

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: P1191383

Luminaire Tested: SQ2-FA-150U-100D-L830-UNV-STD-W-4

Issue Date: 9/23/2025

Test Information

Test Method: LM-79-2019
Report Number: P1191383
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-100D-L830-UNV-STD-W-4
Description: CORELITE SQ2 LED LUMINAIRE
FROSTED CONTINUOUS ASYMMETRIC ROLL LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

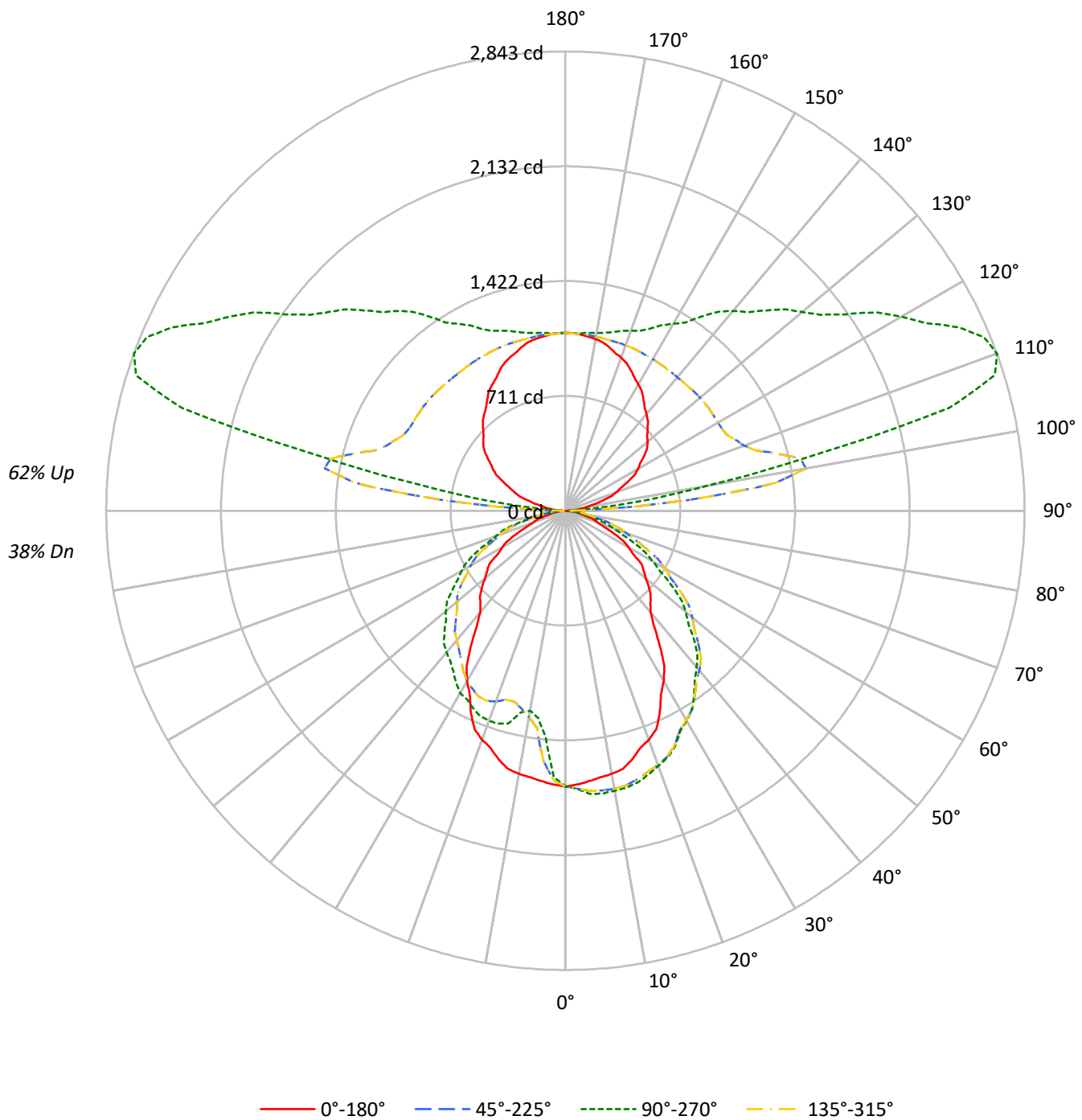
Lumens per Lamp: N/A
Luminaire Lumens: 11030.2 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 94.2
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	95	95	95	95	77	77	77	61	61	61	46	46	46
1	95	91	87	84	86	83	80	77	68	65	63	53	52	51	40	39	39
2	87	80	74	69	79	72	67	63	59	56	52	47	44	42	36	34	33
3	79	70	63	57	72	64	58	53	52	48	44	41	38	36	32	29	28
4	72	62	54	48	65	56	50	45	46	41	37	37	33	31	28	26	24
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	20	18
7	56	44	37	31	51	41	34	29	34	28	25	27	23	20	21	18	16
8	52	40	33	27	47	37	30	25	31	25	22	25	21	18	19	16	14
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	27561	27561	27561	27561
5°	27238	28525	27238	22734
10°	27119	28855	27119	20610
15°	26653	29086	26653	22783
20°	25919	28876	25919	23759
25°	24635	28643	24635	24045
30°	22697	28001	22697	24300
35°	20083	27386	20083	23865
40°	17291	26635	17291	24125
45°	17070	25683	17070	24172
50°	16287	24430	16287	24264
55°	16203	22536	16203	24026
60°	14528	20082	14528	23928
65°	12386	17692	12386	23255
70°	9994	14993	9994	21550
75°	8665	12383	8665	19813
80°	7383	9224	7383	15993
85°	4909	4909	4909	9800

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 26590 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	1.4
10°-20°	429.2	3.9
20°-30°	651.8	5.9
30°-40°	765.2	6.9
40°-50°	776.4	7.0
50°-60°	680.2	6.2
60°-70°	482.5	4.4
70°-80°	248.5	2.3
80°-90°	53.3	0.5
90°-100°	419.1	3.8
100°-110°	1372.5	12.4
110°-120°	1356.9	12.3
120°-130°	1109.2	10.1
130°-140°	905.1	8.2
140°-150°	704.4	6.4
150°-160°	507.2	4.6
160°-170°	310.3	2.8
170°-180°	104.8	1.0
0°-30°	1234.5	11.2
0°-40°	1999.7	18.1
0°-60°	3456.3	31.3
0°-90°	4240.7	38.4
90°-120°	3148.5	28.5
90°-150°	5867.2	53.2
90°-180°	6790.0	61.6
0°-180°	11030.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1707	1707	1707	1707	1707	
5°	1681	1760	1681	1403	1681	160
15°	1594	1740	1594	1363	1594	448
25°	1383	1608	1383	1350	1383	631
35°	1019	1389	1019	1211	1019	635
45°	748	1125	748	1059	748	572
55°	576	801	576	854	576	498
65°	324	463	324	609	324	324
75°	139	198	139	318	139	150
85°	26	26	26	53	26	33
90°	1	9	1	9	1	4
95°	59	176	59	176	59	67
105°	238	2459	238	2459	238	251
115°	430	2685	430	2685	430	424
125°	598	2119	598	2119	598	532
135°	720	1754	720	1754	720	557
145°	842	1466	842	1466	842	528
155°	960	1244	960	1244	960	442
165°	1048	1145	1048	1145	1048	295
175°	1096	1102	1096	1102	1096	104
180°	1100	1100	1100	1100	1100	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0
2.5°	1696.4	1722.3	1722.9	1722.9	1722.9	1722.9	1722.9	1722.3	1696.4	1696.4	1670.0
5°	1680.6	1725.8	1740.1	1747.0	1760.0	1747.0	1740.1	1725.8	1680.6	1661.1	1554.8
7.5°	1664.7	1725.5	1746.7	1758.8	1765.2	1758.8	1746.7	1725.5	1664.7	1578.0	1355.0
10°	1654.1	1725.3	1746.7	1753.5	1760.0	1753.5	1746.7	1725.3	1654.1	1479.4	1296.8
12.5°	1638.2	1714.5	1741.4	1748.2	1754.7	1748.2	1741.4	1714.5	1638.2	1391.1	1254.5
15°	1594.5	1698.1	1720.3	1733.6	1740.1	1733.6	1720.3	1698.1	1594.5	1316.4	1224.0
17.5°	1540.3	1665.8	1695.1	1707.1	1712.3	1707.1	1695.1	1665.8	1540.3	1249.2	1225.4
20°	1508.5	1644.4	1673.9	1680.6	1680.6	1680.6	1673.9	1644.4	1508.5	1217.4	1257.1
22.5°	1466.2	1617.6	1647.5	1648.9	1654.1	1648.9	1647.5	1617.6	1466.2	1180.2	1273.0
25°	1382.8	1557.5	1601.2	1594.8	1607.8	1594.8	1601.2	1557.5	1382.8	1130.5	1270.3
27.5°	1280.9	1500.9	1532.3	1539.0	1539.0	1539.0	1532.3	1500.9	1280.9	1081.7	1243.9
30°	1217.4	1463.2	1495.3	1501.9	1501.9	1501.9	1495.3	1463.2	1217.4	1049.2	1217.4
32.5°	1138.0	1430.4	1458.2	1459.6	1459.6	1459.6	1458.2	1430.4	1138.0	1016.4	1175.1
35°	1018.9	1374.7	1396.1	1395.9	1389.4	1395.9	1396.1	1374.7	1018.9	967.2	1124.8
37.5°	899.8	1303.5	1332.5	1323.1	1316.7	1323.1	1332.5	1303.5	899.8	916.6	1082.4
40°	820.4	1260.3	1290.2	1270.2	1263.7	1270.2	1290.2	1260.3	820.4	878.7	1045.4
42.5°	778.1	1212.8	1242.6	1217.3	1210.8	1217.3	1242.6	1212.8	778.1	841.5	1013.6
45°	747.6	1135.8	1164.5	1137.7	1124.8	1137.7	1164.5	1135.8	747.6	786.5	959.4
47.5°	701.3	1042.9	1083.8	1043.8	1030.8	1043.8	1083.8	1042.9	701.3	729.8	910.4
50°	648.4	984.8	1025.5	985.5	972.6	985.5	1025.5	984.8	648.4	687.2	873.4
52.5°	611.4	927.1	962.0	916.7	903.8	916.7	962.0	927.1	611.4	634.6	841.6
55°	575.6	840.9	866.7	820.0	800.6	820.0	866.7	840.9	575.6	556.2	780.7
57.5°	492.3	744.6	771.5	718.0	696.0	718.0	771.5	744.6	492.3	475.4	717.2
60°	449.9	676.3	708.0	654.3	621.9	654.3	708.0	676.3	449.9	417.6	674.9
62.5°	402.3	602.8	644.4	590.8	558.4	590.8	644.4	602.8	402.3	380.3	627.2
65°	324.2	498.9	549.2	495.5	463.1	495.5	549.2	498.9	324.2	337.1	549.2
67.5°	254.1	404.2	460.5	401.7	375.8	401.7	460.5	404.2	254.1	296.8	477.7
70°	211.7	341.1	397.0	343.5	317.6	343.5	397.0	341.1	211.7	269.9	430.1
72.5°	185.3	283.6	344.1	285.4	264.7	285.4	344.1	283.6	185.3	243.5	371.8
75°	138.9	197.2	264.7	211.4	198.5	211.4	264.7	197.2	138.9	197.2	291.1
77.5°	100.6	127.7	186.6	141.5	136.3	141.5	186.6	127.7	100.6	148.4	211.7
80°	79.4	85.9	138.9	99.2	99.2	99.2	138.9	85.9	79.4	111.7	158.8
82.5°	52.9	59.4	96.6	67.4	62.2	67.4	96.6	59.4	52.9	80.1	111.2
85°	26.5	26.5	39.7	26.5	26.5	26.5	39.7	26.5	26.5	39.4	52.9
87.5°	5.5	6.0	12.4	6.9	7.1	6.9	12.4	6.0	5.5	11.1	12.4
90°	1.1	3.3	9.0	7.9	9.0	7.9	9.0	3.3	1.1	3.3	9.0
92.5°	19.2	70.1	215.3	70.0	56.1	70.0	215.3	70.1	19.2	70.1	215.3
95°	58.8	170.4	762.0	271.4	176.4	271.4	762.0	170.4	58.8	170.4	762.0
97.5°	106.7	224.8	1307.4	790.9	490.2	790.9	1307.4	224.8	106.7	224.8	1307.4
100°	140.2	252.9	1512.7	1350.8	895.4	1350.8	1512.7	252.9	140.2	252.9	1512.7
102.5°	178.2	288.3	1490.1	1990.5	1543.0	1990.5	1490.1	288.3	178.2	288.3	1490.1
105°	238.5	340.2	1362.3	2588.3	2459.0	2588.3	1362.3	340.2	238.5	340.2	1362.3
107.5°	298.0	391.3	1237.7	2644.2	2786.4	2644.2	1237.7	391.3	298.0	391.3	1237.7
110°	336.9	427.6	1178.0	2579.2	2843.4	2579.2	1178.0	427.6	336.9	427.6	1178.0

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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°	374.0	462.0	1141.9	2466.0	2804.5	2466.0	1141.9	462.0	374.0	462.0	1141.9
115°	429.6	513.6	1106.8	2287.1	2685.1	2287.1	1106.8	513.6	429.6	513.6	1106.8
117.5°	483.7	562.1	1093.5	2111.3	2515.5	2111.3	1093.5	562.1	483.7	562.1	1093.5
120°	518.9	593.0	1089.9	2008.9	2402.4	2008.9	1089.9	593.0	518.9	593.0	1089.9
122.5°	550.6	622.9	1089.9	1920.5	2285.8	1920.5	1089.9	622.9	550.6	622.9	1089.9
125°	598.1	666.6	1091.0	1803.6	2118.7	1803.6	1091.0	666.6	598.1	666.6	1091.0
127.5°	638.3	708.2	1089.6	1717.4	1991.6	1717.4	1089.6	708.2	638.3	708.2	1089.6
130°	663.6	734.4	1088.7	1665.3	1912.9	1665.3	1088.7	734.4	663.6	734.4	1088.7
132.5°	686.3	758.8	1086.0	1620.5	1845.1	1620.5	1086.0	758.8	686.3	758.8	1086.0
135°	720.2	796.4	1081.9	1555.6	1753.5	1555.6	1081.9	796.4	720.2	796.4	1081.9
137.5°	755.9	831.5	1079.5	1488.0	1666.9	1488.0	1079.5	831.5	755.9	831.5	1079.5
140°	781.2	854.2	1078.6	1445.3	1614.4	1445.3	1078.6	854.2	781.2	854.2	1078.6
142.5°	806.5	875.1	1078.6	1399.7	1552.9	1399.7	1078.6	875.1	806.5	875.1	1078.6
145°	842.3	904.2	1079.7	1338.1	1466.3	1338.1	1079.7	904.2	842.3	904.2	1079.7
147.5°	879.8	931.3	1081.3	1284.5	1381.3	1284.5	1081.3	931.3	879.8	931.3	1081.3
150°	903.3	948.6	1083.1	1253.4	1335.2	1253.4	1083.1	948.6	903.3	948.6	1083.1
152.5°	926.8	966.9	1084.0	1227.7	1295.4	1227.7	1084.0	966.9	926.8	966.9	1084.0
155°	959.8	991.9	1086.5	1197.2	1243.6	1197.2	1086.5	991.9	959.8	991.9	1086.5
157.5°	989.5	1012.7	1089.0	1173.2	1206.8	1173.2	1089.0	1012.7	989.5	1012.7	1089.0
160°	1008.5	1027.3	1089.9	1159.4	1186.0	1159.4	1089.9	1027.3	1008.5	1027.3	1089.9
162.5°	1024.7	1040.0	1089.9	1148.4	1167.9	1148.4	1089.9	1040.0	1024.7	1040.0	1089.9
165°	1048.0	1058.0	1091.0	1133.1	1145.3	1133.1	1091.0	1058.0	1048.0	1058.0	1091.0
167.5°	1067.7	1072.6	1092.3	1121.2	1127.8	1121.2	1092.3	1072.6	1067.7	1072.6	1092.3
170°	1078.6	1080.8	1093.3	1114.8	1117.0	1114.8	1093.3	1080.8	1078.6	1080.8	1093.3
172.5°	1086.7	1088.0	1096.0	1110.2	1110.7	1110.2	1096.0	1088.0	1086.7	1088.0	1096.0
175°	1095.5	1095.5	1096.6	1104.5	1102.3	1104.5	1096.6	1095.5	1095.5	1095.5	1096.6
177.5°	1100.0	1099.2	1098.2	1103.6	1100.0	1103.6	1098.2	1099.2	1100.0	1099.2	1098.2
180°	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1707.0	1707.0	1707.0	1707.0	1707.0	1707.0
2.5°	1654.0	1648.8	1654.0	1670.0	1696.4	1696.4
5°	1435.0	1402.7	1435.0	1554.8	1661.1	1680.6
7.5°	1304.5	1294.2	1304.5	1355.0	1578.0	1664.7
10°	1257.1	1257.1	1257.1	1296.8	1479.4	1654.1
12.5°	1252.4	1278.3	1252.4	1254.5	1391.1	1638.2
15°	1330.6	1363.0	1330.6	1224.0	1316.4	1594.5
17.5°	1356.9	1382.8	1356.9	1225.4	1249.2	1540.3
20°	1356.9	1382.8	1356.9	1257.1	1217.4	1508.5
22.5°	1351.6	1377.5	1351.6	1273.0	1180.2	1466.2
25°	1336.8	1349.7	1336.8	1270.3	1130.5	1382.8
27.5°	1310.2	1319.3	1310.2	1243.9	1081.7	1280.9
30°	1284.0	1303.4	1284.0	1217.4	1049.2	1217.4
32.5°	1257.2	1261.1	1257.2	1175.1	1016.4	1138.0
35°	1217.3	1210.8	1217.3	1124.8	967.2	1018.9
37.5°	1163.3	1171.1	1163.3	1082.4	916.6	899.8
40°	1131.7	1144.6	1131.7	1045.4	878.7	820.4
42.5°	1099.9	1112.9	1099.9	1013.6	841.5	778.1
45°	1052.1	1058.6	1052.1	959.4	786.5	747.6
47.5°	996.6	1003.0	996.6	910.4	729.8	701.3
50°	959.5	966.0	959.5	873.4	687.2	648.4
52.5°	917.2	923.6	917.2	841.6	634.6	611.4
55°	853.5	853.5	853.5	780.7	556.2	575.6
57.5°	780.9	788.7	780.9	717.2	475.4	492.3
60°	728.1	741.0	728.1	674.9	417.6	449.9
62.5°	680.3	688.1	680.3	627.2	380.3	402.3
65°	602.2	608.7	602.2	549.2	337.1	324.2
67.5°	514.9	520.0	514.9	477.7	296.8	254.1
70°	456.5	456.5	456.5	430.1	269.9	211.7
72.5°	398.4	403.6	398.4	371.8	243.5	185.3
75°	311.1	317.6	311.1	291.1	197.2	138.9
77.5°	223.8	230.2	223.8	211.7	148.4	100.6
80°	165.6	172.0	165.6	158.8	111.7	79.4
82.5°	117.8	119.1	117.8	111.2	80.1	52.9
85°	52.9	52.9	52.9	52.9	39.4	26.5
87.5°	12.2	12.4	12.2	12.4	11.1	5.5
90°	7.9	9.0	7.9	9.0	3.3	1.1
92.5°	70.0	56.1	70.0	215.3	70.1	19.2
95°	271.4	176.4	271.4	762.0	170.4	58.8
97.5°	790.9	490.2	790.9	1307.4	224.8	106.7
100°	1350.8	895.4	1350.8	1512.7	252.9	140.2
102.5°	1990.5	1543.0	1990.5	1490.1	288.3	178.2
105°	2588.3	2459.0	2588.3	1362.3	340.2	238.5
107.5°	2644.2	2786.4	2644.2	1237.7	391.3	298.0
110°	2579.2	2843.4	2579.2	1178.0	427.6	336.9

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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	2466.0	2804.5	2466.0	1141.9	462.0	374.0
115°	2287.1	2685.1	2287.1	1106.8	513.6	429.6
117.5°	2111.3	2515.5	2111.3	1093.5	562.1	483.7
120°	2008.9	2402.4	2008.9	1089.9	593.0	518.9
122.5°	1920.5	2285.8	1920.5	1089.9	622.9	550.6
125°	1803.6	2118.7	1803.6	1091.0	666.6	598.1
127.5°	1717.4	1991.6	1717.4	1089.6	708.2	638.3
130°	1665.3	1912.9	1665.3	1088.7	734.4	663.6
132.5°	1620.5	1845.1	1620.5	1086.0	758.8	686.3
135°	1555.6	1753.5	1555.6	1081.9	796.4	720.2
137.5°	1488.0	1666.9	1488.0	1079.5	831.5	755.9
140°	1445.3	1614.4	1445.3	1078.6	854.2	781.2
142.5°	1399.7	1552.9	1399.7	1078.6	875.1	806.5
145°	1338.1	1466.3	1338.1	1079.7	904.2	842.3
147.5°	1284.5	1381.3	1284.5	1081.3	931.3	879.8
150°	1253.4	1335.2	1253.4	1083.1	948.6	903.3
152.5°	1227.7	1295.4	1227.7	1084.0	966.9	926.8
155°	1197.2	1243.6	1197.2	1086.5	991.9	959.8
157.5°	1173.2	1206.8	1173.2	1089.0	1012.7	989.5
160°	1159.4	1186.0	1159.4	1089.9	1027.3	1008.5
162.5°	1148.4	1167.9	1148.4	1089.9	1040.0	1024.7
165°	1133.1	1145.3	1133.1	1091.0	1058.0	1048.0
167.5°	1121.2	1127.8	1121.2	1092.3	1072.6	1067.7
170°	1114.8	1117.0	1114.8	1093.3	1080.8	1078.6
172.5°	1110.2	1110.7	1110.2	1096.0	1088.0	1086.7
175°	1104.5	1102.3	1104.5	1096.6	1095.5	1095.5
177.5°	1103.6	1100.0	1103.6	1098.2	1099.2	1100.0
180°	1100.0	1100.0	1100.0	1100.0	1100.0	1100.0

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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	16.70	17.47	17.75	18.52	19.95	17.93	18.69	18.98	19.75	21.17
	3H	17.78	18.47	18.84	19.53	20.98	19.16	19.85	20.22	20.91	22.36
	4H	18.13	18.78	19.20	19.85	21.30	19.55	20.20	20.62	21.26	22.71
	6H	18.29	18.89	19.37	19.96	21.42	19.70	20.30	20.78	21.37	22.83
	8H	18.32	18.89	19.41	19.98	21.43	19.72	20.29	20.81	21.38	22.84
	12H	18.32	18.85	19.41	19.93	21.42	19.71	20.25	20.80	21.32	22.81
4H	2H	17.62	18.27	18.70	19.33	20.79	18.53	19.18	19.61	20.24	21.70
	3H	18.98	19.52	20.06	20.61	22.08	19.97	20.51	21.06	21.61	23.07
	4H	19.42	19.91	20.51	21.00	22.48	20.43	20.93	21.53	22.01	23.50
	6H	19.64	20.06	20.74	21.17	22.65	20.65	21.08	21.75	22.18	23.66
	8H	19.69	20.09	20.79	21.19	22.69	20.70	21.09	21.80	22.19	23.69
	12H	19.69	20.05	20.81	21.16	22.66	20.68	21.04	21.80	22.15	23.65
8H	4H	19.81	20.21	20.91	21.31	22.80	20.64	21.03	21.74	22.13	23.63
	6H	20.15	20.48	21.27	21.62	23.11	20.94	21.27	22.06	22.41	23.90
	8H	20.26	20.55	21.39	21.67	23.19	21.03	21.32	22.16	22.44	23.96
	12H	20.30	20.55	21.43	21.67	23.22	21.04	21.30	22.18	22.41	23.96
12H	4H	19.81	20.17	20.93	21.28	22.78	20.60	20.96	21.72	22.07	23.57
	6H	20.22	20.51	21.35	21.63	23.14	20.96	21.25	22.09	22.37	23.88
	8H	20.36	20.61	21.49	21.73	23.28	21.07	21.32	22.20	22.44	23.99