

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: P243255

Luminaire Tested: S122RDRP-H865D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243255
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-H865D830-X4F0-XX-UDD-A-W
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

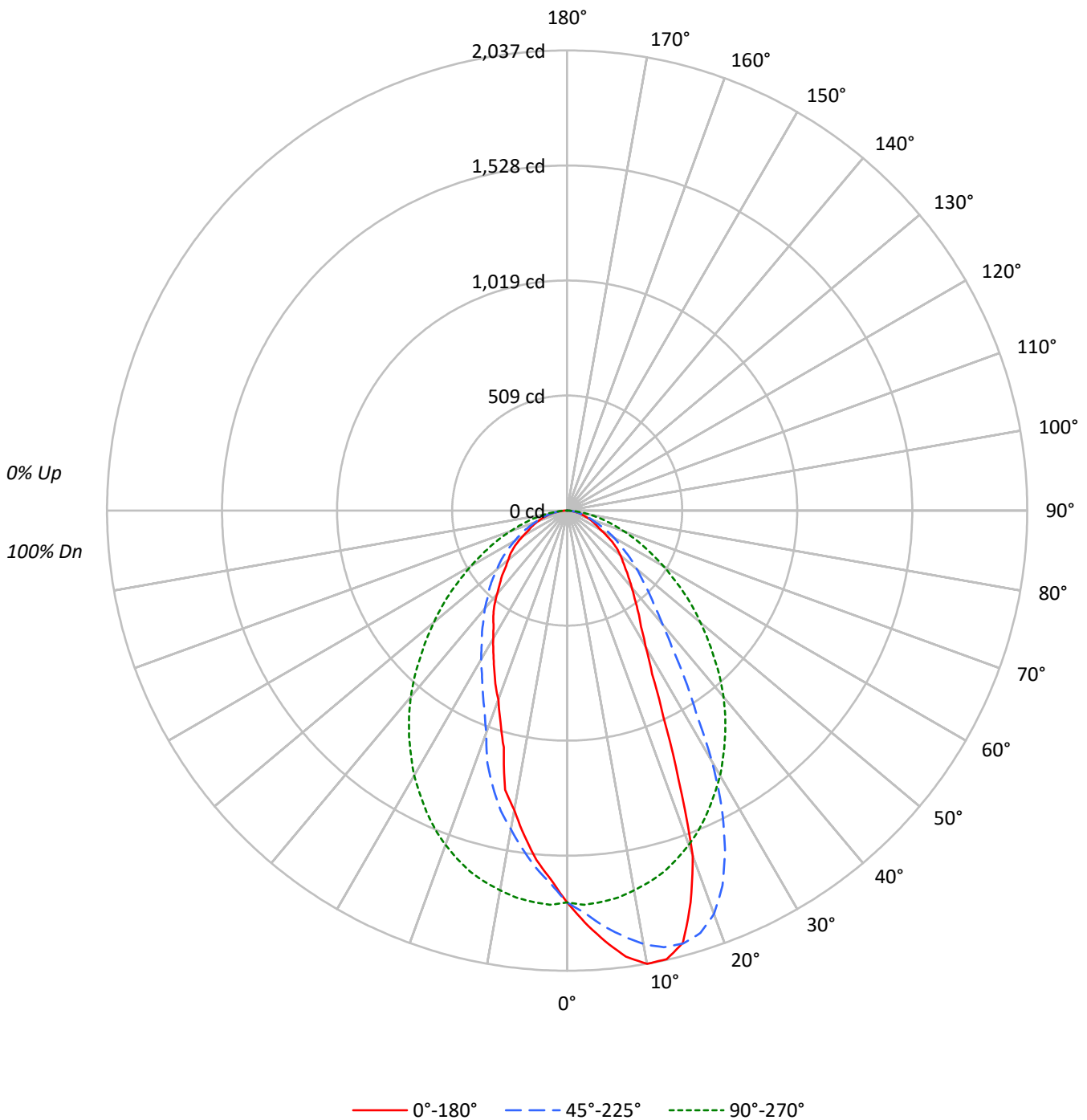
Lumens per Lamp: N/A
Luminaire Lumens: 2922.7 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 1.17 / 0.99
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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: P243255

CATALOG NUMBER: S122RDRP-H865D830-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot



TEST NUMBER: P243255

CATALOG NUMBER: S122RDRP-H865D830-X4F0-XX-UDD-A-W

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	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°	33033	33033	33033	33033	33033
5°	36566	35285	33256	30348	29686
10°	39403	37691	33026	27715	26036
15°	39055	39134	32642	24999	21396
20°	32945	38511	31921	21235	18059
25°	21181	34753	30937	18581	16078
30°	15302	28184	29794	16738	14404
35°	12747	21100	28357	15280	13247
40°	11062	16354	26782	14096	11995
45°	9875	13698	24780	13116	10974
50°	9115	11921	22820	12040	10090
55°	8179	10288	20842	11231	9611
60°	6530	9059	18766	10202	8648
65°	5985	7698	16856	9361	7982
70°	5497	6354	14886	8309	7585
75°	5012	5682	13034	7897	7183
80°	4355	4980	10827	7218	6724
85°	3475	4087	8676	6578	6207

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 75°
 Vertical Angle: 45°
 Luminance: 32805 cd/sqm



TEST NUMBER: P243255

CATALOG NUMBER: S122RDRP-H865D830-X4F0-XX-UDD-A-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	5.6
10°-20°	449.2	15.4
20°-30°	566.2	19.4
30°-40°	543.5	18.6
40°-50°	468.1	16.0
50°-60°	357.9	12.2
60°-70°	227.7	7.8
70°-80°	115.4	3.9
80°-90°	30.5	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°	1179.5	40.4
0°-40°	1723.0	59.0
0°-60°	2549.1	87.2
0°-90°	2922.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2922.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1734	1734	1734	1734	1734	
5°	1912	1845	1739	1587	1553	186
15°	1980	1984	1655	1268	1085	537
25°	1008	1654	1472	884	765	482
35°	548	907	1220	657	570	345
45°	367	508	920	487	407	285
55°	246	310	628	338	289	217
65°	133	171	374	208	177	132
75°	68	77	177	107	98	72
85°	16	19	40	30	28	18
90°	0	0	0	0	0	



TEST NUMBER: P243255

CATALOG NUMBER: S122RDRP-H865D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2
2.5°	1826.1	1828.4	1829.5	1826.7	1820.5	1821.0	1815.4	1805.7	1793.8	1783.0	1789.3
5°	1912.4	1915.2	1914.7	1909.6	1903.3	1897.6	1888.0	1874.4	1860.2	1845.4	1842.6
7.5°	1991.8	1998.1	1996.4	1986.7	1982.2	1974.3	1957.8	1942.5	1920.9	1899.9	1891.4
10°	2037.2	2042.4	2039.5	2037.2	2032.1	2024.2	2009.4	1994.7	1970.9	1948.7	1936.2
12.5°	2033.8	2038.4	2040.7	2042.9	2041.2	2038.4	2032.1	2019.7	2000.4	1979.9	1964.0
15°	1980.5	1973.1	1968.0	1982.2	1987.3	2006.6	2011.1	2012.8	1999.8	1984.5	1980.5
17.5°	1818.2	1820.5	1859.6	1853.4	1861.9	1909.0	1927.7	1953.3	1964.0	1960.6	1967.4
20°	1625.3	1598.6	1617.9	1646.3	1672.9	1741.6	1787.0	1827.3	1873.8	1899.9	1924.9
22.5°	1289.3	1289.9	1336.4	1382.9	1443.1	1517.4	1586.7	1663.8	1746.7	1797.2	1855.7
25°	1007.8	1035.1	1055.5	1075.9	1163.3	1234.8	1350.0	1443.7	1557.7	1653.6	1751.8
27.5°	814.9	843.3	846.7	892.6	944.3	1002.2	1077.6	1225.2	1342.1	1482.8	1604.3
30°	695.7	701.4	713.3	725.2	763.3	817.2	898.3	990.8	1120.8	1281.4	1444.2
32.5°	609.5	608.3	620.3	639.0	660.0	696.3	742.3	818.9	936.3	1064.0	1254.1
35°	548.2	546.5	555.0	561.8	574.3	603.8	645.2	695.7	780.3	907.4	1054.9
37.5°	490.3	493.7	498.8	506.2	522.6	541.4	569.2	611.2	678.1	762.1	903.4
40°	444.9	448.9	454.5	459.7	472.1	487.5	506.2	539.7	584.5	657.7	766.1
42.5°	404.0	405.7	410.3	417.7	426.7	440.4	458.5	484.1	521.5	572.6	667.4
45°	366.6	366.6	371.7	378.5	384.2	397.2	411.4	435.8	464.8	508.5	576.0
47.5°	334.8	335.4	338.2	339.4	345.6	357.5	372.8	392.1	416.0	449.4	512.4
50°	307.6	309.8	311.0	312.7	315.0	321.2	332.0	346.7	372.8	402.3	444.3
52.5°	279.2	282.0	284.3	287.7	291.1	291.7	299.6	309.3	327.4	358.1	392.1
55°	246.3	248.6	253.1	255.9	260.5	264.4	270.7	277.5	289.4	309.8	345.0
57.5°	208.8	209.4	213.9	216.8	225.9	234.9	240.6	248.0	256.5	270.7	297.4
60°	171.4	173.1	173.6	175.9	183.9	193.5	204.9	216.2	225.3	237.8	256.5
62.5°	150.9	151.5	153.2	155.5	156.1	160.6	164.0	177.6	193.5	206.0	218.5
65°	132.8	133.4	133.4	135.1	137.3	139.6	141.3	146.4	153.2	170.8	186.1
67.5°	115.8	115.2	116.3	118.0	118.6	120.3	123.1	126.0	130.5	135.6	151.5
70°	98.7	98.7	98.2	99.9	101.6	102.1	103.8	106.7	109.5	114.1	119.2
72.5°	81.7	82.9	82.9	84.0	84.6	86.8	88.0	89.1	93.1	95.3	99.3
75°	68.1	67.5	69.2	68.7	69.8	70.4	72.1	73.8	74.9	77.2	80.6
77.5°	54.5	53.3	54.5	53.9	55.0	56.2	56.2	57.9	59.0	61.3	63.0
80°	39.7	39.7	40.3	41.4	41.4	42.0	43.1	42.6	44.8	45.4	47.1
82.5°	27.2	27.8	27.8	28.4	28.4	28.4	29.5	29.5	30.1	31.2	31.8
85°	15.9	15.3	15.9	15.9	15.9	16.5	17.0	16.5	17.6	18.7	18.7
87.5°	4.5	4.5	5.1	5.7	5.7	6.2	6.2	6.2	6.8	6.8	7.4
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: P243255

CATALOG NUMBER: S122RDRP-H865D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2
2.5°	1789.3	1786.4	1779.0	1772.2	1759.7	1749.5	1746.1	1746.7	1731.4	1715.5	1710.9
5°	1838.6	1828.4	1813.7	1798.3	1779.6	1760.9	1749.0	1739.3	1715.5	1691.7	1678.0
7.5°	1879.5	1863.0	1841.5	1817.1	1792.7	1764.9	1745.6	1727.4	1694.5	1662.1	1644.6
10°	1916.9	1893.7	1864.2	1832.4	1800.0	1763.7	1735.9	1707.5	1666.1	1629.8	1599.7
12.5°	1952.7	1915.8	1885.7	1839.8	1804.0	1754.6	1716.6	1683.7	1634.9	1589.5	1556.0
15°	1956.1	1930.0	1889.7	1842.0	1787.6	1741.6	1693.9	1655.3	1599.7	1549.2	1491.9
17.5°	1955.5	1935.1	1893.1	1844.3	1779.0	1718.9	1667.3	1616.7	1553.2	1494.2	1444.8
20°	1935.1	1920.9	1884.6	1826.7	1760.9	1691.7	1634.3	1574.8	1500.4	1439.7	1385.8
22.5°	1886.9	1890.3	1861.9	1810.3	1739.3	1662.1	1595.7	1527.1	1451.0	1381.2	1313.1
25°	1805.1	1841.5	1833.0	1784.7	1709.2	1624.7	1549.2	1472.0	1390.3	1316.0	1253.0
27.5°	1703.6	1771.7	1786.4	1749.0	1676.9	1582.1	1496.4	1412.5	1329.0	1249.0	1184.3
30°	1583.3	1684.8	1722.3	1701.9	1635.5	1536.2	1436.9	1354.6	1263.2	1178.1	1110.0
32.5°	1431.7	1574.2	1640.0	1646.3	1591.8	1485.1	1375.0	1286.5	1192.8	1112.3	1039.1
35°	1262.6	1437.4	1544.7	1573.6	1534.5	1428.9	1313.1	1219.5	1119.6	1038.5	964.7
37.5°	1092.4	1297.8	1438.6	1494.7	1468.6	1366.5	1243.9	1149.1	1050.4	967.5	898.3
40°	935.8	1131.0	1313.7	1401.7	1393.7	1299.0	1175.2	1077.1	976.6	900.0	824.0
42.5°	795.6	984.0	1184.9	1302.9	1309.2	1226.3	1099.8	1001.0	904.6	828.5	749.1
45°	684.9	850.6	1049.8	1190.6	1217.8	1149.7	1021.5	919.9	831.9	760.4	681.0
47.5°	596.4	725.2	910.2	1075.4	1123.6	1064.0	941.4	845.0	762.1	700.8	625.9
50°	519.8	640.7	797.9	950.5	1021.5	976.6	862.0	770.1	695.2	636.1	570.3
52.5°	451.7	545.3	681.5	828.0	923.3	882.4	784.8	700.3	629.9	574.9	519.8
55°	395.5	473.8	594.1	724.7	812.6	789.9	703.1	627.6	565.8	513.6	468.7
57.5°	337.6	403.5	500.5	616.8	703.1	699.7	628.2	555.6	506.8	457.4	425.0
60°	287.1	340.5	419.4	518.1	604.9	605.5	549.9	492.6	450.6	408.0	377.4
62.5°	242.3	284.9	353.5	433.0	502.2	519.8	478.4	428.4	394.4	361.5	335.4
65°	203.7	235.5	287.1	359.2	413.7	437.5	410.3	374.0	345.6	316.1	292.8
67.5°	168.0	191.2	229.3	286.0	340.5	358.1	346.7	318.9	298.5	274.1	256.5
70°	132.2	152.1	178.8	221.3	266.1	290.5	287.1	267.3	250.3	232.7	216.2
72.5°	105.0	116.3	136.8	167.4	203.2	230.4	231.5	221.3	207.1	192.4	181.6
75°	84.6	89.7	99.3	123.1	151.5	174.2	182.2	177.1	165.7	156.6	149.2
77.5°	65.3	69.8	76.0	87.4	109.5	127.1	136.8	137.3	130.5	122.6	116.9
80°	48.8	50.5	55.0	60.7	72.1	87.4	98.7	98.7	94.8	90.8	87.4
82.5°	33.5	35.2	37.5	40.3	46.0	55.0	65.3	67.0	64.7	63.6	59.0
85°	18.7	20.4	21.6	23.3	25.5	30.1	37.5	39.7	40.3	36.9	34.6
87.5°	7.4	7.4	7.9	8.5	9.1	10.8	13.6	17.0	17.0	15.3	14.8
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: P243255

CATALOG NUMBER: S122RDRP-H865D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2	1734.2
2.5°	1705.3	1697.3	1687.1	1678.0	1665.5	1653.1	1650.8	1655.3	1656.5	1650.8	1652.5
5°	1665.0	1650.2	1637.7	1617.3	1604.3	1587.2	1575.9	1575.9	1575.9	1567.4	1559.4
7.5°	1623.0	1603.1	1579.3	1560.0	1533.3	1511.2	1500.4	1495.3	1485.1	1476.6	1466.9
10°	1574.2	1546.4	1516.9	1486.8	1463.5	1432.9	1414.7	1403.4	1385.8	1378.4	1364.2
12.5°	1516.9	1489.1	1453.3	1404.5	1397.7	1360.2	1334.7	1313.7	1292.1	1274.6	1268.3
15°	1470.9	1422.7	1375.0	1340.4	1289.9	1267.7	1230.3	1226.9	1209.3	1157.7	1117.4
17.5°	1396.6	1353.4	1300.7	1262.1	1221.8	1172.4	1132.7	1093.5	1056.1	1019.8	1018.6
20°	1330.7	1280.2	1230.3	1188.3	1117.9	1047.6	1023.2	987.4	965.3	936.3	927.8
22.5°	1258.7	1205.9	1143.5	1082.2	999.9	955.6	929.0	900.6	878.5	865.4	852.4
25°	1186.0	1133.3	1050.4	974.9	918.7	884.1	861.4	830.8	814.9	803.5	786.5
27.5°	1115.1	1048.1	960.7	900.6	855.2	816.0	795.6	770.6	753.0	738.3	727.5
30°	1044.7	952.8	878.5	831.9	785.4	761.0	734.3	715.6	702.5	688.9	671.3
32.5°	967.5	871.1	822.8	765.5	738.3	703.1	683.8	664.5	647.5	637.8	631.6
35°	877.9	800.1	757.0	715.0	680.4	657.1	629.9	618.0	608.9	590.2	582.2
37.5°	801.8	745.7	700.3	662.8	631.0	606.1	593.6	573.2	560.1	553.9	545.3
40°	738.9	688.9	649.8	611.7	585.1	566.9	544.8	534.0	517.0	510.7	503.9
42.5°	684.4	638.4	597.6	568.6	545.3	520.4	509.0	490.9	483.5	468.2	462.5
45°	629.3	588.5	552.7	524.3	502.2	486.9	466.5	455.1	442.1	434.1	418.8
47.5°	574.3	538.0	508.5	484.6	465.3	446.6	429.6	419.9	403.5	395.0	387.0
50°	531.7	496.5	468.7	444.9	425.0	406.3	395.5	379.6	364.9	355.2	352.4
52.5°	481.2	450.6	425.0	406.9	387.0	373.4	358.6	341.1	333.7	324.0	321.8
55°	436.4	411.4	389.9	370.6	353.5	338.2	321.2	308.7	303.0	298.5	295.1
57.5°	394.4	370.6	350.7	333.1	318.4	302.5	288.3	280.9	275.8	270.7	267.3
60°	353.0	331.4	313.2	298.5	283.2	267.8	257.6	251.4	247.4	240.0	237.8
62.5°	316.1	296.2	277.5	263.9	249.7	237.8	229.3	220.7	214.5	208.8	196.9
65°	275.8	258.2	244.0	230.4	216.8	207.7	198.0	188.4	180.5	180.5	180.5
67.5°	240.0	224.7	210.0	198.0	186.1	175.4	165.7	165.1	162.3	161.2	159.5
70°	203.7	192.9	179.3	166.3	154.4	149.2	147.5	144.7	141.3	140.7	138.5
72.5°	170.8	158.3	145.8	134.5	132.2	130.0	126.5	123.7	121.4	119.7	118.6
75°	139.6	127.1	116.9	114.1	111.2	107.3	104.4	102.1	101.0	101.0	100.4
77.5°	106.7	99.3	94.8	90.2	88.0	85.7	84.0	82.9	81.1	81.7	80.6
80°	78.3	76.0	72.1	69.2	68.1	65.8	64.7	64.1	63.0	63.0	62.4
82.5°	56.2	52.2	50.5	48.8	47.7	46.5	47.1	46.5	46.0	45.4	46.0
85°	32.3	31.8	30.6	30.6	30.6	30.1	30.1	30.1	29.5	28.9	28.9
87.5°	14.2	14.8	14.8	13.6	15.3	15.3	14.8	14.8	14.2	15.3	14.2
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: P243255

CATALOG NUMBER: S122RDRP-H865D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1734.2	1734.2	1734.2	1734.2
2.5°	1645.1	1644.6	1641.1	1635.5
5°	1556.0	1553.8	1548.1	1552.6
7.5°	1460.7	1454.4	1448.8	1451.6
10°	1358.5	1356.3	1352.9	1346.1
12.5°	1245.6	1254.7	1245.0	1266.6
15°	1078.2	1118.5	1068.0	1085.0
17.5°	994.8	995.4	988.5	980.6
20°	916.5	896.6	904.0	890.9
22.5°	841.0	836.5	834.2	829.7
25°	773.5	765.0	762.1	765.0
27.5°	723.5	719.6	708.8	707.1
30°	661.1	659.4	656.0	654.9
32.5°	622.0	614.6	612.9	606.1
35°	578.3	574.3	571.5	569.7
37.5°	534.6	532.3	527.2	530.0
40°	498.8	487.5	482.9	482.4
42.5°	459.7	453.4	444.3	441.5
45°	414.3	411.4	408.6	407.4
47.5°	374.5	372.8	369.4	367.7
50°	346.2	341.6	341.1	340.5
52.5°	318.9	317.2	315.5	317.8
55°	293.4	291.1	289.4	289.4
57.5°	265.6	261.6	258.2	258.8
60°	233.2	231.0	228.1	227.0
62.5°	195.8	195.8	195.2	195.2
65°	178.2	177.1	176.5	177.1
67.5°	158.9	157.8	156.1	156.6
70°	136.8	136.2	136.8	136.2
72.5°	116.9	116.3	116.9	118.0
75°	98.7	98.2	97.6	97.6
77.5°	80.0	79.4	78.3	79.4
80°	62.4	61.9	61.3	61.3
82.5°	44.3	44.8	44.3	44.3
85°	28.9	29.5	28.9	28.4
87.5°	14.8	15.3	14.2	13.6
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243255
 CATALOG NUMBER: S122RDRP-H865D830-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	16.99	18.45	17.36	18.76	19.08	23.32	24.78	23.69	25.09	25.41
	3H	18.16	19.47	18.54	19.80	20.16	24.57	25.88	24.95	26.21	26.57
	4H	18.62	19.84	19.02	20.19	20.57	25.01	26.23	25.41	26.58	26.96
	6H	18.95	20.08	19.37	20.45	20.84	25.30	26.43	25.72	26.80	27.19
	8H	19.05	20.12	19.48	20.51	20.91	25.39	26.46	25.81	26.85	27.25
	12H	19.10	20.13	19.54	20.51	20.94	25.43	26.46	25.87	26.84	27.27
4H	2H	17.72	18.94	18.12	19.29	19.67	23.31	24.53	23.71	24.87	25.25
	3H	19.04	20.05	19.46	20.46	20.86	24.69	25.70	25.10	26.10	26.50
	4H	19.60	20.50	20.03	20.92	21.36	25.22	26.13	25.65	26.54	26.98
	6H	20.03	20.81	20.49	21.26	21.72	25.64	26.43	26.10	26.87	27.33
	8H	20.16	20.89	20.62	21.34	21.81	25.77	26.50	26.23	26.95	27.42
	12H	20.24	20.89	20.72	21.37	21.85	25.86	26.52	26.35	27.00	27.47
8H	4H	19.94	20.68	20.41	21.12	21.59	25.22	25.95	25.68	26.40	26.87
	6H	20.47	21.07	20.96	21.56	22.04	25.68	26.29	26.18	26.78	27.26
	8H	20.65	21.19	21.17	21.71	22.19	25.85	26.40	26.37	26.91	27.40
	12H	20.78	21.26	21.29	21.76	22.32	26.00	26.48	26.51	26.97	27.54
12H	4H	19.98	20.64	20.47	21.12	21.59	25.20	25.85	25.68	26.33	26.80
	6H	20.53	21.07	21.04	21.58	22.07	25.66	26.20	26.18	26.72	27.20
	8H	20.76	21.24	21.27	21.73	22.30	25.87	26.34	26.38	26.84	27.40