

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: P855440

Luminaire Tested: SQ2-FA-150U-075D-840-UNV-STD-W-4

Issue Date: 7/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P855440  
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-075D-840-UNV-STD-W-4  
Description: CORELITE SQ2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: -

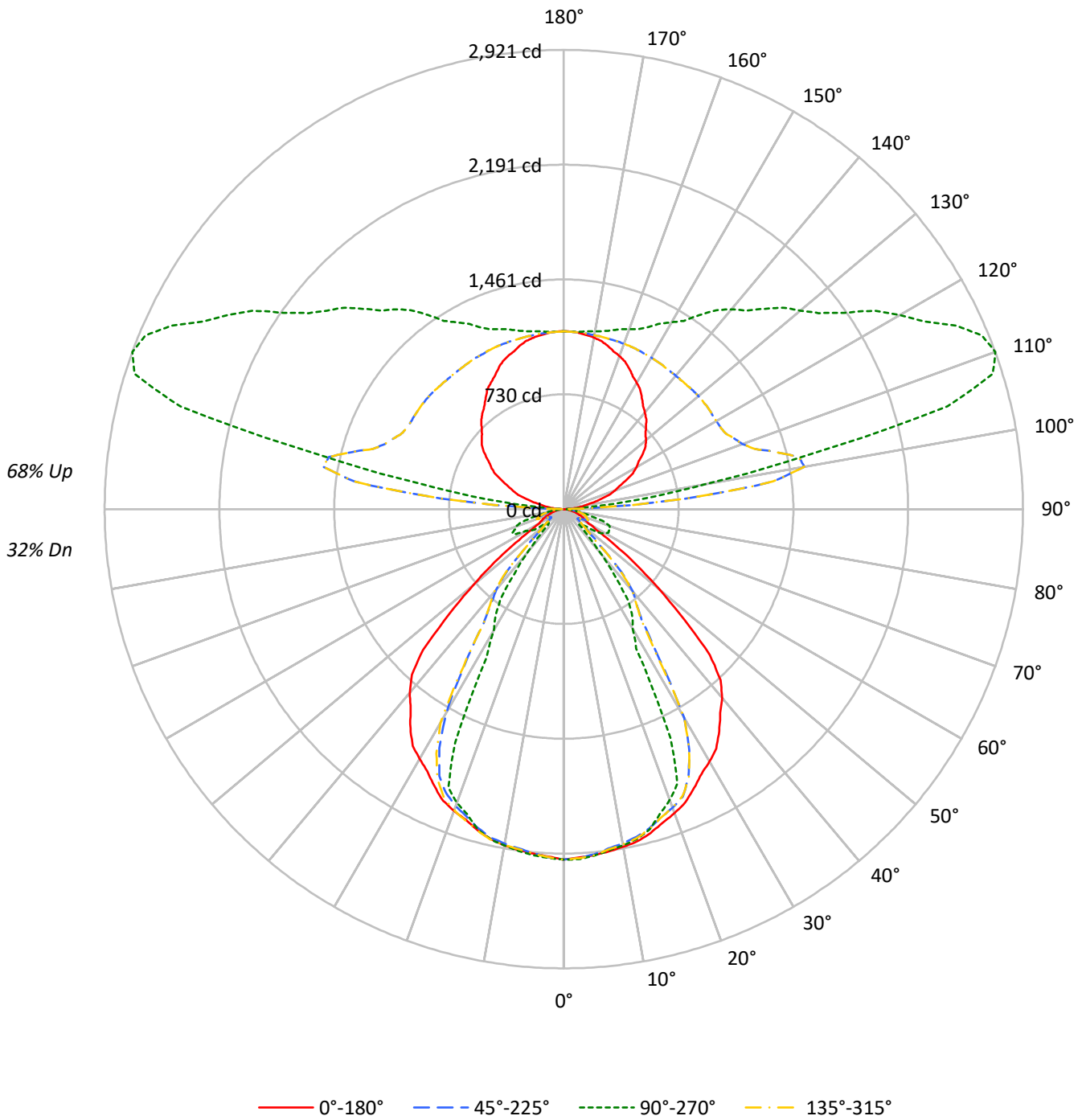
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10231.5 lumens  
Efficiency: N/A  
Efficacy: 122.8 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): 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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	103	103	103	103	92	92	92	92	73	73	73	56	56	56	39	39	39	32				
1	94	90	87	84	85	82	79	76	65	63	61	50	49	48	36	35	35	28				
2	87	80	74	70	78	72	68	64	58	55	52	45	43	41	33	31	30	25				
3	80	71	64	59	72	64	59	54	52	48	45	40	38	36	30	28	27	22				
4	73	63	56	51	66	58	52	47	47	42	39	37	34	31	27	25	24	20				
5	68	57	50	44	61	52	46	41	42	38	34	33	30	28	25	23	22	18				
6	63	51	44	39	56	47	41	36	39	34	30	31	27	25	23	21	20	17				
7	58	47	39	34	52	43	36	32	35	31	27	28	25	23	22	19	18	15				
8	54	43	36	31	49	39	33	29	32	28	24	26	23	20	20	18	16	14				
9	50	39	32	28	46	36	30	26	30	25	22	24	21	19	19	17	15	13				
10	47	36	29	25	43	33	27	23	28	23	20	22	19	17	18	15	14	12				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	35994	35994	35994	35994
5°	35802	35858	35666	35832
10°	35749	35611	35611	35611
15°	35634	35266	35353	35266
20°	35355	33854	35096	34173
25°	34892	28572	34654	29172
30°	34573	16393	34196	16613
35°	33965	14083	33535	13884
40°	33025	7406	32104	7335
45°	30019	3185	28944	3185
50°	19806	3843	18791	3589
55°	11074	7099	10508	6438
60°	5971	9988	5864	8958
65°	5268	12138	5524	13811
70°	4919	14526	4683	15314
75°	4616	12483	4716	12895
80°	3914	8908	3914	9382
85°	3427	4983	3112	5910

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 30019 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.8	2.1
10°-20°	595.2	5.8
20°-30°	811.5	7.9
30°-40°	681.9	6.7
40°-50°	387.3	3.8
50°-60°	205.5	2.0
60°-70°	189.2	1.8
70°-80°	138.9	1.4
80°-90°	37.5	0.4
90°-100°	430.6	4.2
100°-110°	1409.9	13.8
110°-120°	1393.9	13.6
120°-130°	1139.4	11.1
130°-140°	929.8	9.1
140°-150°	723.6	7.1
150°-160°	521.0	5.1
160°-170°	318.8	3.1
170°-180°	107.7	1.1
0°-30°	1616.4	15.8
0°-40°	2298.4	22.5
0°-60°	2891.2	28.3
0°-90°	3256.9	31.8
90°-120°	3234.3	31.6
90°-150°	6027.2	58.9
90°-180°	6975.0	68.2
0°-180°	10231.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2229	2229	2229	2229	2229	
5°	2209	2212	2201	2211	2209	210
15°	2132	2110	2115	2110	2132	601
25°	1959	1604	1945	1638	1959	903
35°	1723	714	1701	704	1723	1076
45°	1315	140	1268	140	1315	961
55°	393	252	373	229	393	379
65°	138	318	145	362	138	138
75°	74	200	76	207	74	76
85°	18	27	17	32	18	21
90°	1	9	1	9	1	4
95°	60	181	60	181	60	69
105°	245	2526	245	2526	245	258
115°	441	2758	441	2758	441	436
125°	614	2176	614	2176	614	547
135°	740	1801	740	1801	740	572
145°	865	1506	865	1506	865	542
155°	986	1278	986	1278	986	454
165°	1077	1176	1077	1176	1077	303
175°	1125	1132	1125	1132	1125	107
180°	1130	1130	1130	1130	1130	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3
2.5°	2217.2	2250.0	2221.1	2217.4	2229.3	2226.6	2222.5	2238.0	2211.8	2238.0	2217.2
5°	2209.0	2246.9	2204.0	2192.7	2212.4	2199.2	2210.8	2233.5	2200.6	2230.2	2197.2
7.5°	2195.3	2228.8	2177.4	2170.2	2189.6	2178.0	2182.8	2214.5	2186.9	2206.3	2176.5
10°	2180.5	2210.1	2158.7	2154.0	2172.1	2160.5	2165.3	2198.4	2172.1	2190.1	2160.3
12.5°	2164.4	2187.3	2135.8	2133.7	2149.2	2141.7	2143.9	2171.6	2150.5	2168.7	2140.1
15°	2131.8	2153.1	2101.5	2093.4	2109.8	2103.3	2106.6	2131.4	2115.0	2126.4	2101.5
17.5°	2091.4	2108.4	2057.0	2032.9	2033.5	2041.8	2057.0	2087.0	2072.2	2087.4	2052.0
20°	2057.7	2077.4	2020.8	1973.6	1970.3	1978.6	2020.8	2050.9	2042.6	2059.0	2009.0
22.5°	2018.7	2031.9	1980.5	1900.8	1889.7	1897.9	1975.0	2010.7	2007.6	2018.8	1956.6
25°	1958.6	1971.7	1877.9	1763.3	1603.8	1753.5	1881.2	1945.2	1945.2	1955.0	1872.8
27.5°	1897.4	1897.7	1727.9	1132.4	999.0	1091.6	1725.6	1864.2	1879.9	1875.0	1713.5
30°	1854.4	1842.8	1531.6	915.4	879.3	902.3	1533.2	1807.9	1834.2	1816.0	1492.9
32.5°	1804.6	1772.0	1130.8	841.7	812.1	832.4	1093.5	1741.1	1787.1	1748.0	1174.1
35°	1723.2	1637.7	862.4	744.1	714.5	740.8	855.8	1609.3	1701.4	1596.1	891.1
37.5°	1635.4	1301.8	759.3	592.7	528.9	579.9	755.5	1287.8	1599.9	1257.9	758.6
40°	1566.9	1022.8	682.6	433.5	351.4	408.9	677.6	975.8	1523.2	1049.7	665.8
42.5°	1475.4	898.4	548.1	275.4	215.5	252.1	525.6	877.7	1429.0	909.6	529.9
45°	1314.7	772.2	324.4	151.0	139.5	146.1	299.3	758.0	1267.6	741.5	331.2
47.5°	1041.3	589.0	208.5	128.4	140.9	128.4	202.1	570.2	983.5	569.3	208.1
50°	788.5	459.8	161.4	129.9	153.0	129.9	156.4	444.0	748.1	485.2	159.7
52.5°	584.1	384.1	131.8	142.5	183.9	145.1	128.1	374.0	554.5	391.3	124.7
55°	393.4	301.4	105.9	188.1	252.2	193.0	105.9	292.6	373.3	289.4	102.6
57.5°	249.5	224.2	107.2	241.8	287.9	246.4	109.0	216.1	239.4	217.0	94.2
60°	184.9	176.7	119.3	256.7	309.3	260.0	121.1	170.0	181.6	168.4	100.9
62.5°	152.7	139.1	143.6	278.1	321.4	270.8	146.6	132.7	158.7	127.1	111.6
65°	137.9	90.2	169.8	281.6	317.7	281.6	171.4	85.4	144.6	92.0	151.3
67.5°	124.5	66.9	164.1	279.7	319.8	280.3	160.0	63.7	119.3	62.1	154.6
70°	104.2	59.9	154.6	284.6	307.7	274.8	154.6	58.0	99.2	56.4	181.6
72.5°	86.7	56.9	143.9	262.8	272.7	253.0	145.2	56.5	87.1	50.9	170.8
75°	74.0	55.9	137.9	209.9	200.1	200.1	134.5	54.3	75.6	51.0	132.9
77.5°	55.5	49.5	114.3	137.1	129.5	129.5	112.3	47.9	52.8	44.9	107.9
80°	42.1	45.3	94.2	100.8	95.8	95.8	90.8	43.7	42.1	42.1	89.2
82.5°	32.6	38.6	72.6	73.9	70.3	69.0	70.6	38.2	32.6	35.2	68.9
85°	18.5	26.7	38.7	31.8	26.9	25.3	36.9	25.1	16.8	25.1	36.9
87.5°	7.0	12.7	7.2	7.0	7.2	7.0	7.2	12.7	7.0	11.3	8.6
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°	19.7	72.0	221.1	71.9	57.6	71.9	221.1	72.0	19.7	72.0	221.1
95°	60.4	175.0	782.8	278.9	181.2	278.9	782.8	175.0	60.4	175.0	782.8
97.5°	109.7	230.9	1343.0	812.4	503.6	812.4	1343.0	230.9	109.7	230.9	1343.0
100°	144.0	259.9	1553.9	1387.6	919.9	1387.6	1553.9	259.9	144.0	259.9	1553.9
102.5°	183.1	296.1	1530.8	2044.7	1585.1	2044.7	1530.8	296.1	183.1	296.1	1530.8
105°	245.1	349.5	1399.4	2658.9	2526.0	2658.9	1399.4	349.5	245.1	349.5	1399.4
107.5°	306.2	401.9	1271.5	2716.3	2862.3	2716.3	1271.5	401.9	306.2	401.9	1271.5
110°	346.1	439.2	1210.2	2649.4	2920.8	2649.4	1210.2	439.2	346.1	439.2	1210.2



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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°	384.2	474.6	1173.0	2533.2	2880.9	2533.2	1173.0	474.6	384.2	474.6	1173.0
115°	441.3	527.6	1137.0	2349.4	2758.3	2349.4	1137.0	527.6	441.3	527.6	1137.0
117.5°	496.8	577.5	1123.3	2168.9	2584.0	2168.9	1123.3	577.5	496.8	577.5	1123.3
120°	533.1	609.2	1119.6	2063.7	2468.0	2063.7	1119.6	609.2	533.1	609.2	1119.6
122.5°	565.6	639.8	1119.6	1972.9	2348.1	1972.9	1119.6	639.8	565.6	639.8	1119.6
125°	614.4	684.8	1120.8	1852.8	2176.4	1852.8	1120.8	684.8	614.4	684.8	1120.8
127.5°	655.8	727.4	1119.4	1764.3	2045.9	1764.3	1119.4	727.4	655.8	727.4	1119.4
130°	681.8	754.4	1118.4	1710.7	1965.1	1710.7	1118.4	754.4	681.8	754.4	1118.4
132.5°	705.0	779.4	1115.6	1664.7	1895.4	1664.7	1115.6	779.4	705.0	779.4	1115.6
135°	739.8	818.1	1111.4	1598.0	1801.2	1598.0	1111.4	818.1	739.8	818.1	1111.4
137.5°	776.5	854.1	1108.9	1528.7	1712.3	1528.7	1108.9	854.1	776.5	854.1	1108.9
140°	802.5	877.4	1107.9	1484.7	1658.5	1484.7	1107.9	877.4	802.5	877.4	1107.9
142.5°	828.5	899.0	1107.9	1437.9	1595.3	1437.9	1107.9	899.0	828.5	899.0	1107.9
145°	865.2	928.8	1109.1	1374.6	1506.3	1374.6	1109.1	928.8	865.2	928.8	1109.1
147.5°	903.8	956.7	1110.7	1319.5	1419.0	1319.5	1110.7	956.7	903.8	956.7	1110.7
150°	927.9	974.5	1112.6	1287.5	1371.6	1287.5	1112.6	974.5	927.9	974.5	1112.6
152.5°	952.1	993.2	1113.5	1261.2	1330.7	1261.2	1113.5	993.2	952.1	993.2	1113.5
155°	986.0	1018.9	1116.1	1229.8	1277.5	1229.8	1116.1	1018.9	986.0	1018.9	1116.1
157.5°	1016.5	1040.2	1118.7	1205.1	1239.6	1205.1	1118.7	1040.2	1016.5	1040.2	1118.7
160°	1035.9	1055.3	1119.6	1191.0	1218.3	1191.0	1119.6	1055.3	1035.9	1055.3	1119.6
162.5°	1052.7	1068.3	1119.6	1179.7	1199.7	1179.7	1119.6	1068.3	1052.7	1068.3	1119.6
165°	1076.6	1086.9	1120.8	1164.0	1176.5	1164.0	1120.8	1086.9	1076.6	1086.9	1120.8
167.5°	1096.8	1101.8	1122.2	1151.8	1158.6	1151.8	1122.2	1101.8	1096.8	1101.8	1122.2
170°	1107.9	1110.3	1123.1	1145.1	1147.5	1145.1	1123.1	1110.3	1107.9	1110.3	1123.1
172.5°	1116.3	1117.7	1125.9	1140.5	1140.9	1140.5	1125.9	1117.7	1116.3	1117.7	1125.9
175°	1125.4	1125.4	1126.6	1134.6	1132.3	1134.6	1126.6	1125.4	1125.4	1125.4	1126.6
177.5°	1130.0	1129.2	1128.1	1133.7	1130.0	1133.7	1128.1	1129.2	1130.0	1129.2	1128.1
180°	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2229.3	2229.3	2229.3	2229.3	2229.3	2229.3
2.5°	2211.9	2221.1	2221.1	2215.8	2242.1	2217.2
5°	2189.4	2210.8	2200.9	2200.6	2233.7	2209.0
7.5°	2173.6	2193.6	2184.4	2182.6	2215.0	2195.3
10°	2157.3	2172.1	2165.5	2170.4	2200.3	2180.5
12.5°	2134.4	2151.9	2145.4	2153.0	2180.1	2164.4
15°	2095.0	2109.8	2113.2	2116.6	2148.2	2131.8
17.5°	2030.0	2037.2	2053.7	2077.0	2109.8	2091.4
20°	1979.0	1988.9	1998.7	2039.2	2077.4	2057.7
22.5°	1920.8	1917.6	1940.6	1988.2	2035.8	2018.7
25°	1764.1	1637.5	1777.2	1899.7	1963.5	1958.6
27.5°	1228.3	1065.9	1209.6	1753.5	1887.5	1897.4
30°	966.7	891.1	965.0	1565.1	1831.3	1854.4
32.5°	858.2	806.3	851.3	1191.3	1760.6	1804.6
35°	740.6	704.4	740.6	891.1	1621.3	1723.2
37.5°	592.8	518.8	591.4	770.0	1310.6	1635.4
40°	441.7	348.0	428.5	689.3	1047.5	1566.9
42.5°	294.3	224.2	278.5	542.7	906.0	1475.4
45°	159.3	139.5	152.7	327.8	739.3	1314.7
47.5°	124.9	132.2	124.9	206.7	565.6	1041.3
50°	119.9	142.9	119.9	159.7	467.9	788.5
52.5°	130.6	155.0	129.4	126.1	381.9	584.1
55°	148.1	228.7	149.8	102.6	279.9	393.4
57.5°	210.8	257.2	213.2	97.2	215.6	249.5
60°	216.5	277.4	214.9	102.6	166.9	184.9
62.5°	256.2	343.3	255.8	117.4	124.0	152.7
65°	328.5	361.5	331.9	149.6	88.6	137.9
67.5°	311.9	335.3	308.6	160.4	61.0	124.5
70°	306.4	324.4	303.1	183.2	56.5	104.2
72.5°	285.9	288.2	279.9	169.8	50.9	86.7
75°	221.5	206.7	213.4	146.3	50.9	74.0
77.5°	137.8	131.8	132.7	111.6	45.0	55.5
80°	104.2	100.9	99.2	94.2	42.1	42.1
82.5°	77.3	74.0	72.4	72.6	35.2	32.6
85°	35.2	31.9	30.3	42.1	25.1	18.5
87.5°	8.4	8.6	7.0	8.6	10.0	7.0
90°	8.2	9.3	8.2	9.3	3.4	1.2
92.5°	71.9	57.6	71.9	221.1	72.0	19.7
95°	278.9	181.2	278.9	782.8	175.0	60.4
97.5°	812.4	503.6	812.4	1343.0	230.9	109.7
100°	1387.6	919.9	1387.6	1553.9	259.9	144.0
102.5°	2044.7	1585.1	2044.7	1530.8	296.1	183.1
105°	2658.9	2526.0	2658.9	1399.4	349.5	245.1
107.5°	2716.3	2862.3	2716.3	1271.5	401.9	306.2
110°	2649.4	2920.8	2649.4	1210.2	439.2	346.1





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	2533.2	2880.9	2533.2	1173.0	474.6	384.2
115°	2349.4	2758.3	2349.4	1137.0	527.6	441.3
117.5°	2168.9	2584.0	2168.9	1123.3	577.5	496.8
120°	2063.7	2468.0	2063.7	1119.6	609.2	533.1
122.5°	1972.9	2348.1	1972.9	1119.6	639.8	565.6
125°	1852.8	2176.4	1852.8	1120.8	684.8	614.4
127.5°	1764.3	2045.9	1764.3	1119.4	727.4	655.8
130°	1710.7	1965.1	1710.7	1118.4	754.4	681.8
132.5°	1664.7	1895.4	1664.7	1115.6	779.4	705.0
135°	1598.0	1801.2	1598.0	1111.4	818.1	739.8
137.5°	1528.7	1712.3	1528.7	1108.9	854.1	776.5
140°	1484.7	1658.5	1484.7	1107.9	877.4	802.5
142.5°	1437.9	1595.3	1437.9	1107.9	899.0	828.5
145°	1374.6	1506.3	1374.6	1109.1	928.8	865.2
147.5°	1319.5	1419.0	1319.5	1110.7	956.7	903.8
150°	1287.5	1371.6	1287.5	1112.6	974.5	927.9
152.5°	1261.2	1330.7	1261.2	1113.5	993.2	952.1
155°	1229.8	1277.5	1229.8	1116.1	1018.9	986.0
157.5°	1205.1	1239.6	1205.1	1118.7	1040.2	1016.5
160°	1191.0	1218.3	1191.0	1119.6	1055.3	1035.9
162.5°	1179.7	1199.7	1179.7	1119.6	1068.3	1052.7
165°	1164.0	1176.5	1164.0	1120.8	1086.9	1076.6
167.5°	1151.8	1158.6	1151.8	1122.2	1101.8	1096.8
170°	1145.1	1147.5	1145.1	1123.1	1110.3	1107.9
172.5°	1140.5	1140.9	1140.5	1125.9	1117.7	1116.3
175°	1134.6	1132.3	1134.6	1126.6	1125.4	1125.4
177.5°	1133.7	1130.0	1133.7	1128.1	1129.2	1130.0
180°	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0



TEST NUMBER: P855440

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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	10.34	11.01	11.46	12.10	13.62	9.20	9.86	10.32	10.96	12.48
	3H	11.04	11.63	12.16	12.74	14.27	15.34	15.94	16.47	17.04	18.57
	4H	11.44	12.00	12.57	13.11	14.65	16.61	17.17	17.74	18.28	19.82
	6H	11.79	12.30	12.93	13.42	14.96	17.21	17.73	18.35	18.84	20.39
	8H	11.90	12.39	13.04	13.52	15.06	17.33	17.82	18.47	18.95	20.49
	12H	11.97	12.43	13.11	13.55	15.12	17.37	17.83	18.51	18.95	20.52
4H	2H	10.72	11.29	11.86	12.39	13.93	9.72	10.28	10.86	11.39	12.93
	3H	11.71	12.18	12.85	13.31	14.86	16.03	16.50	17.18	17.64	19.18
	4H	12.27	12.70	13.41	13.82	15.39	17.48	17.91	18.62	19.03	20.60
	6H	12.74	13.11	13.89	14.25	15.81	18.21	18.58	19.36	19.72	21.28
	8H	12.91	13.25	14.06	14.39	15.96	18.37	18.72	19.52	19.86	21.43
	12H	13.01	13.33	14.18	14.48	16.06	18.43	18.74	19.59	19.89	21.47
8H	4H	13.36	13.70	14.51	14.84	16.42	17.59	17.94	18.74	19.07	20.65
	6H	13.96	14.25	15.13	15.43	17.00	18.47	18.75	19.64	19.93	21.50
	8H	14.20	14.45	15.38	15.61	17.20	18.72	18.97	19.90	20.12	21.72
	12H	14.37	14.58	15.54	15.74	17.36	18.83	19.05	20.01	20.20	21.83
12H	4H	13.50	13.81	14.66	14.96	16.54	17.55	17.86	18.71	19.01	20.59
	6H	14.24	14.49	15.42	15.65	17.24	18.48	18.72	19.65	19.88	21.48
	8H	14.53	14.75	15.71	15.90	17.53	18.75	18.97	19.93	20.12	21.75