

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: P242927

Luminaire Tested: S125RDRP-S1270D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242927  
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-S1270D930-X4F0-XX-UDD-A-W  
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

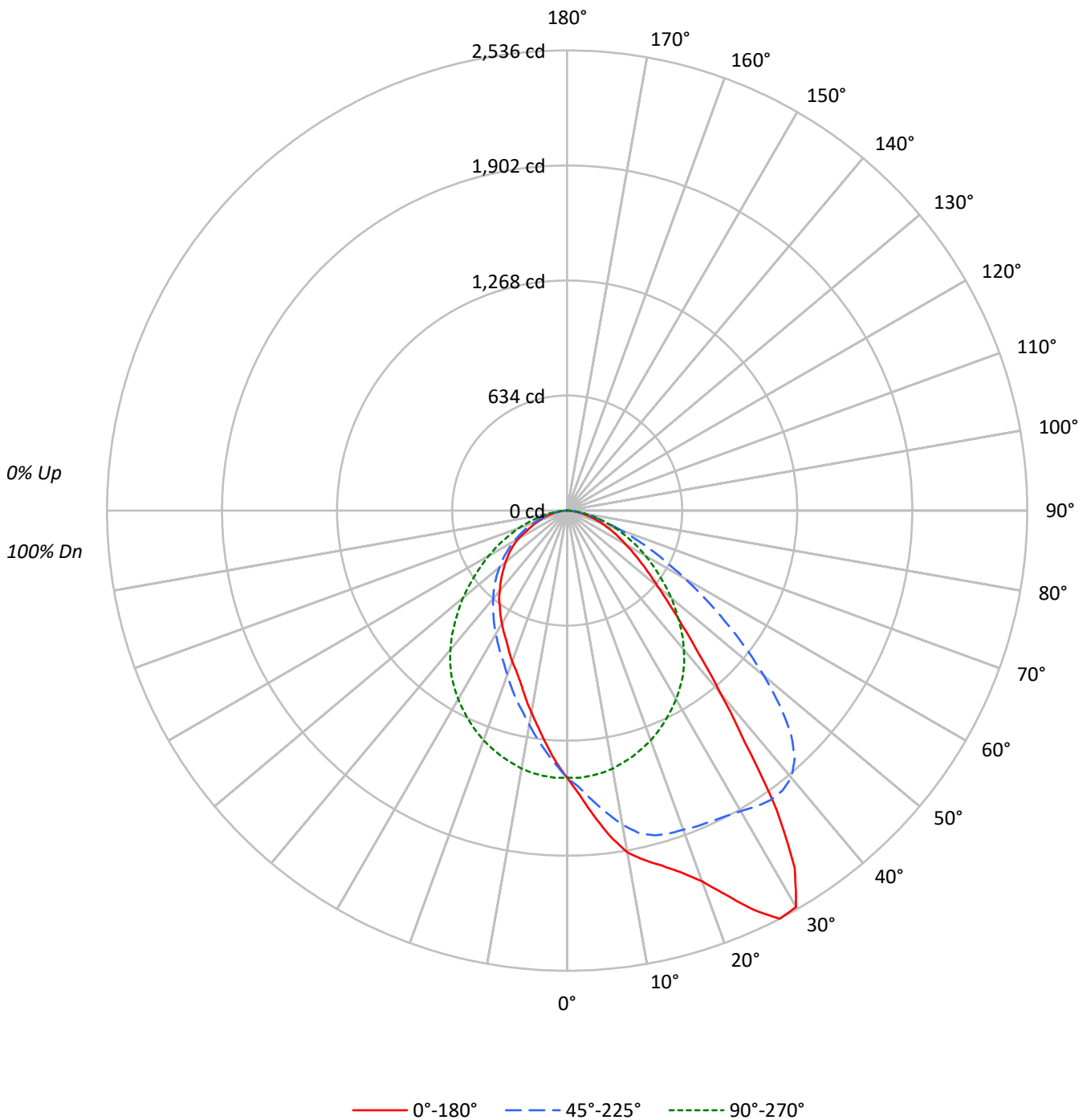
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3813.0 lumens  
Efficiency: N/A  
Efficacy: 92.8 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 (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	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°	10460	10460	10460	10460	10460
5°	12034	11439	10473	9517	9250
10°	13804	12687	10421	8650	8162
15°	14910	13634	10313	7944	7254
20°	16441	14156	10190	7293	6699
25°	19026	14805	10025	6817	6216
30°	20705	15697	9852	6441	5900
35°	17466	16920	9650	6143	5608
40°	12197	17835	9287	5885	5359
45°	9048	17549	8799	5641	5113
50°	7215	15638	8289	5377	4903
55°	6124	13130	7658	5105	4716
60°	5289	10640	7093	4792	4414
65°	4714	8494	6481	4440	3799
70°	4144	6515	5939	4029	3464
75°	3584	4861	5143	3584	3251
80°	2722	3487	4326	3188	2722
85°	2267	2463	3401	2707	2561

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 17549 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.1	3.7
10°-20°	413.7	10.9
20°-30°	656.0	17.2
30°-40°	792.7	20.8
40°-50°	705.9	18.5
50°-60°	541.3	14.2
60°-70°	351.5	9.2
70°-80°	170.6	4.5
80°-90°	40.1	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°	1210.9	31.8
0°-40°	2003.6	52.5
0°-60°	3250.8	85.3
0°-90°	3813.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3813.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1472	1472	1472	1472	1472	
5°	1687	1603	1468	1334	1296	168
15°	2026	1853	1402	1080	986	580
25°	2426	1888	1278	869	793	1117
35°	2013	1950	1112	708	646	1220
45°	900	1746	875	561	509	714
55°	494	1060	618	412	381	447
65°	280	505	385	264	226	278
75°	130	177	187	130	118	139
85°	28	30	42	33	31	33
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°	1471.7	1471.7	1471.7	1471.7	1471.7	1471.7	1471.7	1471.7	1471.7	1471.7	1471.7
2.5°	1567.1	1565.9	1568.3	1561.7	1562.3	1552.0	1552.0	1544.2	1533.9	1526.0	1522.4
5°	1686.7	1687.9	1685.5	1676.5	1670.4	1661.4	1651.1	1633.0	1617.9	1603.4	1591.9
7.5°	1808.8	1810.0	1802.1	1800.3	1784.6	1774.9	1752.0	1728.4	1707.9	1680.7	1661.4
10°	1912.7	1912.1	1903.6	1897.0	1883.7	1866.8	1844.4	1815.4	1788.2	1758.0	1729.0
12.5°	1973.1	1971.3	1970.1	1961.6	1949.5	1935.0	1916.9	1888.5	1853.5	1819.6	1784.6
15°	2026.3	2022.0	2014.2	2003.9	1986.4	1968.9	1947.7	1922.3	1890.3	1852.9	1821.5
17.5°	2090.3	2090.9	2078.8	2067.9	2045.0	2016.0	1984.6	1945.9	1904.8	1866.8	1835.4
20°	2173.7	2171.9	2159.8	2132.0	2104.8	2066.1	2028.7	1978.5	1925.4	1871.6	1829.9
22.5°	2293.3	2287.8	2275.2	2236.5	2190.6	2138.0	2075.8	2011.8	1944.7	1881.9	1823.9
25°	2426.2	2422.6	2397.8	2355.5	2296.3	2219.6	2144.7	2060.7	1968.3	1887.9	1821.5
27.5°	2536.1	2528.9	2506.5	2466.7	2408.7	2325.9	2222.6	2113.9	2003.9	1898.2	1807.0
30°	2522.9	2531.9	2529.5	2513.2	2472.1	2399.6	2306.0	2179.7	2042.6	1912.7	1798.5
32.5°	2333.2	2341.0	2368.2	2412.3	2425.6	2407.5	2343.4	2229.2	2086.1	1933.8	1791.9
35°	2013.0	2023.8	2064.9	2129.6	2214.1	2284.8	2299.3	2236.5	2109.0	1950.1	1785.2
37.5°	1605.8	1676.5	1704.3	1770.1	1903.0	2031.7	2143.5	2168.8	2100.0	1946.5	1777.4
40°	1314.6	1329.1	1390.7	1467.4	1575.0	1710.3	1888.5	2017.2	2021.4	1922.3	1752.0
42.5°	1077.8	1097.1	1134.6	1192.0	1280.2	1415.5	1601.0	1781.0	1878.2	1855.9	1718.8
45°	900.2	914.1	944.9	992.0	1062.7	1174.4	1332.7	1529.1	1684.9	1745.9	1654.1
47.5°	761.2	768.5	796.9	834.9	889.3	973.9	1102.5	1280.2	1465.6	1589.5	1565.3
50°	652.5	660.9	681.5	708.6	752.7	821.6	919.5	1061.5	1254.2	1414.3	1446.3
52.5°	567.9	574.5	585.4	610.8	645.2	694.1	768.5	893.5	1062.1	1234.8	1319.4
55°	494.2	499.0	509.3	523.8	552.8	590.8	659.1	747.9	888.1	1059.6	1168.4
57.5°	431.4	433.8	439.8	454.3	475.5	503.8	555.8	636.8	738.2	899.6	1019.2
60°	372.1	374.6	383.0	392.1	407.8	433.2	471.8	524.4	621.0	748.5	870.0
62.5°	325.0	326.2	328.6	337.7	351.0	369.1	397.5	438.0	509.9	618.0	731.0
65°	280.3	280.9	282.1	289.4	297.8	312.3	332.3	362.5	420.5	505.1	606.5
67.5°	235.6	236.8	241.0	243.5	253.7	261.0	273.7	297.8	342.5	403.0	485.1
70°	199.4	198.8	203.0	206.0	209.0	218.1	225.9	244.7	270.0	313.5	379.4
72.5°	165.5	163.7	164.9	165.5	169.8	175.2	183.1	192.7	210.8	237.4	283.9
75°	130.5	131.1	131.1	132.3	135.3	137.7	140.2	146.2	157.1	177.0	204.2
77.5°	97.9	96.7	99.7	99.7	102.1	105.1	106.9	109.3	113.6	122.6	139.0
80°	66.5	66.5	67.1	68.9	68.3	69.5	72.5	74.9	80.3	85.2	90.0
82.5°	47.1	46.5	47.1	47.1	47.1	48.3	48.9	48.9	50.1	52.0	55.0
85°	27.8	27.8	28.4	28.4	29.0	29.0	29.6	29.6	29.6	30.2	30.8
87.5°	13.3	12.7	12.1	12.1	12.7	13.9	13.3	12.7	12.7	12.7	13.3
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°	1471.7	1471.7	1471.7	1471.7	1471.7	1471.7	1471.7	1471.7	1471.7	1471.7	1471.7
2.5°	1522.4	1518.2	1510.3	1503.1	1494.0	1486.2	1480.7	1474.1	1465.6	1455.4	1446.9
5°	1579.2	1565.9	1548.4	1533.3	1514.0	1498.9	1483.1	1468.0	1452.9	1433.6	1416.7
7.5°	1642.0	1616.1	1591.9	1560.5	1532.1	1507.3	1483.1	1458.4	1434.8	1408.2	1383.5
10°	1698.8	1665.6	1628.7	1586.5	1547.8	1510.9	1477.1	1443.9	1408.8	1378.0	1344.8
12.5°	1752.0	1706.7	1663.2	1607.0	1558.7	1511.5	1466.2	1422.7	1384.7	1342.4	1306.1
15°	1779.8	1737.5	1690.4	1625.1	1560.5	1506.1	1455.4	1401.6	1355.1	1310.4	1270.5
17.5°	1796.1	1751.4	1697.0	1633.6	1564.1	1496.4	1432.4	1375.0	1321.8	1270.5	1226.4
20°	1788.8	1745.9	1689.8	1629.9	1554.4	1483.1	1412.5	1347.2	1286.2	1231.2	1183.5
22.5°	1771.3	1726.6	1672.8	1608.8	1538.1	1461.4	1384.7	1314.0	1249.3	1192.0	1138.8
25°	1753.8	1693.4	1637.8	1576.2	1507.9	1433.0	1355.1	1278.3	1210.1	1152.1	1095.3
27.5°	1736.9	1663.8	1594.9	1535.7	1462.6	1394.9	1318.8	1239.7	1168.4	1109.8	1051.8
30°	1712.1	1627.5	1549.6	1480.1	1411.9	1348.4	1277.1	1200.4	1126.7	1065.7	1006.5
32.5°	1681.3	1590.1	1502.5	1419.7	1354.5	1291.6	1228.8	1156.3	1085.0	1021.6	961.2
35°	1656.5	1541.7	1448.7	1363.5	1290.4	1229.4	1171.4	1112.2	1040.3	975.1	916.5
37.5°	1622.1	1495.8	1390.7	1297.7	1221.6	1161.1	1114.6	1058.4	991.4	927.9	873.6
40°	1591.3	1445.1	1327.3	1235.5	1154.5	1089.9	1047.0	1001.0	941.2	882.6	828.3
42.5°	1550.2	1398.6	1263.2	1166.6	1085.0	1023.4	979.9	941.2	893.5	839.1	779.9
45°	1494.0	1335.7	1197.4	1094.7	1012.5	951.5	911.0	875.4	837.3	786.6	735.8
47.5°	1427.0	1275.9	1130.3	1017.4	938.2	880.8	841.0	811.3	783.6	739.5	688.1
50°	1343.0	1198.6	1057.2	948.5	862.7	808.9	772.1	749.7	725.0	685.7	644.6
52.5°	1243.9	1118.9	981.1	869.3	789.6	740.1	705.0	682.7	663.3	633.1	594.5
55°	1138.8	1025.8	898.9	798.1	723.8	673.0	639.2	618.0	605.9	578.8	547.9
57.5°	1019.8	932.8	818.0	719.5	652.5	601.7	576.3	557.6	543.7	523.8	500.8
60°	894.1	837.3	737.0	644.6	584.2	536.5	514.1	499.0	486.3	470.0	453.1
62.5°	766.6	729.2	645.2	569.1	514.7	476.7	456.1	442.8	427.7	418.1	401.7
65°	655.5	618.6	558.2	496.0	444.6	412.6	397.5	385.4	376.4	364.3	352.8
67.5°	532.2	515.3	470.6	424.1	386.6	355.8	342.5	332.9	322.6	315.4	306.9
70°	420.5	413.2	383.6	355.2	320.8	301.5	289.4	285.8	272.5	265.2	259.8
72.5°	321.4	319.0	305.1	287.6	265.8	249.5	238.6	234.4	227.2	221.7	218.7
75°	233.8	235.0	232.0	219.3	210.2	199.4	189.7	187.3	181.2	176.4	173.4
77.5°	159.5	165.5	164.3	163.7	159.5	151.6	147.4	145.6	139.0	137.1	136.5
80°	101.5	108.1	114.2	113.6	112.4	110.6	107.5	105.7	102.7	100.9	99.7
82.5°	59.2	65.2	70.1	74.3	74.3	72.5	70.7	70.1	70.1	68.9	68.9
85°	32.0	33.2	35.0	39.3	42.3	42.9	42.3	41.7	39.9	40.5	41.1
87.5°	13.9	13.9	14.5	14.5	13.9	16.9	18.7	19.3	18.1	16.9	15.7
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°	1471.7	1471.7	1471.7	1471.7	1471.7	1471.7	1471.7	1471.7	1471.7	1471.7	1471.7
2.5°	1440.9	1432.4	1426.4	1414.3	1405.8	1402.2	1395.5	1393.7	1400.4	1395.5	1394.9
5°	1404.0	1386.5	1372.6	1358.7	1343.6	1333.9	1319.4	1317.0	1313.4	1307.9	1306.7
7.5°	1361.1	1339.4	1323.0	1300.1	1281.4	1266.3	1248.1	1240.9	1237.3	1230.6	1219.7
10°	1317.6	1290.4	1266.3	1243.3	1218.5	1198.6	1180.5	1166.6	1157.5	1149.1	1145.4
12.5°	1274.7	1246.9	1214.3	1185.3	1156.9	1134.0	1113.4	1105.6	1095.3	1085.0	1075.4
15°	1230.0	1193.2	1159.3	1127.3	1103.7	1079.6	1060.3	1047.0	1031.9	1027.6	1011.3
17.5°	1182.3	1147.9	1108.0	1073.5	1047.0	1021.6	1000.4	984.7	973.3	956.9	949.1
20°	1138.2	1095.3	1056.6	1025.8	995.6	964.2	942.4	929.8	918.9	906.2	900.2
22.5°	1091.1	1049.4	1009.5	972.0	941.2	910.4	896.5	883.2	870.6	859.1	850.6
25°	1045.1	1002.9	961.2	923.7	891.7	869.3	851.2	836.1	829.5	818.0	809.5
27.5°	999.2	954.5	912.2	873.0	848.2	825.8	811.3	799.3	786.6	776.3	768.5
30°	955.1	909.2	862.1	832.5	805.9	784.8	768.5	757.0	747.9	738.9	733.4
32.5°	911.0	863.3	822.8	790.2	765.4	747.9	731.0	720.1	710.5	700.2	693.5
35°	863.3	815.0	781.1	749.7	725.0	708.0	696.6	680.9	673.0	665.8	659.1
37.5°	820.4	774.5	737.0	709.9	686.9	670.6	655.5	647.6	637.4	631.3	625.9
40°	772.1	731.0	697.8	668.8	653.1	634.3	620.4	609.6	602.3	593.9	587.8
42.5°	728.6	691.1	659.1	633.7	613.2	598.1	584.8	573.9	564.3	558.8	554.0
45°	688.1	650.0	618.6	594.5	576.3	561.2	547.3	541.9	529.8	522.6	520.2
47.5°	645.8	611.4	580.6	558.2	539.5	525.6	512.3	500.2	494.2	486.9	483.3
50°	602.9	570.3	541.9	520.2	502.0	486.3	474.2	467.0	457.9	451.3	446.5
52.5°	560.0	530.4	502.0	481.5	466.4	450.7	436.8	429.5	421.1	417.5	414.4
55°	519.6	487.5	463.4	442.8	426.5	412.0	399.3	392.1	386.6	382.4	381.2
57.5°	473.0	447.1	424.1	406.0	388.5	374.6	363.1	356.4	351.6	351.0	346.8
60°	427.7	404.8	384.2	364.3	349.8	337.1	327.4	319.6	314.8	314.1	312.9
62.5°	382.4	360.7	341.9	325.0	312.3	300.3	291.2	282.1	279.7	276.1	273.1
65°	337.7	317.8	302.1	288.2	274.3	264.0	254.9	249.5	242.9	239.2	232.6
67.5°	293.6	277.3	262.2	250.7	239.2	229.0	221.1	213.3	208.4	205.4	200.0
70°	250.1	238.0	222.9	210.2	201.8	193.9	187.9	178.8	175.8	173.4	171.0
72.5°	209.0	198.8	186.7	177.0	168.6	161.3	154.1	151.0	148.0	145.6	144.4
75°	171.0	160.7	149.8	142.6	136.5	130.5	126.9	123.8	122.6	122.0	119.6
77.5°	132.9	126.9	117.8	111.2	106.9	104.5	100.9	99.7	100.3	97.3	96.7
80°	96.1	93.0	85.8	83.4	80.3	77.9	76.1	73.1	70.1	68.9	67.1
82.5°	65.2	62.2	60.4	56.2	53.8	52.6	50.7	50.1	51.4	49.5	48.9
85°	38.1	35.0	33.8	33.2	32.0	33.2	32.6	32.0	31.4	30.8	31.4
87.5°	15.1	15.1	14.5	15.7	13.9	14.5	14.5	13.9	13.9	13.9	13.3
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: P242927

CATALOG NUMBER: S125RDRP-S1270D930-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1471.7	1471.7	1471.7	1471.7
2.5°	1394.3	1387.7	1385.9	1388.3
5°	1300.7	1294.7	1297.7	1296.5
7.5°	1221.6	1213.7	1204.6	1207.1
10°	1137.6	1131.5	1127.9	1130.9
12.5°	1066.9	1063.9	1060.9	1058.4
15°	1004.1	996.8	993.8	985.9
17.5°	943.7	941.2	933.4	927.9
20°	891.1	888.7	880.8	885.7
22.5°	847.6	841.6	840.3	837.3
25°	807.1	799.3	796.2	792.6
27.5°	766.0	761.8	757.6	756.4
30°	726.2	721.9	718.9	718.9
32.5°	690.5	687.5	684.5	683.9
35°	656.1	651.3	650.0	646.4
37.5°	619.8	615.6	615.6	616.2
40°	585.4	582.4	581.8	577.6
42.5°	548.6	547.3	544.9	543.7
45°	515.9	511.7	511.7	508.7
47.5°	481.5	477.9	478.5	474.8
50°	447.1	445.2	444.6	443.4
52.5°	412.6	412.0	415.0	412.0
55°	382.4	380.6	384.2	380.6
57.5°	346.8	345.6	349.2	346.8
60°	311.7	308.1	309.9	310.5
62.5°	270.0	268.2	269.4	265.8
65°	231.4	229.6	227.2	225.9
67.5°	201.2	195.7	195.7	196.9
70°	167.3	167.3	166.7	166.7
72.5°	143.8	143.2	142.0	141.4
75°	119.6	120.2	119.0	118.4
77.5°	93.6	90.6	91.8	90.6
80°	67.1	66.5	68.3	66.5
82.5°	49.5	48.9	49.5	48.3
85°	32.0	31.4	30.8	31.4
87.5°	13.9	13.3	13.3	13.3
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242927

CATALOG NUMBER: S125RDRP-S1270D930-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	17.78	19.31	18.14	19.63	19.94	18.76	20.29	19.12	20.61	20.92
	3H	18.91	20.28	19.29	20.61	20.97	20.24	21.61	20.61	21.94	22.30
	4H	19.29	20.58	19.69	20.93	21.31	20.75	22.04	21.15	22.39	22.77
	6H	19.52	20.72	19.94	21.08	21.47	21.10	22.29	21.51	22.66	23.05
	8H	19.58	20.72	20.01	21.11	21.51	21.20	22.33	21.62	22.72	23.12
	12H	19.61	20.70	20.04	21.08	21.51	21.25	22.34	21.68	22.72	23.15
4H	2H	19.37	20.66	19.77	21.01	21.39	19.61	20.90	20.01	21.25	21.62
	3H	20.44	21.51	20.85	21.91	22.31	21.27	22.34	21.68	22.74	23.14
	4H	20.82	21.78	21.25	22.20	22.64	21.86	22.82	22.29	23.23	23.67
	6H	21.08	21.91	21.53	22.35	22.81	22.28	23.12	22.74	23.56	24.02
	8H	21.14	21.92	21.60	22.36	22.83	22.40	23.19	22.87	23.63	24.10
	12H	21.18	21.88	21.66	22.36	22.83	22.49	23.19	22.97	23.66	24.13
8H	4H	21.19	21.98	21.66	22.42	22.89	22.00	22.78	22.47	23.23	23.70
	6H	21.50	22.14	22.00	22.64	23.11	22.52	23.16	23.02	23.66	24.13
	8H	21.59	22.17	22.11	22.68	23.17	22.69	23.27	23.21	23.78	24.27
	12H	21.67	22.18	22.18	22.68	23.24	22.83	23.34	23.34	23.83	24.40
12H	4H	21.22	21.92	21.70	22.40	22.87	21.99	22.69	22.47	23.17	23.64
	6H	21.53	22.11	22.05	22.62	23.11	22.51	23.09	23.02	23.60	24.09
	8H	21.66	22.18	22.17	22.67	23.23	22.73	23.24	23.24	23.73	24.30