

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: P243281

Luminaire Tested: S122RDRP-H1005D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243281  
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-H1005D940-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: -

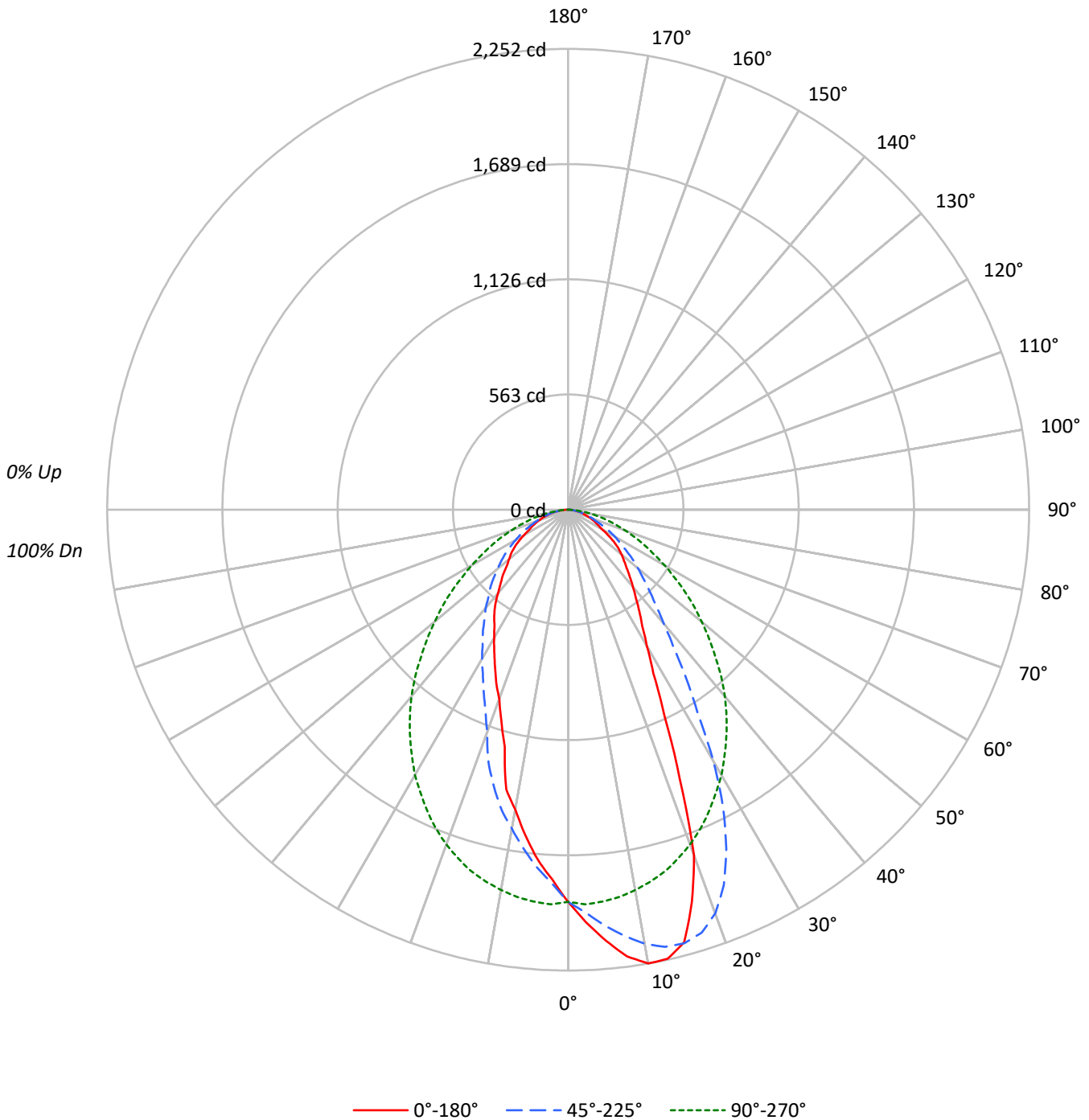
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3230.2 lumens  
Efficiency: N/A  
Efficacy: 85.7 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

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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	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°	36507	36507	36507	36507	36507
5°	40413	38998	36755	33541	32809
10°	43548	41656	36501	30629	28772
15°	43162	43249	36077	27629	23646
20°	36409	42563	35278	23469	19960
25°	23411	38410	34192	20536	17768
30°	16911	31148	32928	18497	15920
35°	14087	23318	31340	16889	14642
40°	12226	18074	29599	15578	13256
45°	10915	15136	27385	14495	12130
50°	10072	13178	25221	13308	11151
55°	9039	11371	23037	12413	10623
60°	7215	10011	20739	11276	9558
65°	6616	8509	18628	10344	8820
70°	6076	7023	16451	9184	8382
75°	5542	6278	14402	8721	7941
80°	4815	5507	11967	7986	7426
85°	3846	4524	9594	7256	6862

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 75°  
 Vertical Angle: 45°  
 Luminance: 36255 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.4	5.6
10°-20°	496.4	15.4
20°-30°	625.7	19.4
30°-40°	600.7	18.6
40°-50°	517.4	16.0
50°-60°	395.6	12.2
60°-70°	251.7	7.8
70°-80°	127.6	3.9
80°-90°	33.7	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°	1303.6	40.4
0°-40°	1904.3	59.0
0°-60°	2817.2	87.2
0°-90°	3230.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3230.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1917	1917	1917	1917	1917	
5°	2114	2040	1922	1754	1716	206
15°	2189	2193	1830	1401	1199	594
25°	1114	1828	1627	977	845	532
35°	606	1003	1348	726	630	382
45°	405	562	1017	538	450	315
55°	272	342	694	374	320	240
65°	147	189	413	230	196	146
75°	75	85	196	118	108	80
85°	18	21	44	33	31	20
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°	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6
2.5°	2018.2	2020.7	2022.0	2018.9	2012.0	2012.6	2006.3	1995.7	1982.5	1970.6	1977.5
5°	2113.6	2116.7	2116.1	2110.4	2103.5	2097.3	2086.6	2071.5	2055.9	2039.6	2036.4
7.5°	2201.4	2208.3	2206.4	2195.7	2190.7	2181.9	2163.7	2146.8	2123.0	2099.8	2090.4
10°	2251.5	2257.2	2254.1	2251.5	2245.9	2237.1	2220.8	2204.5	2178.2	2153.7	2139.9
12.5°	2247.8	2252.8	2255.3	2257.8	2255.9	2252.8	2245.9	2232.1	2210.8	2188.2	2170.6
15°	2188.8	2180.7	2175.0	2190.7	2196.4	2217.7	2222.7	2224.6	2210.1	2193.2	2188.8
17.5°	2009.5	2012.0	2055.2	2048.3	2057.7	2109.8	2130.5	2158.7	2170.6	2166.9	2174.4
20°	1796.2	1766.7	1788.1	1819.4	1848.9	1924.8	1975.0	2019.5	2070.9	2099.8	2127.4
22.5°	1424.9	1425.6	1477.0	1528.4	1594.9	1677.1	1753.6	1838.9	1930.4	1986.2	2050.8
25°	1113.9	1144.0	1166.5	1189.1	1285.7	1364.7	1492.0	1595.5	1721.6	1827.6	1936.1
27.5°	900.6	932.0	935.7	986.5	1043.6	1107.6	1191.0	1354.1	1483.3	1638.8	1773.0
30°	768.9	775.2	788.4	801.5	843.5	903.1	992.8	1095.0	1238.7	1416.2	1596.1
32.5°	673.6	672.3	685.5	706.2	729.4	769.5	820.3	905.0	1034.8	1175.9	1386.0
35°	605.8	604.0	613.4	620.9	634.7	667.3	713.1	768.9	862.4	1002.8	1165.9
37.5°	541.9	545.6	551.3	559.4	577.6	598.3	629.1	675.5	749.5	842.3	998.5
40°	491.7	496.1	502.4	508.0	521.8	538.7	559.4	596.4	646.0	726.9	846.7
42.5°	446.5	448.4	453.4	461.6	471.6	486.7	506.8	535.0	576.4	632.8	737.6
45°	405.2	405.2	410.8	418.3	424.6	439.0	454.7	481.7	513.7	561.9	636.6
47.5°	370.0	370.7	373.8	375.0	381.9	395.1	412.1	433.4	459.7	496.7	566.3
50°	339.9	342.4	343.7	345.6	348.1	355.0	366.9	383.2	412.1	444.7	491.1
52.5°	308.6	311.7	314.2	318.0	321.7	322.4	331.1	341.8	361.9	395.7	433.4
55°	272.2	274.7	279.7	282.9	287.9	292.3	299.2	306.7	319.9	342.4	381.3
57.5°	230.8	231.4	236.4	239.6	249.6	259.6	265.9	274.1	283.5	299.2	328.6
60°	189.4	191.3	191.9	194.4	203.2	213.9	226.4	239.0	249.0	262.8	283.5
62.5°	166.8	167.5	169.3	171.8	172.5	177.5	181.3	196.3	213.9	227.7	241.5
65°	146.8	147.4	147.4	149.3	151.8	154.3	156.2	161.8	169.3	188.8	205.7
67.5°	127.9	127.3	128.6	130.5	131.1	133.0	136.1	139.2	144.2	149.9	167.5
70°	109.1	109.1	108.5	110.4	112.3	112.9	114.8	117.9	121.0	126.1	131.7
72.5°	90.3	91.6	91.6	92.8	93.4	96.0	97.2	98.5	102.9	105.4	109.8
75°	75.3	74.6	76.5	75.9	77.1	77.8	79.7	81.5	82.8	85.3	89.1
77.5°	60.2	59.0	60.2	59.6	60.8	62.1	62.1	64.0	65.2	67.7	69.6
80°	43.9	43.9	44.5	45.8	45.8	46.4	47.7	47.0	49.5	50.2	52.1
82.5°	30.1	30.7	30.7	31.4	31.4	31.4	32.6	32.6	33.2	34.5	35.1
85°	17.6	16.9	17.6	17.6	17.6	18.2	18.8	18.2	19.4	20.7	20.7
87.5°	5.0	5.0	5.6	6.3	6.3	6.9	6.9	6.9	7.5	7.5	8.2
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°	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6
2.5°	1977.5	1974.3	1966.2	1958.7	1944.9	1933.6	1929.8	1930.4	1913.5	1895.9	1890.9
5°	2032.0	2020.7	2004.4	1987.5	1966.8	1946.1	1932.9	1922.3	1895.9	1869.6	1854.5
7.5°	2077.2	2059.0	2035.2	2008.2	1981.2	1950.5	1929.2	1909.1	1872.7	1837.0	1817.5
10°	2118.6	2092.9	2060.3	2025.1	1989.4	1949.2	1918.5	1887.2	1841.4	1801.2	1768.0
12.5°	2158.1	2117.3	2084.1	2033.3	1993.8	1939.2	1897.2	1860.8	1806.9	1756.7	1719.7
15°	2161.9	2133.0	2088.5	2035.8	1975.6	1924.8	1872.1	1829.5	1768.0	1712.2	1648.8
17.5°	2161.2	2138.7	2092.2	2038.3	1966.2	1899.7	1842.6	1786.8	1716.6	1651.3	1596.8
20°	2138.7	2123.0	2082.8	2018.9	1946.1	1869.6	1806.3	1740.4	1658.2	1591.1	1531.6
22.5°	2085.3	2089.1	2057.7	2000.7	1922.3	1837.0	1763.6	1687.7	1603.7	1526.5	1451.3
25°	1995.0	2035.2	2025.8	1972.5	1889.0	1795.6	1712.2	1626.9	1536.6	1454.4	1384.8
27.5°	1882.8	1958.0	1974.3	1932.9	1853.3	1748.6	1653.8	1561.0	1468.8	1380.4	1308.9
30°	1749.8	1862.1	1903.5	1880.9	1807.5	1697.8	1588.0	1497.1	1396.1	1302.0	1226.7
32.5°	1582.4	1739.8	1812.5	1819.4	1759.2	1641.3	1519.6	1421.8	1318.3	1229.3	1148.3
35°	1395.5	1588.6	1707.2	1739.1	1695.9	1579.2	1451.3	1347.8	1237.4	1147.7	1066.2
37.5°	1207.3	1434.3	1589.9	1652.0	1623.1	1510.2	1374.8	1270.0	1160.9	1069.3	992.8
40°	1034.2	1250.0	1451.9	1549.1	1540.3	1435.6	1298.9	1190.4	1079.4	994.7	910.7
42.5°	879.3	1087.5	1309.5	1440.0	1446.9	1355.3	1215.5	1106.3	999.7	915.7	827.9
45°	757.0	940.1	1160.3	1315.8	1345.9	1270.6	1128.9	1016.6	919.4	840.4	752.6
47.5°	659.2	801.5	1006.0	1188.5	1241.8	1175.9	1040.5	933.9	842.3	774.6	691.8
50°	574.5	708.1	881.8	1050.5	1128.9	1079.4	952.7	851.1	768.3	703.1	630.3
52.5°	499.2	602.7	753.2	915.0	1020.4	975.3	867.4	773.9	696.2	635.3	574.5
55°	437.1	523.7	656.6	800.9	898.1	873.0	777.1	693.7	625.3	567.6	518.0
57.5°	373.2	445.9	553.2	681.7	777.1	773.3	694.3	614.0	560.1	505.5	469.8
60°	317.3	376.3	463.5	572.6	668.6	669.2	607.7	544.4	498.0	450.9	417.1
62.5°	267.8	314.8	390.7	478.5	555.0	574.5	528.7	473.5	435.9	399.5	370.7
65°	225.2	260.3	317.3	397.0	457.2	483.5	453.4	413.3	381.9	349.3	323.6
67.5°	185.6	211.4	253.4	316.1	376.3	395.7	383.2	352.5	329.9	302.9	283.5
70°	146.1	168.1	197.6	244.6	294.1	321.1	317.3	295.4	276.6	257.1	239.0
72.5°	116.0	128.6	151.1	185.0	224.5	254.6	255.9	244.6	228.9	212.6	200.7
75°	93.4	99.1	109.8	136.1	167.5	192.5	201.3	195.7	183.1	173.1	164.9
77.5°	72.1	77.1	84.0	96.6	121.0	140.5	151.1	151.8	144.2	135.5	129.2
80°	53.9	55.8	60.8	67.1	79.7	96.6	109.1	109.1	104.7	100.3	96.6
82.5°	37.0	38.9	41.4	44.5	50.8	60.8	72.1	74.0	71.5	70.2	65.2
85°	20.7	22.6	23.8	25.7	28.2	33.2	41.4	43.9	44.5	40.8	38.3
87.5°	8.2	8.2	8.8	9.4	10.0	11.9	15.1	18.8	18.8	16.9	16.3
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°	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6	1916.6
2.5°	1884.6	1875.9	1864.6	1854.5	1840.7	1826.9	1824.4	1829.5	1830.7	1824.4	1826.3
5°	1840.1	1823.8	1810.0	1787.4	1773.0	1754.2	1741.7	1741.7	1741.7	1732.2	1723.5
7.5°	1793.7	1771.8	1745.4	1724.1	1694.6	1670.2	1658.2	1652.6	1641.3	1631.9	1621.2
10°	1739.8	1709.0	1676.4	1643.2	1617.5	1583.6	1563.5	1551.0	1531.6	1523.4	1507.7
12.5°	1676.4	1645.7	1606.2	1552.2	1544.7	1503.3	1475.1	1451.9	1428.1	1408.6	1401.7
15°	1625.6	1572.3	1519.6	1481.4	1425.6	1401.1	1359.7	1355.9	1336.5	1279.4	1234.9
17.5°	1543.5	1495.8	1437.5	1394.8	1350.3	1295.7	1251.8	1208.6	1167.2	1127.0	1125.8
20°	1470.7	1414.9	1359.7	1313.3	1235.5	1157.8	1130.8	1091.3	1066.8	1034.8	1025.4
22.5°	1391.1	1332.7	1263.7	1196.0	1105.1	1056.2	1026.7	995.3	970.9	956.4	942.0
25°	1310.8	1252.5	1160.9	1077.5	1015.4	977.1	952.0	918.2	900.6	888.1	869.3
27.5°	1232.4	1158.4	1061.8	995.3	945.1	901.9	879.3	851.7	832.3	815.9	804.0
30°	1154.6	1053.0	970.9	919.4	868.0	841.0	811.6	790.9	776.4	761.4	741.9
32.5°	1069.3	962.7	909.4	846.1	815.9	777.1	755.7	734.4	715.6	704.9	698.0
35°	970.2	884.3	836.6	790.2	752.0	726.3	696.2	683.0	673.0	652.3	643.5
37.5°	886.2	824.1	773.9	732.5	697.4	669.8	656.0	633.4	619.0	612.1	602.7
40°	816.6	761.4	718.1	676.1	646.6	626.5	602.1	590.2	571.4	564.5	556.9
42.5°	756.4	705.6	660.4	628.4	602.7	575.1	562.6	542.5	534.3	517.4	511.1
45°	695.5	650.4	610.9	579.5	555.0	538.1	515.5	503.0	488.6	479.8	462.9
47.5°	634.7	594.6	561.9	535.6	514.3	493.6	474.8	464.1	445.9	436.5	427.7
50°	587.7	548.8	518.0	491.7	469.8	449.1	437.1	419.6	403.3	392.6	389.5
52.5°	531.8	498.0	469.8	449.7	427.7	412.7	396.4	376.9	368.8	358.1	355.6
55°	482.3	454.7	430.9	409.5	390.7	373.8	355.0	341.2	334.9	329.9	326.1
57.5°	435.9	409.5	387.6	368.1	351.8	334.3	318.6	310.4	304.8	299.2	295.4
60°	390.1	366.3	346.2	329.9	313.0	296.0	284.7	277.8	273.4	265.3	262.8
62.5°	349.3	327.4	306.7	291.6	276.0	262.8	253.4	244.0	237.1	230.8	217.6
65°	304.8	285.4	269.7	254.6	239.6	229.5	218.9	208.2	199.4	199.4	199.4
67.5°	265.3	248.4	232.1	218.9	205.7	193.8	183.1	182.5	179.4	178.1	176.2
70°	225.2	213.2	198.2	183.8	170.6	164.9	163.1	159.9	156.2	155.5	153.0
72.5°	188.8	175.0	161.2	148.6	146.1	143.6	139.9	136.7	134.2	132.3	131.1
75°	154.3	140.5	129.2	126.1	122.9	118.5	115.4	112.9	111.6	111.6	111.0
77.5°	117.9	109.8	104.7	99.7	97.2	94.7	92.8	91.6	89.7	90.3	89.1
80°	86.5	84.0	79.7	76.5	75.3	72.8	71.5	70.9	69.6	69.6	69.0
82.5°	62.1	57.7	55.8	53.9	52.7	51.4	52.1	51.4	50.8	50.2	50.8
85°	35.7	35.1	33.9	33.9	33.9	33.2	33.2	33.2	32.6	32.0	32.0
87.5°	15.7	16.3	16.3	15.1	16.9	16.9	16.3	16.3	15.7	16.9	15.7
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: P243281

CATALOG NUMBER: S122RDRP-H1005D940-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1916.6	1916.6	1916.6	1916.6
2.5°	1818.2	1817.5	1813.8	1807.5
5°	1719.7	1717.2	1710.9	1715.9
7.5°	1614.3	1607.4	1601.2	1604.3
10°	1501.4	1498.9	1495.2	1487.6
12.5°	1376.6	1386.7	1376.0	1399.8
15°	1191.6	1236.2	1180.3	1199.1
17.5°	1099.4	1100.1	1092.5	1083.8
20°	1012.9	990.9	999.1	984.7
22.5°	929.5	924.4	921.9	916.9
25°	854.8	845.4	842.3	845.4
27.5°	799.6	795.3	783.3	781.5
30°	730.7	728.8	725.0	723.8
32.5°	687.4	679.2	677.3	669.8
35°	639.1	634.7	631.6	629.7
37.5°	590.8	588.3	582.6	585.8
40°	551.3	538.7	533.7	533.1
42.5°	508.0	501.1	491.1	487.9
45°	457.8	454.7	451.6	450.3
47.5°	413.9	412.1	408.3	406.4
50°	382.6	377.6	376.9	376.3
52.5°	352.5	350.6	348.7	351.2
55°	324.2	321.7	319.9	319.9
57.5°	293.5	289.1	285.4	286.0
60°	257.8	255.3	252.1	250.9
62.5°	216.4	216.4	215.7	215.7
65°	196.9	195.7	195.1	195.7
67.5°	175.6	174.4	172.5	173.1
70°	151.1	150.5	151.1	150.5
72.5°	129.2	128.6	129.2	130.5
75°	109.1	108.5	107.9	107.9
77.5°	88.4	87.8	86.5	87.8
80°	69.0	68.4	67.7	67.7
82.5°	48.9	49.5	48.9	48.9
85°	32.0	32.6	32.0	31.4
87.5°	16.3	16.9	15.7	15.1
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243281  
 CATALOG NUMBER: S122RDRP-H1005D940-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	17.34	18.80	17.70	19.11	19.42	23.67	25.13	24.04	25.44	25.76
	3H	18.51	19.82	18.89	20.14	20.51	24.92	26.23	25.30	26.55	26.92
	4H	18.97	20.19	19.37	20.54	20.92	25.35	26.57	25.76	26.92	27.30
	6H	19.30	20.43	19.71	20.79	21.19	25.65	26.78	26.06	27.14	27.54
	8H	19.40	20.47	19.83	20.86	21.26	25.73	26.80	26.16	27.19	27.60
	12H	19.45	20.48	19.88	20.86	21.29	25.78	26.81	26.21	27.19	27.62
4H	2H	18.06	19.28	18.46	19.63	20.01	23.65	24.87	24.05	25.22	25.60
	3H	19.39	20.40	19.80	20.80	21.21	25.04	26.05	25.45	26.45	26.85
	4H	19.94	20.85	20.38	21.27	21.71	25.57	26.48	26.00	26.89	27.33
	6H	20.37	21.16	20.83	21.61	22.07	25.98	26.77	26.44	27.22	27.68
	8H	20.50	21.24	20.97	21.69	22.15	26.12	26.85	26.58	27.30	27.77
	12H	20.59	21.24	21.07	21.72	22.19	26.21	26.86	26.69	27.34	27.82
8H	4H	20.29	21.02	20.75	21.47	21.94	25.57	26.30	26.03	26.75	27.21
	6H	20.81	21.42	21.31	21.91	22.39	26.03	26.64	26.53	27.13	27.61
	8H	21.00	21.54	21.51	22.05	22.54	26.20	26.74	26.72	27.26	27.74
	12H	21.13	21.61	21.64	22.10	22.67	26.34	26.82	26.85	27.32	27.88
12H	4H	20.33	20.99	20.81	21.47	21.94	25.54	26.20	26.03	26.68	27.15
	6H	20.87	21.42	21.39	21.93	22.42	26.01	26.55	26.52	27.06	27.55
	8H	21.11	21.59	21.62	22.08	22.65	26.21	26.69	26.72	27.19	27.75