

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: P242416

Luminaire Tested: S122RDRP-S1005D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDRP-S1005D935-X4F0-XX-UDD-A-W
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

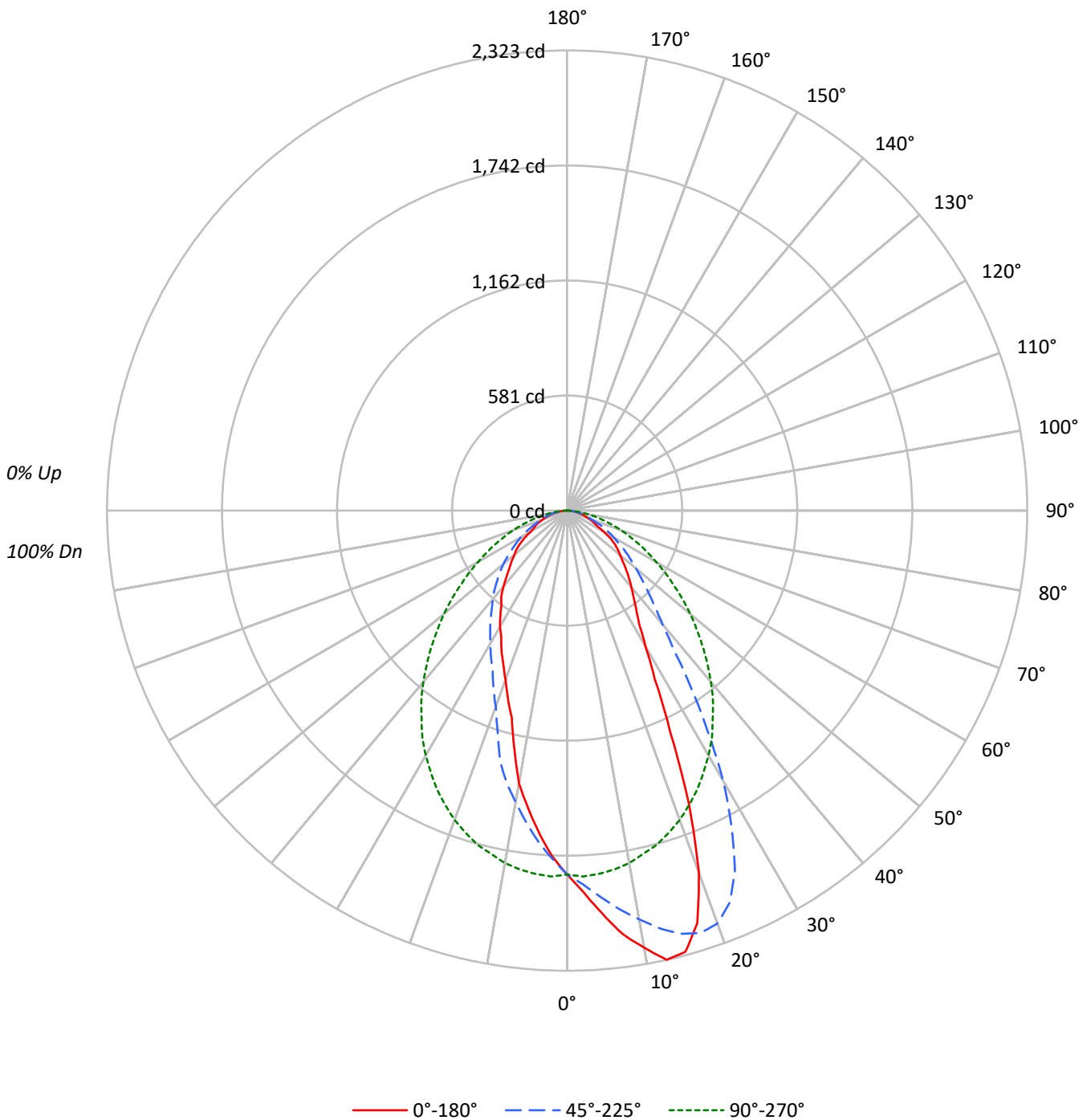
Lumens per Lamp: N/A
Luminaire Lumens: 3173.3 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 1.16 / 1.02
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (A_{in}): 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	111	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	87	83	80	84	81	78					76				
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68					66				
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60					59				
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	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					39				
9	62	50	43	38	61	50	42	37	49	42	37	47	41	37	47	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°	34979	34979	34979	34979	34979
5°	39065	37455	35197	32075	31208
10°	43342	40517	34950	28904	27051
15°	45473	43610	34438	25781	21315
20°	39421	44957	33679	21355	18444
25°	25855	42122	32641	18694	16467
30°	17402	34679	31379	17024	14903
35°	14096	25327	29792	15698	13443
40°	12534	18611	28065	14486	12437
45°	11343	15470	26041	13423	11104
50°	10324	13406	24032	12404	10286
55°	9704	11865	21805	11208	9577
60°	8118	10331	19760	10282	8023
65°	6846	9203	17947	9145	7766
70°	6327	7318	16028	8064	7318
75°	5917	6624	13946	7610	6763
80°	5463	6022	11474	6647	6022
85°	5027	5158	9070	5289	5289

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 70°
 Vertical Angle: 45°
 Luminance: 37933 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.2	5.5
10°-20°	486.2	15.3
20°-30°	625.7	19.7
30°-40°	593.6	18.7
40°-50°	508.6	16.0
50°-60°	387.4	12.2
60°-70°	244.4	7.7
70°-80°	121.9	3.8
80°-90°	31.3	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°	1286.0	40.5
0°-40°	1879.6	59.2
0°-60°	2775.6	87.5
0°-90°	3173.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3173.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1836	1836	1836	1836	1836	
5°	2043	1959	1841	1678	1632	201
15°	2306	2212	1746	1307	1081	627
25°	1230	2004	1553	890	784	581
35°	606	1089	1281	675	578	386
45°	421	574	967	498	412	326
55°	292	357	657	338	288	257
65°	152	204	398	203	172	154
75°	80	90	190	103	92	85
85°	23	24	42	24	24	26
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°	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4
2.5°	1929.5	1931.4	1933.3	1928.9	1928.9	1925.1	1916.8	1910.4	1892.5	1890.0	1890.0
5°	2043.1	2041.8	2044.4	2036.1	2024.6	2022.0	2009.9	1994.0	1977.4	1958.9	1955.0
7.5°	2157.9	2150.3	2147.1	2150.9	2138.8	2122.2	2101.8	2082.7	2053.9	2030.3	2015.7
10°	2240.9	2262.0	2249.2	2226.9	2231.3	2201.3	2185.4	2157.9	2135.0	2094.8	2085.8
12.5°	2322.6	2327.7	2325.8	2315.6	2307.3	2288.8	2265.8	2242.8	2195.6	2160.5	2123.5
15°	2306.0	2318.1	2321.3	2317.5	2320.7	2319.4	2307.9	2288.1	2251.1	2211.5	2177.1
17.5°	2183.5	2197.5	2209.0	2219.2	2235.2	2266.4	2276.0	2279.8	2264.5	2236.4	2207.7
20°	1944.8	1930.8	1989.5	2019.5	2045.0	2108.8	2163.7	2184.7	2218.6	2217.9	2211.5
22.5°	1606.7	1614.3	1669.2	1706.2	1793.0	1856.8	1921.2	2015.0	2088.4	2142.6	2175.8
25°	1230.2	1254.4	1310.0	1358.4	1441.4	1560.1	1667.9	1793.0	1911.0	2004.2	2092.9
27.5°	957.1	960.3	1010.7	1059.8	1110.9	1213.6	1357.8	1507.8	1676.2	1797.4	1950.6
30°	791.2	787.4	805.9	833.3	875.4	950.7	1052.8	1199.6	1367.4	1576.7	1763.0
32.5°	673.8	675.1	687.8	706.3	739.5	784.2	846.1	958.4	1114.7	1319.5	1546.0
35°	606.2	605.5	615.7	630.4	645.1	677.6	725.5	788.0	897.1	1089.2	1312.5
37.5°	550.0	553.2	557.7	567.2	585.1	604.3	634.2	678.3	761.2	880.5	1080.9
40°	504.1	505.4	512.4	520.0	529.6	543.6	567.2	601.1	657.8	748.5	885.6
42.5°	462.0	463.2	467.7	474.7	481.7	495.8	514.3	542.4	585.7	651.5	758.7
45°	421.1	421.1	425.6	428.8	437.1	449.8	465.8	490.0	521.9	574.3	649.6
47.5°	381.6	381.6	384.8	390.5	396.2	406.4	423.0	443.5	466.4	509.2	576.2
50°	348.4	349.0	350.9	355.4	358.6	367.5	379.7	396.9	421.1	452.4	506.0
52.5°	321.6	320.9	323.5	324.8	326.7	332.4	340.7	355.4	376.5	402.6	444.7
55°	292.2	289.7	293.5	296.7	298.6	301.2	306.3	315.8	334.3	357.3	390.5
57.5°	257.8	256.5	258.4	261.6	267.4	273.7	276.9	283.3	292.9	310.7	345.8
60°	213.1	213.1	218.9	220.8	227.8	236.7	245.7	250.8	260.3	271.2	295.4
62.5°	173.6	174.2	176.1	178.0	181.2	192.7	206.1	218.9	227.8	238.0	252.0
65°	151.9	153.1	153.1	154.4	157.0	159.5	164.6	173.6	189.5	204.2	216.3
67.5°	132.7	132.7	133.4	134.6	135.3	138.5	140.4	144.8	148.0	164.6	181.2
70°	113.6	115.5	114.9	116.1	116.8	118.0	120.6	122.5	128.3	131.4	140.4
72.5°	95.7	97.0	97.0	97.6	99.5	99.5	101.5	103.4	106.6	109.1	112.9
75°	80.4	79.8	80.4	81.7	82.3	82.9	82.9	85.5	87.4	90.0	93.2
77.5°	65.1	65.7	65.7	65.7	65.7	67.0	67.0	68.3	70.2	71.5	73.4
80°	49.8	50.4	49.8	50.4	51.0	51.7	51.0	51.7	53.6	54.9	54.9
82.5°	35.7	35.7	36.4	36.4	36.4	36.4	37.6	37.6	38.9	38.3	38.9
85°	23.0	22.3	22.3	22.3	23.0	23.6	23.0	23.0	23.6	23.6	23.6
87.5°	10.2	10.8	10.8	10.8	10.8	10.8	10.8	11.5	10.8	11.5	10.8
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°	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4
2.5°	1891.2	1886.1	1881.7	1870.2	1864.4	1851.7	1849.8	1849.1	1832.5	1816.6	1812.1
5°	1944.8	1934.6	1919.3	1901.4	1882.9	1863.8	1851.0	1840.8	1815.3	1791.1	1777.0
7.5°	1997.8	1979.3	1955.0	1924.4	1898.3	1867.6	1846.6	1827.4	1792.3	1760.4	1739.4
10°	2058.4	2022.7	1987.6	1941.0	1904.6	1868.9	1835.7	1807.0	1766.2	1720.2	1687.7
12.5°	2096.1	2055.9	2004.2	1958.9	1909.1	1861.2	1814.0	1775.1	1725.3	1677.5	1637.3
15°	2129.2	2087.1	2028.4	1963.3	1902.7	1843.4	1792.3	1746.4	1683.9	1627.1	1579.9
17.5°	2159.9	2101.8	2041.2	1965.9	1898.9	1826.8	1762.3	1704.9	1636.6	1569.6	1516.1
20°	2173.3	2115.8	2043.1	1967.8	1884.9	1796.2	1725.3	1661.5	1586.9	1512.2	1448.4
22.5°	2165.0	2123.5	2040.5	1946.7	1861.2	1767.5	1685.1	1608.6	1523.7	1447.1	1370.6
25°	2121.6	2106.3	2029.7	1931.4	1834.4	1726.6	1634.1	1553.1	1458.6	1377.0	1296.6
27.5°	2041.8	2064.2	2009.9	1903.4	1798.7	1682.6	1581.8	1490.5	1394.2	1302.9	1222.5
30°	1915.5	1991.4	1971.0	1874.0	1753.4	1639.8	1523.1	1426.7	1322.1	1227.6	1148.5
32.5°	1742.6	1880.4	1910.4	1833.2	1707.5	1579.9	1456.1	1360.4	1250.0	1149.2	1072.6
35°	1556.9	1744.5	1830.6	1778.9	1653.9	1519.2	1392.9	1281.2	1171.5	1073.2	996.7
37.5°	1336.8	1586.9	1719.6	1713.9	1594.5	1457.3	1320.2	1209.8	1096.8	999.9	920.1
40°	1123.6	1400.6	1587.5	1629.0	1532.0	1380.8	1241.7	1128.7	1019.0	924.6	829.5
42.5°	932.2	1207.9	1448.4	1528.2	1456.1	1306.1	1166.4	1047.1	941.2	853.1	755.5
45°	784.8	1026.0	1279.3	1408.2	1365.5	1226.4	1079.0	966.7	866.5	789.3	696.1
47.5°	679.5	855.0	1109.6	1278.1	1272.9	1140.9	994.1	886.3	791.8	720.4	641.3
50°	592.1	740.2	947.5	1145.3	1161.9	1055.4	917.5	811.0	724.2	648.3	587.7
52.5°	513.6	629.1	810.3	997.9	1052.8	964.1	831.4	735.1	651.5	583.2	533.4
55°	447.3	541.7	683.4	860.8	932.2	867.1	748.5	656.6	588.3	529.6	484.9
57.5°	389.2	463.2	581.3	730.0	811.0	767.0	665.5	589.6	529.0	474.1	438.4
60°	335.0	393.1	489.4	608.7	700.6	671.9	588.3	518.7	469.0	423.0	389.9
62.5°	283.9	331.8	410.9	502.2	584.5	576.8	512.4	456.9	414.7	373.9	347.1
65°	236.7	273.1	337.5	413.5	481.1	486.8	437.7	398.2	359.2	326.1	301.2
67.5°	195.9	220.8	269.3	336.3	387.9	405.8	372.6	340.7	308.8	282.0	259.7
70°	158.9	178.0	211.2	262.9	309.5	328.6	311.4	287.8	261.0	239.9	221.4
72.5°	121.2	139.7	162.1	196.5	234.8	255.9	252.7	237.4	216.9	200.4	183.1
75°	97.0	102.7	119.3	144.8	176.1	194.0	198.4	189.5	172.3	158.9	148.7
77.5°	75.3	79.1	88.1	103.4	125.1	141.0	148.0	146.8	134.0	125.1	115.5
80°	57.4	59.3	63.2	68.9	84.2	100.2	104.6	104.6	96.3	93.2	83.6
82.5°	40.2	41.5	43.4	45.9	51.0	64.4	69.5	70.8	66.4	61.9	54.9
85°	24.9	24.2	25.5	27.4	28.7	32.5	40.2	41.5	40.2	35.1	33.2
87.5°	10.8	11.5	11.5	10.8	11.5	12.1	15.3	18.5	16.0	14.0	12.8
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°	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4	1836.4
2.5°	1803.8	1799.4	1791.1	1778.3	1770.6	1757.2	1748.3	1753.4	1754.7	1753.4	1752.1
5°	1761.7	1748.3	1729.8	1711.9	1695.3	1677.5	1667.3	1662.8	1653.9	1648.8	1646.2
7.5°	1713.9	1694.1	1667.9	1639.2	1612.4	1586.9	1575.4	1566.5	1549.9	1540.9	1532.6
10°	1659.0	1622.6	1596.4	1555.6	1530.7	1494.4	1469.5	1470.1	1445.2	1431.2	1421.0
12.5°	1598.4	1557.5	1509.7	1473.9	1436.9	1409.5	1378.2	1362.9	1336.1	1322.7	1290.8
15°	1530.1	1483.5	1437.6	1387.8	1352.7	1307.4	1264.0	1211.1	1168.3	1131.3	1121.1
17.5°	1457.3	1399.9	1354.6	1303.6	1248.7	1166.4	1112.8	1080.3	1054.7	1035.6	1020.3
20°	1382.1	1323.4	1274.2	1186.2	1105.1	1053.5	1016.4	992.8	966.0	945.0	933.5
22.5°	1302.9	1241.0	1169.6	1068.8	1010.1	971.1	939.2	911.2	895.2	879.9	869.7
25°	1228.9	1161.9	1051.5	983.9	932.9	889.5	866.5	849.9	830.8	808.4	798.2
27.5°	1151.7	1045.2	961.6	912.4	860.1	832.7	812.9	785.5	768.2	759.9	748.5
30°	1063.0	956.5	894.6	839.7	805.2	774.0	749.7	735.7	719.1	701.9	694.9
32.5°	964.1	884.4	825.7	782.3	747.2	721.7	703.8	678.9	668.1	659.1	642.5
35°	885.6	821.2	767.0	730.0	696.8	675.1	652.7	639.3	617.7	608.7	603.0
37.5°	814.2	758.0	717.2	676.4	650.8	625.3	612.5	590.2	581.9	567.9	556.4
40°	755.5	700.6	661.7	629.8	600.4	582.6	565.3	548.1	534.1	528.3	513.6
42.5°	695.5	653.4	614.5	578.7	561.5	542.4	519.4	507.9	493.2	483.0	475.4
45°	641.3	601.7	568.5	539.8	518.1	498.3	484.3	463.2	454.9	436.4	428.8
47.5°	593.4	555.1	523.2	495.1	473.4	462.0	441.5	423.0	411.6	398.8	387.9
50°	541.7	511.1	480.5	456.2	437.1	418.6	397.5	389.2	368.8	363.1	357.3
52.5°	494.5	465.8	438.4	414.7	395.6	377.7	359.9	348.4	336.3	330.5	326.7
55°	451.1	423.0	396.2	375.2	356.0	337.5	326.1	312.7	306.3	301.8	296.7
57.5°	406.4	380.9	359.9	338.2	319.0	303.7	289.7	282.0	275.6	270.5	263.5
60°	364.3	340.1	321.6	301.8	282.0	269.9	259.7	250.1	242.5	233.5	231.0
62.5°	319.7	299.3	282.7	263.5	246.9	236.1	226.5	217.6	208.0	194.0	190.1
65°	279.5	262.9	245.0	229.1	213.8	202.9	188.9	178.7	174.8	173.6	172.9
67.5°	242.5	226.5	211.2	194.6	180.6	168.5	160.2	158.9	156.3	155.7	153.8
70°	205.5	190.8	175.5	160.2	146.8	144.8	142.3	139.7	136.5	135.3	134.0
72.5°	172.3	157.0	141.7	130.2	126.3	123.8	121.2	118.7	116.8	115.5	114.9
75°	137.2	123.1	112.9	108.5	105.3	103.4	99.5	97.6	96.3	94.4	93.8
77.5°	104.6	95.7	90.6	88.1	84.2	82.3	79.8	77.8	75.9	75.9	74.7
80°	75.3	71.5	68.3	64.4	63.2	60.6	60.0	58.1	58.7	56.8	56.8
82.5°	54.2	49.1	46.6	45.3	44.0	42.1	41.5	40.8	40.8	39.6	39.6
85°	30.0	28.7	27.4	26.2	26.2	24.2	24.9	24.2	24.2	23.0	22.3
87.5°	12.1	11.5	10.2	10.2	10.2	9.6	9.6	8.9	8.9	8.9	8.3
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: P242416

CATALOG NUMBER: S122RDRP-S1005D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1836.4	1836.4	1836.4	1836.4
2.5°	1745.1	1746.4	1744.5	1745.8
5°	1643.0	1635.4	1634.1	1632.2
7.5°	1522.4	1521.8	1518.0	1513.5
10°	1406.9	1403.8	1403.1	1398.6
12.5°	1271.7	1246.8	1244.2	1231.5
15°	1105.8	1101.9	1089.2	1080.9
17.5°	1013.3	1000.5	996.0	994.1
20°	924.6	913.1	911.2	909.9
22.5°	863.3	851.2	845.4	841.0
25°	791.8	787.4	784.8	783.5
27.5°	735.7	724.2	722.9	719.7
30°	689.1	685.9	681.5	677.6
32.5°	634.2	631.7	627.9	626.6
35°	596.6	587.7	583.8	578.1
37.5°	555.1	550.0	543.6	546.2
40°	505.4	502.2	500.9	500.2
42.5°	465.8	455.6	451.8	451.8
45°	425.6	417.3	411.6	412.2
47.5°	382.2	382.8	379.0	380.3
50°	352.9	349.0	346.5	347.1
52.5°	324.8	321.6	319.7	322.9
55°	293.5	289.7	289.0	288.4
57.5°	259.7	257.8	254.6	252.7
60°	222.7	217.6	211.2	210.6
62.5°	188.9	188.9	188.9	188.9
65°	171.6	171.0	171.6	172.3
67.5°	153.8	152.5	151.2	151.9
70°	132.7	132.1	131.4	131.4
72.5°	112.3	112.3	111.7	111.0
75°	93.2	91.9	91.9	91.9
77.5°	74.7	74.0	73.4	72.7
80°	56.2	55.5	54.9	54.9
82.5°	39.6	38.9	38.9	38.3
85°	23.0	23.6	23.0	24.2
87.5°	8.3	7.7	8.3	7.7
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242416
 CATALOG NUMBER: S122RDRP-S1005D935-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	17.89	19.34	18.25	19.65	19.96	23.79	25.24	24.15	25.55	25.87
	3H	19.00	20.30	19.38	20.62	20.99	24.94	26.24	25.32	26.57	26.93
	4H	19.45	20.67	19.85	21.02	21.40	25.34	26.55	25.74	26.90	27.28
	6H	19.82	20.94	20.23	21.31	21.70	25.60	26.72	26.02	27.09	27.48
	8H	19.94	21.01	20.37	21.40	21.80	25.67	26.74	26.10	27.13	27.53
	12H	20.02	21.04	20.45	21.43	21.86	25.71	26.73	26.14	27.11	27.54
4H	2H	18.60	19.81	19.00	20.16	20.54	23.75	24.96	24.15	25.31	25.69
	3H	19.87	20.87	20.28	21.27	21.67	25.04	26.05	25.46	26.45	26.85
	4H	20.42	21.32	20.85	21.74	22.18	25.54	26.44	25.97	26.86	27.30
	6H	20.89	21.67	21.35	22.11	22.58	25.92	26.71	26.38	27.15	27.61
	8H	21.05	21.78	21.51	22.22	22.69	26.04	26.77	26.50	27.21	27.68
	12H	21.17	21.82	21.65	22.30	22.77	26.11	26.77	26.60	27.25	27.72
8H	4H	20.76	21.49	21.22	21.94	22.41	25.52	26.26	25.99	26.70	27.17
	6H	21.33	21.93	21.83	22.42	22.90	25.95	26.55	26.45	27.05	27.53
	8H	21.55	22.09	22.07	22.61	23.09	26.10	26.64	26.62	27.15	27.64
	12H	21.74	22.22	22.25	22.71	23.28	26.22	26.70	26.73	27.19	27.76
12H	4H	20.80	21.45	21.28	21.93	22.40	25.50	26.15	25.98	26.63	27.10
	6H	21.39	21.93	21.91	22.44	22.93	25.92	26.47	26.44	26.98	27.47
	8H	21.67	22.15	22.18	22.64	23.21	26.11	26.58	26.62	27.08	27.64