

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: P855439

Luminaire Tested: SQ2-FA-150U-100D-840-UNV-STD-W-4

Issue Date: 7/12/2024

Test Information

Test Method: LM-79-2019
Report Number: P855439
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-14, G2-2308-131-11)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2-FA-150U-100D-840-UNV-STD-W-4
Description: CORELITE SQ2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

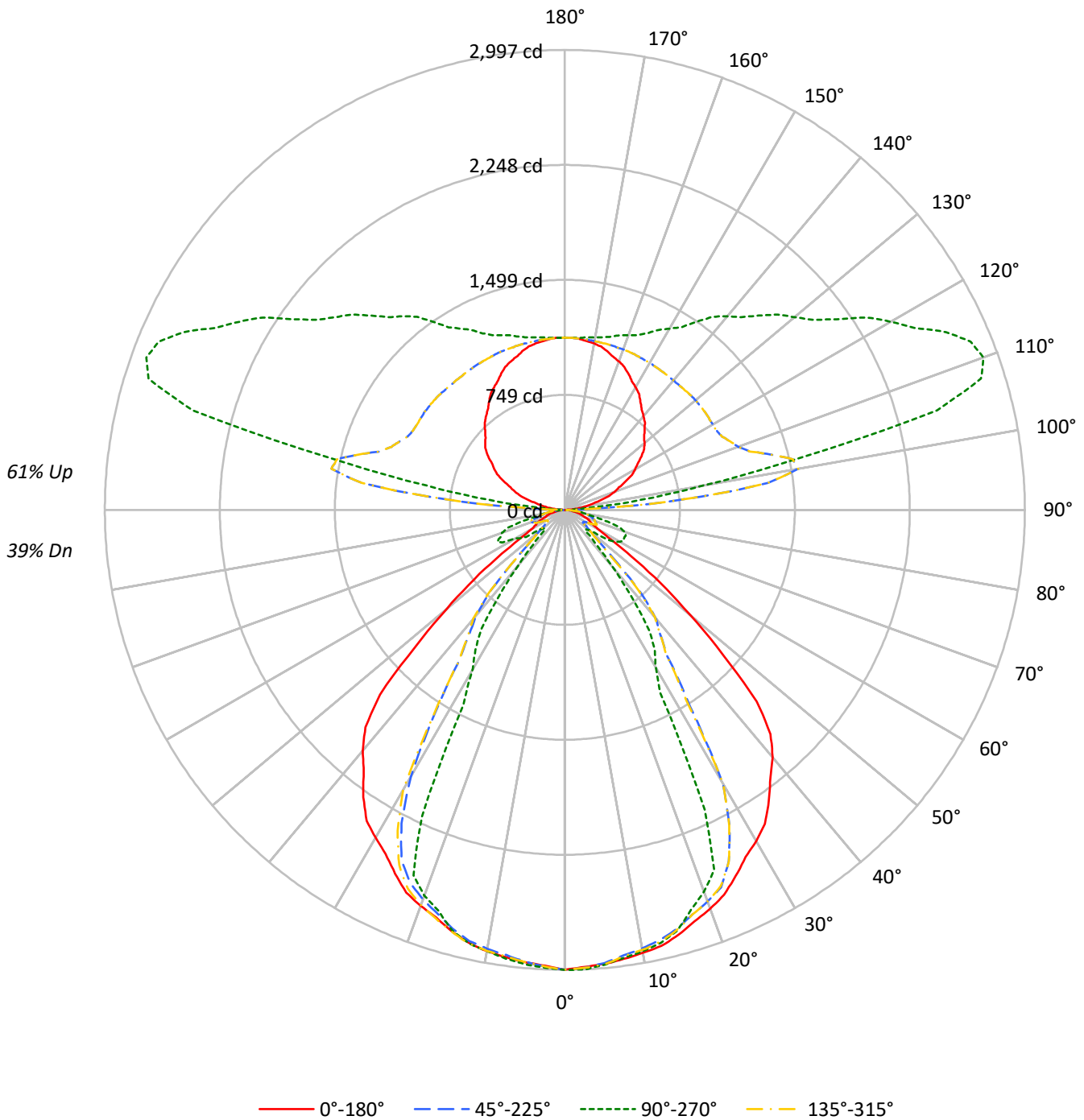
Lumens per Lamp: N/A
Luminaire Lumens: 11307.8 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.95 / 0.95
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	92	89	85	87	84	81	78	69	67	65	55	53	52	42	41	40	34
2	88	82	76	71	80	75	70	66	61	58	55	49	47	45	38	37	35	30
3	81	73	66	61	74	67	61	56	55	51	48	44	42	39	35	33	31	27
4	75	65	58	52	68	60	54	49	50	45	42	40	37	35	32	30	28	24
5	69	59	51	46	63	54	48	43	45	40	37	37	34	31	29	27	25	22
6	64	53	46	40	58	49	43	38	41	36	33	34	31	28	27	25	23	20
7	60	48	41	36	54	45	38	34	38	33	29	31	28	25	25	23	21	18
8	56	44	37	32	51	41	35	30	35	30	27	29	26	23	24	21	19	17
9	52	41	34	29	48	38	32	27	32	27	24	27	23	21	22	20	18	16
10	49	38	31	26	45	35	29	25	30	25	22	25	22	19	21	18	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	48394	48394	48394	48394
5°	48138	48212	47955	48175
10°	48065	47880	47880	47880
15°	47910	47418	47532	47418
20°	47538	45519	47189	45945
25°	46912	38414	46591	39221
30°	46480	22040	45977	22335
35°	45667	18934	45086	18668
40°	44403	9959	43161	9862
45°	40361	4284	38915	4284
50°	26631	5167	25267	4828
55°	14891	9543	14125	8653
60°	8031	13430	7886	12042
65°	7079	16321	7427	18567
70°	6618	19525	6293	20592
75°	6201	16781	6344	17349
80°	5253	11985	5253	12617
85°	4594	6688	4187	7966

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 40361 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.1	2.5
10°-20°	800.2	7.1
20°-30°	1091.1	9.6
30°-40°	916.9	8.1
40°-50°	520.8	4.6
50°-60°	276.3	2.4
60°-70°	254.4	2.2
70°-80°	186.8	1.7
80°-90°	50.0	0.4
90°-100°	427.8	3.8
100°-110°	1400.7	12.4
110°-120°	1384.8	12.2
120°-130°	1132.0	10.0
130°-140°	923.8	8.2
140°-150°	718.9	6.4
150°-160°	517.6	4.6
160°-170°	316.7	2.8
170°-180°	107.0	0.9
0°-30°	2173.3	19.2
0°-40°	3090.2	27.3
0°-60°	3887.3	34.4
0°-90°	4378.5	38.7
90°-120°	3213.3	28.4
90°-150°	5988.0	53.0
90°-180°	6929.0	61.3
0°-180°	11307.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2997	2997	2997	2997	2997	
5°	2970	2975	2959	2972	2970	282
15°	2866	2837	2844	2837	2866	808
25°	2633	2156	2615	2202	2633	1214
35°	2317	961	2287	947	2317	1446
45°	1768	188	1704	188	1768	1292
55°	529	339	502	307	529	509
65°	185	427	194	486	185	186
75°	99	269	102	278	99	103
85°	25	36	23	43	25	28
90°	1	9	1	9	1	4
95°	60	180	60	180	60	68
105°	244	2510	244	2510	244	256
115°	438	2740	438	2740	438	433
125°	610	2162	610	2162	610	543
135°	735	1790	735	1790	735	569
145°	860	1496	860	1496	860	539
155°	980	1269	980	1269	980	451
165°	1070	1169	1070	1169	1070	301
175°	1118	1125	1118	1125	1118	106
180°	1123	1123	1123	1123	1123	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3
2.5°	2981.0	3025.1	2986.5	2981.3	2997.3	2993.7	2988.2	3009.1	2973.8	3009.1	2981.0
5°	2970.1	3021.0	2963.4	2948.1	2974.7	2957.0	2972.4	3003.0	2958.8	2998.6	2954.3
7.5°	2951.6	2996.7	2927.6	2917.8	2943.9	2928.4	2934.8	2977.4	2940.3	2966.4	2926.3
10°	2931.7	2971.4	2902.3	2896.1	2920.4	2904.9	2911.4	2955.8	2920.4	2944.7	2904.5
12.5°	2910.0	2940.9	2871.5	2868.9	2889.6	2879.5	2882.4	2919.8	2891.5	2915.8	2877.5
15°	2866.2	2894.9	2825.5	2814.7	2836.8	2828.0	2832.3	2865.6	2843.6	2859.0	2825.5
17.5°	2811.9	2834.8	2765.7	2733.2	2734.1	2745.2	2765.7	2806.1	2786.1	2806.5	2759.0
20°	2766.7	2793.2	2717.0	2653.6	2649.2	2660.3	2717.0	2757.5	2746.4	2768.4	2701.2
22.5°	2714.2	2731.9	2662.7	2555.7	2540.7	2551.8	2655.5	2703.3	2699.3	2714.3	2630.7
25°	2633.3	2651.1	2524.8	2370.8	2156.3	2357.5	2529.4	2615.3	2615.3	2628.6	2518.1
27.5°	2551.1	2551.5	2323.2	1522.6	1343.1	1467.7	2320.1	2506.3	2527.5	2520.9	2303.8
30°	2493.1	2477.8	2059.1	1230.8	1182.2	1213.1	2061.5	2430.7	2466.1	2441.7	2007.2
32.5°	2426.2	2382.5	1520.4	1131.5	1091.7	1119.1	1470.2	2340.9	2402.8	2350.1	1578.7
35°	2316.9	2201.9	1159.6	1000.5	960.6	996.1	1150.5	2163.7	2287.4	2146.1	1198.0
37.5°	2198.9	1750.2	1020.8	796.9	711.1	779.7	1015.8	1731.4	2151.0	1691.2	1019.8
40°	2106.7	1375.1	917.8	582.9	472.5	549.7	910.9	1311.9	2047.8	1411.4	895.1
42.5°	1983.7	1207.9	736.9	370.2	289.8	338.9	706.6	1180.1	1921.3	1222.9	712.5
45°	1767.6	1038.3	436.2	203.1	187.6	196.5	402.3	1019.1	1704.3	997.1	445.3
47.5°	1400.1	791.9	280.3	172.6	189.4	172.6	271.7	766.7	1322.3	765.3	279.8
50°	1060.2	618.1	217.0	174.7	205.7	174.7	210.2	597.0	1005.9	652.3	214.8
52.5°	785.2	516.5	177.3	191.6	247.3	195.1	172.2	502.8	745.5	526.2	167.7
55°	529.0	405.2	142.4	252.9	339.0	259.5	142.4	393.6	501.8	389.1	137.9
57.5°	335.4	301.4	144.2	325.1	387.0	331.3	146.5	290.5	321.9	291.8	126.6
60°	248.7	237.6	160.5	345.2	415.9	349.6	162.7	228.7	244.2	226.4	135.7
62.5°	205.2	187.2	193.0	373.9	432.1	364.1	197.1	178.4	213.4	171.0	150.1
65°	185.3	121.2	228.3	378.6	427.2	378.6	230.5	114.8	194.4	123.6	203.5
67.5°	167.2	90.0	220.6	376.0	429.9	376.9	215.1	85.8	160.5	83.6	207.9
70°	140.2	80.4	207.9	382.7	413.6	369.4	207.9	78.1	133.3	75.9	244.2
72.5°	116.7	76.5	193.5	353.3	366.6	340.1	195.3	76.0	117.1	68.4	229.7
75°	99.4	75.2	185.3	282.3	269.0	269.0	180.9	73.0	101.7	68.5	178.5
77.5°	74.6	66.7	153.7	184.2	174.0	174.0	151.0	64.3	71.0	60.4	145.1
80°	56.5	61.0	126.6	135.4	128.9	128.9	122.0	58.7	56.5	56.5	119.8
82.5°	43.8	51.9	97.7	99.3	94.5	92.8	95.0	51.4	43.8	47.4	92.6
85°	24.8	35.9	52.0	42.8	36.1	33.9	49.8	33.7	22.6	33.7	49.8
87.5°	9.3	16.8	9.1	8.9	9.1	8.9	9.1	16.8	9.3	15.0	10.8
90°	1.2	3.4	9.2	8.2	9.2	8.2	9.2	3.4	1.2	3.4	9.2
92.5°	19.6	71.6	219.7	71.4	57.2	71.4	219.7	71.6	19.6	71.6	219.7
95°	60.0	174.0	777.7	277.0	180.1	277.0	777.7	174.0	60.0	174.0	777.7
97.5°	109.0	229.5	1334.3	807.2	500.3	807.2	1334.3	229.5	109.0	229.5	1334.3
100°	143.1	258.1	1543.8	1378.7	913.8	1378.7	1543.8	258.1	143.1	258.1	1543.8
102.5°	181.8	294.3	1520.7	2031.4	1574.8	2031.4	1520.7	294.3	181.8	294.3	1520.7
105°	243.5	347.3	1390.3	2641.6	2509.6	2641.6	1390.3	347.3	243.5	347.3	1390.3
107.5°	304.2	399.4	1263.2	2698.6	2843.7	2698.6	1263.2	399.4	304.2	399.4	1263.2
110°	343.8	436.3	1202.3	2632.3	2901.8	2632.3	1202.3	436.3	343.8	436.3	1202.3



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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°	381.7	471.5	1165.4	2516.7	2862.2	2516.7	1165.4	471.5	381.7	471.5	1165.4
115°	438.4	524.2	1129.6	2334.2	2740.3	2334.2	1129.6	524.2	438.4	524.2	1129.6
117.5°	493.7	573.7	1116.0	2154.8	2567.3	2154.8	1116.0	573.7	493.7	573.7	1116.0
120°	529.6	605.2	1112.3	2050.3	2451.9	2050.3	1112.3	605.2	529.6	605.2	1112.3
122.5°	562.0	635.7	1112.3	1960.1	2332.8	1960.1	1112.3	635.7	562.0	635.7	1112.3
125°	610.3	680.4	1113.4	1840.8	2162.3	1840.8	1113.4	680.4	610.3	680.4	1113.4
127.5°	651.5	722.8	1112.0	1752.8	2032.6	1752.8	1112.0	722.8	651.5	722.8	1112.0
130°	677.3	749.5	1111.1	1699.6	1952.3	1699.6	1111.1	749.5	677.3	749.5	1111.1
132.5°	700.4	774.4	1108.4	1653.8	1883.1	1653.8	1108.4	774.4	700.4	774.4	1108.4
135°	735.0	812.9	1104.2	1587.6	1789.6	1587.6	1104.2	812.9	735.0	812.9	1104.2
137.5°	771.5	848.6	1101.7	1518.6	1701.3	1518.6	1101.7	848.6	771.5	848.6	1101.7
140°	797.3	871.7	1100.7	1475.0	1647.6	1475.0	1100.7	871.7	797.3	871.7	1100.7
142.5°	823.1	893.0	1100.7	1428.5	1584.9	1428.5	1100.7	893.0	823.1	893.0	1100.7
145°	859.6	922.8	1101.9	1365.6	1496.5	1365.6	1101.9	922.8	859.6	922.8	1101.9
147.5°	897.9	950.5	1103.5	1311.0	1409.8	1311.0	1103.5	950.5	897.9	950.5	1103.5
150°	921.9	968.2	1105.4	1279.1	1362.7	1279.1	1105.4	968.2	921.9	968.2	1105.4
152.5°	946.0	986.7	1106.3	1253.0	1322.0	1253.0	1106.3	986.7	946.0	986.7	1106.3
155°	979.6	1012.3	1108.9	1221.8	1269.2	1221.8	1108.9	1012.3	979.6	1012.3	1108.9
157.5°	1009.8	1033.5	1111.3	1197.3	1231.6	1197.3	1111.3	1033.5	1009.8	1033.5	1111.3
160°	1029.2	1048.4	1112.3	1183.3	1210.4	1183.3	1112.3	1048.4	1029.2	1048.4	1112.3
162.5°	1045.8	1061.4	1112.3	1172.0	1191.9	1172.0	1112.3	1061.4	1045.8	1061.4	1112.3
165°	1069.6	1079.7	1113.4	1156.4	1168.8	1156.4	1113.4	1079.7	1069.6	1079.7	1113.4
167.5°	1089.7	1094.7	1114.8	1144.3	1151.1	1144.3	1114.8	1094.7	1089.7	1094.7	1114.8
170°	1100.7	1103.1	1115.8	1137.8	1140.0	1137.8	1115.8	1103.1	1100.7	1103.1	1115.8
172.5°	1109.1	1110.4	1118.6	1133.1	1133.5	1133.1	1118.6	1110.4	1109.1	1110.4	1118.6
175°	1118.1	1118.1	1119.3	1127.3	1125.0	1127.3	1119.3	1118.1	1118.1	1118.1	1119.3
177.5°	1122.6	1121.8	1120.9	1126.2	1122.6	1126.2	1120.9	1121.8	1122.6	1121.8	1120.9
180°	1122.6	1122.6	1122.6	1122.6	1122.6	1122.6	1122.6	1122.6	1122.6	1122.6	1122.6



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2997.3	2997.3	2997.3	2997.3	2997.3	2997.3
2.5°	2974.0	2986.5	2986.5	2979.1	3014.5	2981.0
5°	2943.7	2972.4	2959.1	2958.8	3003.2	2970.1
7.5°	2922.4	2949.3	2936.9	2934.4	2978.1	2951.6
10°	2900.5	2920.4	2911.5	2918.2	2958.3	2931.7
12.5°	2869.8	2893.2	2884.5	2894.6	2931.2	2910.0
15°	2816.9	2836.8	2841.1	2845.8	2888.2	2866.2
17.5°	2729.4	2739.2	2761.2	2792.4	2836.7	2811.9
20°	2660.7	2674.0	2687.3	2741.8	2793.2	2766.7
22.5°	2582.6	2578.2	2609.1	2673.1	2737.3	2714.2
25°	2371.8	2201.6	2389.4	2554.2	2640.0	2633.3
27.5°	1651.5	1433.1	1626.2	2357.6	2537.8	2551.1
30°	1299.7	1198.0	1297.4	2104.4	2462.3	2493.1
32.5°	1153.9	1084.1	1144.7	1601.7	2367.0	2426.2
35°	995.7	947.1	995.7	1198.0	2179.9	2316.9
37.5°	797.0	697.5	795.3	1035.2	1762.2	2198.9
40°	593.9	467.9	576.2	926.7	1408.3	2106.7
42.5°	395.7	301.5	374.4	729.7	1218.1	1983.7
45°	214.1	187.6	205.3	440.8	994.1	1767.6
47.5°	167.9	177.6	167.9	278.1	760.4	1400.1
50°	161.2	192.2	161.2	214.8	629.1	1060.2
52.5°	175.7	208.4	173.9	169.6	513.4	785.2
55°	199.2	307.4	201.4	137.9	376.4	529.0
57.5°	283.5	345.9	286.6	130.6	290.0	335.4
60°	291.2	372.9	289.0	137.9	224.3	248.7
62.5°	344.4	461.6	344.0	157.8	166.8	205.2
65°	441.8	486.0	446.2	201.1	119.1	185.3
67.5°	419.3	450.7	414.9	215.6	81.9	167.2
70°	412.0	436.2	407.5	246.4	76.1	140.2
72.5°	384.3	387.4	376.4	228.3	68.4	116.7
75°	297.9	278.1	286.9	196.6	68.5	99.4
77.5°	185.2	177.3	178.5	150.1	60.5	74.6
80°	140.1	135.7	133.4	126.6	56.5	56.5
82.5°	103.8	99.4	97.2	97.7	47.4	43.8
85°	47.3	43.0	40.8	56.5	33.7	24.8
87.5°	10.6	10.8	8.9	10.8	13.3	9.3
90°	8.2	9.2	8.2	9.2	3.4	1.2
92.5°	71.4	57.2	71.4	219.7	71.6	19.6
95°	277.0	180.1	277.0	777.7	174.0	60.0
97.5°	807.2	500.3	807.2	1334.3	229.5	109.0
100°	1378.7	913.8	1378.7	1543.8	258.1	143.1
102.5°	2031.4	1574.8	2031.4	1520.7	294.3	181.8
105°	2641.6	2509.6	2641.6	1390.3	347.3	243.5
107.5°	2698.6	2843.7	2698.6	1263.2	399.4	304.2
110°	2632.3	2901.8	2632.3	1202.3	436.3	343.8



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	2516.7	2862.2	2516.7	1165.4	471.5	381.7
115°	2334.2	2740.3	2334.2	1129.6	524.2	438.4
117.5°	2154.8	2567.3	2154.8	1116.0	573.7	493.7
120°	2050.3	2451.9	2050.3	1112.3	605.2	529.6
122.5°	1960.1	2332.8	1960.1	1112.3	635.7	562.0
125°	1840.8	2162.3	1840.8	1113.4	680.4	610.3
127.5°	1752.8	2032.6	1752.8	1112.0	722.8	651.5
130°	1699.6	1952.3	1699.6	1111.1	749.5	677.3
132.5°	1653.8	1883.1	1653.8	1108.4	774.4	700.4
135°	1587.6	1789.6	1587.6	1104.2	812.9	735.0
137.5°	1518.6	1701.3	1518.6	1101.7	848.6	771.5
140°	1475.0	1647.6	1475.0	1100.7	871.7	797.3
142.5°	1428.5	1584.9	1428.5	1100.7	893.0	823.1
145°	1365.6	1496.5	1365.6	1101.9	922.8	859.6
147.5°	1311.0	1409.8	1311.0	1103.5	950.5	897.9
150°	1279.1	1362.7	1279.1	1105.4	968.2	921.9
152.5°	1253.0	1322.0	1253.0	1106.3	986.7	946.0
155°	1221.8	1269.2	1221.8	1108.9	1012.3	979.6
157.5°	1197.3	1231.6	1197.3	1111.3	1033.5	1009.8
160°	1183.3	1210.4	1183.3	1112.3	1048.4	1029.2
162.5°	1172.0	1191.9	1172.0	1112.3	1061.4	1045.8
165°	1156.4	1168.8	1156.4	1113.4	1079.7	1069.6
167.5°	1144.3	1151.1	1144.3	1114.8	1094.7	1089.7
170°	1137.8	1140.0	1137.8	1115.8	1103.1	1100.7
172.5°	1133.1	1133.5	1133.1	1118.6	1110.4	1109.1
175°	1127.3	1125.0	1127.3	1119.3	1118.1	1118.1
177.5°	1126.2	1122.6	1126.2	1120.9	1121.8	1122.6
180°	1122.6	1122.6	1122.6	1122.6	1122.6	1122.6

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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	12.22	12.91	13.29	13.97	15.40	11.08	11.77	12.14	12.83	14.26
	3H	12.91	13.53	13.99	14.60	16.05	17.22	17.84	18.30	18.91	20.36
	4H	13.32	13.91	14.40	14.97	16.43	18.49	19.08	19.58	20.15	21.60
	6H	13.67	14.21	14.76	15.28	16.75	19.09	19.63	20.19	20.71	22.17
	8H	13.78	14.29	14.88	15.38	16.84	19.21	19.73	20.31	20.81	22.28
	12H	13.85	14.34	14.95	15.42	16.90	19.25	19.74	20.35	20.82	22.30
4H	2H	12.60	13.19	13.70	14.26	15.71	11.60	12.19	12.69	13.25	14.71
	3H	13.59	14.08	14.69	15.18	16.64	17.91	18.40	19.01	19.50	20.97
	4H	14.15	14.60	15.25	15.68	17.17	19.36	19.81	20.46	20.90	22.38
	6H	14.62	15.00	15.73	16.11	17.59	20.09	20.48	21.20	21.58	23.07
	8H	14.79	15.15	15.90	16.25	17.74	20.26	20.62	21.37	21.72	23.21
	12H	14.90	15.22	16.02	16.33	17.84	20.31	20.64	21.44	21.75	23.25
8H	4H	15.24	15.60	16.35	16.70	18.20	19.48	19.84	20.58	20.94	22.43
	6H	15.85	16.14	16.98	17.28	18.78	20.35	20.65	21.48	21.79	23.28
	8H	16.08	16.34	17.22	17.46	18.98	20.60	20.86	21.74	21.98	23.50
	12H	16.25	16.47	17.39	17.59	19.14	20.72	20.95	21.86	22.06	23.62
12H	4H	15.38	15.71	16.51	16.82	18.32	19.43	19.76	20.56	20.87	22.37
	6H	16.12	16.38	17.26	17.50	19.02	20.36	20.62	21.50	21.74	23.26
	8H	16.42	16.64	17.55	17.76	19.31	20.64	20.86	21.78	21.98	23.53