

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: P937948

Luminaire Tested: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-8-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937948
REPORT IS A COMBINATION OF REPORTS P933614 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-8-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

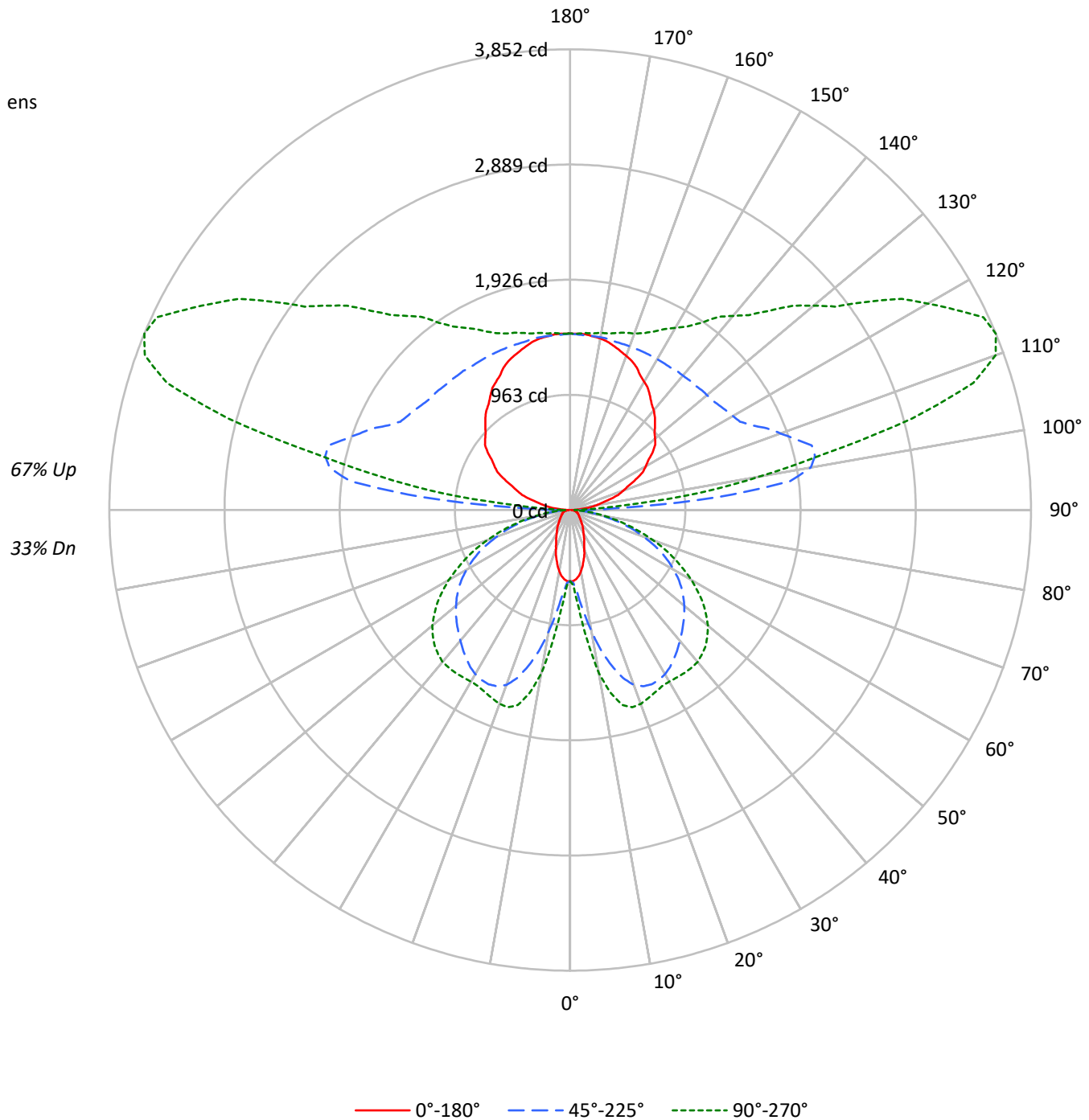
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14170.8 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 111.2
Input Voltage (V): NR
Input Current (A_{in}): 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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CATALOG NUMBER: SQ4-FB-125U-075D-92765-1D-UNV-STD-W-8-6500K

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	93	93	93	93	74	74	74	56	56	56	40	40	40	33			33
1	94	89	85	82	84	80	77	74	64	62	60	49	47	46	35	34	33	27			27
2	85	77	71	66	76	70	65	60	55	52	49	42	40	38	30	29	27	22			22
3	77	68	60	54	69	61	55	50	49	44	40	37	34	31	26	24	23	18			18
4	70	59	52	46	63	54	47	42	43	38	34	33	29	26	23	21	19	15			15
5	64	53	45	39	57	48	41	35	38	33	29	29	25	23	21	18	16	13			13
6	59	47	39	33	53	42	35	30	34	29	25	26	22	19	19	16	14	11			11
7	54	42	34	29	49	38	31	26	31	25	22	23	20	17	17	14	12	10			10
8	50	38	30	25	45	34	28	23	28	23	19	21	18	15	15	13	11	8			8
9	47	34	27	22	42	31	25	20	25	20	17	19	16	13	14	12	10	7			7
10	43	31	24	19	39	28	22	18	23	18	15	18	14	12	13	10	9	7			7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2760	2760	2760
5°	2696	3189	3709
10°	2445	4649	6150
15°	2078	6074	7425
20°	1692	7039	7568
25°	1411	7366	7414
30°	1190	7413	7400
35°	1052	7289	7591
40°	917	7129	7789
45°	830	7013	7820
50°	762	6907	7690
55°	730	6753	7349
60°	747	6456	6811
65°	777	6005	6071
70°	828	5237	5129
75°	916	4270	4002
80°	1003	2961	2697
85°	890	1570	1380

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7820 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	0.5
10°-20°	341.0	2.4
20°-30°	596.4	4.2
30°-40°	767.8	5.4
40°-50°	857.6	6.1
50°-60°	821.4	5.8
60°-70°	650.9	4.6
70°-80°	382.8	2.7
80°-90°	112.0	0.8
90°-100°	719.2	5.1
100°-110°	1890.7	13.3
110°-120°	1960.4	13.8
120°-130°	1572.5	11.1
130°-140°	1233.8	8.7
140°-150°	947.0	6.7
150°-160°	682.0	4.8
160°-170°	417.3	2.9
170°-180°	141.0	1.0
0°-30°	1014.4	7.2
0°-40°	1782.2	12.6
0°-60°	3461.2	24.4
0°-90°	4606.8	32.5
90°-120°	4570.3	32.3
90°-150°	8323.6	58.7
90°-180°	9564.0	67.5
0°-180°	14170.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	595	595	595	595	595	
5°	580	622	700	792	820	53
15°	434	801	1350	1637	1689	121
25°	277	908	1608	1679	1681	128
35°	187	868	1515	1601	1664	117
45°	128	692	1339	1534	1603	99
55°	92	440	1136	1320	1356	84
65°	73	233	843	948	962	72
75°	54	143	463	509	511	56
85°	19	44	115	126	128	20
90°	10	28	75	38	38	9
95°	95	372	1239	639	435	106
105°	341	516	2090	3173	2961	361
115°	605	735	1674	3340	3812	598
125°	842	944	1523	2573	3036	747
135°	1003	1104	1475	2077	2356	776
145°	1163	1238	1456	1772	1911	729
155°	1315	1352	1456	1599	1646	604
165°	1419	1438	1456	1514	1533	400
175°	1475	1475	1466	1485	1485	140
180°	1475	1475	1475	1475	1475	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	594.8	594.8	594.8	594.8	594.8	594.8	594.8	594.8	594.8	594.8	594.8
2.5°	594.8	594.8	598.6	600.5	604.3	606.2	610.1	613.9	625.4	627.3	631.1
5°	579.5	587.1	612.0	621.5	648.3	684.6	699.9	724.8	776.4	791.7	801.3
7.5°	556.5	573.7	634.9	650.2	717.1	812.8	852.9	906.5	988.7	1028.9	1061.4
10°	520.2	556.5	665.5	701.8	810.9	956.2	1030.8	1105.5	1229.8	1285.2	1306.3
12.5°	480.0	539.3	698.0	747.7	904.6	1116.9	1206.8	1289.0	1430.6	1505.1	1516.6
15°	434.1	514.4	728.6	801.3	1004.0	1250.8	1350.2	1451.6	1583.6	1637.1	1650.5
17.5°	394.0	495.3	757.3	833.8	1080.5	1371.3	1472.6	1556.8	1663.9	1700.2	1709.8
20°	344.2	464.7	776.4	875.9	1160.9	1459.2	1556.8	1621.8	1694.5	1717.4	1721.2
22.5°	307.9	432.2	787.9	891.2	1214.5	1512.8	1595.0	1646.7	1696.4	1704.0	1705.9
25°	277.3	395.9	786.0	908.4	1260.4	1545.3	1608.4	1646.7	1675.3	1679.2	1679.2
27.5°	248.6	355.7	778.3	912.2	1294.8	1553.0	1602.7	1629.4	1642.8	1650.5	1650.5
30°	223.7	317.5	759.2	904.6	1310.1	1545.3	1585.5	1598.9	1612.2	1623.7	1629.4
32.5°	204.6	281.1	730.5	889.3	1312.0	1526.2	1554.9	1562.5	1581.6	1608.4	1618.0
35°	187.4	244.8	698.0	868.2	1300.5	1495.6	1514.7	1522.4	1560.6	1600.8	1614.1
37.5°	170.2	218.0	655.9	831.9	1283.3	1459.2	1472.6	1486.0	1545.3	1593.1	1608.4
40°	153.0	195.1	606.2	791.7	1256.5	1415.3	1426.7	1447.8	1526.2	1581.6	1596.9
42.5°	139.6	175.9	552.7	749.7	1222.1	1365.5	1382.8	1413.3	1503.2	1562.5	1579.7
45°	128.1	156.8	495.3	692.3	1178.1	1313.9	1338.8	1380.8	1476.5	1533.8	1549.1
47.5°	116.7	143.4	436.0	633.0	1130.3	1262.3	1294.8	1342.6	1440.1	1495.6	1509.0
50°	107.1	130.0	376.7	569.9	1078.6	1206.8	1245.1	1294.8	1394.2	1445.9	1463.1
52.5°	99.4	118.6	321.3	506.8	1019.3	1149.4	1193.4	1245.1	1338.8	1388.5	1400.0
55°	91.8	109.0	273.5	439.8	958.1	1088.2	1136.1	1185.8	1277.6	1319.6	1327.3
57.5°	88.0	101.4	233.3	376.7	893.1	1019.3	1072.8	1118.8	1204.9	1237.4	1245.1
60°	82.2	95.6	202.7	323.2	822.3	954.3	1000.2	1046.1	1118.8	1145.6	1151.4
62.5°	76.5	91.8	179.8	271.6	749.7	877.8	923.7	965.8	1027.0	1046.1	1053.7
65°	72.7	88.0	162.6	233.3	675.1	797.5	843.4	879.7	929.4	948.5	952.4
67.5°	68.8	84.1	149.2	200.8	600.5	717.1	751.6	786.0	824.2	843.4	845.3
70°	63.1	80.3	137.7	177.9	524.0	625.4	654.0	690.4	721.0	730.5	736.3
72.5°	59.3	74.6	130.0	160.6	445.6	537.4	564.2	585.2	612.0	621.5	621.5
75°	53.5	66.9	122.4	143.4	365.3	439.8	462.8	483.8	504.9	508.7	503.0
77.5°	47.8	59.3	105.2	120.5	284.9	348.1	367.2	378.7	395.9	399.7	401.6
80°	40.2	51.6	82.2	93.7	206.5	256.3	269.6	279.2	294.5	294.5	298.3
82.5°	30.6	40.2	59.3	66.9	139.6	175.9	187.4	193.2	202.7	202.7	202.7
85°	19.1	24.9	38.2	44.0	84.1	107.1	114.7	116.7	124.3	126.2	126.2
87.5°	9.6	13.4	24.9	26.8	44.0	55.5	55.5	59.3	59.3	57.4	55.5
90°	9.9	17.9	25.7	27.7	43.6	64.7	75.3	66.8	50.1	37.6	37.6
92.5°	39.6	106.9	174.3	191.1	268.7	372.1	423.8	371.4	266.7	188.1	180.6
95°	95.0	218.3	341.6	372.3	661.1	1046.2	1238.7	1105.4	838.7	638.6	616.0
97.5°	164.4	273.1	381.8	409.0	890.5	1532.6	1853.6	1769.3	1600.8	1474.4	1431.2
100°	217.8	316.4	415.0	439.7	974.0	1686.4	2042.7	2048.8	2061.2	2070.4	2019.1
102.5°	263.3	355.3	447.3	470.4	1012.3	1734.9	2096.2	2203.5	2418.3	2579.3	2535.3
105°	340.6	418.5	496.4	515.9	1040.6	1740.4	2090.2	2330.9	2812.4	3173.4	3149.8
107.5°	419.9	492.4	565.0	583.2	1045.9	1662.9	1971.4	2307.2	2978.7	3482.4	3488.1
110°	473.3	538.9	604.5	620.9	1038.0	1594.3	1872.4	2247.8	2998.5	3561.5	3586.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	525.8	588.2	650.8	666.4	1038.3	1534.3	1782.2	2166.4	2934.7	3511.0	3548.9
115°	605.0	662.6	720.2	734.6	1047.9	1465.6	1674.4	2044.4	2784.6	3339.8	3392.3
117.5°	683.2	735.6	787.9	801.0	1067.4	1422.5	1600.1	1934.1	2602.1	3103.1	3161.4
120°	728.7	778.1	827.3	839.6	1083.2	1408.0	1570.4	1875.6	2485.9	2943.7	3000.2
122.5°	773.3	823.0	872.7	885.1	1105.9	1400.3	1547.6	1822.4	2372.1	2784.3	2840.1
125°	841.6	887.0	932.3	943.6	1136.6	1394.1	1522.8	1756.3	2223.2	2573.4	2624.7
127.5°	897.1	942.9	988.6	1000.1	1167.4	1390.5	1502.1	1702.5	2103.4	2404.1	2447.4
130°	926.7	976.1	1025.3	1037.7	1189.8	1392.7	1494.1	1672.6	2029.5	2297.2	2337.2
132.5°	957.4	1006.8	1056.0	1068.4	1208.0	1394.1	1487.2	1646.9	1966.4	2206.0	2241.9
135°	1003.0	1047.9	1092.8	1104.0	1227.8	1392.8	1475.3	1609.1	1876.6	2077.3	2108.2
137.5°	1049.5	1094.0	1138.4	1149.5	1257.5	1401.4	1473.3	1586.4	1812.7	1982.3	2007.6
140°	1088.1	1129.1	1170.0	1180.2	1275.7	1402.8	1466.4	1564.1	1759.5	1906.1	1929.7
142.5°	1117.9	1155.8	1193.5	1203.0	1290.8	1407.9	1466.4	1552.2	1723.8	1852.5	1872.9
145°	1163.4	1196.4	1229.5	1237.7	1310.7	1407.9	1456.5	1526.7	1667.1	1772.4	1787.8
147.5°	1209.0	1241.1	1273.3	1281.3	1339.7	1417.6	1456.5	1511.7	1622.2	1705.1	1717.8
150°	1238.7	1267.7	1296.8	1304.1	1354.8	1422.6	1456.5	1503.1	1596.5	1666.5	1676.8
152.5°	1269.3	1291.3	1313.3	1318.9	1364.8	1425.9	1456.5	1496.3	1576.0	1635.8	1643.6
155°	1315.0	1331.2	1347.5	1351.6	1386.6	1433.1	1456.5	1488.2	1551.6	1599.1	1604.3
157.5°	1348.6	1364.4	1380.3	1384.2	1408.3	1440.4	1456.5	1481.1	1530.4	1567.4	1571.0
160°	1371.4	1383.7	1396.0	1399.1	1418.2	1443.8	1456.5	1477.6	1519.9	1551.5	1553.6
162.5°	1394.1	1403.3	1412.6	1414.9	1428.7	1447.2	1456.5	1474.3	1509.9	1536.7	1538.7
165°	1418.9	1427.3	1435.6	1437.7	1443.9	1452.3	1456.5	1469.3	1494.8	1513.9	1516.0
167.5°	1441.7	1445.6	1449.6	1450.5	1455.8	1462.9	1466.4	1474.7	1491.5	1504.0	1504.9
170°	1456.5	1460.5	1464.5	1465.5	1465.7	1466.2	1466.4	1474.7	1491.5	1504.0	1504.0
172.5°	1464.4	1465.3	1466.2	1466.4	1466.4	1466.4	1466.4	1473.0	1486.2	1496.2	1495.4
175°	1475.3	1475.3	1475.3	1475.3	1472.3	1468.4	1466.4	1470.6	1478.9	1485.3	1485.3
177.5°	1475.3	1475.3	1475.3	1475.3	1473.0	1470.0	1468.4	1471.7	1478.3	1483.2	1482.4
180°	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	594.8	594.8
2.5°	634.9	631.1
5°	816.6	820.4
7.5°	1099.7	1097.8
10°	1367.5	1384.7
12.5°	1562.5	1566.3
15°	1681.1	1688.7
17.5°	1727.0	1728.9
20°	1728.9	1725.1
22.5°	1707.9	1704.0
25°	1683.0	1681.1
27.5°	1660.0	1662.0
30°	1650.5	1656.2
32.5°	1650.5	1660.0
35°	1654.3	1663.9
37.5°	1652.4	1663.9
40°	1644.7	1658.1
42.5°	1623.7	1633.3
45°	1591.2	1602.7
47.5°	1549.1	1556.8
50°	1495.6	1503.2
52.5°	1428.6	1430.6
55°	1348.3	1356.0
57.5°	1262.3	1264.2
60°	1166.7	1172.4
62.5°	1065.2	1065.2
65°	958.1	961.9
67.5°	847.2	856.7
70°	734.4	736.3
72.5°	623.4	623.4
75°	508.7	510.6
77.5°	399.7	399.7
80°	296.4	298.3
82.5°	204.6	208.5
85°	128.1	128.1
87.5°	59.3	53.5
90°	37.6	37.6
92.5°	150.7	120.8
95°	525.3	434.7
97.5°	1258.7	1086.2
100°	1813.5	1608.0
102.5°	2359.3	2183.3
105°	3055.1	2960.6
107.5°	3510.9	3533.8
110°	3684.8	3783.4



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	3700.3	3851.6
115°	3602.2	3812.1
117.5°	3394.1	3626.9
120°	3226.5	3452.6
122.5°	3063.3	3286.3
125°	2830.3	3035.8
127.5°	2620.8	2794.2
130°	2497.4	2657.5
132.5°	2385.4	2528.8
135°	2231.9	2355.6
137.5°	2108.8	2210.0
140°	2024.4	2118.9
142.5°	1954.3	2035.7
145°	1849.4	1911.0
147.5°	1768.9	1819.9
150°	1718.2	1759.5
152.5°	1674.8	1706.0
155°	1625.0	1645.6
157.5°	1585.6	1600.1
160°	1561.9	1570.4
162.5°	1546.6	1554.6
165°	1524.4	1532.8
167.5°	1508.4	1511.9
170°	1504.0	1504.0
172.5°	1492.2	1489.2
175°	1485.3	1485.3
177.5°	1478.8	1475.3
180°	1475.3	1475.3



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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	2.67	3.42	3.76	4.51	6.00	15.85	16.59	16.94	17.69	19.18
	3H	3.37	4.03	4.46	5.13	6.65	17.68	18.35	18.78	19.45	20.96
	4H	3.66	4.29	4.77	5.39	6.92	18.32	18.95	19.43	20.05	21.58
	6H	3.90	4.49	5.02	5.59	7.12	18.74	19.33	19.86	20.43	21.97
	8H	3.97	4.52	5.09	5.64	7.17	18.86	19.42	19.98	20.54	22.06
	12H	3.98	4.51	5.11	5.62	7.17	18.92	19.45	20.05	20.57	22.12
4H	2H	9.87	10.51	10.99	11.61	13.13	16.11	16.74	17.22	17.84	19.37
	3H	11.43	11.96	12.55	13.09	14.62	18.14	18.67	19.26	19.80	21.34
	4H	11.52	12.01	12.64	13.12	14.68	18.90	19.39	20.03	20.51	22.06
	6H	11.52	11.94	12.65	13.08	14.63	19.44	19.86	20.57	21.00	22.54
	8H	11.49	11.89	12.63	13.02	14.58	19.60	19.99	20.73	21.12	22.68
	12H	11.44	11.80	12.59	12.94	14.51	19.68	20.04	20.83	21.18	22.75
8H	4H	12.95	13.34	14.08	14.47	16.04	18.95	19.35	20.09	20.48	22.04
	6H	13.19	13.51	14.34	14.69	16.24	19.58	19.90	20.73	21.08	22.64
	8H	13.20	13.49	14.36	14.64	16.22	19.80	20.08	20.96	21.23	22.81
	12H	13.17	13.42	14.33	14.57	16.18	19.94	20.18	21.10	21.33	22.95
12H	4H	13.09	13.44	14.24	14.59	16.16	18.90	19.26	20.05	20.40	21.97
	6H	13.45	13.73	14.60	14.88	16.46	19.56	19.84	20.72	21.00	22.58
	8H	13.51	13.76	14.67	14.91	16.52	19.78	20.03	20.95	21.18	22.80