

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: P242391

Luminaire Tested: S122RDRP-S1005D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242391
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-S1005D927-X4F0-XX-UDD-A-W
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

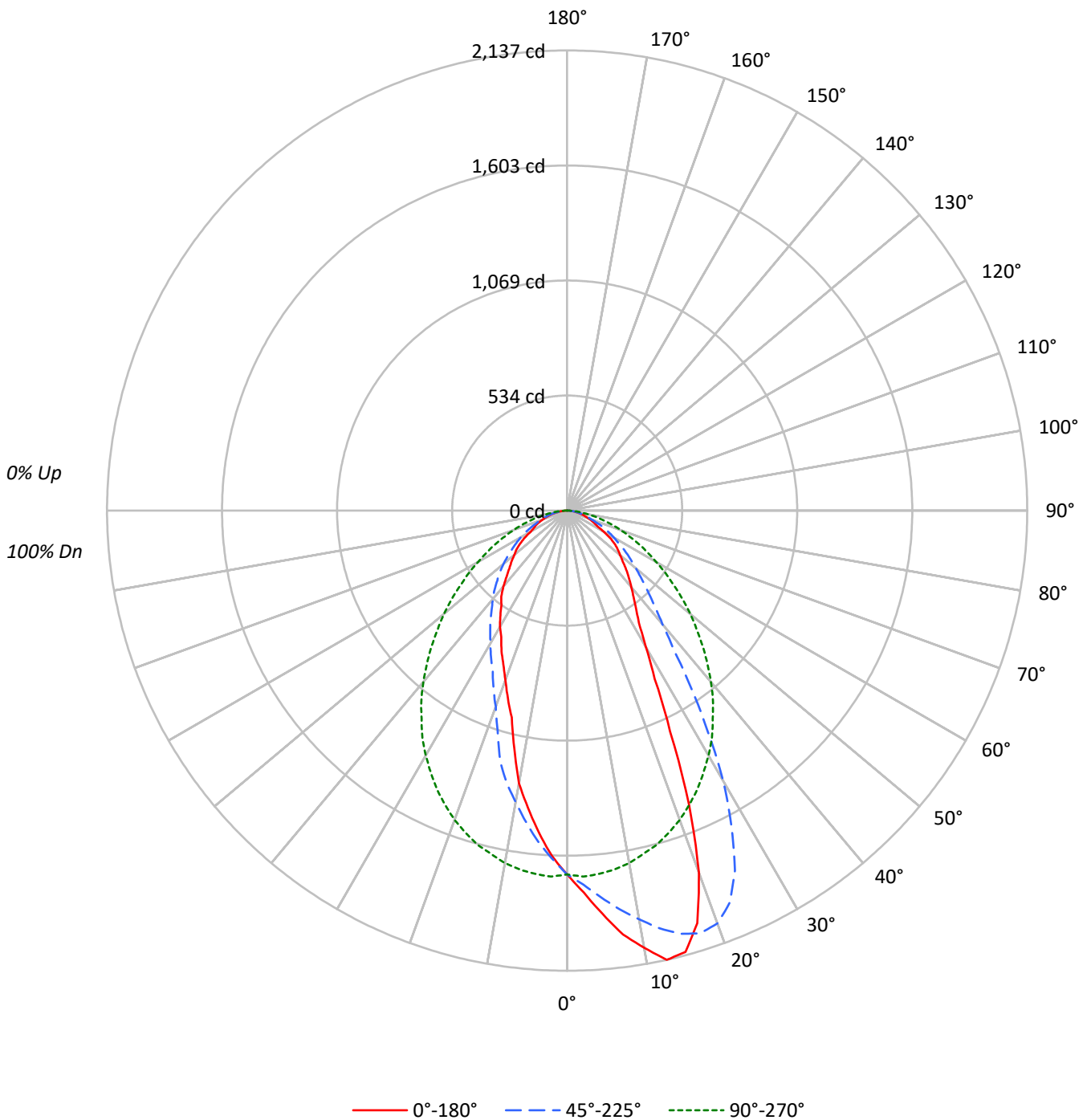
Lumens per Lamp: N/A
Luminaire Lumens: 2919.7 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 1.16 / 1.02
Luminous Opening: Rectangular (W 3.88' x L: 0.15' x H: 0')
CIE Type: Direct

Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (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	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°	32183	32183	32183	32183	32183
5°	35943	34461	32384	29511	28713
10°	39878	37277	32157	26593	24891
15°	41839	40126	31686	23721	19611
20°	36271	41365	30987	19648	16970
25°	23789	38755	30031	17200	15151
30°	16012	31905	28872	15662	13714
35°	12968	23302	27411	14442	12368
40°	11532	17122	25822	13328	11445
45°	10438	14234	23958	12351	10215
50°	9497	12333	22112	11412	9465
55°	8930	10919	20061	10315	8814
60°	7471	9505	18183	9459	7379
65°	6296	8469	16509	8415	7144
70°	5820	6733	14747	7424	6733
75°	5446	6094	12835	6999	6219
80°	5024	5539	10563	6121	5539
85°	4611	4742	8349	4874	4874

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 70°
 Vertical Angle: 45°
 Luminance: 34903 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.3	5.5
10°-20°	447.3	15.3
20°-30°	575.7	19.7
30°-40°	546.1	18.7
40°-50°	468.0	16.0
50°-60°	356.5	12.2
60°-70°	224.8	7.7
70°-80°	112.2	3.8
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°	1183.2	40.5
0°-40°	1729.4	59.2
0°-60°	2553.8	87.5
0°-90°	2919.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2919.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1690	1690	1690	1690	1690	
5°	1880	1802	1694	1543	1502	185
15°	2122	2035	1607	1203	994	577
25°	1132	1844	1429	818	721	534
35°	558	1002	1179	621	532	355
45°	388	528	889	458	379	300
55°	269	329	604	311	265	237
65°	140	188	366	187	158	141
75°	74	83	174	95	84	78
85°	21	22	38	22	22	23
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°	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6
2.5°	1775.3	1777.1	1778.8	1774.7	1774.7	1771.2	1763.6	1757.7	1741.2	1738.9	1738.9
5°	1879.8	1878.6	1881.0	1873.3	1862.8	1860.4	1849.3	1834.6	1819.3	1802.3	1798.8
7.5°	1985.5	1978.4	1975.5	1979.0	1967.9	1952.6	1933.8	1916.2	1889.8	1868.1	1854.6
10°	2061.8	2081.2	2069.4	2048.9	2053.0	2025.4	2010.7	1985.5	1964.3	1927.3	1919.1
12.5°	2136.9	2141.6	2139.9	2130.5	2122.8	2105.8	2084.7	2063.5	2020.1	1987.8	1953.8
15°	2121.7	2132.8	2135.8	2132.2	2135.2	2134.0	2123.4	2105.2	2071.2	2034.8	2003.1
17.5°	2009.0	2021.9	2032.4	2041.8	2056.5	2085.3	2094.1	2097.6	2083.5	2057.7	2031.3
20°	1789.4	1776.5	1830.5	1858.1	1881.6	1940.3	1990.8	2010.1	2041.2	2040.7	2034.8
22.5°	1478.2	1485.3	1535.8	1569.8	1649.7	1708.4	1767.7	1854.0	1921.5	1971.4	2001.9
25°	1131.9	1154.2	1205.3	1249.9	1326.2	1435.4	1534.6	1649.7	1758.3	1844.0	1925.6
27.5°	880.6	883.5	929.9	975.1	1022.1	1116.6	1249.3	1387.2	1542.2	1653.8	1794.7
30°	728.0	724.4	741.5	766.7	805.5	874.7	968.7	1103.7	1258.1	1450.6	1622.1
32.5°	619.9	621.1	632.9	649.9	680.4	721.5	778.5	881.8	1025.6	1214.1	1422.5
35°	557.7	557.1	566.5	580.0	593.5	623.5	667.5	725.0	825.4	1002.1	1207.6
37.5°	506.1	509.0	513.1	521.9	538.3	556.0	583.5	624.1	700.4	810.2	994.5
40°	463.8	465.0	471.4	478.5	487.3	500.2	521.9	553.0	605.3	688.6	814.9
42.5°	425.0	426.2	430.3	436.8	443.2	456.2	473.2	499.0	538.9	599.4	698.0
45°	387.5	387.5	391.6	394.5	402.1	413.9	428.6	450.9	480.2	528.4	597.6
47.5°	351.1	351.1	354.0	359.3	364.6	374.0	389.2	408.0	429.1	468.5	530.1
50°	320.5	321.1	322.9	327.0	329.9	338.2	349.3	365.2	387.5	416.2	465.5
52.5°	295.9	295.3	297.6	298.8	300.6	305.9	313.5	327.0	346.4	370.4	409.2
55°	268.9	266.5	270.1	273.0	274.7	277.1	281.8	290.6	307.6	328.8	359.3
57.5°	237.2	236.0	237.8	240.7	246.0	251.9	254.8	260.7	269.5	285.9	318.2
60°	196.1	196.1	201.4	203.1	209.6	217.8	226.0	230.7	239.5	249.5	271.8
62.5°	159.7	160.3	162.0	163.8	166.7	177.3	189.6	201.4	209.6	219.0	231.9
65°	139.7	140.9	140.9	142.1	144.4	146.8	151.5	159.7	174.4	187.9	199.0
67.5°	122.1	122.1	122.7	123.9	124.5	127.4	129.2	133.3	136.2	151.5	166.7
70°	104.5	106.3	105.7	106.8	107.4	108.6	111.0	112.7	118.0	120.9	129.2
72.5°	88.1	89.2	89.2	89.8	91.6	91.6	93.3	95.1	98.0	100.4	103.9
75°	74.0	73.4	74.0	75.1	75.7	76.3	76.3	78.7	80.4	82.8	85.7
77.5°	59.9	60.5	60.5	60.5	60.5	61.6	61.6	62.8	64.6	65.8	67.5
80°	45.8	46.4	45.8	46.4	47.0	47.6	47.0	47.6	49.3	50.5	50.5
82.5°	32.9	32.9	33.5	33.5	33.5	33.5	34.6	34.6	35.8	35.2	35.8
85°	21.1	20.5	20.5	20.5	21.1	21.7	21.1	21.1	21.7	21.7	21.7
87.5°	9.4	10.0	10.0	10.0	10.0	10.0	10.0	10.6	10.0	10.6	10.0
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°	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6
2.5°	1740.1	1735.4	1731.3	1720.7	1715.4	1703.7	1701.9	1701.3	1686.1	1671.4	1667.3
5°	1789.4	1780.0	1765.9	1749.5	1732.4	1714.8	1703.1	1693.7	1670.2	1647.9	1635.0
7.5°	1838.1	1821.1	1798.8	1770.6	1746.5	1718.4	1699.0	1681.4	1649.1	1619.7	1600.4
10°	1893.9	1861.0	1828.7	1785.9	1752.4	1719.5	1689.0	1662.6	1625.0	1582.7	1552.8
12.5°	1928.5	1891.5	1844.0	1802.3	1756.5	1712.5	1669.0	1633.2	1587.4	1543.4	1506.4
15°	1959.1	1920.3	1866.3	1806.4	1750.6	1696.0	1649.1	1606.8	1549.3	1497.0	1453.6
17.5°	1987.2	1933.8	1878.0	1808.8	1747.1	1680.8	1621.5	1568.6	1505.8	1444.2	1394.9
20°	1999.6	1946.7	1879.8	1810.5	1734.2	1652.6	1587.4	1528.7	1460.0	1391.4	1332.6
22.5°	1991.9	1953.8	1877.4	1791.1	1712.5	1626.2	1550.5	1480.0	1401.9	1331.5	1261.0
25°	1952.0	1937.9	1867.5	1777.1	1687.8	1588.6	1503.5	1428.9	1342.0	1266.9	1192.9
27.5°	1878.6	1899.2	1849.3	1751.2	1654.9	1548.1	1455.3	1371.4	1282.7	1198.8	1124.8
30°	1762.4	1832.2	1813.5	1724.2	1613.3	1508.8	1401.3	1312.7	1216.4	1129.5	1056.7
32.5°	1603.3	1730.1	1757.7	1686.7	1571.0	1453.6	1339.7	1251.6	1150.1	1057.3	986.9
35°	1432.4	1605.0	1684.3	1636.7	1521.7	1397.8	1281.6	1178.8	1077.9	987.5	917.0
37.5°	1229.9	1460.0	1582.2	1576.9	1467.1	1340.9	1214.6	1113.1	1009.2	919.9	846.6
40°	1033.8	1288.6	1460.6	1498.8	1409.6	1270.4	1142.4	1038.5	937.5	850.7	763.2
42.5°	857.7	1111.3	1332.6	1406.0	1339.7	1201.7	1073.2	963.4	865.9	784.9	695.1
45°	722.1	944.0	1177.1	1295.7	1256.3	1128.3	992.7	889.4	797.2	726.2	640.5
47.5°	625.2	786.7	1020.9	1175.9	1171.2	1049.7	914.7	815.4	728.6	662.8	590.0
50°	544.8	681.0	871.8	1053.8	1069.1	971.0	844.2	746.2	666.3	596.5	540.7
52.5°	472.6	578.9	745.6	918.2	968.7	887.1	765.0	676.3	599.4	536.6	490.8
55°	411.5	498.4	628.8	792.0	857.7	797.8	688.6	604.1	541.3	487.3	446.2
57.5°	358.1	426.2	534.8	671.6	746.2	705.7	612.3	542.5	486.7	436.2	403.3
60°	308.2	361.6	450.3	560.1	644.6	618.2	541.3	477.3	431.5	389.2	358.7
62.5°	261.2	305.3	378.1	462.0	537.8	530.7	471.4	420.3	381.6	344.0	319.4
65°	217.8	251.3	310.6	380.4	442.7	447.9	402.7	366.3	330.5	300.0	277.1
67.5°	180.2	203.1	247.7	309.4	356.9	373.4	342.8	313.5	284.1	259.5	238.9
70°	146.2	163.8	194.3	241.9	284.7	302.3	286.5	264.8	240.1	220.7	203.7
72.5°	111.5	128.6	149.1	180.8	216.0	235.4	232.5	218.4	199.6	184.3	168.5
75°	89.2	94.5	109.8	133.3	162.0	178.5	182.6	174.4	158.5	146.2	136.8
77.5°	69.3	72.8	81.0	95.1	115.1	129.7	136.2	135.0	123.3	115.1	106.3
80°	52.8	54.6	58.1	63.4	77.5	92.2	96.3	96.3	88.6	85.7	76.9
82.5°	37.0	38.2	39.9	42.3	47.0	59.3	64.0	65.2	61.1	56.9	50.5
85°	22.9	22.3	23.5	25.2	26.4	29.9	37.0	38.2	37.0	32.3	30.5
87.5°	10.0	10.6	10.6	10.0	10.6	11.2	14.1	17.0	14.7	12.9	11.7
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°	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6	1689.6
2.5°	1659.6	1655.5	1647.9	1636.2	1629.1	1616.8	1608.6	1613.3	1614.4	1613.3	1612.1
5°	1620.9	1608.6	1591.5	1575.1	1559.8	1543.4	1534.0	1529.9	1521.7	1517.0	1514.6
7.5°	1576.9	1558.7	1534.6	1508.2	1483.5	1460.0	1449.5	1441.3	1426.0	1417.8	1410.1
10°	1526.4	1492.9	1468.8	1431.3	1408.4	1374.9	1352.0	1352.6	1329.7	1316.8	1307.4
12.5°	1470.6	1433.0	1389.0	1356.1	1322.1	1296.8	1268.1	1254.0	1229.3	1217.0	1187.6
15°	1407.8	1364.9	1322.7	1276.9	1244.6	1202.9	1163.0	1114.3	1074.9	1040.9	1031.5
17.5°	1340.9	1288.0	1246.3	1199.4	1148.9	1073.2	1023.8	993.9	970.4	952.8	938.7
20°	1271.6	1217.6	1172.4	1091.4	1016.8	969.3	935.2	913.5	888.8	869.4	858.9
22.5°	1198.8	1141.9	1076.1	983.3	929.3	893.5	864.2	838.3	823.7	809.6	800.2
25°	1130.7	1069.1	967.5	905.3	858.3	818.4	797.2	782.0	764.4	743.8	734.4
27.5°	1059.7	961.6	884.7	839.5	791.4	766.1	747.9	722.7	706.8	699.2	688.6
30°	978.1	880.0	823.1	772.6	740.9	712.1	689.8	676.9	661.6	645.8	639.3
32.5°	887.1	813.7	759.7	719.7	687.5	664.0	647.5	624.6	614.7	606.4	591.2
35°	814.9	755.6	705.7	671.6	641.1	621.1	600.6	588.2	568.3	560.1	554.8
37.5°	749.1	697.4	659.9	622.3	598.8	575.3	563.6	543.0	535.4	522.5	511.9
40°	695.1	644.6	608.8	579.4	552.4	536.0	520.1	504.3	491.4	486.1	472.6
42.5°	639.9	601.2	565.3	532.5	516.6	499.0	477.9	467.3	453.8	444.4	437.4
45°	590.0	553.6	523.1	496.7	476.7	458.5	445.6	426.2	418.6	401.6	394.5
47.5°	546.0	510.8	481.4	455.6	435.6	425.0	406.3	389.2	378.7	366.9	356.9
50°	498.4	470.2	442.1	419.8	402.1	385.1	365.7	358.1	339.3	334.0	328.8
52.5°	455.0	428.6	403.3	381.6	364.0	347.5	331.1	320.5	309.4	304.1	300.6
55°	415.1	389.2	364.6	345.2	327.6	310.6	300.0	287.7	281.8	277.7	273.0
57.5°	374.0	350.5	331.1	311.1	293.5	279.4	266.5	259.5	253.6	248.9	242.5
60°	335.2	312.9	295.9	277.7	259.5	248.3	238.9	230.1	223.1	214.9	212.5
62.5°	294.1	275.3	260.1	242.5	227.2	217.2	208.4	200.2	191.4	178.5	174.9
65°	257.1	241.9	225.4	210.8	196.7	186.7	173.8	164.4	160.9	159.7	159.1
67.5°	223.1	208.4	194.3	179.1	166.1	155.0	147.4	146.2	143.8	143.2	141.5
70°	189.0	175.5	161.4	147.4	135.0	133.3	130.9	128.6	125.6	124.5	123.3
72.5°	158.5	144.4	130.3	119.8	116.2	113.9	111.5	109.2	107.4	106.3	105.7
75°	126.2	113.3	103.9	99.8	96.9	95.1	91.6	89.8	88.6	86.9	86.3
77.5°	96.3	88.1	83.4	81.0	77.5	75.7	73.4	71.6	69.9	69.9	68.7
80°	69.3	65.8	62.8	59.3	58.1	55.8	55.2	53.4	54.0	52.2	52.2
82.5°	49.9	45.2	42.9	41.7	40.5	38.7	38.2	37.6	37.6	36.4	36.4
85°	27.6	26.4	25.2	24.1	24.1	22.3	22.9	22.3	22.3	21.1	20.5
87.5°	11.2	10.6	9.4	9.4	9.4	8.8	8.8	8.2	8.2	8.2	7.6
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: P242391

CATALOG NUMBER: S122RDRP-S1005D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1689.6	1689.6	1689.6	1689.6
2.5°	1605.6	1606.8	1605.0	1606.2
5°	1511.7	1504.7	1503.5	1501.7
7.5°	1400.7	1400.2	1396.6	1392.5
10°	1294.5	1291.6	1291.0	1286.9
12.5°	1170.0	1147.1	1144.8	1133.0
15°	1017.4	1013.9	1002.1	994.5
17.5°	932.3	920.5	916.4	914.7
20°	850.7	840.1	838.3	837.2
22.5°	794.3	783.2	777.9	773.8
25°	728.6	724.4	722.1	720.9
27.5°	676.9	666.3	665.1	662.2
30°	634.0	631.1	627.0	623.5
32.5°	583.5	581.2	577.7	576.5
35°	548.9	540.7	537.2	531.9
37.5°	510.8	506.1	500.2	502.5
40°	465.0	462.0	460.8	460.3
42.5°	428.6	419.2	415.6	415.6
45°	391.6	383.9	378.7	379.2
47.5°	351.7	352.2	348.7	349.9
50°	324.6	321.1	318.8	319.4
52.5°	298.8	295.9	294.1	297.1
55°	270.1	266.5	265.9	265.4
57.5°	238.9	237.2	234.2	232.5
60°	204.9	200.2	194.3	193.7
62.5°	173.8	173.8	173.8	173.8
65°	157.9	157.3	157.9	158.5
67.5°	141.5	140.3	139.1	139.7
70°	122.1	121.5	120.9	120.9
72.5°	103.3	103.3	102.7	102.2
75°	85.7	84.5	84.5	84.5
77.5°	68.7	68.1	67.5	66.9
80°	51.7	51.1	50.5	50.5
82.5°	36.4	35.8	35.8	35.2
85°	21.1	21.7	21.1	22.3
87.5°	7.6	7.0	7.6	7.0
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242391
 CATALOG NUMBER: S122RDRP-S1005D927-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	17.60	19.05	17.96	19.36	19.68	23.50	24.95	23.86	25.26	25.58
	3H	18.71	20.01	19.09	20.34	20.70	24.65	25.95	25.03	26.28	26.64
	4H	19.16	20.38	19.56	20.73	21.11	25.05	26.26	25.45	26.61	26.99
	6H	19.53	20.65	19.94	21.02	21.41	25.31	26.44	25.73	26.80	27.20
	8H	19.65	20.72	20.08	21.11	21.51	25.38	26.45	25.81	26.84	27.24
	12H	19.74	20.76	20.17	21.14	21.57	25.42	26.44	25.85	26.82	27.25
4H	2H	18.31	19.52	18.71	19.87	20.25	23.46	24.68	23.86	25.02	25.40
	3H	19.58	20.58	19.99	20.98	21.39	24.76	25.76	25.17	26.16	26.56
	4H	20.13	21.03	20.56	21.45	21.89	25.25	26.15	25.68	26.57	27.01
	6H	20.60	21.38	21.06	21.83	22.29	25.63	26.42	26.09	26.86	27.32
	8H	20.76	21.49	21.22	21.94	22.40	25.75	26.48	26.21	26.93	27.39
	12H	20.88	21.53	21.36	22.01	22.48	25.82	26.48	26.31	26.96	27.43
8H	4H	20.47	21.20	20.94	21.65	22.12	25.23	25.97	25.70	26.41	26.88
	6H	21.04	21.64	21.54	22.14	22.61	25.66	26.26	26.16	26.76	27.24
	8H	21.26	21.80	21.78	22.32	22.81	25.81	26.35	26.33	26.86	27.35
	12H	21.45	21.93	21.96	22.42	22.99	25.93	26.41	26.44	26.90	27.47
12H	4H	20.51	21.16	20.99	21.64	22.11	25.21	25.86	25.69	26.34	26.81
	6H	21.10	21.64	21.62	22.16	22.65	25.63	26.18	26.15	26.69	27.18
	8H	21.38	21.86	21.89	22.35	22.92	25.82	26.29	26.33	26.79	27.35