

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: P243787

Luminaire Tested: S125RDRP-H1270D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-71)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-H1270D930-X4F0-XX-UDD-A-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

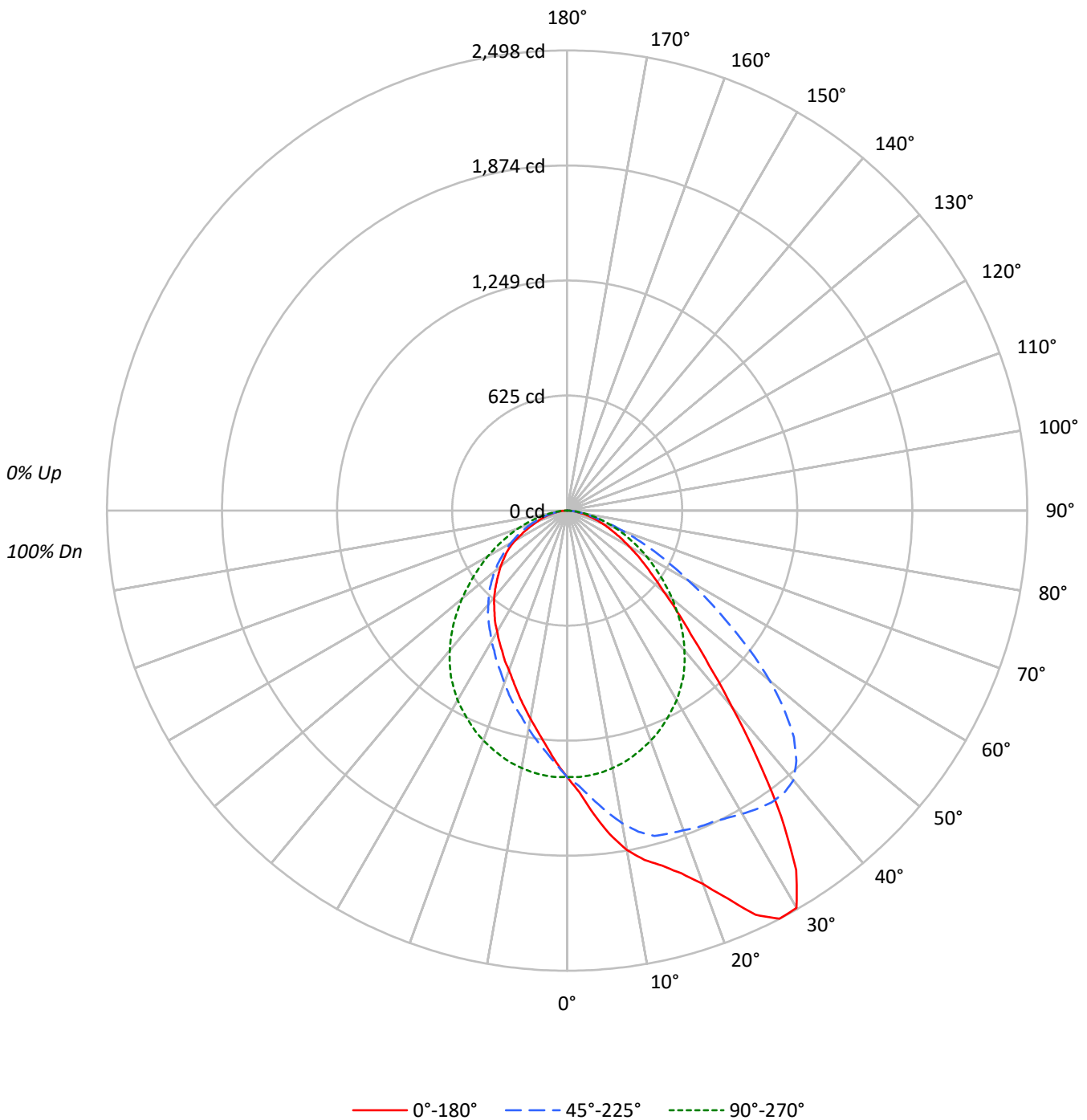
Lumens per Lamp: N/A
Luminaire Lumens: 3848.6 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.22 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P243787

CATALOG NUMBER: S125RDRP-H1270D930-X4F0-XX-UDD-A-W

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	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48					48			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33					33			
9	59	46	38	32	57	45	38	32	44	37	32	43	37	32	42	36	32	30					30			
10	55	42	35	29	54	42	34	29	41	34	29	40	34	29	39	33	29	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10278	10278	10278	10278	10278
5°	11798	11209	10292	9384	9155
10°	13499	12435	10242	8686	8276
15°	14682	13454	10159	8088	7569
20°	16315	13969	10044	7529	6974
25°	18984	14632	9901	7096	6565
30°	20442	15600	9755	6729	6231
35°	17562	16780	9537	6438	5960
40°	12938	17731	9193	6176	5713
45°	9556	17491	8766	5947	5418
50°	7570	15876	8242	5700	5199
55°	6394	13251	7638	5351	5002
60°	5510	10824	7075	5021	4630
65°	4783	8737	6441	4610	4031
70°	4194	6637	5898	4171	3526
75°	3559	4833	5165	3685	3339
80°	2771	3495	4318	3238	2771
85°	2430	2569	3458	2756	2528

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 17491 cd/sqm



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CATALOG NUMBER: S125RDRP-H1270D930-X4F0-XX-UDD-A-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.2	3.6
10°-20°	411.8	10.7
20°-30°	656.8	17.1
30°-40°	797.5	20.7
40°-50°	718.6	18.7
50°-60°	552.6	14.4
60°-70°	358.6	9.3
70°-80°	172.6	4.5
80°-90°	40.8	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°	1207.8	31.4
0°-40°	2005.3	52.1
0°-60°	3276.6	85.1
0°-90°	3848.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3848.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1446	1446	1446	1446	1446	
5°	1654	1571	1443	1315	1283	164
15°	1995	1828	1381	1099	1029	572
25°	2421	1866	1263	905	837	1107
35°	2024	1934	1099	742	687	1238
45°	951	1740	872	592	539	755
55°	516	1069	616	432	404	468
65°	284	520	383	274	240	285
75°	130	176	188	134	122	139
85°	30	32	42	34	31	34
90°	0	0	0	0	0	



TEST NUMBER: P243787

CATALOG NUMBER: S125RDRP-H1270D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1
2.5°	1529.8	1535.5	1530.9	1533.8	1529.2	1526.9	1521.2	1512.6	1504.0	1496.0	1495.4
5°	1653.6	1652.5	1647.9	1641.6	1637.0	1625.5	1619.8	1600.3	1587.1	1571.1	1563.0
7.5°	1771.8	1768.9	1762.0	1753.4	1749.4	1734.5	1718.4	1693.8	1673.1	1647.9	1629.0
10°	1870.4	1869.8	1864.7	1858.9	1843.4	1826.8	1811.3	1785.5	1754.6	1723.0	1696.6
12.5°	1942.6	1939.8	1933.5	1923.7	1911.1	1899.6	1879.0	1855.5	1817.6	1785.5	1749.4
15°	1995.4	1994.2	1985.1	1981.6	1957.0	1940.9	1913.4	1889.9	1860.6	1828.5	1789.5
17.5°	2065.3	2067.6	2059.6	2040.1	2017.7	1993.1	1954.1	1915.7	1875.0	1837.7	1806.2
20°	2157.1	2151.3	2137.6	2114.1	2073.9	2043.5	2004.6	1957.0	1901.9	1846.9	1801.6
22.5°	2279.8	2273.5	2251.7	2223.0	2172.6	2116.9	2057.3	1986.2	1923.1	1860.1	1800.4
25°	2420.8	2408.8	2376.7	2345.7	2274.0	2215.0	2126.1	2041.3	1949.5	1865.8	1798.7
27.5°	2497.7	2497.7	2482.8	2448.9	2392.2	2305.0	2214.4	2101.5	1995.4	1880.7	1785.5
30°	2490.8	2486.8	2492.5	2478.2	2441.5	2376.1	2286.1	2167.4	2032.1	1900.8	1786.7
32.5°	2313.0	2314.8	2349.2	2372.7	2391.0	2375.0	2316.5	2209.3	2074.5	1920.3	1782.1
35°	2024.1	2028.6	2089.4	2129.6	2211.5	2258.6	2272.3	2214.4	2093.4	1934.0	1774.1
37.5°	1693.8	1693.8	1764.3	1825.1	1916.8	2032.7	2119.2	2141.0	2082.0	1933.5	1767.2
40°	1394.5	1392.8	1448.4	1522.9	1621.0	1748.8	1877.8	1988.5	2002.8	1911.1	1743.1
42.5°	1141.0	1138.2	1198.9	1240.2	1343.4	1457.5	1629.0	1785.5	1875.0	1841.7	1707.5
45°	950.7	948.4	987.9	1035.0	1107.8	1226.5	1370.4	1544.1	1694.4	1740.2	1641.0
47.5°	807.3	808.5	829.7	869.3	931.2	1016.0	1145.1	1306.2	1491.9	1598.0	1557.3
50°	684.6	688.6	704.7	734.5	779.8	848.0	958.7	1104.3	1295.3	1435.8	1444.4
52.5°	592.9	598.6	615.8	631.9	669.7	717.9	803.9	930.0	1087.7	1256.3	1316.5
55°	516.0	518.9	528.7	545.9	574.0	614.1	676.6	772.9	919.1	1069.4	1175.4
57.5°	451.8	451.8	458.1	470.2	492.5	528.7	570.5	650.2	773.5	909.4	1022.3
60°	387.6	389.9	394.5	407.7	422.6	450.1	490.8	541.3	647.9	761.5	883.0
62.5°	333.7	337.7	342.3	348.6	362.4	381.9	410.5	457.0	528.7	633.6	742.0
65°	284.4	288.4	289.0	296.4	305.6	321.7	343.5	377.3	436.9	519.5	608.9
67.5°	240.8	242.5	244.3	250.0	258.6	268.9	283.3	308.5	355.5	411.1	498.3
70°	201.8	203.0	203.6	209.9	213.9	223.0	230.5	246.6	276.4	319.4	387.0
72.5°	165.1	163.4	162.8	168.0	169.7	177.2	186.4	197.8	213.9	244.3	294.7
75°	129.6	130.2	130.7	133.6	134.2	137.6	143.3	150.8	158.3	176.0	208.1
77.5°	99.8	97.5	97.5	100.9	102.1	102.6	106.6	110.7	114.7	125.0	137.6
80°	67.7	68.8	68.8	68.8	69.4	70.5	72.8	76.3	79.1	85.4	87.7
82.5°	48.2	48.2	47.6	48.7	49.3	49.9	49.9	49.9	51.6	53.3	55.6
85°	29.8	30.4	28.7	29.8	30.4	30.4	30.4	30.4	32.1	31.5	32.1
87.5°	12.6	13.2	13.2	13.8	13.8	14.3	13.8	14.3	13.8	13.8	14.3
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: P243787

CATALOG NUMBER: S125RDRP-H1270D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1
2.5°	1493.7	1486.8	1483.3	1476.5	1467.3	1461.6	1455.8	1447.8	1441.5	1431.7	1423.1
5°	1548.7	1535.0	1522.3	1505.1	1488.5	1474.2	1459.3	1442.6	1427.7	1411.1	1393.3
7.5°	1610.1	1588.3	1561.9	1531.5	1505.7	1483.3	1458.1	1433.5	1411.1	1384.7	1360.6
10°	1669.1	1634.1	1599.2	1558.5	1520.6	1487.4	1453.5	1419.1	1389.9	1357.2	1327.4
12.5°	1715.0	1681.7	1629.6	1579.1	1529.8	1486.8	1444.4	1402.5	1364.1	1328.0	1292.4
15°	1755.1	1700.1	1655.9	1600.9	1540.7	1482.2	1429.5	1380.7	1334.3	1291.8	1255.7
17.5°	1766.6	1717.3	1669.1	1604.9	1540.1	1473.6	1412.8	1354.9	1303.3	1256.3	1215.6
20°	1765.5	1715.6	1663.4	1602.0	1533.2	1460.4	1392.8	1328.0	1269.5	1215.6	1172.0
22.5°	1748.3	1700.1	1647.3	1585.4	1515.5	1440.3	1369.2	1297.6	1233.9	1177.7	1133.0
25°	1729.9	1669.1	1614.1	1551.6	1485.1	1415.7	1340.0	1262.6	1196.1	1137.6	1087.1
27.5°	1713.8	1641.0	1573.4	1512.0	1443.8	1381.3	1306.2	1225.3	1157.1	1095.7	1043.6
30°	1688.0	1611.2	1529.2	1462.1	1396.2	1330.8	1262.0	1188.6	1114.1	1051.6	999.4
32.5°	1665.7	1568.8	1479.9	1404.2	1338.3	1280.9	1215.0	1144.5	1071.7	1012.0	955.8
35°	1641.0	1525.2	1432.3	1343.4	1277.5	1215.0	1162.8	1099.2	1026.9	963.9	913.4
37.5°	1611.8	1480.5	1373.8	1283.2	1215.0	1150.8	1103.8	1047.0	981.6	919.1	869.3
40°	1579.1	1434.6	1311.9	1218.4	1145.1	1080.8	1041.3	990.8	935.2	873.3	826.8
42.5°	1537.8	1385.9	1255.7	1153.7	1072.2	1014.3	974.8	932.9	881.9	828.0	777.5
45°	1485.6	1325.1	1188.6	1080.8	1000.6	944.4	903.1	872.1	831.4	781.0	733.4
47.5°	1422.0	1261.4	1119.8	1008.0	930.6	876.7	838.3	807.3	776.4	732.8	687.5
50°	1337.7	1188.6	1052.7	938.6	856.6	804.5	770.1	745.4	717.3	681.8	640.5
52.5°	1244.8	1106.6	973.6	867.0	787.8	735.7	700.1	679.5	658.2	629.0	593.5
55°	1137.0	1024.6	897.9	793.6	716.2	664.6	636.5	616.4	598.6	576.3	546.4
57.5°	1022.9	924.3	814.2	717.9	645.1	596.3	571.7	555.0	540.1	524.1	499.4
60°	903.1	833.1	728.8	640.5	576.8	536.7	513.2	497.7	483.9	470.7	452.4
62.5°	778.1	720.2	642.2	567.1	510.3	472.5	455.3	442.1	427.7	416.3	403.1
65°	651.4	618.1	564.2	493.7	441.5	410.5	393.9	383.0	376.1	363.0	352.6
67.5°	536.1	517.8	471.9	424.3	384.2	356.1	340.6	332.6	325.1	318.8	307.3
70°	426.6	413.4	387.0	353.2	321.7	297.6	286.1	283.8	273.5	267.2	261.5
72.5°	325.1	321.7	299.9	285.0	267.2	248.3	239.7	235.1	228.2	222.5	220.2
75°	231.1	236.2	229.4	221.9	213.3	197.8	190.4	188.1	181.8	180.0	177.2
77.5°	157.7	165.1	167.4	164.0	160.0	154.8	149.7	147.4	141.1	139.9	138.2
80°	99.2	110.1	114.1	113.5	111.8	112.4	106.1	105.5	102.6	100.9	102.6
82.5°	60.2	65.9	73.4	75.1	72.8	74.0	72.2	70.0	70.0	71.1	68.8
85°	32.7	33.3	36.7	39.0	41.9	44.2	41.9	42.4	41.9	41.9	40.1
87.5°	14.3	14.9	14.9	14.3	15.5	16.6	18.9	20.1	19.5	17.8	15.5
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: P243787

CATALOG NUMBER: S125RDRP-H1270D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1	1446.1
2.5°	1416.3	1412.2	1405.4	1399.6	1386.4	1377.3	1376.1	1376.7	1375.6	1374.4	1373.8
5°	1381.9	1368.7	1356.1	1345.2	1330.3	1315.3	1308.5	1305.6	1304.5	1298.1	1301.6
7.5°	1345.2	1325.1	1310.2	1289.5	1271.8	1259.2	1247.1	1241.4	1240.2	1231.6	1229.3
10°	1306.2	1282.1	1259.7	1239.1	1221.3	1203.5	1189.2	1184.0	1177.2	1170.3	1160.0
12.5°	1267.8	1237.9	1213.3	1190.3	1166.3	1146.2	1134.7	1127.3	1118.7	1112.4	1108.9
15°	1221.9	1196.7	1166.3	1141.6	1117.0	1099.2	1083.7	1069.9	1061.9	1056.7	1042.4
17.5°	1180.6	1147.3	1118.7	1095.2	1068.2	1048.1	1032.1	1020.6	1006.9	996.5	987.4
20°	1136.5	1102.0	1075.7	1047.6	1020.1	995.4	975.3	966.2	956.4	946.7	941.5
22.5°	1088.9	1059.0	1029.2	1000.0	970.7	944.4	931.8	918.6	910.0	900.2	893.3
25°	1047.6	1014.9	985.1	952.4	920.3	904.8	887.6	874.4	867.5	857.8	850.3
27.5°	1003.4	971.9	936.3	902.5	883.6	857.2	845.7	835.4	826.2	816.5	811.3
30°	962.1	925.4	889.9	863.5	838.9	819.9	809.0	796.4	783.8	779.2	772.4
32.5°	918.6	879.0	848.0	821.7	801.0	778.1	767.8	757.4	745.4	739.7	733.4
35°	873.3	834.8	804.5	780.4	759.2	742.0	730.5	719.6	712.1	703.5	699.0
37.5°	825.7	792.4	763.2	739.1	719.6	705.8	691.5	682.9	672.6	664.6	661.1
40°	780.4	750.6	722.5	700.1	682.3	665.7	653.1	642.2	635.9	629.0	623.3
42.5°	739.7	708.7	684.6	661.1	645.1	629.0	616.4	608.4	597.5	594.6	586.6
45°	696.1	667.4	643.3	621.6	604.9	591.7	576.8	567.1	560.2	553.3	550.5
47.5°	651.9	625.6	603.2	583.1	565.9	551.0	539.6	529.2	521.8	515.5	512.0
50°	608.9	586.0	563.6	544.1	526.4	515.5	501.7	490.2	484.5	477.6	473.6
52.5°	563.6	544.7	520.6	504.0	487.4	473.0	459.3	451.8	446.1	440.4	437.5
55°	521.2	501.1	480.5	462.7	446.7	431.8	420.9	415.1	407.7	404.2	403.7
57.5°	477.6	457.0	439.8	423.7	405.4	393.9	384.2	377.3	371.0	368.1	368.1
60°	430.0	413.4	397.4	379.6	366.4	353.2	342.9	338.3	332.0	330.8	326.8
62.5°	386.5	371.0	355.5	338.9	326.8	313.6	306.2	299.9	296.4	291.9	287.3
65°	341.2	327.4	312.5	298.2	288.4	274.1	267.2	259.7	255.7	250.6	244.8
67.5°	297.6	284.4	270.6	257.5	249.4	235.7	231.1	221.9	219.0	213.3	208.1
70°	251.7	242.5	231.6	218.5	211.6	200.7	196.1	187.5	182.9	179.5	176.6
72.5°	212.2	203.6	190.9	182.3	173.7	166.9	159.4	155.4	151.4	148.5	147.9
75°	173.2	162.3	154.8	146.8	141.1	134.2	130.7	127.9	126.1	124.4	122.7
77.5°	132.5	127.9	120.4	112.4	107.8	104.9	102.6	101.5	99.8	99.2	97.5
80°	98.6	92.3	87.7	84.9	81.4	79.1	77.4	73.4	71.1	70.0	68.8
82.5°	65.4	63.6	60.2	57.3	54.5	53.9	52.2	51.0	50.5	50.5	49.9
85°	39.6	35.0	35.0	34.4	34.4	33.8	32.7	32.7	31.5	33.3	33.3
87.5°	16.1	16.1	14.9	14.9	15.5	14.3	13.8	13.8	13.8	13.2	13.8
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: P243787

CATALOG NUMBER: S125RDRP-H1270D930-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1446.1	1446.1	1446.1	1446.1
2.5°	1373.8	1371.0	1371.5	1368.1
5°	1295.3	1293.6	1287.8	1283.2
7.5°	1223.6	1216.2	1215.6	1211.0
10°	1156.5	1149.6	1146.2	1146.8
12.5°	1098.0	1090.6	1090.6	1086.0
15°	1035.5	1028.1	1029.2	1028.7
17.5°	983.9	978.8	974.8	971.3
20°	933.5	927.2	924.9	922.0
22.5°	887.0	882.4	883.0	883.0
25°	842.9	843.5	838.3	837.1
27.5°	803.9	802.7	801.6	799.3
30°	767.2	762.6	761.5	759.2
32.5°	729.3	728.8	724.2	725.9
35°	690.9	689.2	688.1	686.9
37.5°	655.4	651.9	651.4	650.2
40°	619.3	618.1	612.9	615.8
42.5°	580.3	578.0	578.0	578.0
45°	547.6	541.3	541.3	539.0
47.5°	510.9	508.6	507.4	503.4
50°	474.8	471.3	470.2	470.2
52.5°	437.5	436.9	438.1	435.8
55°	404.8	405.4	404.8	403.7
57.5°	369.3	366.4	366.4	367.0
60°	326.8	326.8	328.0	325.7
62.5°	286.1	285.0	281.0	279.8
65°	244.3	239.7	239.1	239.7
67.5°	207.0	205.3	202.4	203.0
70°	174.9	174.3	171.4	169.7
72.5°	146.2	146.2	144.5	144.5
75°	122.1	121.0	120.4	121.6
77.5°	94.0	91.2	92.3	90.6
80°	68.2	69.4	68.2	67.7
82.5°	50.5	49.3	49.9	49.3
85°	32.1	31.0	31.5	31.0
87.5°	13.2	13.8	13.8	12.6
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243787

CATALOG NUMBER: S125RDRP-H1270D930-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	18.02	19.56	18.38	19.87	20.18	18.71	20.25	19.08	20.57	20.88
	3H	19.10	20.48	19.48	20.81	21.17	20.19	21.57	20.57	21.90	22.26
	4H	19.46	20.75	19.86	21.10	21.48	20.72	22.01	21.12	22.36	22.74
	6H	19.68	20.87	20.09	21.24	21.63	21.07	22.27	21.48	22.64	23.03
	8H	19.73	20.87	20.16	21.26	21.66	21.17	22.31	21.60	22.70	23.10
	12H	19.77	20.86	20.20	21.24	21.67	21.23	22.32	21.66	22.70	23.13
4H	2H	19.54	20.83	19.94	21.18	21.56	19.59	20.88	19.99	21.23	21.61
	3H	20.58	21.66	20.99	22.06	22.46	21.25	22.32	21.66	22.72	23.12
	4H	20.95	21.91	21.38	22.33	22.76	21.85	22.81	22.28	23.23	23.67
	6H	21.19	22.03	21.65	22.47	22.93	22.28	23.12	22.74	23.56	24.02
	8H	21.25	22.04	21.71	22.48	22.95	22.40	23.19	22.87	23.63	24.10
	12H	21.30	22.00	21.78	22.48	22.95	22.49	23.19	22.97	23.67	24.14
8H	4H	21.31	22.09	21.77	22.53	23.00	22.00	22.78	22.46	23.23	23.70
	6H	21.60	22.25	22.10	22.74	23.22	22.52	23.17	23.02	23.66	24.14
	8H	21.69	22.28	22.21	22.78	23.27	22.70	23.28	23.21	23.79	24.28
	12H	21.78	22.29	22.29	22.78	23.35	22.84	23.35	23.35	23.84	24.41
12H	4H	21.33	22.03	21.81	22.51	22.98	21.99	22.69	22.47	23.17	23.64
	6H	21.63	22.21	22.14	22.72	23.21	22.51	23.10	23.03	23.61	24.09
	8H	21.76	22.28	22.27	22.77	23.34	22.73	23.25	23.24	23.74	24.30