

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: P242932

Luminaire Tested: S125RDRP-S1270D935-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-32)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D935-X4F0-XX-UDD-A-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

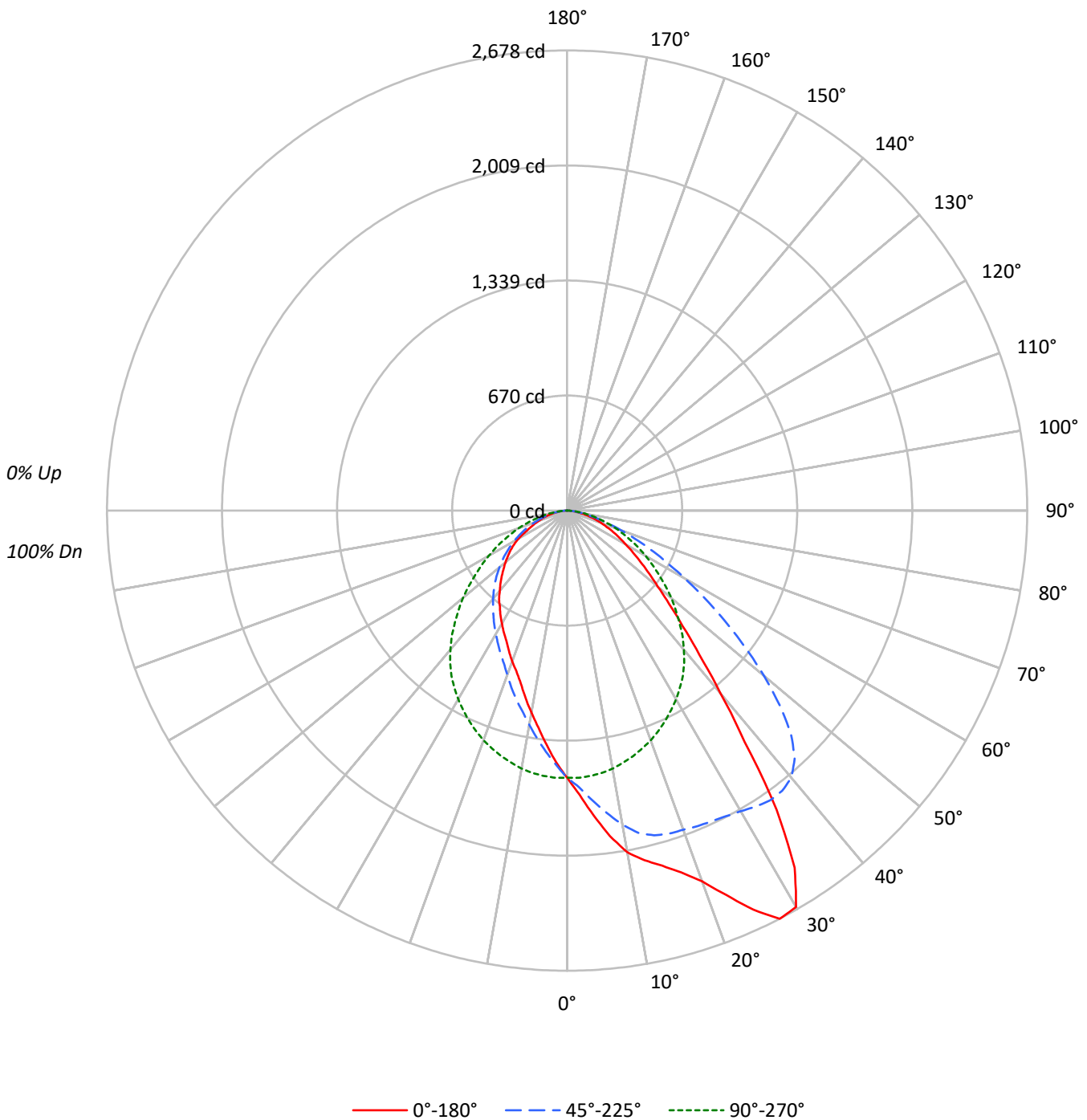
Lumens per Lamp: N/A
Luminaire Lumens: 4026.8 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.21 / 1.48
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55					55			
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	61	49	42	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	42	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11046	11046	11046	11046	11046
5°	12709	12080	11061	10050	9768
10°	14578	13399	11004	9135	8619
15°	15745	14398	10891	8389	7661
20°	17362	14949	10761	7701	7074
25°	20093	15635	10587	7200	6565
30°	21866	16577	10404	6802	6231
35°	18444	17869	10191	6487	5923
40°	12881	18835	9809	6215	5659
45°	9555	18533	9292	5957	5400
50°	7618	16514	8755	5679	5178
55°	6467	13866	8088	5391	4980
60°	5586	11237	7491	5060	4661
65°	4978	8970	6845	4689	4013
70°	4374	6880	6272	4256	3659
75°	3784	5132	5432	3784	3433
80°	2873	3684	4568	3369	2873
85°	2389	2601	3588	2862	2707

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 18533 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	3.7
10°-20°	436.9	10.9
20°-30°	692.8	17.2
30°-40°	837.2	20.8
40°-50°	745.5	18.5
50°-60°	571.6	14.2
60°-70°	371.2	9.2
70°-80°	180.1	4.5
80°-90°	42.4	1.1
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°	1278.8	31.8
0°-40°	2115.9	52.5
0°-60°	3433.1	85.3
0°-90°	4026.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4026.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1554	1554	1554	1554	1554	
5°	1781	1693	1550	1409	1369	177
15°	2140	1957	1480	1140	1041	612
25°	2562	1994	1350	918	837	1179
35°	2126	2060	1175	748	683	1288
45°	951	1844	924	593	537	754
55°	522	1119	653	435	402	473
65°	296	533	407	279	239	294
75°	138	187	198	138	125	147
85°	29	32	44	35	33	35
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°	1554.2	1554.2	1554.2	1554.2	1554.2	1554.2	1554.2	1554.2	1554.2	1554.2	1554.2
2.5°	1655.0	1653.7	1656.2	1649.2	1649.9	1639.0	1639.0	1630.7	1619.9	1611.6	1607.8
5°	1781.3	1782.6	1780.0	1770.4	1764.1	1754.5	1743.6	1724.5	1708.6	1693.2	1681.1
7.5°	1910.2	1911.4	1903.1	1901.2	1884.6	1874.4	1850.2	1825.3	1803.6	1774.9	1754.5
10°	2019.9	2019.3	2010.3	2003.3	1989.3	1971.4	1947.8	1917.2	1888.5	1856.6	1825.9
12.5°	2083.7	2081.8	2080.5	2071.6	2058.8	2043.5	2024.4	1994.4	1957.4	1921.6	1884.6
15°	2139.8	2135.4	2127.1	2116.2	2097.7	2079.2	2056.9	2030.1	1996.3	1956.7	1923.6
17.5°	2207.5	2208.1	2195.3	2183.9	2159.6	2129.0	2095.8	2055.0	2011.6	1971.4	1938.2
20°	2295.5	2293.6	2280.8	2251.5	2222.8	2181.9	2142.4	2089.4	2033.3	1976.5	1932.5
22.5°	2421.8	2416.1	2402.7	2361.9	2313.4	2257.9	2192.2	2124.5	2053.7	1987.4	1926.1
25°	2562.2	2558.4	2532.2	2487.5	2425.0	2344.0	2264.9	2176.2	2078.6	1993.7	1923.6
27.5°	2678.3	2670.7	2647.0	2604.9	2543.7	2456.3	2347.2	2232.3	2116.2	2004.6	1908.2
30°	2664.3	2673.8	2671.3	2654.1	2610.7	2534.1	2435.2	2301.9	2157.1	2019.9	1899.3
32.5°	2463.9	2472.2	2500.9	2547.5	2561.6	2542.4	2474.8	2354.2	2203.0	2042.2	1892.3
35°	2125.8	2137.3	2180.7	2248.9	2338.3	2412.9	2428.2	2361.9	2227.2	2059.5	1885.3
37.5°	1695.8	1770.4	1799.8	1869.3	2009.7	2145.6	2263.6	2290.4	2217.7	2055.6	1877.0
40°	1388.3	1403.6	1468.7	1549.7	1663.3	1806.2	1994.4	2130.3	2134.7	2030.1	1850.2
42.5°	1138.2	1158.6	1198.2	1258.8	1351.9	1494.8	1690.7	1880.8	1983.5	1959.9	1815.1
45°	950.6	965.3	997.8	1047.6	1122.2	1240.3	1407.4	1614.8	1779.4	1843.8	1746.8
47.5°	803.9	811.5	841.5	881.7	939.1	1028.4	1164.3	1351.9	1547.8	1678.6	1653.0
50°	689.0	698.0	719.7	748.4	794.9	867.7	971.0	1121.0	1324.5	1493.5	1527.4
52.5°	599.7	606.7	618.2	645.0	681.4	733.1	811.5	943.6	1121.6	1304.1	1393.4
55°	521.9	527.0	537.8	553.1	583.8	624.0	696.1	789.8	937.9	1119.0	1233.9
57.5°	455.5	458.1	464.5	479.8	502.1	532.1	587.0	672.4	779.6	950.0	1076.3
60°	393.0	395.6	404.5	414.1	430.6	457.4	498.3	553.8	655.9	790.5	918.7
62.5°	343.2	344.5	347.1	356.6	370.7	389.8	419.8	462.5	538.5	652.7	772.0
65°	296.0	296.7	297.9	305.6	314.5	329.8	350.9	382.8	444.0	533.4	640.5
67.5°	248.8	250.1	254.6	257.1	268.0	275.6	289.0	314.5	361.7	425.5	512.3
70°	210.5	209.9	214.4	217.6	220.7	230.3	238.6	258.4	285.2	331.1	400.7
72.5°	174.8	172.9	174.2	174.8	179.3	185.0	193.3	203.5	222.7	250.7	299.9
75°	137.8	138.4	138.4	139.7	142.9	145.5	148.0	154.4	165.9	186.9	215.6
77.5°	103.4	102.1	105.3	105.3	107.8	111.0	112.9	115.5	119.9	129.5	146.7
80°	70.2	70.2	70.8	72.7	72.1	73.4	76.6	79.1	84.9	90.0	95.1
82.5°	49.8	49.1	49.8	49.8	49.8	51.0	51.7	51.7	53.0	54.9	58.1
85°	29.3	29.3	30.0	30.0	30.6	30.6	31.3	31.3	31.3	31.9	32.5
87.5°	14.0	13.4	12.8	12.8	13.4	14.7	14.0	13.4	13.4	13.4	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1554.2	1554.2	1554.2	1554.2	1554.2	1554.2	1554.2	1554.2	1554.2	1554.2	1554.2
2.5°	1607.8	1603.3	1595.0	1587.3	1577.8	1569.5	1563.7	1556.7	1547.8	1536.9	1528.0
5°	1667.7	1653.7	1635.2	1619.2	1598.8	1582.9	1566.3	1550.3	1534.4	1514.0	1496.1
7.5°	1734.1	1706.6	1681.1	1647.9	1618.0	1591.8	1566.3	1540.1	1515.2	1487.2	1461.0
10°	1794.0	1759.0	1720.0	1675.4	1634.5	1595.6	1559.9	1524.8	1487.8	1455.3	1420.2
12.5°	1850.2	1802.3	1756.4	1697.1	1646.0	1596.3	1548.4	1502.5	1462.3	1417.6	1379.3
15°	1879.5	1834.9	1785.1	1716.2	1647.9	1590.5	1536.9	1480.2	1431.0	1383.8	1341.7
17.5°	1896.8	1849.6	1792.1	1725.1	1651.8	1580.3	1512.7	1452.1	1395.9	1341.7	1295.1
20°	1889.1	1843.8	1784.5	1721.3	1641.6	1566.3	1491.6	1422.7	1358.3	1300.2	1249.8
22.5°	1870.6	1823.4	1766.6	1699.0	1624.3	1543.3	1462.3	1387.6	1319.4	1258.8	1202.6
25°	1852.1	1788.3	1729.6	1664.5	1592.4	1513.3	1431.0	1350.0	1277.9	1216.7	1156.7
27.5°	1834.2	1757.0	1684.3	1621.8	1544.6	1473.1	1392.7	1309.2	1233.9	1172.0	1110.8
30°	1808.1	1718.8	1636.5	1563.1	1491.0	1424.0	1348.7	1267.7	1189.9	1125.4	1062.9
32.5°	1775.5	1679.2	1586.7	1499.3	1430.4	1364.0	1297.7	1221.1	1145.8	1078.9	1015.1
35°	1749.4	1628.2	1529.9	1440.0	1362.8	1298.3	1237.1	1174.6	1098.6	1029.7	967.8
37.5°	1713.0	1579.7	1468.7	1370.4	1290.0	1226.2	1177.1	1117.8	1047.0	980.0	922.5
40°	1680.5	1526.1	1401.7	1304.7	1219.2	1150.9	1105.6	1057.2	994.0	932.1	874.7
42.5°	1637.1	1477.0	1334.0	1232.0	1145.8	1080.8	1034.8	994.0	943.6	886.2	823.7
45°	1577.8	1410.6	1264.5	1156.0	1069.3	1004.8	962.1	924.5	884.3	830.7	777.1
47.5°	1506.9	1347.4	1193.7	1074.4	990.8	930.2	888.1	856.8	827.5	780.9	726.7
50°	1418.3	1265.8	1116.5	1001.7	911.1	854.3	815.4	791.8	765.6	724.1	680.7
52.5°	1313.6	1181.6	1036.1	918.1	833.9	781.5	744.5	720.9	700.5	668.6	627.8
55°	1202.6	1083.3	949.3	842.8	764.3	710.7	675.0	652.7	639.9	611.2	578.7
57.5°	1076.9	985.1	863.8	759.9	689.0	635.4	608.6	588.9	574.2	553.1	528.9
60°	944.2	884.3	778.4	680.7	616.9	566.5	542.9	527.0	513.6	496.4	478.5
62.5°	809.6	770.1	681.4	601.0	543.6	503.4	481.7	467.7	451.7	441.5	424.3
65°	692.2	653.3	589.5	523.8	469.6	435.8	419.8	407.0	397.5	384.7	372.6
67.5°	562.1	544.2	497.0	447.9	408.3	375.8	361.7	351.5	340.7	333.0	324.1
70°	444.0	436.4	405.1	375.1	338.8	318.4	305.6	301.8	287.7	280.1	274.3
72.5°	339.4	336.9	322.2	303.7	280.7	263.5	252.0	247.5	239.9	234.1	231.0
75°	246.9	248.2	245.0	231.6	222.0	210.5	200.3	197.8	191.4	186.3	183.1
77.5°	168.4	174.8	173.5	172.9	168.4	160.1	155.7	153.8	146.7	144.8	144.2
80°	107.2	114.2	120.6	119.9	118.7	116.8	113.6	111.6	108.5	106.5	105.3
82.5°	62.5	68.9	74.0	78.5	78.5	76.6	74.6	74.0	74.0	72.7	72.7
85°	33.8	35.1	37.0	41.5	44.7	45.3	44.7	44.0	42.1	42.7	43.4
87.5°	14.7	14.7	15.3	15.3	14.7	17.9	19.8	20.4	19.1	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1554.2	1554.2	1554.2	1554.2	1554.2	1554.2	1554.2	1554.2	1554.2	1554.2	1554.2
2.5°	1521.6	1512.7	1506.3	1493.5	1484.6	1480.8	1473.8	1471.9	1478.9	1473.8	1473.1
5°	1482.7	1464.2	1449.5	1434.9	1418.9	1408.7	1393.4	1390.8	1387.0	1381.3	1380.0
7.5°	1437.4	1414.4	1397.2	1373.0	1353.2	1337.2	1318.1	1310.4	1306.6	1299.6	1288.1
10°	1391.5	1362.8	1337.2	1313.0	1286.8	1265.8	1246.6	1232.0	1222.4	1213.5	1209.6
12.5°	1346.2	1316.8	1282.4	1251.7	1221.8	1197.5	1175.8	1167.5	1156.7	1145.8	1135.6
15°	1299.0	1260.0	1224.3	1190.5	1165.6	1140.1	1119.7	1105.6	1089.7	1085.2	1068.0
17.5°	1248.6	1212.2	1170.1	1133.7	1105.6	1078.9	1056.5	1039.9	1027.8	1010.6	1002.3
20°	1202.0	1156.7	1115.9	1083.3	1051.4	1018.2	995.3	981.9	970.4	957.0	950.6
22.5°	1152.2	1108.2	1066.1	1026.5	994.0	961.5	946.8	932.8	919.4	907.2	898.3
25°	1103.7	1059.1	1015.1	975.5	941.7	918.1	898.9	883.0	876.0	863.8	854.9
27.5°	1055.2	1008.0	963.4	921.9	895.7	872.1	856.8	844.1	830.7	819.8	811.5
30°	1008.7	960.2	910.4	879.2	851.1	828.8	811.5	799.4	789.8	780.3	774.5
32.5°	962.1	911.7	869.0	834.5	808.3	789.8	772.0	760.5	750.3	739.4	732.4
35°	911.7	860.7	824.9	791.8	765.6	747.7	735.6	719.0	710.7	703.1	696.1
37.5°	866.4	817.9	778.4	749.6	725.4	708.2	692.2	683.9	673.1	666.7	661.0
40°	815.4	772.0	736.9	706.3	689.7	669.9	655.2	643.7	636.1	627.2	620.8
42.5°	769.4	729.9	696.1	669.3	647.6	631.6	617.6	606.1	595.9	590.1	585.0
45°	726.7	686.5	653.3	627.8	608.6	592.7	578.0	572.3	559.5	551.9	549.3
47.5°	682.0	645.7	613.1	589.5	569.7	555.1	541.0	528.3	521.9	514.2	510.4
50°	636.7	602.3	572.3	549.3	530.2	513.6	500.8	493.2	483.6	476.6	471.5
52.5°	591.4	560.2	530.2	508.5	492.5	475.9	461.3	453.6	444.7	440.9	437.7
55°	548.7	514.9	489.3	467.7	450.4	435.1	421.7	414.1	408.3	403.9	402.6
57.5°	499.6	472.1	447.9	428.7	410.2	395.6	383.4	376.4	371.3	370.7	366.2
60°	451.7	427.5	405.8	384.7	369.4	356.0	345.8	337.5	332.4	331.8	330.5
62.5°	403.9	380.9	361.1	343.2	329.8	317.1	307.5	297.9	295.4	291.6	288.4
65°	356.6	335.6	319.0	304.3	289.7	278.8	269.2	263.5	256.5	252.6	245.6
67.5°	310.1	292.8	276.9	264.8	252.6	241.8	233.5	225.2	220.1	216.9	211.2
70°	264.1	251.4	235.4	222.0	213.1	204.8	198.4	188.8	185.7	183.1	180.6
72.5°	220.7	209.9	197.1	186.9	178.0	170.3	162.7	159.5	156.3	153.8	152.5
75°	180.6	169.7	158.2	150.6	144.2	137.8	134.0	130.8	129.5	128.9	126.3
77.5°	140.4	134.0	124.4	117.4	112.9	110.4	106.5	105.3	105.9	102.7	102.1
80°	101.4	98.3	90.6	88.0	84.9	82.3	80.4	77.2	74.0	72.7	70.8
82.5°	68.9	65.7	63.8	59.3	56.8	55.5	53.6	53.0	54.2	52.3	51.7
85°	40.2	37.0	35.7	35.1	33.8	35.1	34.5	33.8	33.2	32.5	33.2
87.5°	15.9	15.9	15.3	16.6	14.7	15.3	15.3	14.7	14.7	14.7	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



TEST NUMBER: P242932

CATALOG NUMBER: S125RDRP-S1270D935-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1554.2	1554.2	1554.2	1554.2
2.5°	1472.5	1465.5	1463.6	1466.1
5°	1373.6	1367.2	1370.4	1369.1
7.5°	1290.0	1281.7	1272.2	1274.7
10°	1201.3	1195.0	1191.1	1194.3
12.5°	1126.7	1123.5	1120.3	1117.8
15°	1060.3	1052.7	1049.5	1041.2
17.5°	996.5	994.0	985.7	980.0
20°	941.0	938.5	930.2	935.3
22.5°	895.1	888.7	887.5	884.3
25°	852.4	844.1	840.9	837.1
27.5°	809.0	804.5	800.0	798.8
30°	766.9	762.4	759.2	759.2
32.5°	729.2	726.0	722.8	722.2
35°	692.9	687.8	686.5	682.7
37.5°	654.6	650.1	650.1	650.8
40°	618.2	615.0	614.4	609.9
42.5°	579.3	578.0	575.5	574.2
45°	544.8	540.4	540.4	537.2
47.5°	508.5	504.7	505.3	501.5
50°	472.1	470.2	469.6	468.3
52.5°	435.8	435.1	438.3	435.1
55°	403.9	401.9	405.8	401.9
57.5°	366.2	364.9	368.8	366.2
60°	329.2	325.4	327.3	327.9
62.5°	285.2	283.3	284.5	280.7
65°	244.4	242.4	239.9	238.6
67.5°	212.5	206.7	206.7	208.0
70°	176.7	176.7	176.1	176.1
72.5°	151.8	151.2	149.9	149.3
75°	126.3	127.0	125.7	125.0
77.5°	98.9	95.7	97.0	95.7
80°	70.8	70.2	72.1	70.2
82.5°	52.3	51.7	52.3	51.0
85°	33.8	33.2	32.5	33.2
87.5°	14.7	14.0	14.0	14.0
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242932
 CATALOG NUMBER: S125RDRP-S1270D935-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	17.97	19.50	18.33	19.82	20.13	18.95	20.48	19.31	20.80	21.11
	3H	19.10	20.47	19.48	20.80	21.16	20.43	21.80	20.80	22.13	22.49
	4H	19.48	20.77	19.88	21.12	21.50	20.94	22.23	21.34	22.58	22.96
	6H	19.71	20.91	20.13	21.27	21.66	21.29	22.48	21.70	22.85	23.24
	8H	19.77	20.91	20.20	21.30	21.70	21.39	22.52	21.81	22.91	23.31
	12H	19.80	20.89	20.23	21.27	21.70	21.44	22.53	21.87	22.91	23.34
4H	2H	19.56	20.85	19.96	21.20	21.58	19.80	21.09	20.20	21.44	21.81
	3H	20.63	21.70	21.04	22.10	22.50	21.46	22.53	21.87	22.93	23.33
	4H	21.01	21.97	21.44	22.39	22.83	22.04	23.01	22.48	23.42	23.86
	6H	21.27	22.10	21.72	22.54	23.00	22.47	23.31	22.93	23.75	24.21
	8H	21.33	22.11	21.79	22.55	23.02	22.59	23.38	23.06	23.82	24.29
	12H	21.37	22.07	21.85	22.55	23.02	22.68	23.37	23.16	23.85	24.32
8H	4H	21.38	22.16	21.85	22.61	23.08	22.19	22.97	22.66	23.42	23.89
	6H	21.69	22.33	22.18	22.82	23.30	22.71	23.35	23.20	23.84	24.32
	8H	21.78	22.36	22.29	22.87	23.36	22.88	23.46	23.40	23.97	24.46
	12H	21.86	22.37	22.37	22.87	23.43	23.02	23.53	23.53	24.02	24.59
12H	4H	21.41	22.11	21.89	22.59	23.06	22.18	22.88	22.66	23.36	23.83
	6H	21.72	22.30	22.24	22.81	23.30	22.70	23.28	23.21	23.79	24.28
	8H	21.85	22.37	22.36	22.86	23.42	22.92	23.43	23.43	23.92	24.48