

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P243271

Luminaire Tested: S122RDRP-H1005D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-68)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-H1005D930-X4F0-XX-UDD-A-W
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

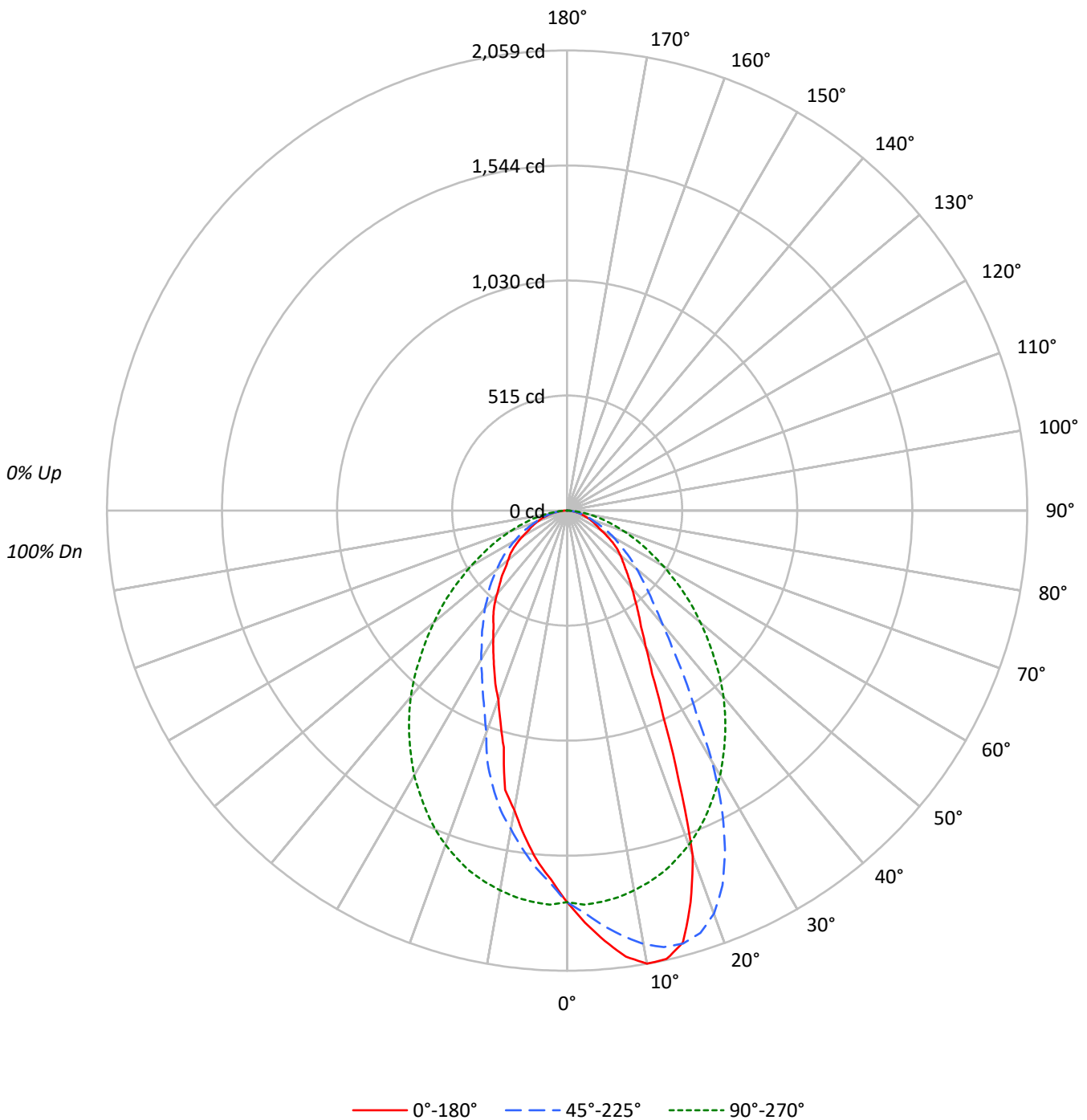
Lumens per Lamp: N/A
Luminaire Lumens: 2953.4 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 1.17 / 0.99
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 37.7
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

TEST NUMBER: P243271

CATALOG NUMBER: S122RDRP-H1005D930-X4F0-XX-UDD-A-W

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	110	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89				87	
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78				76	
3	94	85	78	72	92	84	77	72	81	75	70	78	73	69	76	72	68				66	
4	87	77	69	63	85	76	68	63	73	67	62	71	65	61	69	64	60				58	
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54				52	
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49				47	
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44				42	
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40				38	
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	46	41	37				35	
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34				33	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	33379	33379	33379	33379	33379
5°	36950	35656	33606	30667	29998
10°	39817	38087	33372	28005	26308
15°	39465	39544	32985	25261	21621
20°	33290	38915	32256	21456	18249
25°	21404	35119	31263	18776	16246
30°	15462	28478	30106	16914	14554
35°	12880	21321	28655	15440	13387
40°	11179	16525	27063	14245	12119
45°	9978	13841	25038	13253	11090
50°	9210	12049	23057	12167	10197
55°	8266	10398	21061	11351	9710
60°	6598	9154	18960	10312	8739
65°	6048	7779	17032	9460	8063
70°	5558	6421	15042	8398	7663
75°	5063	5740	13166	7978	7256
80°	4399	5035	10947	7294	6790
85°	3519	4131	8764	6644	6272

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 75°
 Vertical Angle: 45°
 Luminance: 33149 cd/sqm



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CATALOG NUMBER: S122RDRP-H1005D930-X4F0-XX-UDD-A-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.9	5.6
10°-20°	453.9	15.4
20°-30°	572.1	19.4
30°-40°	549.2	18.6
40°-50°	473.0	16.0
50°-60°	361.7	12.2
60°-70°	230.1	7.8
70°-80°	116.6	3.9
80°-90°	30.8	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1191.9	40.4
0°-40°	1741.1	59.0
0°-60°	2575.8	87.2
0°-90°	2953.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2953.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1752	1752	1752	1752	1752	
5°	1932	1865	1758	1604	1569	188
15°	2001	2005	1673	1281	1096	543
25°	1018	1671	1488	893	773	487
35°	554	917	1232	664	576	349
45°	370	514	930	492	412	288
55°	249	313	634	342	292	220
65°	134	173	378	210	179	134
75°	69	78	179	108	99	73
85°	16	19	40	30	29	19
90°	0	0	0	0	0	



TEST NUMBER: P243271

CATALOG NUMBER: S122RDRP-H1005D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1752.4	1752.4	1752.4	1752.4	1752.4	1752.4	1752.4	1752.4	1752.4	1752.4	1752.4
2.5°	1845.3	1847.6	1848.7	1845.9	1839.6	1840.1	1834.4	1824.6	1812.6	1801.7	1808.0
5°	1932.5	1935.3	1934.7	1929.6	1923.3	1917.5	1907.8	1894.0	1879.7	1864.8	1861.9
7.5°	2012.7	2019.0	2017.3	2007.6	2003.0	1995.0	1978.3	1962.8	1941.1	1919.8	1911.2
10°	2058.6	2063.8	2060.9	2058.6	2053.4	2045.4	2030.5	2015.6	1991.5	1969.2	1956.5
12.5°	2055.2	2059.8	2062.0	2064.3	2062.6	2059.8	2053.4	2040.8	2021.3	2000.7	1984.6
15°	2001.3	1993.8	1988.6	2003.0	2008.1	2027.6	2032.2	2033.9	2020.8	2005.3	2001.3
17.5°	1837.3	1839.6	1879.1	1872.8	1881.4	1929.0	1947.9	1973.7	1984.6	1981.2	1988.1
20°	1642.3	1615.3	1634.8	1663.5	1690.5	1759.8	1805.7	1846.4	1893.5	1919.8	1945.1
22.5°	1302.8	1303.4	1350.4	1397.4	1458.2	1533.3	1603.3	1681.3	1765.0	1816.0	1875.1
25°	1018.4	1045.9	1066.6	1087.2	1175.5	1247.8	1364.2	1458.8	1574.1	1671.0	1770.2
27.5°	823.4	852.1	855.6	902.0	954.2	1012.7	1088.9	1238.0	1356.2	1498.4	1621.1
30°	703.0	708.8	720.8	732.8	771.3	825.7	907.7	1001.2	1132.5	1294.8	1459.4
32.5°	615.9	614.7	626.8	645.7	666.9	703.6	750.0	827.5	946.2	1075.2	1267.3
35°	553.9	552.2	560.8	567.7	580.3	610.1	652.0	703.0	788.5	916.9	1066.0
37.5°	495.4	498.9	504.0	511.5	528.1	547.1	575.1	617.6	685.2	770.1	912.9
40°	449.6	453.6	459.3	464.5	477.1	492.6	511.5	545.3	590.6	664.6	774.1
42.5°	408.3	410.0	414.6	422.0	431.2	445.0	463.3	489.1	527.0	578.6	674.4
45°	370.4	370.4	375.6	382.5	388.2	401.4	415.7	440.4	469.6	513.8	582.0
47.5°	338.3	338.9	341.8	342.9	349.2	361.3	376.7	396.2	420.3	454.2	517.8
50°	310.8	313.1	314.2	316.0	318.3	324.6	335.5	350.4	376.7	406.6	449.0
52.5°	282.1	285.0	287.3	290.7	294.2	294.7	302.8	312.5	330.9	361.8	396.2
55°	248.9	251.2	255.7	258.6	263.2	267.2	273.5	280.4	292.4	313.1	348.6
57.5°	211.0	211.6	216.2	219.0	228.2	237.4	243.1	250.6	259.2	273.5	300.5
60°	173.2	174.9	175.5	177.8	185.8	195.5	207.0	218.5	227.7	240.3	259.2
62.5°	152.5	153.1	154.8	157.1	157.7	162.3	165.7	179.5	195.5	208.2	220.8
65°	134.2	134.8	134.8	136.5	138.8	141.1	142.8	147.9	154.8	172.6	188.1
67.5°	117.0	116.4	117.6	119.3	119.8	121.6	124.4	127.3	131.9	137.0	153.1
70°	99.8	99.8	99.2	100.9	102.6	103.2	104.9	107.8	110.7	115.3	120.4
72.5°	82.6	83.7	83.7	84.9	85.4	87.7	88.9	90.0	94.0	96.3	100.3
75°	68.8	68.2	70.0	69.4	70.5	71.1	72.8	74.5	75.7	78.0	81.4
77.5°	55.0	53.9	55.0	54.5	55.6	56.8	56.8	58.5	59.6	61.9	63.7
80°	40.1	40.1	40.7	41.9	41.9	42.4	43.6	43.0	45.3	45.9	47.6
82.5°	27.5	28.1	28.1	28.7	28.7	28.7	29.8	29.8	30.4	31.5	32.1
85°	16.1	15.5	16.1	16.1	16.1	16.6	17.2	16.6	17.8	18.9	18.9
87.5°	4.6	4.6	5.2	5.7	5.7	6.3	6.3	6.3	6.9	6.9	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P243271

CATALOG NUMBER: S122RDRP-H1005D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1752.4	1752.4	1752.4	1752.4	1752.4	1752.4	1752.4	1752.4	1752.4	1752.4	1752.4
2.5°	1808.0	1805.2	1797.7	1790.8	1778.2	1767.9	1764.4	1765.0	1749.5	1733.5	1728.9
5°	1857.9	1847.6	1832.7	1817.2	1798.3	1779.3	1767.3	1757.6	1733.5	1709.4	1695.6
7.5°	1899.2	1882.6	1860.8	1836.1	1811.5	1783.4	1763.9	1745.5	1712.3	1679.6	1661.8
10°	1937.0	1913.5	1883.7	1851.6	1818.9	1782.2	1754.1	1725.4	1683.6	1646.9	1616.5
12.5°	1973.2	1935.9	1905.5	1859.1	1822.9	1773.0	1734.6	1701.4	1652.0	1606.2	1572.3
15°	1976.6	1950.2	1909.5	1861.3	1806.3	1759.8	1711.7	1672.7	1616.5	1565.5	1507.5
17.5°	1976.0	1955.4	1913.0	1863.6	1797.7	1736.9	1684.7	1633.7	1569.5	1509.8	1459.9
20°	1955.4	1941.1	1904.4	1845.9	1779.3	1709.4	1651.5	1591.3	1516.1	1454.8	1400.3
22.5°	1906.6	1910.1	1881.4	1829.2	1757.6	1679.6	1612.5	1543.1	1466.3	1395.7	1326.9
25°	1824.1	1860.8	1852.2	1803.4	1727.2	1641.7	1565.5	1487.5	1404.9	1329.8	1266.1
27.5°	1721.4	1790.2	1805.2	1767.3	1694.5	1598.7	1512.1	1427.3	1343.0	1262.1	1196.7
30°	1599.9	1702.5	1740.4	1719.7	1652.6	1552.3	1451.9	1368.8	1276.5	1190.4	1121.6
32.5°	1446.8	1590.7	1657.2	1663.5	1608.5	1500.7	1389.4	1300.0	1205.3	1123.9	1049.9
35°	1275.9	1452.5	1560.9	1590.1	1550.5	1443.9	1326.9	1232.3	1131.4	1049.4	974.8
37.5°	1103.8	1311.4	1453.6	1510.4	1484.0	1380.8	1257.0	1161.2	1061.4	977.7	907.7
40°	945.6	1142.8	1327.5	1416.4	1408.3	1312.6	1187.6	1088.4	986.9	909.5	832.6
42.5°	803.9	994.3	1197.3	1316.6	1322.9	1239.2	1111.3	1011.5	914.0	837.2	756.9
45°	692.1	859.6	1060.8	1203.1	1230.6	1161.8	1032.2	929.5	840.6	768.4	688.1
47.5°	602.7	732.8	919.8	1086.6	1135.4	1075.2	951.3	853.8	770.1	708.2	632.5
50°	525.3	647.4	806.2	960.5	1032.2	986.9	871.0	778.1	702.4	642.8	576.3
52.5°	456.4	551.1	688.7	836.6	933.0	891.7	793.1	707.6	636.5	580.9	525.3
55°	399.7	478.8	600.4	732.3	821.1	798.2	710.5	634.2	571.7	519.0	473.7
57.5°	341.2	407.7	505.8	623.3	710.5	707.0	634.8	561.4	512.1	462.2	429.5
60°	290.2	344.1	423.8	523.5	611.3	611.8	555.7	497.7	455.3	412.3	381.3
62.5°	244.9	287.9	357.2	437.5	507.5	525.3	483.4	432.9	398.5	365.3	338.9
65°	205.9	238.0	290.2	363.0	418.0	442.1	414.6	377.9	349.2	319.4	295.9
67.5°	169.7	193.2	231.7	289.0	344.1	361.8	350.4	322.3	301.6	277.0	259.2
70°	133.6	153.7	180.6	223.6	268.9	293.6	290.2	270.1	252.9	235.1	218.5
72.5°	106.1	117.6	138.2	169.2	205.3	232.8	234.0	223.6	209.3	194.4	183.5
75°	85.4	90.6	100.3	124.4	153.1	176.0	184.1	178.9	167.4	158.3	150.8
77.5°	65.9	70.5	76.8	88.3	110.7	128.4	138.2	138.8	131.9	123.9	118.1
80°	49.3	51.0	55.6	61.4	72.8	88.3	99.8	99.8	95.8	91.7	88.3
82.5°	33.8	35.6	37.8	40.7	46.4	55.6	65.9	67.7	65.4	64.2	59.6
85°	18.9	20.6	21.8	23.5	25.8	30.4	37.8	40.1	40.7	37.3	35.0
87.5°	7.5	7.5	8.0	8.6	9.2	10.9	13.8	17.2	17.2	15.5	14.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: S122RDRP-H1005D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1752.4	1752.4	1752.4	1752.4	1752.4	1752.4	1752.4	1752.4	1752.4	1752.4	1752.4
2.5°	1723.2	1715.1	1704.8	1695.6	1683.0	1670.4	1668.1	1672.7	1673.8	1668.1	1669.8
5°	1682.4	1667.5	1654.9	1634.3	1621.1	1603.9	1592.4	1592.4	1592.4	1583.8	1575.8
7.5°	1640.0	1619.9	1595.8	1576.4	1549.4	1527.0	1516.1	1511.0	1500.7	1492.1	1482.3
10°	1590.7	1562.6	1532.8	1502.4	1478.9	1447.9	1429.6	1418.1	1400.3	1392.9	1378.5
12.5°	1532.8	1504.7	1468.5	1419.2	1412.4	1374.5	1348.7	1327.5	1305.7	1287.9	1281.6
15°	1486.3	1437.6	1389.4	1354.4	1303.4	1281.0	1243.2	1239.8	1222.0	1169.8	1129.1
17.5°	1411.2	1367.6	1314.3	1275.3	1234.6	1184.7	1144.6	1105.0	1067.1	1030.4	1029.3
20°	1344.7	1293.7	1243.2	1200.8	1129.7	1058.5	1033.9	997.8	975.4	946.2	937.6
22.5°	1271.9	1218.5	1155.5	1093.5	1010.4	965.7	938.7	910.0	887.7	874.5	861.3
25°	1198.5	1145.1	1061.4	985.1	928.4	893.4	870.5	839.5	823.4	812.0	794.8
27.5°	1126.8	1059.1	970.8	910.0	864.2	824.6	803.9	778.7	760.9	746.0	735.1
30°	1055.7	962.8	887.7	840.6	793.6	769.0	742.0	723.1	709.9	696.1	678.4
32.5°	977.7	880.2	831.5	773.6	746.0	710.5	691.0	671.5	654.3	644.5	638.2
35°	887.1	808.5	765.0	722.5	687.5	664.0	636.5	624.5	615.3	596.4	588.3
37.5°	810.3	753.5	707.6	669.8	637.7	612.4	599.8	579.2	566.0	559.7	551.1
40°	746.6	696.1	656.6	618.2	591.2	572.9	550.5	539.6	522.4	516.1	509.2
42.5°	691.6	645.1	603.8	574.6	551.1	525.8	514.4	496.0	488.6	473.1	467.3
45°	635.9	594.6	558.5	529.8	507.5	492.0	471.4	459.9	446.7	438.7	423.2
47.5°	580.3	543.6	513.8	489.7	470.2	451.3	434.1	424.3	407.7	399.1	391.1
50°	537.3	501.7	473.7	449.6	429.5	410.6	399.7	383.6	368.7	359.0	356.1
52.5°	486.3	455.3	429.5	411.1	391.1	377.3	362.4	344.6	337.2	327.4	325.1
55°	441.0	415.7	393.9	374.4	357.2	341.8	324.6	311.9	306.2	301.6	298.2
57.5°	398.5	374.4	354.4	336.6	321.7	305.6	291.3	283.8	278.7	273.5	270.1
60°	356.7	334.9	316.5	301.6	286.1	270.7	260.3	254.0	250.0	242.6	240.3
62.5°	319.4	299.3	280.4	266.6	252.3	240.3	231.7	223.1	216.8	211.0	199.0
65°	278.7	260.9	246.6	232.8	219.0	209.9	200.1	190.4	182.4	182.4	182.4
67.5°	242.6	227.1	212.2	200.1	188.1	177.2	167.4	166.9	164.0	162.9	161.1
70°	205.9	195.0	181.2	168.0	156.0	150.8	149.1	146.2	142.8	142.2	139.9
72.5°	172.6	160.0	147.4	135.9	133.6	131.3	127.9	125.0	122.7	121.0	119.8
75°	141.1	128.4	118.1	115.3	112.4	108.4	105.5	103.2	102.1	102.1	101.5
77.5°	107.8	100.3	95.8	91.2	88.9	86.6	84.9	83.7	82.0	82.6	81.4
80°	79.1	76.8	72.8	70.0	68.8	66.5	65.4	64.8	63.7	63.7	63.1
82.5°	56.8	52.8	51.0	49.3	48.2	47.0	47.6	47.0	46.4	45.9	46.4
85°	32.7	32.1	31.0	31.0	31.0	30.4	30.4	30.4	29.8	29.2	29.2
87.5°	14.3	14.9	14.9	13.8	15.5	15.5	14.9	14.9	14.3	15.5	14.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P243271

CATALOG NUMBER: S122RDRP-H1005D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1752.4	1752.4	1752.4	1752.4
2.5°	1662.4	1661.8	1658.4	1652.6
5°	1572.3	1570.0	1564.3	1568.9
7.5°	1476.0	1469.7	1464.0	1466.8
10°	1372.8	1370.5	1367.1	1360.2
12.5°	1258.7	1267.8	1258.1	1279.9
15°	1089.5	1130.2	1079.2	1096.4
17.5°	1005.2	1005.8	998.9	990.9
20°	926.1	906.0	913.5	900.3
22.5°	849.8	845.2	842.9	838.4
25°	781.6	773.0	770.1	773.0
27.5°	731.1	727.1	716.2	714.5
30°	668.0	666.3	662.9	661.7
32.5°	628.5	621.0	619.3	612.4
35°	584.3	580.3	577.4	575.7
37.5°	540.2	537.9	532.7	535.6
40°	504.0	492.6	488.0	487.4
42.5°	464.5	458.2	449.0	446.1
45°	418.6	415.7	412.9	411.7
47.5°	378.5	376.7	373.3	371.6
50°	349.8	345.2	344.6	344.1
52.5°	322.3	320.5	318.8	321.1
55°	296.5	294.2	292.4	292.4
57.5°	268.4	264.4	260.9	261.5
60°	235.7	233.4	230.5	229.4
62.5°	197.8	197.8	197.3	197.3
65°	180.1	178.9	178.3	178.9
67.5°	160.6	159.4	157.7	158.3
70°	138.2	137.6	138.2	137.6
72.5°	118.1	117.6	118.1	119.3
75°	99.8	99.2	98.6	98.6
77.5°	80.9	80.3	79.1	80.3
80°	63.1	62.5	61.9	61.9
82.5°	44.7	45.3	44.7	44.7
85°	29.2	29.8	29.2	28.7
87.5°	14.9	15.5	14.3	13.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243271
 CATALOG NUMBER: S122RDRP-H1005D930-X4F0-XX-UDD-A-W

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	17.03	18.48	17.39	18.80	19.11	23.36	24.82	23.72	25.13	25.44
	3H	18.20	19.50	18.58	19.83	20.20	24.61	25.91	24.99	26.24	26.61
	4H	18.66	19.88	19.06	20.23	20.61	25.04	26.26	25.44	26.61	26.99
	6H	18.99	20.11	19.40	20.48	20.87	25.34	26.46	25.75	26.83	27.22
	8H	19.09	20.16	19.51	20.55	20.95	25.42	26.49	25.85	26.88	27.29
	12H	19.14	20.16	19.57	20.55	20.98	25.47	26.50	25.90	26.88	27.31
4H	2H	17.75	18.97	18.15	19.32	19.70	23.34	24.56	23.74	24.91	25.29
	3H	19.08	20.09	19.49	20.49	20.89	24.73	25.74	25.14	26.14	26.54
	4H	19.63	20.54	20.06	20.96	21.40	25.26	26.16	25.69	26.58	27.02
	6H	20.06	20.85	20.52	21.29	21.76	25.67	26.46	26.13	26.91	27.37
	8H	20.19	20.93	20.66	21.37	21.84	25.80	26.54	26.27	26.99	27.45
	12H	20.27	20.93	20.76	21.41	21.88	25.90	26.55	26.38	27.03	27.51
8H	4H	19.98	20.71	20.44	21.16	21.63	25.25	25.99	25.72	26.44	26.90
	6H	20.50	21.11	21.00	21.60	22.08	25.72	26.32	26.22	26.82	27.30
	8H	20.69	21.23	21.20	21.74	22.23	25.89	26.43	26.41	26.94	27.43
	12H	20.82	21.30	21.33	21.79	22.36	26.03	26.51	26.54	27.00	27.57
12H	4H	20.02	20.68	20.50	21.15	21.63	25.23	25.89	25.72	26.37	26.84
	6H	20.56	21.11	21.08	21.62	22.11	25.70	26.24	26.21	26.75	27.24
	8H	20.80	21.28	21.31	21.77	22.34	25.90	26.38	26.41	26.87	27.44