

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: P243280

Luminaire Tested: S122RDRP-H865D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243280  
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-H865D940-X4F0-XX-UDD-A-W  
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

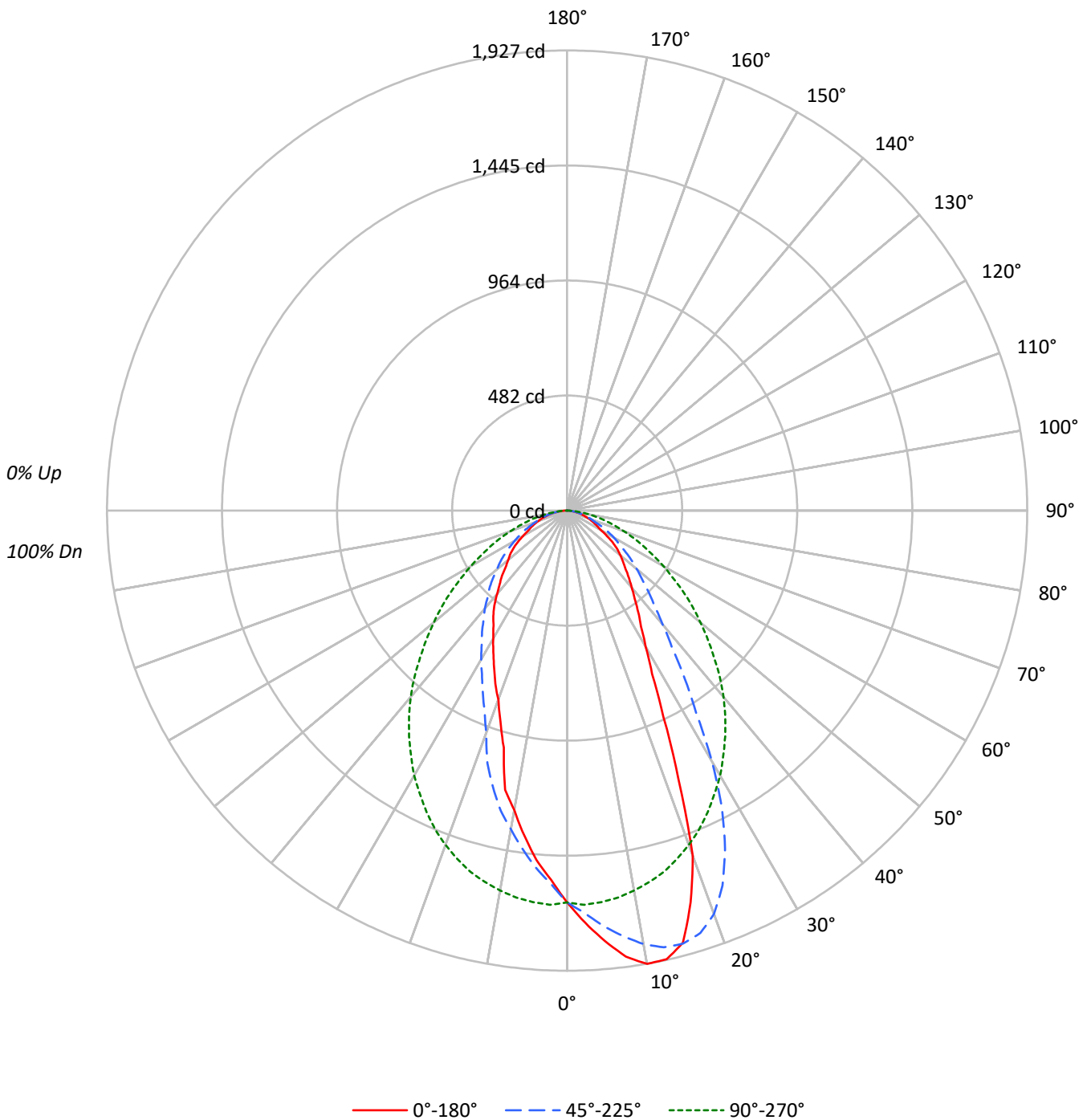
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2765.1 lumens  
Efficiency: N/A  
Efficacy: 87.8 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

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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	31252	31252	31252	31252	31252
5°	34595	33382	31463	28711	28086
10°	37279	35658	31246	26219	24631
15°	36949	37022	30883	23652	20242
20°	31167	36436	30198	20090	17086
25°	20040	32879	29270	17578	15210
30°	14477	26664	28186	15834	13628
35°	12059	19963	26827	14456	12533
40°	10466	15471	25337	13335	11346
45°	9342	12957	23444	12407	10384
50°	8623	11278	21588	11391	9545
55°	7738	9733	19719	10627	9093
60°	6175	8571	17752	9653	8179
65°	5661	7283	15946	8856	7549
70°	5202	6009	14084	7864	7173
75°	4739	5372	12327	7470	6793
80°	4124	4706	10245	6834	6362
85°	3278	3868	8217	6229	5857

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 75°  
 Vertical Angle: 45°  
 Luminance: 31035 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.3	5.6
10°-20°	424.9	15.4
20°-30°	535.6	19.4
30°-40°	514.2	18.6
40°-50°	442.9	16.0
50°-60°	338.6	12.2
60°-70°	215.5	7.8
70°-80°	109.2	3.9
80°-90°	28.8	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°	1115.9	40.4
0°-40°	1630.1	59.0
0°-60°	2411.6	87.2
0°-90°	2765.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2765.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1641	1641	1641	1641	1641	
5°	1809	1746	1646	1502	1469	176
15°	1874	1877	1566	1199	1026	508
25°	954	1564	1393	836	724	456
35°	519	858	1154	622	539	327
45°	347	481	870	461	386	270
55°	233	293	594	320	274	206
65°	126	162	354	196	168	125
75°	64	73	168	102	92	68
85°	15	18	38	28	27	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7
2.5°	1727.7	1729.8	1730.9	1728.2	1722.3	1722.8	1717.5	1708.3	1697.1	1686.9	1692.8
5°	1809.3	1811.9	1811.4	1806.6	1800.7	1795.3	1786.2	1773.3	1759.9	1745.9	1743.2
7.5°	1884.4	1890.3	1888.7	1879.6	1875.3	1867.8	1852.2	1837.7	1817.3	1797.5	1789.4
10°	1927.4	1932.2	1929.5	1927.4	1922.5	1915.0	1901.1	1887.1	1864.6	1843.6	1831.8
12.5°	1924.2	1928.4	1930.6	1932.7	1931.1	1928.4	1922.5	1910.7	1892.5	1873.2	1858.1
15°	1873.7	1866.7	1861.9	1875.3	1880.1	1898.4	1902.7	1904.3	1891.9	1877.4	1873.7
17.5°	1720.1	1722.3	1759.3	1753.4	1761.5	1806.0	1823.8	1847.9	1858.1	1854.9	1861.3
20°	1537.6	1512.4	1530.6	1557.5	1582.7	1647.7	1690.6	1728.7	1772.8	1797.5	1821.1
22.5°	1219.8	1220.3	1264.3	1308.4	1365.3	1435.6	1501.1	1574.1	1652.5	1700.3	1755.6
25°	953.5	979.3	998.6	1017.9	1100.6	1168.2	1277.2	1365.8	1473.7	1564.4	1657.3
27.5°	771.0	797.8	801.0	844.5	893.4	948.1	1019.5	1159.1	1269.7	1402.9	1517.7
30°	658.2	663.6	674.9	686.1	722.1	773.1	849.9	937.4	1060.3	1212.3	1366.3
32.5°	576.6	575.5	586.8	604.5	624.4	658.7	702.2	774.7	885.8	1006.6	1186.5
35°	518.6	517.0	525.1	531.5	543.3	571.2	610.4	658.2	738.2	858.5	998.0
37.5°	463.9	467.1	471.9	478.9	494.5	512.2	538.5	578.2	641.6	721.0	854.7
40°	420.9	424.7	430.0	434.9	446.7	461.2	478.9	510.6	553.0	622.2	724.8
42.5°	382.3	383.9	388.2	395.1	403.7	416.6	433.8	458.0	493.4	541.7	631.4
45°	346.8	346.8	351.7	358.1	363.5	375.8	389.2	412.3	439.7	481.0	544.9
47.5°	316.8	317.3	320.0	321.1	327.0	338.2	352.7	371.0	393.5	425.2	484.8
50°	291.0	293.1	294.2	295.8	298.0	303.9	314.1	328.0	352.7	380.6	420.4
52.5°	264.1	266.8	269.0	272.2	275.4	276.0	283.5	292.6	309.8	338.8	371.0
55°	233.0	235.2	239.4	242.1	246.4	250.2	256.1	262.5	273.8	293.1	326.4
57.5°	197.6	198.1	202.4	205.1	213.7	222.3	227.6	234.6	242.7	256.1	281.3
60°	162.1	163.7	164.3	166.4	173.9	183.1	193.8	204.5	213.1	225.0	242.7
62.5°	142.8	143.3	145.0	147.1	147.6	151.9	155.2	168.0	183.1	194.9	206.7
65°	125.6	126.2	126.2	127.8	129.9	132.1	133.7	138.5	145.0	161.6	176.1
67.5°	109.5	109.0	110.1	111.7	112.2	113.8	116.5	119.2	123.5	128.3	143.3
70°	93.4	93.4	92.9	94.5	96.1	96.6	98.2	100.9	103.6	107.9	112.7
72.5°	77.3	78.4	78.4	79.5	80.0	82.1	83.2	84.3	88.0	90.2	94.0
75°	64.4	63.9	65.5	65.0	66.0	66.6	68.2	69.8	70.9	73.0	76.2
77.5°	51.5	50.5	51.5	51.0	52.1	53.2	53.2	54.8	55.8	58.0	59.6
80°	37.6	37.6	38.1	39.2	39.2	39.7	40.8	40.3	42.4	42.9	44.6
82.5°	25.8	26.3	26.3	26.8	26.8	26.8	27.9	27.9	28.5	29.5	30.1
85°	15.0	14.5	15.0	15.0	15.0	15.6	16.1	15.6	16.6	17.7	17.7
87.5°	4.3	4.3	4.8	5.4	5.4	5.9	5.9	5.9	6.4	6.4	7.0
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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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7
2.5°	1692.8	1690.1	1683.1	1676.7	1664.8	1655.2	1652.0	1652.5	1638.0	1623.0	1618.7
5°	1739.5	1729.8	1715.8	1701.4	1683.6	1665.9	1654.6	1645.5	1623.0	1600.4	1587.5
7.5°	1778.1	1762.6	1742.2	1719.1	1696.0	1669.7	1651.4	1634.2	1603.1	1572.5	1555.9
10°	1813.6	1791.5	1763.6	1733.6	1703.0	1668.6	1642.3	1615.5	1576.3	1541.9	1513.4
12.5°	1847.4	1812.5	1784.0	1740.5	1706.7	1660.0	1624.0	1592.9	1546.7	1503.8	1472.1
15°	1850.6	1825.9	1787.8	1742.7	1691.2	1647.7	1602.6	1566.1	1513.4	1465.7	1411.4
17.5°	1850.1	1830.7	1791.0	1744.8	1683.1	1626.2	1577.3	1529.6	1469.4	1413.6	1366.9
20°	1830.7	1817.3	1783.0	1728.2	1665.9	1600.4	1546.2	1489.8	1419.5	1362.0	1311.0
22.5°	1785.1	1788.3	1761.5	1712.6	1645.5	1572.5	1509.7	1444.7	1372.8	1306.8	1242.3
25°	1707.8	1742.2	1734.1	1688.5	1617.1	1537.1	1465.7	1392.7	1315.3	1245.0	1185.4
27.5°	1611.7	1676.1	1690.1	1654.6	1586.5	1496.8	1415.7	1336.3	1257.4	1181.7	1120.5
30°	1497.9	1594.0	1629.4	1610.1	1547.3	1453.3	1359.4	1281.5	1195.1	1114.5	1050.1
32.5°	1354.5	1489.3	1551.6	1557.5	1505.9	1405.0	1300.8	1217.1	1128.5	1052.3	983.0
35°	1194.5	1359.9	1461.4	1488.8	1451.7	1351.8	1242.3	1153.7	1059.3	982.5	912.7
37.5°	1033.5	1227.8	1361.0	1414.1	1389.4	1292.8	1176.8	1087.2	993.8	915.4	849.9
40°	885.3	1070.0	1242.9	1326.1	1318.6	1228.9	1111.9	1019.0	924.0	851.5	779.5
42.5°	752.7	930.9	1121.0	1232.7	1238.6	1160.2	1040.5	947.0	855.8	783.8	708.7
45°	648.0	804.8	993.2	1126.4	1152.1	1087.7	966.4	870.3	787.1	719.4	644.2
47.5°	564.3	686.1	861.1	1017.4	1063.0	1006.6	890.7	799.4	721.0	663.0	592.2
50°	491.8	606.1	754.8	899.3	966.4	924.0	815.5	728.5	657.7	601.8	539.6
52.5°	427.4	515.9	644.8	783.3	873.5	834.8	742.5	662.5	595.9	543.9	491.8
55°	374.2	448.3	562.1	685.6	768.8	747.3	665.2	593.8	535.3	485.9	443.5
57.5°	319.4	381.7	473.5	583.6	665.2	662.0	594.3	525.6	479.4	432.7	402.1
60°	271.7	322.1	396.7	490.2	572.3	572.8	520.2	466.0	426.3	386.0	357.0
62.5°	229.2	269.5	334.5	409.6	475.1	491.8	452.6	405.3	373.1	342.0	317.3
65°	192.7	222.8	271.7	339.8	391.4	413.9	388.2	353.8	327.0	299.0	277.0
67.5°	158.9	180.9	216.9	270.6	322.1	338.8	328.0	301.7	282.4	259.3	242.7
70°	125.1	143.9	169.1	209.4	251.8	274.9	271.7	252.9	236.8	220.1	204.5
72.5°	99.3	110.1	129.4	158.4	192.2	218.0	219.0	209.4	196.0	182.0	171.8
75°	80.0	84.8	94.0	116.5	143.3	164.8	172.3	167.5	156.8	148.2	141.2
77.5°	61.7	66.0	71.9	82.7	103.6	120.3	129.4	129.9	123.5	116.0	110.6
80°	46.2	47.8	52.1	57.4	68.2	82.7	93.4	93.4	89.7	85.9	82.7
82.5°	31.7	33.3	35.4	38.1	43.5	52.1	61.7	63.4	61.2	60.1	55.8
85°	17.7	19.3	20.4	22.0	24.2	28.5	35.4	37.6	38.1	34.9	32.7
87.5°	7.0	7.0	7.5	8.1	8.6	10.2	12.9	16.1	16.1	14.5	14.0
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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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7	1640.7
2.5°	1613.3	1605.8	1596.1	1587.5	1575.7	1563.9	1561.8	1566.1	1567.1	1561.8	1563.4
5°	1575.2	1561.2	1549.4	1530.1	1517.7	1501.6	1490.9	1490.9	1490.9	1482.8	1475.3
7.5°	1535.5	1516.7	1494.1	1475.9	1450.6	1429.7	1419.5	1414.7	1405.0	1396.9	1387.8
10°	1489.3	1463.0	1435.1	1406.6	1384.6	1355.6	1338.4	1327.7	1311.0	1304.1	1290.6
12.5°	1435.1	1408.8	1374.9	1328.8	1322.3	1286.9	1262.7	1242.9	1222.5	1205.8	1199.9
15°	1391.6	1345.9	1300.8	1268.1	1220.3	1199.4	1163.9	1160.7	1144.1	1095.2	1057.1
17.5°	1321.2	1280.4	1230.5	1194.0	1155.9	1109.2	1071.6	1034.6	999.1	964.8	963.7
20°	1259.0	1211.2	1163.9	1124.2	1057.6	991.1	968.0	934.2	913.2	885.8	877.8
22.5°	1190.8	1140.9	1081.8	1023.8	946.0	904.1	878.9	852.0	831.1	818.7	806.4
25°	1122.1	1072.1	993.8	922.3	869.2	836.4	815.0	786.0	771.0	760.2	744.1
27.5°	1055.0	991.6	908.9	852.0	809.1	772.0	752.7	729.1	712.4	698.5	688.3
30°	988.4	901.4	831.1	787.1	743.0	719.9	694.7	677.0	664.6	651.8	635.1
32.5°	915.4	824.1	778.5	724.2	698.5	665.2	646.9	628.7	612.6	603.4	597.5
35°	830.5	757.0	716.2	676.5	643.7	621.7	595.9	584.7	576.1	558.3	550.8
37.5°	758.6	705.5	662.5	627.1	597.0	573.4	561.6	542.2	529.9	524.0	515.9
40°	699.0	651.8	614.7	578.7	553.5	536.3	515.4	505.2	489.1	483.2	476.7
42.5°	647.5	604.0	565.3	537.9	515.9	492.3	481.6	464.4	457.4	442.9	437.6
45°	595.4	556.7	522.9	496.1	475.1	460.6	441.3	430.6	418.2	410.7	396.2
47.5°	543.3	509.0	481.0	458.5	440.2	422.5	406.4	397.3	381.7	373.7	366.1
50°	503.1	469.8	443.5	420.9	402.1	384.4	374.2	359.2	345.2	336.1	333.4
52.5°	455.3	426.3	402.1	384.9	366.1	353.3	339.3	322.7	315.7	306.6	304.4
55°	412.9	389.2	368.8	350.6	334.5	320.0	303.9	292.1	286.7	282.4	279.2
57.5°	373.1	350.6	331.8	315.1	301.2	286.2	272.7	265.8	260.9	256.1	252.9
60°	333.9	313.5	296.4	282.4	267.9	253.4	243.7	237.8	234.1	227.1	225.0
62.5°	299.0	280.2	262.5	249.6	236.2	225.0	216.9	208.8	202.9	197.6	186.3
65°	260.9	244.3	230.9	218.0	205.1	196.5	187.4	178.2	170.7	170.7	170.7
67.5°	227.1	212.6	198.6	187.4	176.1	165.9	156.8	156.2	153.5	152.5	150.9
70°	192.7	182.5	169.7	157.3	146.0	141.2	139.6	136.9	133.7	133.1	131.0
72.5°	161.6	149.8	138.0	127.2	125.1	122.9	119.7	117.0	114.9	113.3	112.2
75°	132.1	120.3	110.6	107.9	105.2	101.5	98.8	96.6	95.6	95.6	95.0
77.5°	100.9	94.0	89.7	85.4	83.2	81.1	79.5	78.4	76.8	77.3	76.2
80°	74.1	71.9	68.2	65.5	64.4	62.3	61.2	60.7	59.6	59.6	59.1
82.5°	53.2	49.4	47.8	46.2	45.1	44.0	44.6	44.0	43.5	42.9	43.5
85°	30.6	30.1	29.0	29.0	29.0	28.5	28.5	28.5	27.9	27.4	27.4
87.5°	13.4	14.0	14.0	12.9	14.5	14.5	14.0	14.0	13.4	14.5	13.4
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: P243280

CATALOG NUMBER: S122RDRP-H865D940-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1640.7	1640.7	1640.7	1640.7
2.5°	1556.4	1555.9	1552.6	1547.3
5°	1472.1	1470.0	1464.6	1468.9
7.5°	1381.9	1376.0	1370.6	1373.3
10°	1285.3	1283.1	1279.9	1273.5
12.5°	1178.4	1187.0	1177.9	1198.3
15°	1020.1	1058.2	1010.4	1026.5
17.5°	941.1	941.7	935.2	927.7
20°	867.1	848.3	855.2	842.9
22.5°	795.6	791.4	789.2	784.9
25°	731.8	723.7	721.0	723.7
27.5°	684.5	680.8	670.6	668.9
30°	625.5	623.8	620.6	619.6
32.5°	588.4	581.4	579.8	573.4
35°	547.1	543.3	540.6	539.0
37.5°	505.7	503.6	498.8	501.4
40°	471.9	461.2	456.9	456.3
42.5°	434.9	429.0	420.4	417.7
45°	391.9	389.2	386.5	385.5
47.5°	354.3	352.7	349.5	347.9
50°	327.5	323.2	322.7	322.1
52.5°	301.7	300.1	298.5	300.6
55°	277.6	275.4	273.8	273.8
57.5°	251.3	247.5	244.3	244.8
60°	220.7	218.5	215.8	214.7
62.5°	185.2	185.2	184.7	184.7
65°	168.6	167.5	167.0	167.5
67.5°	150.3	149.3	147.6	148.2
70°	129.4	128.8	129.4	128.8
72.5°	110.6	110.1	110.6	111.7
75°	93.4	92.9	92.3	92.3
77.5°	75.7	75.2	74.1	75.2
80°	59.1	58.5	58.0	58.0
82.5°	41.9	42.4	41.9	41.9
85°	27.4	27.9	27.4	26.8
87.5°	14.0	14.5	13.4	12.9
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243280  
 CATALOG NUMBER: S122RDRP-H865D940-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	16.80	18.26	17.17	18.57	18.88	23.13	24.59	23.50	24.90	25.22
	3H	17.97	19.28	18.35	19.60	19.97	24.38	25.69	24.76	26.01	26.38
	4H	18.43	19.65	18.83	20.00	20.38	24.81	26.03	25.21	26.38	26.76
	6H	18.76	19.89	19.17	20.25	20.65	25.11	26.24	25.52	26.60	27.00
	8H	18.86	19.93	19.29	20.32	20.72	25.19	26.26	25.62	26.65	27.06
	12H	18.91	19.94	19.34	20.32	20.75	25.24	26.27	25.67	26.65	27.08
4H	2H	17.52	18.74	17.92	19.09	19.47	23.11	24.33	23.51	24.68	25.06
	3H	18.85	19.86	19.26	20.26	20.67	24.50	25.51	24.91	25.91	26.31
	4H	19.40	20.31	19.84	20.73	21.17	25.03	25.94	25.46	26.35	26.79
	6H	19.83	20.62	20.29	21.07	21.53	25.44	26.23	25.90	26.68	27.14
	8H	19.96	20.70	20.43	21.15	21.61	25.58	26.31	26.04	26.76	27.23
	12H	20.05	20.70	20.53	21.18	21.65	25.67	26.32	26.15	26.80	27.28
8H	4H	19.75	20.48	20.21	20.93	21.40	25.03	25.76	25.49	26.21	26.67
	6H	20.27	20.88	20.77	21.37	21.85	25.49	26.10	25.99	26.59	27.07
	8H	20.46	21.00	20.97	21.51	22.00	25.66	26.20	26.18	26.72	27.20
	12H	20.59	21.07	21.10	21.56	22.13	25.80	26.28	26.31	26.78	27.34
12H	4H	19.79	20.45	20.28	20.93	21.40	25.00	25.66	25.49	26.14	26.61
	6H	20.34	20.88	20.85	21.39	21.88	25.47	26.01	25.98	26.52	27.01
	8H	20.57	21.05	21.08	21.54	22.11	25.67	26.15	26.18	26.65	27.21