

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: P243256

Luminaire Tested: S122RDRP-H1005D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243256
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-H1005D830-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

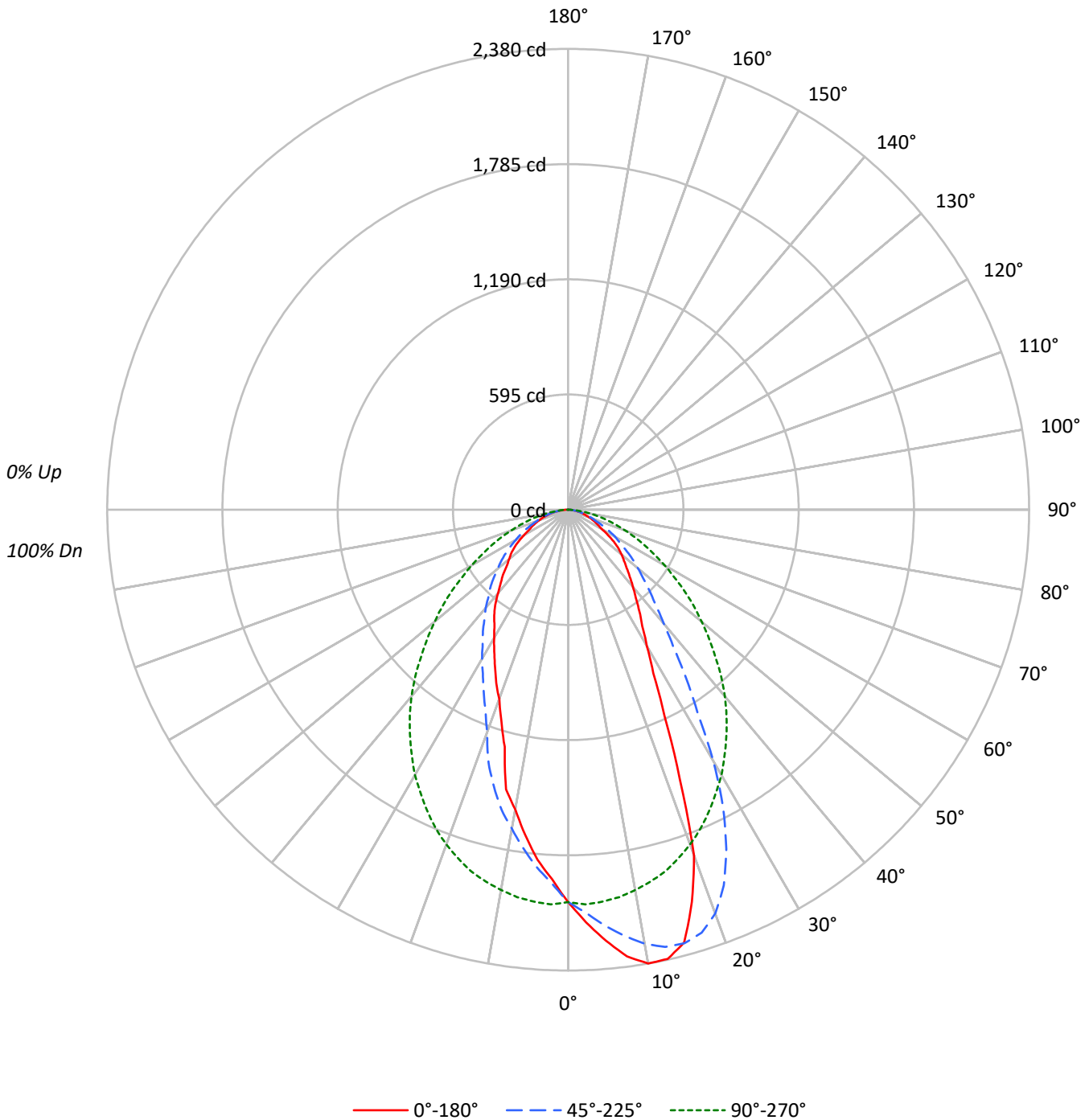
Lumens per Lamp: N/A
Luminaire Lumens: 3414.3 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 1.17 / 0.99
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

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°	38589	38589	38589	38589	38589
5°	42715	41220	38851	35453	34681
10°	46031	44031	38581	32376	30415
15°	45623	45714	38132	29205	24995
20°	38485	44990	37289	24807	21097
25°	24743	40600	36141	21706	18781
30°	17875	32923	34804	19553	16826
35°	14891	24648	33126	17851	15477
40°	12922	19104	31285	16468	14011
45°	11535	16001	28947	15322	12822
50°	10647	13927	26658	14067	11788
55°	9554	12022	24349	13121	11228
60°	7627	10583	21920	11920	10103
65°	6990	8992	19691	10934	9321
70°	6421	7418	17387	9707	8861
75°	5858	6638	15219	9221	8390
80°	5090	5814	12647	8435	7854
85°	4065	4786	10141	7671	7234

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 75°
 Vertical Angle: 45°
 Luminance: 38321 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.8	5.6
10°-20°	524.7	15.4
20°-30°	661.4	19.4
30°-40°	634.9	18.6
40°-50°	546.9	16.0
50°-60°	418.1	12.2
60°-70°	266.1	7.8
70°-80°	134.8	3.9
80°-90°	35.6	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°	1377.9	40.4
0°-40°	2012.8	59.0
0°-60°	2977.8	87.2
0°-90°	3414.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3414.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2026	2026	2026	2026	2026	
5°	2234	2156	2032	1854	1814	218
15°	2314	2318	1934	1481	1268	627
25°	1177	1932	1720	1033	894	563
35°	640	1060	1425	768	666	403
45°	428	594	1075	569	476	333
55°	288	362	733	395	338	254
65°	155	200	437	243	207	154
75°	80	90	207	125	114	84
85°	19	22	46	35	33	21
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°	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9
2.5°	2133.3	2135.9	2137.3	2133.9	2126.7	2127.3	2120.7	2109.4	2095.5	2082.9	2090.2
5°	2234.0	2237.4	2236.7	2230.7	2223.4	2216.8	2205.5	2189.6	2173.1	2155.8	2152.5
7.5°	2326.9	2334.1	2332.2	2320.9	2315.6	2306.3	2287.1	2269.2	2244.0	2219.5	2209.5
10°	2379.9	2385.9	2382.5	2379.9	2373.9	2364.6	2347.4	2330.2	2302.3	2276.5	2261.9
12.5°	2375.9	2381.2	2383.9	2386.5	2384.5	2381.2	2373.9	2359.3	2336.8	2312.9	2294.4
15°	2313.6	2305.0	2299.0	2315.6	2321.6	2344.1	2349.4	2351.4	2336.1	2318.2	2313.6
17.5°	2124.0	2126.7	2172.4	2165.1	2175.0	2230.1	2251.9	2281.8	2294.4	2290.4	2298.4
20°	1898.6	1867.5	1890.0	1923.1	1954.3	2034.5	2087.5	2134.6	2189.0	2219.5	2248.6
22.5°	1506.2	1506.8	1561.2	1615.5	1685.8	1772.7	1853.5	1943.7	2040.5	2099.5	2167.8
25°	1177.3	1209.2	1233.0	1256.9	1359.0	1442.5	1577.1	1686.5	1819.7	1931.8	2046.4
27.5°	952.0	985.1	989.1	1042.8	1103.1	1170.7	1258.9	1431.2	1567.8	1732.2	1874.1
30°	812.7	819.4	833.3	847.2	891.6	954.6	1049.4	1157.5	1309.3	1496.9	1687.1
32.5°	712.0	710.7	724.6	746.5	771.0	813.4	867.1	956.6	1093.8	1243.0	1465.1
35°	640.4	638.4	648.3	656.3	670.9	705.3	753.7	812.7	911.5	1060.0	1232.4
37.5°	572.8	576.7	582.7	591.3	610.6	632.4	664.9	714.0	792.2	890.3	1055.4
40°	519.7	524.4	531.0	537.0	551.6	569.5	591.3	630.4	682.8	768.3	894.9
42.5°	472.0	474.0	479.3	487.9	498.5	514.4	535.6	565.5	609.2	668.9	779.6
45°	428.2	428.2	434.2	442.2	448.8	464.0	480.6	509.1	542.9	594.0	672.9
47.5°	391.1	391.8	395.1	396.4	403.7	417.6	435.5	458.1	485.9	525.0	598.6
50°	359.3	362.0	363.3	365.3	367.9	375.2	387.8	405.0	435.5	470.0	519.1
52.5°	326.2	329.5	332.1	336.1	340.1	340.7	350.0	361.3	382.5	418.3	458.1
55°	287.7	290.4	295.7	299.0	304.3	308.9	316.2	324.2	338.1	362.0	403.1
57.5°	244.0	244.6	249.9	253.2	263.8	274.4	281.1	289.7	299.6	316.2	347.4
60°	200.2	202.2	202.9	205.5	214.8	226.1	239.3	252.6	263.2	277.8	299.6
62.5°	176.3	177.0	179.0	181.6	182.3	187.6	191.6	207.5	226.1	240.6	255.2
65°	155.1	155.8	155.8	157.8	160.4	163.1	165.1	171.0	179.0	199.5	217.4
67.5°	135.2	134.6	135.9	137.9	138.6	140.5	143.9	147.2	152.5	158.4	177.0
70°	115.3	115.3	114.7	116.7	118.7	119.3	121.3	124.6	127.9	133.2	139.2
72.5°	95.5	96.8	96.8	98.1	98.8	101.4	102.8	104.1	108.7	111.4	116.0
75°	79.6	78.9	80.9	80.2	81.5	82.2	84.2	86.2	87.5	90.2	94.1
77.5°	63.6	62.3	63.6	63.0	64.3	65.6	65.6	67.6	68.9	71.6	73.6
80°	46.4	46.4	47.1	48.4	48.4	49.1	50.4	49.7	52.4	53.0	55.0
82.5°	31.8	32.5	32.5	33.1	33.1	33.1	34.5	34.5	35.1	36.5	37.1
85°	18.6	17.9	18.6	18.6	18.6	19.2	19.9	19.2	20.6	21.9	21.9
87.5°	5.3	5.3	6.0	6.6	6.6	7.3	7.3	7.3	8.0	8.0	8.6
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°	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9
2.5°	2090.2	2086.9	2078.3	2070.3	2055.7	2043.8	2039.8	2040.5	2022.6	2004.0	1998.7
5°	2147.9	2135.9	2118.7	2100.8	2078.9	2057.0	2043.1	2031.9	2004.0	1976.2	1960.3
7.5°	2195.6	2176.4	2151.2	2122.7	2094.2	2061.7	2039.1	2017.9	1979.5	1941.7	1921.1
10°	2239.4	2212.2	2177.7	2140.6	2102.8	2060.4	2027.9	1994.7	1946.3	1903.9	1868.8
12.5°	2281.1	2238.0	2202.9	2149.2	2107.4	2049.8	2005.3	1966.9	1909.9	1856.8	1817.7
15°	2285.1	2254.6	2207.5	2151.8	2088.2	2034.5	1978.8	1933.7	1868.8	1809.8	1742.8
17.5°	2284.4	2260.6	2211.5	2154.5	2078.3	2008.0	1947.7	1888.7	1814.4	1745.5	1687.8
20°	2260.6	2244.0	2201.6	2133.9	2057.0	1976.2	1909.2	1839.6	1752.8	1681.8	1618.9
22.5°	2204.2	2208.2	2175.0	2114.7	2031.9	1941.7	1864.1	1783.9	1695.1	1613.6	1534.0
25°	2108.8	2151.2	2141.2	2084.9	1996.7	1897.9	1809.8	1719.6	1624.2	1537.3	1463.7
27.5°	1990.1	2069.6	2086.9	2043.1	1958.9	1848.2	1748.1	1650.0	1552.6	1459.1	1383.5
30°	1849.6	1968.2	2012.0	1988.1	1910.5	1794.5	1678.5	1582.4	1475.7	1376.2	1296.7
32.5°	1672.6	1838.9	1915.8	1923.1	1859.5	1734.9	1606.3	1502.8	1393.5	1299.3	1213.8
35°	1475.0	1679.2	1804.5	1838.3	1792.5	1669.2	1534.0	1424.6	1307.9	1213.1	1127.0
37.5°	1276.1	1516.1	1680.5	1746.1	1715.6	1596.3	1453.1	1342.4	1227.1	1130.3	1049.4
40°	1093.2	1321.2	1534.7	1637.4	1628.1	1517.4	1372.9	1258.2	1140.9	1051.4	962.6
42.5°	929.4	1149.5	1384.2	1522.1	1529.4	1432.6	1284.7	1169.4	1056.7	967.9	875.1
45°	800.1	993.7	1226.4	1390.8	1422.6	1343.1	1193.3	1074.6	971.8	888.3	795.5
47.5°	696.7	847.2	1063.3	1256.2	1312.6	1243.0	1099.8	987.1	890.3	818.7	731.2
50°	607.2	748.4	932.1	1110.4	1193.3	1140.9	1007.0	899.6	812.1	743.1	666.2
52.5°	527.7	637.1	796.2	967.2	1078.6	1030.8	916.8	818.0	735.8	671.5	607.2
55°	462.1	553.5	694.1	846.6	949.3	922.8	821.4	733.2	660.9	599.9	547.6
57.5°	394.4	471.3	584.7	720.6	821.4	817.4	733.9	649.0	592.0	534.3	496.5
60°	335.4	397.8	489.9	605.2	706.7	707.3	642.4	575.4	526.4	476.6	440.8
62.5°	283.1	332.8	413.0	505.8	586.7	607.2	558.8	500.5	460.7	422.3	391.8
65°	238.0	275.1	335.4	419.6	483.3	511.1	479.3	436.9	403.7	369.2	342.1
67.5°	196.2	223.4	267.8	334.1	397.8	418.3	405.0	372.6	348.7	320.2	299.6
70°	154.5	177.7	208.8	258.5	310.9	339.4	335.4	312.2	292.3	271.8	252.6
72.5°	122.6	135.9	159.8	195.6	237.3	269.1	270.5	258.5	242.0	224.7	212.1
75°	98.8	104.7	116.0	143.9	177.0	203.5	212.8	206.8	193.6	183.0	174.3
77.5°	76.2	81.5	88.8	102.1	127.9	148.5	159.8	160.4	152.5	143.2	136.6
80°	57.0	59.0	64.3	70.9	84.2	102.1	115.3	115.3	110.7	106.1	102.1
82.5°	39.1	41.1	43.8	47.1	53.7	64.3	76.2	78.2	75.6	74.2	68.9
85°	21.9	23.9	25.2	27.2	29.8	35.1	43.8	46.4	47.1	43.1	40.4
87.5°	8.6	8.6	9.3	9.9	10.6	12.6	15.9	19.9	19.9	17.9	17.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9	2025.9
2.5°	1992.1	1982.8	1970.9	1960.3	1945.7	1931.1	1928.4	1933.7	1935.1	1928.4	1930.4
5°	1945.0	1927.8	1913.2	1889.3	1874.1	1854.2	1840.9	1840.9	1840.9	1831.0	1821.7
7.5°	1896.0	1872.8	1844.9	1822.4	1791.2	1765.4	1752.8	1746.8	1734.9	1724.9	1713.7
10°	1838.9	1806.5	1772.0	1736.9	1709.7	1673.9	1652.7	1639.4	1618.9	1610.2	1593.7
12.5°	1772.0	1739.5	1697.7	1640.7	1632.8	1589.0	1559.2	1534.7	1509.5	1488.9	1481.6
15°	1718.3	1661.9	1606.3	1565.8	1506.8	1481.0	1437.2	1433.2	1412.7	1352.4	1305.3
17.5°	1631.5	1581.1	1519.4	1474.3	1427.3	1369.6	1323.2	1277.5	1233.7	1191.3	1189.9
20°	1554.6	1495.6	1437.2	1388.2	1306.0	1223.8	1195.2	1153.5	1127.6	1093.8	1083.9
22.5°	1470.4	1408.7	1335.8	1264.2	1168.1	1116.4	1085.2	1052.1	1026.2	1011.0	995.7
25°	1385.5	1323.9	1227.1	1138.9	1073.3	1032.8	1006.3	970.5	952.0	938.7	918.8
27.5°	1302.6	1224.4	1122.3	1052.1	999.0	953.3	929.4	900.2	879.7	862.5	849.9
30°	1220.4	1113.0	1026.2	971.8	917.5	889.0	857.8	835.9	820.7	804.8	784.2
32.5°	1130.3	1017.6	961.2	894.3	862.5	821.4	798.8	776.3	756.4	745.1	737.8
35°	1025.5	934.7	884.3	835.3	794.8	767.7	735.8	721.9	711.3	689.4	680.2
37.5°	936.7	871.1	818.0	774.3	737.2	708.0	693.4	669.6	654.3	647.0	637.1
40°	863.1	804.8	759.0	714.6	683.5	662.3	636.4	623.8	603.9	596.6	588.7
42.5°	799.5	745.8	698.1	664.2	637.1	607.9	594.6	573.4	564.8	546.9	540.3
45°	735.2	687.5	645.7	612.5	586.7	568.8	544.9	531.7	516.4	507.1	489.2
47.5°	670.9	628.5	594.0	566.1	543.6	521.7	501.8	490.6	471.3	461.4	452.1
50°	621.2	580.1	547.6	519.7	496.5	474.7	462.1	443.5	426.3	415.0	411.7
52.5°	562.2	526.4	496.5	475.3	452.1	436.2	419.0	398.4	389.8	378.5	375.9
55°	509.8	480.6	455.4	432.9	413.0	395.1	375.2	360.6	354.0	348.7	344.7
57.5°	460.7	432.9	409.7	389.1	371.9	353.3	336.8	328.1	322.2	316.2	312.2
60°	412.3	387.1	365.9	348.7	330.8	312.9	301.0	293.7	289.0	280.4	277.8
62.5°	369.2	346.0	324.2	308.3	291.7	277.8	267.8	257.9	250.6	244.0	230.0
65°	322.2	301.6	285.1	269.1	253.2	242.6	231.4	220.1	210.8	210.8	210.8
67.5°	280.4	262.5	245.3	231.4	217.4	204.8	193.6	192.9	189.6	188.3	186.3
70°	238.0	225.4	209.5	194.2	180.3	174.3	172.4	169.0	165.1	164.4	161.8
72.5°	199.5	185.0	170.4	157.1	154.5	151.8	147.8	144.5	141.9	139.9	138.6
75°	163.1	148.5	136.6	133.2	129.9	125.3	122.0	119.3	118.0	118.0	117.3
77.5°	124.6	116.0	110.7	105.4	102.8	100.1	98.1	96.8	94.8	95.5	94.1
80°	91.5	88.8	84.2	80.9	79.6	76.9	75.6	74.9	73.6	73.6	72.9
82.5°	65.6	61.0	59.0	57.0	55.7	54.4	55.0	54.4	53.7	53.0	53.7
85°	37.8	37.1	35.8	35.8	35.8	35.1	35.1	35.1	34.5	33.8	33.8
87.5°	16.6	17.2	17.2	15.9	17.9	17.9	17.2	17.2	16.6	17.9	16.6
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: P243256

CATALOG NUMBER: S122RDRP-H1005D830-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2025.9	2025.9	2025.9	2025.9
2.5°	1921.8	1921.1	1917.2	1910.5
5°	1817.7	1815.1	1808.5	1813.8
7.5°	1706.4	1699.1	1692.4	1695.8
10°	1587.0	1584.4	1580.4	1572.5
12.5°	1455.1	1465.7	1454.5	1479.6
15°	1259.6	1306.6	1247.6	1267.5
17.5°	1162.1	1162.8	1154.8	1145.5
20°	1070.6	1047.4	1056.0	1040.8
22.5°	982.5	977.1	974.5	969.2
25°	903.6	893.6	890.3	893.6
27.5°	845.2	840.6	828.0	826.0
30°	772.3	770.3	766.3	765.0
32.5°	726.6	717.9	716.0	708.0
35°	675.5	670.9	667.6	665.6
37.5°	624.5	621.8	615.9	619.2
40°	582.7	569.5	564.1	563.5
42.5°	537.0	529.7	519.1	515.8
45°	483.9	480.6	477.3	476.0
47.5°	437.5	435.5	431.6	429.6
50°	404.4	399.1	398.4	397.8
52.5°	372.6	370.6	368.6	371.2
55°	342.7	340.1	338.1	338.1
57.5°	310.2	305.6	301.6	302.3
60°	272.5	269.8	266.5	265.2
62.5°	228.7	228.7	228.0	228.0
65°	208.2	206.8	206.2	206.8
67.5°	185.6	184.3	182.3	183.0
70°	159.8	159.1	159.8	159.1
72.5°	136.6	135.9	136.6	137.9
75°	115.3	114.7	114.0	114.0
77.5°	93.5	92.8	91.5	92.8
80°	72.9	72.3	71.6	71.6
82.5°	51.7	52.4	51.7	51.7
85°	33.8	34.5	33.8	33.1
87.5°	17.2	17.9	16.6	15.9
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243256
 CATALOG NUMBER: S122RDRP-H1005D830-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	17.53	18.99	17.90	19.30	19.62	23.86	25.32	24.23	25.63	25.95
	3H	18.70	20.01	19.08	20.34	20.70	25.11	26.42	25.49	26.75	27.11
	4H	19.16	20.38	19.56	20.73	21.11	25.55	26.77	25.95	27.12	27.50
	6H	19.49	20.62	19.91	20.99	21.38	25.84	26.97	26.26	27.34	27.73
	8H	19.59	20.66	20.02	21.05	21.45	25.93	27.00	26.35	27.39	27.79
	12H	19.64	20.67	20.08	21.05	21.48	25.97	27.00	26.41	27.38	27.81
4H	2H	18.25	19.48	18.66	19.82	20.20	23.85	25.07	24.25	25.42	25.80
	3H	19.58	20.59	20.00	21.00	21.40	25.23	26.24	25.64	26.64	27.05
	4H	20.13	21.04	20.57	21.46	21.90	25.76	26.67	26.19	27.09	27.53
	6H	20.57	21.35	21.03	21.80	22.26	26.18	26.97	26.64	27.41	27.87
	8H	20.70	21.43	21.16	21.88	22.35	26.31	27.04	26.77	27.49	27.96
	12H	20.78	21.43	21.26	21.91	22.39	26.40	27.06	26.89	27.54	28.01
8H	4H	20.48	21.22	20.95	21.66	22.13	25.76	26.49	26.22	26.94	27.41
	6H	21.01	21.61	21.50	22.10	22.58	26.22	26.83	26.72	27.32	27.80
	8H	21.19	21.73	21.71	22.25	22.73	26.39	26.94	26.91	27.45	27.94
	12H	21.32	21.80	21.83	22.30	22.86	26.54	27.02	27.05	27.51	28.08
12H	4H	20.52	21.18	21.01	21.66	22.13	25.74	26.39	26.22	26.87	27.34
	6H	21.07	21.61	21.58	22.12	22.61	26.20	26.74	26.72	27.26	27.75
	8H	21.30	21.78	21.81	22.27	22.84	26.41	26.88	26.92	27.38	27.94