

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: P938141

Luminaire Tested: SQ4-FB-125U-125D-92765-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P938141
REPORT IS A COMBINATION OF REPORTS P933608 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-125U-125D-92765-1D-UNV-STD-W-6-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

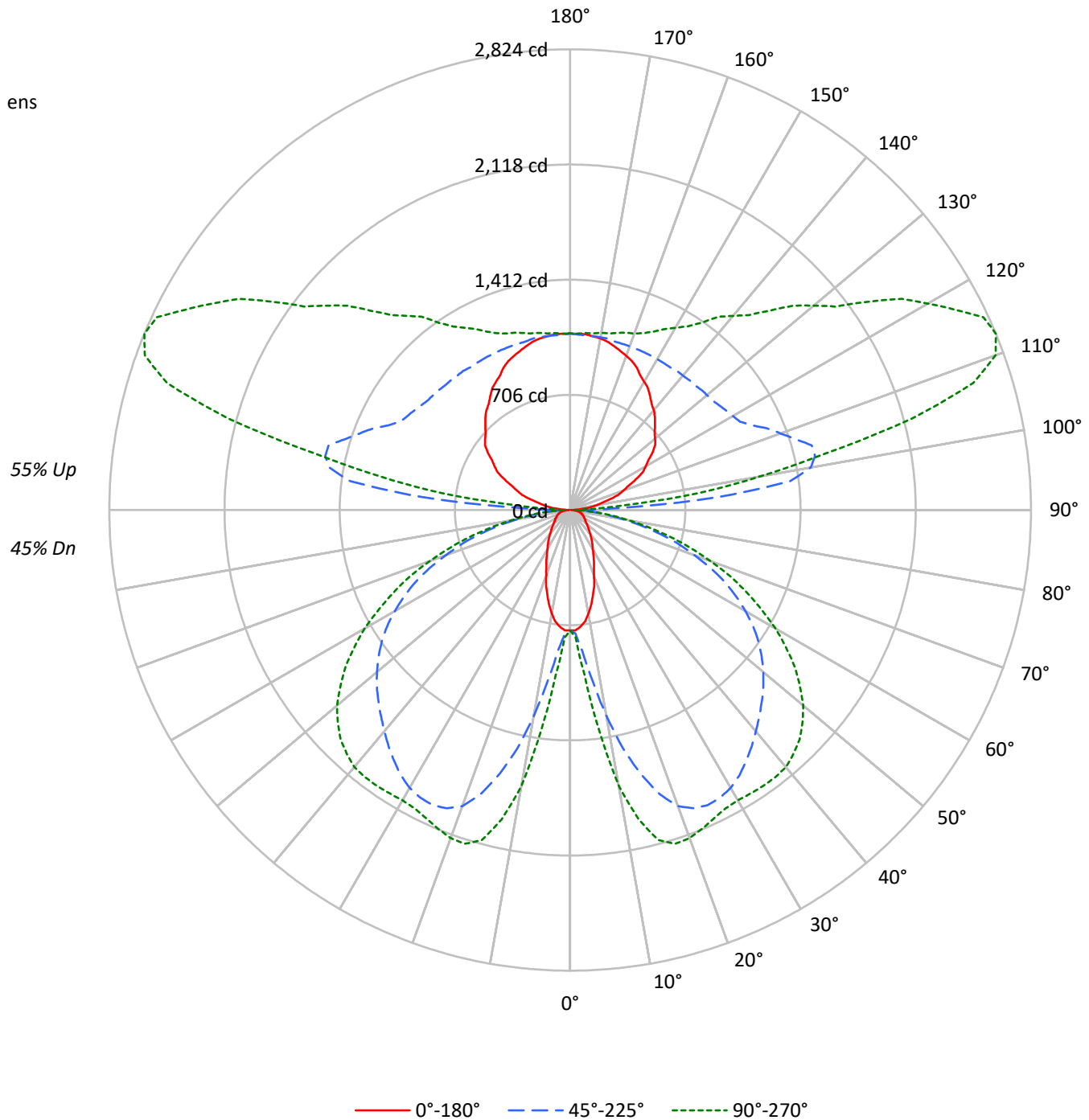
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12724.1 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 112.8
Input Voltage (V): NR
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

TEST NUMBER: P938141
CATALOG NUMBER: SQ4-FB-125U-125D-92765-1D-UNV-STD-W-6-5000K

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	96	92	88	84	88	84	81	77	70	67	65	57	55	53	45	44	42	37
2	87	79	73	68	79	73	67	63	61	56	53	49	46	44	39	37	35	30
3	79	69	62	56	72	64	57	52	53	48	44	43	39	36	34	31	29	25
4	72	61	53	47	66	56	49	43	47	41	37	38	34	31	30	27	25	21
5	66	54	46	39	60	50	42	37	41	36	31	34	29	26	27	23	21	18
6	60	48	40	34	55	44	37	31	37	31	27	30	26	23	24	21	18	15
7	56	43	35	29	51	40	32	27	33	28	23	27	23	20	22	18	16	13
8	52	39	31	26	47	36	29	24	30	25	21	25	20	17	20	16	14	12
9	48	35	28	23	44	33	26	21	27	22	18	23	18	15	18	15	12	10
10	45	32	25	20	41	30	23	19	25	20	16	21	17	14	17	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4565	4565	4565
5°	4458	5274	6136
10°	4042	7687	10172
15°	3434	10040	12283
20°	2795	11632	12518
25°	2331	12169	12263
30°	1964	12243	12240
35°	1736	12036	12557
40°	1512	11769	12883
45°	1368	11572	12934
50°	1253	11394	12720
55°	1199	11135	12156
60°	1227	10641	11266
65°	1275	9893	10042
70°	1354	8621	8484
75°	1496	7024	6621
80°	1621	4865	4461
85°	1413	2577	2284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12934 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	0.8
10°-20°	423.0	3.3
20°-30°	739.9	5.8
30°-40°	952.5	7.5
40°-50°	1063.9	8.4
50°-60°	1019.0	8.0
60°-70°	807.6	6.3
70°-80°	474.9	3.7
80°-90°	136.1	1.1
90°-100°	527.2	4.1
100°-110°	1386.1	10.9
110°-120°	1437.3	11.3
120°-130°	1152.9	9.1
130°-140°	904.6	7.1
140°-150°	694.3	5.5
150°-160°	500.0	3.9
160°-170°	305.9	2.4
170°-180°	103.4	0.8
0°-30°	1258.4	9.9
0°-40°	2211.0	17.4
0°-60°	4293.9	33.7
0°-90°	5712.4	44.9
90°-120°	3350.6	26.3
90°-150°	6102.4	48.0
90°-180°	7012.0	55.1
0°-180°	12724.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	738	738	738	738	738	
5°	719	771	868	982	1018	66
15°	539	994	1675	2031	2095	150
25°	344	1127	1995	2083	2086	158
35°	233	1077	1879	1986	2064	145
45°	159	859	1661	1903	1988	123
55°	114	546	1409	1637	1682	104
65°	90	290	1046	1177	1193	89
75°	66	178	574	631	634	70
85°	24	55	142	157	159	25
90°	7	20	55	28	28	8
95°	70	273	908	468	319	77
105°	250	378	1532	2327	2170	265
115°	444	539	1228	2449	2795	438
125°	617	692	1116	1887	2226	548
135°	735	809	1082	1523	1727	569
145°	853	907	1068	1299	1401	534
155°	964	991	1068	1172	1206	443
165°	1040	1054	1068	1110	1124	294
175°	1082	1082	1075	1089	1089	103
180°	1082	1082	1082	1082	1082	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	737.9	737.9	737.9	737.9	737.9	737.9	737.9	737.9	737.9	737.9	737.9
2.5°	737.9	737.9	742.6	745.0	749.7	752.2	756.8	761.6	775.8	778.2	783.0
5°	718.9	728.4	759.3	771.1	804.3	849.4	868.3	899.2	963.3	982.3	994.2
7.5°	690.5	711.8	787.7	806.7	889.7	1008.4	1058.2	1124.6	1226.6	1276.4	1316.8
10°	645.3	690.5	825.6	870.8	1006.0	1186.3	1278.9	1371.4	1525.6	1594.4	1620.5
12.5°	595.5	669.1	866.0	927.7	1122.2	1385.6	1497.1	1599.1	1774.7	1867.3	1881.5
15°	538.6	638.2	904.0	994.2	1245.6	1551.7	1675.1	1800.8	1964.6	2030.9	2047.6
17.5°	488.8	614.5	939.6	1034.4	1340.6	1701.2	1826.9	1931.3	2064.2	2109.3	2121.1
20°	427.1	576.5	963.3	1086.7	1440.2	1810.3	1931.3	2012.0	2102.2	2130.6	2135.3
22.5°	382.0	536.2	977.5	1105.7	1506.7	1876.7	1978.8	2042.8	2104.5	2114.0	2116.4
25°	344.1	491.1	975.2	1127.0	1563.6	1917.1	1995.4	2042.8	2078.4	2083.2	2083.2
27.5°	308.5	441.3	965.6	1131.7	1606.3	1926.5	1988.2	2021.5	2038.0	2047.6	2047.6
30°	277.6	393.9	941.9	1122.2	1625.3	1917.1	1966.9	1983.5	2000.1	2014.4	2021.5
32.5°	253.9	348.7	906.3	1103.2	1627.6	1893.3	1929.0	1938.4	1962.1	1995.4	2007.2
35°	232.6	303.7	866.0	1077.2	1613.4	1855.4	1879.1	1888.6	1936.1	1985.9	2002.5
37.5°	211.2	270.5	813.8	1032.1	1592.0	1810.3	1826.9	1843.5	1917.1	1976.3	1995.4
40°	189.8	242.0	752.2	982.3	1558.8	1755.8	1770.0	1796.0	1893.3	1962.1	1981.1
42.5°	173.2	218.3	685.7	930.0	1516.1	1694.1	1715.4	1753.3	1864.8	1938.4	1959.8
45°	159.0	194.5	614.5	858.9	1461.5	1629.9	1660.8	1713.0	1831.6	1902.9	1921.8
47.5°	144.7	178.0	540.9	785.3	1402.2	1565.9	1606.3	1665.6	1786.6	1855.4	1872.0
50°	132.8	161.3	467.4	707.0	1338.1	1497.1	1544.6	1606.3	1729.7	1793.7	1815.0
52.5°	123.4	147.1	398.6	628.8	1264.6	1425.9	1480.5	1544.6	1660.8	1722.5	1736.8
55°	113.8	135.3	339.3	545.7	1188.7	1350.0	1409.3	1471.0	1584.9	1637.1	1646.6
57.5°	109.2	125.7	289.5	467.4	1108.0	1264.6	1331.0	1387.9	1494.8	1535.1	1544.6
60°	102.0	118.6	251.5	401.0	1020.2	1183.9	1240.9	1297.8	1387.9	1421.2	1428.3
62.5°	94.9	113.8	223.0	336.9	930.0	1089.0	1145.9	1198.2	1274.1	1297.8	1307.3
65°	90.2	109.2	201.7	289.5	837.5	989.4	1046.3	1091.4	1153.1	1176.8	1181.6
67.5°	85.4	104.4	185.1	249.1	745.0	889.7	932.5	975.2	1022.6	1046.3	1048.7
70°	78.3	99.6	170.9	220.7	650.1	775.8	811.4	856.5	894.5	906.3	913.5
72.5°	73.6	92.5	161.3	199.3	552.8	666.7	699.9	726.0	759.3	771.1	771.1
75°	66.5	83.0	151.9	178.0	453.1	545.7	574.2	600.3	626.3	631.1	624.0
77.5°	59.4	73.6	130.5	149.5	353.5	431.8	455.6	469.8	491.1	495.9	498.3
80°	49.8	64.0	102.0	116.3	256.2	317.9	334.5	346.4	365.4	365.4	370.1
82.5°	37.9	49.8	73.6	83.0	173.2	218.3	232.6	239.7	251.5	251.5	251.5
85°	23.7	30.8	47.5	54.6	104.4	132.8	142.4	144.7	154.2	156.6	156.6
87.5°	11.9	16.6	30.8	33.2	54.6	68.8	68.8	73.6	73.6	71.2	68.8
90°	7.3	13.1	18.9	20.3	31.9	47.4	55.1	49.0	36.7	27.6	27.6
92.5°	29.1	78.4	127.8	140.1	196.9	272.7	310.7	272.3	195.5	138.0	132.4
95°	69.7	160.0	250.3	272.9	484.6	767.0	908.2	810.4	614.8	468.2	451.6
97.5°	120.5	200.1	279.9	299.8	652.8	1123.6	1359.0	1297.2	1173.6	1080.9	1049.3
100°	159.7	232.0	304.2	322.3	714.0	1236.4	1497.6	1502.1	1511.1	1517.9	1480.2
102.5°	193.1	260.5	328.0	344.8	742.2	1271.9	1536.8	1615.5	1773.0	1891.0	1858.8
105°	249.8	306.9	363.9	378.2	762.9	1276.0	1532.5	1708.9	2061.9	2326.6	2309.2
107.5°	307.8	361.0	414.3	427.5	766.8	1219.1	1445.3	1691.5	2183.8	2553.1	2557.3
110°	347.0	395.0	443.1	455.1	760.9	1168.8	1372.7	1647.9	2198.3	2611.2	2629.2



TEST NUMBER: P938141

CATALOG NUMBER: SQ4-FB-125U-125D-92765-1D-UNV-STD-W-6-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	385.5	431.3	477.1	488.6	761.2	1124.8	1306.6	1588.3	2151.6	2574.1	2601.8
115°	443.5	485.8	528.1	538.7	768.3	1074.4	1227.5	1498.9	2041.6	2448.6	2487.1
117.5°	500.9	539.3	577.6	587.3	782.5	1042.9	1173.1	1417.9	1907.7	2275.1	2317.7
120°	534.3	570.5	606.5	615.6	794.1	1032.2	1151.3	1375.0	1822.5	2158.1	2199.6
122.5°	567.0	603.4	639.9	649.0	810.9	1026.7	1134.6	1336.2	1739.1	2041.3	2082.2
125°	617.0	650.3	683.5	691.8	833.4	1022.1	1116.5	1287.7	1629.9	1886.7	1924.4
127.5°	657.7	691.2	724.8	733.2	855.9	1019.5	1101.3	1248.2	1542.2	1762.6	1794.4
130°	679.4	715.6	751.7	760.8	872.3	1021.0	1095.4	1226.2	1487.9	1684.2	1713.5
132.5°	702.0	738.1	774.2	783.3	885.6	1022.1	1090.3	1207.5	1441.7	1617.3	1643.6
135°	735.3	768.2	801.1	809.4	900.1	1021.2	1081.6	1179.7	1375.9	1523.0	1545.6
137.5°	769.4	802.1	834.7	842.8	921.9	1027.4	1080.1	1163.1	1328.9	1453.3	1471.8
140°	797.8	827.8	857.8	865.3	935.2	1028.5	1075.1	1146.7	1290.0	1397.4	1414.8
142.5°	819.6	847.3	875.1	882.0	946.4	1032.2	1075.1	1138.0	1263.8	1358.2	1373.2
145°	852.9	877.1	901.3	907.4	960.9	1032.2	1067.8	1119.3	1222.2	1299.4	1310.7
147.5°	886.4	909.9	933.5	939.4	982.2	1039.3	1067.8	1108.3	1189.3	1250.1	1259.4
150°	908.2	929.5	950.7	956.0	993.3	1042.9	1067.8	1102.0	1170.4	1221.8	1229.3
152.5°	930.6	946.8	962.9	967.0	1000.6	1045.4	1067.8	1097.0	1155.4	1199.2	1204.9
155°	964.1	976.0	987.9	990.9	1016.5	1050.7	1067.8	1091.1	1137.5	1172.4	1176.2
157.5°	988.7	1000.3	1011.9	1014.8	1032.5	1056.0	1067.8	1085.8	1122.0	1149.1	1151.7
160°	1005.4	1014.4	1023.5	1025.7	1039.8	1058.5	1067.8	1083.3	1114.3	1137.5	1139.0
162.5°	1022.1	1028.8	1035.7	1037.3	1047.5	1061.1	1067.8	1080.9	1107.0	1126.6	1128.1
165°	1040.2	1046.4	1052.6	1054.1	1058.6	1064.7	1067.8	1077.2	1095.9	1110.0	1111.5
167.5°	1057.0	1059.9	1062.8	1063.5	1067.3	1072.5	1075.1	1081.3	1093.5	1102.7	1103.3
170°	1067.8	1070.7	1073.6	1074.4	1074.6	1074.9	1075.1	1081.3	1093.5	1102.7	1102.7
172.5°	1073.6	1074.3	1074.9	1075.1	1075.1	1075.1	1075.1	1080.0	1089.6	1096.9	1096.3
175°	1081.6	1081.6	1081.6	1081.6	1079.5	1076.6	1075.1	1078.2	1084.4	1088.9	1088.9
177.5°	1081.6	1081.6	1081.6	1081.6	1080.0	1077.6	1076.5	1078.9	1083.8	1087.4	1086.8
180°	1081.6	1081.6	1081.6	1081.6	1081.6	1081.6	1081.6	1081.6	1081.6	1081.6	1081.6



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	737.9	737.9
2.5°	787.7	783.0
5°	1013.1	1017.9
7.5°	1364.3	1361.9
10°	1696.4	1717.8
12.5°	1938.4	1943.2
15°	2085.5	2095.1
17.5°	2142.4	2144.9
20°	2144.9	2140.1
22.5°	2118.7	2114.0
25°	2087.9	2085.5
27.5°	2059.4	2061.8
30°	2047.6	2054.7
32.5°	2047.6	2059.4
35°	2052.3	2064.2
37.5°	2049.9	2064.2
40°	2040.5	2057.0
42.5°	2014.4	2026.3
45°	1974.0	1988.2
47.5°	1921.8	1931.3
50°	1855.4	1864.8
52.5°	1772.3	1774.7
55°	1672.7	1682.2
57.5°	1565.9	1568.2
60°	1447.3	1454.4
62.5°	1321.6	1321.6
65°	1188.7	1193.4
67.5°	1051.1	1062.9
70°	911.1	913.5
72.5°	773.5	773.5
75°	631.1	633.5
77.5°	495.9	495.9
80°	367.7	370.1
82.5°	253.9	258.6
85°	159.0	159.0
87.5°	73.6	66.5
90°	27.6	27.6
92.5°	110.5	88.5
95°	385.1	318.6
97.5°	922.8	796.4
100°	1329.6	1178.9
102.5°	1729.7	1600.7
105°	2239.8	2170.5
107.5°	2574.0	2590.8
110°	2701.5	2773.7



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	2712.8	2823.8
115°	2640.9	2794.8
117.5°	2488.4	2659.1
120°	2365.5	2531.3
122.5°	2245.7	2409.3
125°	2075.0	2225.7
127.5°	1921.5	2048.6
130°	1831.0	1948.4
132.5°	1748.8	1854.0
135°	1636.3	1727.0
137.5°	1546.0	1620.2
140°	1484.1	1553.5
142.5°	1432.8	1492.5
145°	1355.9	1401.0
147.5°	1296.9	1334.3
150°	1259.7	1290.0
152.5°	1227.8	1250.7
155°	1191.4	1206.5
157.5°	1162.4	1173.1
160°	1145.2	1151.3
162.5°	1133.9	1139.7
165°	1117.6	1123.7
167.5°	1105.9	1108.5
170°	1102.7	1102.7
172.5°	1094.1	1091.8
175°	1088.9	1088.9
177.5°	1084.3	1081.6
180°	1081.6	1081.6



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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	5.79	6.64	6.78	7.65	8.99	18.96	19.81	19.95	20.82	22.16
	3H	6.50	7.26	7.50	8.28	9.64	20.79	21.55	21.79	22.57	23.93
	4H	6.79	7.52	7.81	8.54	9.91	21.43	22.16	22.45	23.18	24.54
	6H	7.04	7.71	8.07	8.74	10.12	21.86	22.53	22.88	23.55	24.93
	8H	7.11	7.75	8.14	8.79	10.17	21.97	22.61	23.01	23.65	25.03
	12H	7.13	7.73	8.17	8.77	10.17	22.04	22.65	23.08	23.68	25.08
4H	2H	13.00	13.72	14.02	14.74	16.11	19.23	19.95	20.25	20.98	22.34
	3H	14.56	15.17	15.59	16.22	17.60	21.27	21.88	22.30	22.93	24.31
	4H	14.66	15.21	15.70	16.26	17.66	22.03	22.59	23.07	23.63	25.03
	6H	14.67	15.15	15.72	16.21	17.61	22.57	23.05	23.62	24.11	25.51
	8H	14.65	15.09	15.70	16.15	17.57	22.73	23.17	23.78	24.23	25.65
	12H	14.60	15.01	15.67	16.08	17.50	22.82	23.22	23.88	24.29	25.71
8H	4H	16.10	16.55	17.15	17.60	19.02	22.09	22.54	23.14	23.60	25.01
	6H	16.34	16.71	17.41	17.81	19.22	22.72	23.09	23.79	24.19	25.60
	8H	16.36	16.69	17.44	17.77	19.20	22.93	23.26	24.01	24.34	25.77
	12H	16.33	16.61	17.41	17.69	19.16	23.07	23.36	24.16	24.44	25.91
12H	4H	16.24	16.65	17.31	17.72	19.14	22.04	22.45	23.11	23.52	24.94
	6H	16.60	16.93	17.68	18.01	19.44	22.70	23.03	23.78	24.11	25.54
	8H	16.67	16.95	17.75	18.03	19.50	22.93	23.21	24.01	24.29	25.76