1340.2	1345.2	1340.2	1335.0	1314.4	1255.9	1066.4	961.7
15°	1222.4	1301.8	1318.8	1329.1	1334.0	1329.1	1318.8	1301.8	1222.4	1009.2	938.4
17.5°	1180.8	1277.0	1299.5	1308.7	1312.7	1308.7	1299.5	1277.0	1180.8	957.6	939.4
20°	1156.5	1260.6	1283.3	1288.4	1288.4	1288.4	1283.3	1260.6	1156.5	933.3	963.7
22.5°	1124.0	1240.1	1263.0	1264.1	1268.1	1264.1	1263.0	1240.1	1124.0	904.8	975.9
25°	1060.1	1194.0	1227.5	1222.6	1232.6	1222.6	1227.5	1194.0	1060.1	866.7	973.9
27.5°	982.0	1150.6	1174.7	1179.8	1179.8	1179.8	1174.7	1150.6	982.0	829.2	953.6
30°	933.3	1121.8	1146.3	1151.4	1151.4	1151.4	1146.3	1121.8	933.3	804.4	933.3
32.5°	872.4	1096.6	1117.9	1118.9	1118.9	1118.9	1117.9	1096.6	872.4	779.2	900.8
35°	781.1	1053.9	1070.3	1070.1	1065.2	1070.1	1070.3	1053.9	781.1	741.5	862.3
37.5°	689.8	999.3	1021.6	1014.3	1009.4	1014.3	1021.6	999.3	689.8	702.7	829.8
40°	629.0	966.2	989.1	973.8	968.8	973.8	989.1	966.2	629.0	673.6	801.4
42.5°	596.5	929.8	952.6	933.2	928.2	933.2	952.6	929.8	596.5	645.1	777.1
45°	573.2	870.7	892.7	872.2	862.3	872.2	892.7	870.7	573.2	602.9	735.5
47.5°	537.7	799.5	830.8	800.2	790.3	800.2	830.8	799.5	537.7	559.5	697.9
50°	497.1	755.0	786.2	755.5	745.6	755.5	786.2	755.0	497.1	526.8	669.5
52.5°	468.7	710.7	737.5	702.8	692.9	702.8	737.5	710.7	468.7	486.5	645.2
55°	441.3	644.6	664.5	628.6	613.7	628.6	664.5	644.6	441.3	426.4	598.5
57.5°	377.4	570.8	591.4	550.5	533.6	550.5	591.4	570.8	377.4	364.5	549.8
60°	344.9	518.5	542.7	501.6	476.8	501.6	542.7	518.5	344.9	320.1	517.4
62.5°	308.4	462.1	494.0	452.9	428.1	452.9	494.0	462.1	308.4	291.5	480.9
65°	248.5	382.5	421.0	379.9	355.1	379.9	421.0	382.5	248.5	258.5	421.0
67.5°	194.8	309.8	353.0	307.9	288.1	307.9	353.0	309.8	194.8	227.5	366.2
70°	162.3	261.5	304.3	263.3	243.5	263.3	304.3	261.5	162.3	206.9	329.7
72.5°	142.0	217.4	263.8	218.8	202.9	218.8	263.8	217.4	142.0	186.7	285.1
75°	106.5	151.2	202.9	162.1	152.2	162.1	202.9	151.2	106.5	151.2	223.2
77.5°	77.1	97.9	143.0	108.5	104.5	108.5	143.0	97.9	77.1	113.8	162.3
80°	60.9	65.8	106.5	76.1	76.1	76.1	106.5	65.8	60.9	85.7	121.7
82.5°	40.6	45.5	74.1	51.6	47.7	51.6	74.1	45.5	40.6	61.4	85.2
85°	20.3	20.3	30.4	20.3	20.3	20.3	30.4	20.3	20.3	30.2	40.6
87.5°	4.3	4.7	10.0	5.7	5.9	5.7	10.0	4.7	4.3	8.7	10.0
90°	1.2	3.4	9.3	8.2	9.3	8.2	9.3	3.4	1.2	3.4	9.3
92.5°	19.8	72.2	221.9	72.2	57.8	72.2	221.9	72.2	19.8	72.2	221.9
95°	60.6	175.7	785.4	279.8	181.8	279.8	785.4	175.7	60.6	175.7	785.4
97.5°	110.0	231.7	1347.6	815.2	505.3	815.2	1347.6	231.7	110.0	231.7	1347.6
100°	144.5	260.7	1559.2	1392.4	922.9	1392.4	1559.2	260.7	144.5	260.7	1559.2
102.5°	183.7	297.1	1535.9	2051.7	1590.4	2051.7	1535.9	297.1	183.7	297.1	1535.9
105°	245.9	350.7	1404.2	2667.9	2534.6	2667.9	1404.2	350.7	245.9	350.7	1404.2
107.5°	307.2	403.3	1275.8	2725.5	2872.0	2725.5	1275.8	403.3	307.2	403.3	1275.8
110°	347.3	440.7	1214.3	2658.4	2930.8	2658.4	1214.3	440.7	347.3	440.7	1214.3

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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°	385.5	476.2	1177.0	2541.8	2890.7	2541.8	1177.0	476.2	385.5	476.2	1177.0
115°	442.8	529.4	1140.8	2357.4	2767.6	2357.4	1140.8	529.4	442.8	529.4	1140.8
117.5°	498.5	579.4	1127.1	2176.3	2592.8	2176.3	1127.1	579.4	498.5	579.4	1127.1
120°	534.9	611.2	1123.4	2070.7	2476.3	2070.7	1123.4	611.2	534.9	611.2	1123.4
122.5°	567.5	642.0	1123.4	1979.6	2356.0	1979.6	1123.4	642.0	567.5	642.0	1123.4
125°	616.5	687.1	1124.5	1859.1	2183.8	1859.1	1124.5	687.1	616.5	687.1	1124.5
127.5°	657.9	729.9	1123.1	1770.2	2052.8	1770.2	1123.1	729.9	657.9	729.9	1123.1
130°	684.0	757.0	1122.2	1716.5	1971.7	1716.5	1122.2	757.0	684.0	757.0	1122.2
132.5°	707.3	782.1	1119.4	1670.3	1901.8	1670.3	1119.4	782.1	707.3	782.1	1119.4
135°	742.3	820.9	1115.2	1603.4	1807.4	1603.4	1115.2	820.9	742.3	820.9	1115.2
137.5°	779.1	857.1	1112.6	1533.8	1718.1	1533.8	1112.6	857.1	779.1	857.1	1112.6
140°	805.2	880.4	1111.7	1489.7	1664.1	1489.7	1111.7	880.4	805.2	880.4	1111.7
142.5°	831.3	902.0	1111.7	1442.8	1600.7	1442.8	1111.7	902.0	831.3	902.0	1111.7
145°	868.2	932.0	1112.9	1379.2	1511.4	1379.2	1112.9	932.0	868.2	932.0	1112.9
147.5°	906.8	959.9	1114.5	1324.0	1423.8	1324.0	1114.5	959.9	906.8	959.9	1114.5
150°	931.1	977.8	1116.4	1291.9	1376.2	1291.9	1116.4	977.8	931.1	977.8	1116.4
152.5°	955.3	996.6	1117.3	1265.5	1335.2	1265.5	1117.3	996.6	955.3	996.6	1117.3
155°	989.4	1022.4	1119.9	1234.0	1281.8	1234.0	1119.9	1022.4	989.4	1022.4	1119.9
157.5°	1019.9	1043.8	1122.4	1209.2	1243.9	1209.2	1122.4	1043.8	1019.9	1043.8	1122.4
160°	1039.5	1058.8	1123.4	1195.1	1222.4	1195.1	1123.4	1058.8	1039.5	1058.8	1123.4
162.5°	1056.2	1072.0	1123.4	1183.7	1203.8	1183.7	1123.4	1072.0	1056.2	1072.0	1123.4
165°	1080.2	1090.5	1124.5	1167.9	1180.5	1167.9	1124.5	1090.5	1080.2	1090.5	1124.5
167.5°	1100.5	1105.5	1125.9	1155.7	1162.5	1155.7	1125.9	1105.5	1100.5	1105.5	1125.9
170°	1111.7	1114.0	1126.9	1149.1	1151.3	1149.1	1126.9	1114.0	1111.7	1114.0	1126.9
172.5°	1120.1	1121.5	1129.7	1144.4	1144.8	1144.4	1129.7	1121.5	1120.1	1121.5	1129.7
175°	1129.2	1129.2	1130.4	1138.5	1136.2	1138.5	1130.4	1129.2	1129.2	1129.2	1130.4
177.5°	1133.9	1132.9	1132.0	1137.5	1133.9	1137.5	1132.0	1132.9	1133.9	1132.9	1132.0
180°	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1308.7	1308.7	1308.7	1308.7	1308.7	1308.7
2.5°	1268.0	1264.0	1268.0	1280.2	1300.5	1300.5
5°	1100.1	1075.3	1100.1	1192.0	1273.5	1288.4
7.5°	1000.1	992.1	1000.1	1038.8	1209.7	1276.2
10°	963.7	963.7	963.7	994.2	1134.2	1268.1
12.5°	960.1	980.0	960.1	961.7	1066.4	1255.9
15°	1020.1	1044.9	1020.1	938.4	1009.2	1222.4
17.5°	1040.3	1060.1	1040.3	939.4	957.6	1180.8
20°	1040.3	1060.1	1040.3	963.7	933.3	1156.5
22.5°	1036.2	1056.1	1036.2	975.9	904.8	1124.0
25°	1024.8	1034.7	1024.8	973.9	866.7	1060.1
27.5°	1004.5	1011.4	1004.5	953.6	829.2	982.0
30°	984.4	999.2	984.4	933.3	804.4	933.3
32.5°	963.8	966.8	963.8	900.8	779.2	872.4
35°	933.2	928.2	933.2	862.3	741.5	781.1
37.5°	891.8	897.8	891.8	829.8	702.7	689.8
40°	867.6	877.5	867.6	801.4	673.6	629.0
42.5°	843.2	853.2	843.2	777.1	645.1	596.5
45°	806.6	811.6	806.6	735.5	602.9	573.2
47.5°	764.0	769.0	764.0	697.9	559.5	537.7
50°	735.6	740.6	735.6	669.5	526.8	497.1
52.5°	703.1	708.1	703.1	645.2	486.5	468.7
55°	654.3	654.3	654.3	598.5	426.4	441.3
57.5°	598.7	604.6	598.7	549.8	364.5	377.4
60°	558.2	568.1	558.2	517.4	320.1	344.9
62.5°	521.6	527.5	521.6	480.9	291.5	308.4
65°	461.7	466.7	461.7	421.0	258.5	248.5
67.5°	394.7	398.7	394.7	366.2	227.5	194.8
70°	350.0	350.0	350.0	329.7	206.9	162.3
72.5°	305.4	309.4	305.4	285.1	186.7	142.0
75°	238.5	243.5	238.5	223.2	151.2	106.5
77.5°	171.6	176.5	171.6	162.3	113.8	77.1
80°	126.9	131.9	126.9	121.7	85.7	60.9
82.5°	90.3	91.3	90.3	85.2	61.4	40.6
85°	40.6	40.6	40.6	40.6	30.2	20.3
87.5°	9.8	10.0	9.8	10.0	8.7	4.3
90°	8.2	9.3	8.2	9.3	3.4	1.2
92.5°	72.2	57.8	72.2	221.9	72.2	19.8
95°	279.8	181.8	279.8	785.4	175.7	60.6
97.5°	815.2	505.3	815.2	1347.6	231.7	110.0
100°	1392.4	922.9	1392.4	1559.2	260.7	144.5
102.5°	2051.7	1590.4	2051.7	1535.9	297.1	183.7
105°	2667.9	2534.6	2667.9	1404.2	350.7	245.9
107.5°	2725.5	2872.0	2725.5	1275.8	403.3	307.2
110°	2658.4	2930.8	2658.4	1214.3	440.7	347.3

TEST NUMBER: P1191379

CATALOG NUMBER: SQ2-FA-150U-075D-L840-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	2541.8	2890.7	2541.8	1177.0	476.2	385.5
115°	2357.4	2767.6	2357.4	1140.8	529.4	442.8
117.5°	2176.3	2592.8	2176.3	1127.1	579.4	498.5
120°	2070.7	2476.3	2070.7	1123.4	611.2	534.9
122.5°	1979.6	2356.0	1979.6	1123.4	642.0	567.5
125°	1859.1	2183.8	1859.1	1124.5	687.1	616.5
127.5°	1770.2	2052.8	1770.2	1123.1	729.9	657.9
130°	1716.5	1971.7	1716.5	1122.2	757.0	684.0
132.5°	1670.3	1901.8	1670.3	1119.4	782.1	707.3
135°	1603.4	1807.4	1603.4	1115.2	820.9	742.3
137.5°	1533.8	1718.1	1533.8	1112.6	857.1	779.1
140°	1489.7	1664.1	1489.7	1111.7	880.4	805.2
142.5°	1442.8	1600.7	1442.8	1111.7	902.0	831.3
145°	1379.2	1511.4	1379.2	1112.9	932.0	868.2
147.5°	1324.0	1423.8	1324.0	1114.5	959.9	906.8
150°	1291.9	1376.2	1291.9	1116.4	977.8	931.1
152.5°	1265.5	1335.2	1265.5	1117.3	996.6	955.3
155°	1234.0	1281.8	1234.0	1119.9	1022.4	989.4
157.5°	1209.2	1243.9	1209.2	1122.4	1043.8	1019.9
160°	1195.1	1222.4	1195.1	1123.4	1058.8	1039.5
162.5°	1183.7	1203.8	1183.7	1123.4	1072.0	1056.2
165°	1167.9	1180.5	1167.9	1124.5	1090.5	1080.2
167.5°	1155.7	1162.5	1155.7	1125.9	1105.5	1100.5
170°	1149.1	1151.3	1149.1	1126.9	1114.0	1111.7
172.5°	1144.4	1144.8	1144.4	1129.7	1121.5	1120.1
175°	1138.5	1136.2	1138.5	1130.4	1129.2	1129.2
177.5°	1137.5	1133.9	1137.5	1132.0	1132.9	1133.9
180°	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9

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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	14.97	15.68	16.07	16.78	18.29	16.19	16.91	17.29	18.01	19.52
	3H	16.05	16.69	17.15	17.79	19.32	17.42	18.07	18.53	19.17	20.70
	4H	16.39	17.00	17.51	18.11	19.64	17.81	18.42	18.93	19.52	21.06
	6H	16.55	17.11	17.67	18.22	19.76	17.96	18.52	19.09	19.63	21.17
	8H	16.58	17.11	17.71	18.23	19.77	17.98	18.51	19.11	19.64	21.18
	12H	16.57	17.07	17.70	18.19	19.75	17.96	18.47	19.10	19.58	21.15
4H	2H	15.88	16.49	17.00	17.59	19.13	16.79	17.40	17.92	18.50	20.04
	3H	17.23	17.74	18.36	18.87	20.42	18.23	18.73	19.36	19.87	21.41
	4H	17.67	18.14	18.81	19.26	20.82	18.69	19.15	19.82	20.28	21.84
	6H	17.89	18.29	19.03	19.43	20.99	18.90	19.30	20.04	20.44	22.00
	8H	17.94	18.32	19.09	19.45	21.03	18.95	19.32	20.09	20.45	22.03
	12H	17.94	18.28	19.10	19.42	21.00	18.93	19.26	20.09	20.41	21.99
8H	4H	18.06	18.43	19.20	19.57	21.14	18.89	19.26	20.03	20.39	21.97
	6H	18.40	18.70	19.56	19.88	21.45	19.19	19.50	20.35	20.68	22.25
	8H	18.51	18.78	19.68	19.94	21.53	19.28	19.55	20.45	20.71	22.30
	12H	18.54	18.78	19.71	19.93	21.56	19.29	19.52	20.46	20.68	22.30
12H	4H	18.05	18.39	19.21	19.54	21.12	18.85	19.18	20.01	20.33	21.91
	6H	18.47	18.74	19.64	19.89	21.49	19.21	19.48	20.38	20.64	22.23
	8H	18.61	18.84	19.78	20.00	21.62	19.31	19.55	20.49	20.70	22.33