

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: P242907

Luminaire Tested: S125RDRP-S1270D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242907  
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-S1270D927-X4F0-XX-UDD-A-W  
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

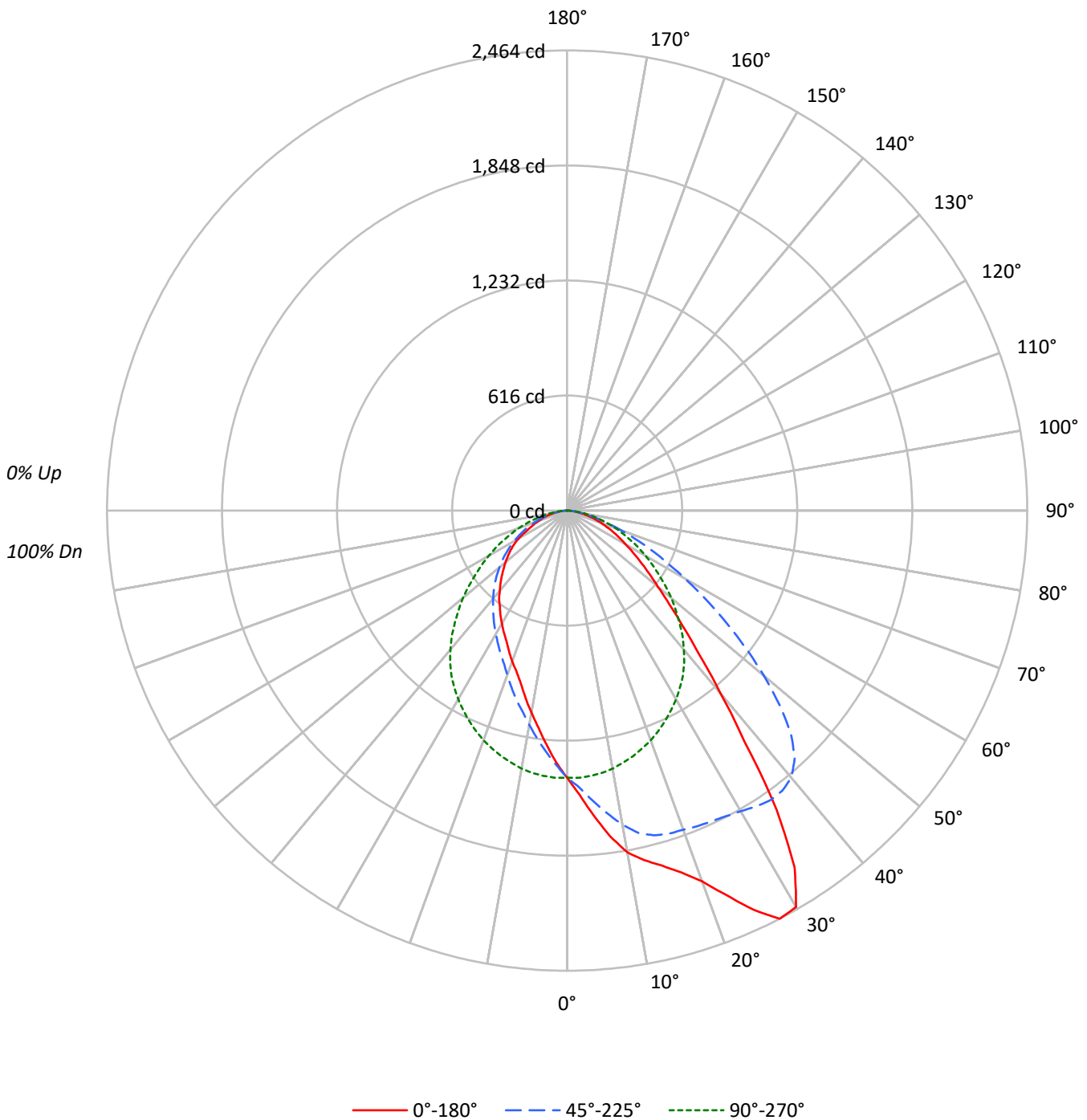
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3704.9 lumens  
Efficiency: N/A  
Efficacy: 90.1 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<sub>in</sub>): 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				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57					55				
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50					48				
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44					42				
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39					37				
8	63	50	42	36	61	49	42	36	48	41	36	47	40	36	46	40	35					34				
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32					30				
10	55	42	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29					28				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	10163	10163	10163	10163	10163
5°	11693	11115	10177	9247	8987
10°	13413	12328	10125	8405	7931
15°	14487	13247	10020	7719	7049
20°	15974	13754	9901	7086	6508
25°	18487	14386	9741	6624	6039
30°	20117	15252	9572	6258	5732
35°	16970	16440	9377	5969	5450
40°	11851	17329	9025	5719	5207
45°	8791	17051	8550	5481	4968
50°	7010	15195	8055	5224	4764
55°	5950	12758	7441	4960	4582
60°	5140	10338	6893	4655	4289
65°	4581	8252	6298	4314	3691
70°	4025	6332	5771	3915	3366
75°	3482	4723	4998	3482	3161
80°	2644	3389	4203	3098	2644
85°	2202	2398	3303	2634	2487

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 17051 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.1	3.7
10°-20°	402.0	10.9
20°-30°	637.4	17.2
30°-40°	770.3	20.8
40°-50°	685.9	18.5
50°-60°	525.9	14.2
60°-70°	341.5	9.2
70°-80°	165.7	4.5
80°-90°	39.0	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°	1176.6	31.8
0°-40°	1946.8	52.5
0°-60°	3158.7	85.3
0°-90°	3704.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3704.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1430	1430	1430	1430	1430	
5°	1639	1558	1426	1296	1260	163
15°	1969	1800	1362	1049	958	564
25°	2357	1834	1242	845	770	1085
35°	1956	1895	1081	688	628	1186
45°	875	1696	851	545	494	694
55°	480	1030	600	400	370	435
65°	272	491	374	256	220	271
75°	127	172	182	127	115	135
85°	27	29	40	32	30	32
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°	1429.9	1429.9	1429.9	1429.9	1429.9	1429.9	1429.9	1429.9	1429.9	1429.9	1429.9
2.5°	1522.7	1521.5	1523.9	1517.4	1518.0	1508.0	1508.0	1500.4	1490.4	1482.8	1479.2
5°	1638.9	1640.1	1637.7	1628.9	1623.1	1614.3	1604.3	1586.7	1572.0	1557.9	1546.8
7.5°	1757.5	1758.7	1751.0	1749.3	1734.0	1724.6	1702.3	1679.4	1659.5	1633.0	1614.3
10°	1858.5	1857.9	1849.6	1843.2	1830.3	1813.8	1792.1	1763.9	1737.5	1708.2	1680.0
12.5°	1917.2	1915.4	1914.2	1906.0	1894.3	1880.2	1862.6	1835.0	1800.9	1768.1	1734.0
15°	1968.8	1964.7	1957.1	1947.1	1930.1	1913.0	1892.5	1867.8	1836.7	1800.3	1769.8
17.5°	2031.0	2031.6	2019.9	2009.3	1987.0	1958.8	1928.3	1890.7	1850.8	1813.8	1783.3
20°	2112.0	2110.3	2098.5	2071.5	2045.1	2007.5	1971.2	1922.4	1870.8	1818.5	1778.0
22.5°	2228.3	2223.0	2210.7	2173.1	2128.5	2077.4	2016.9	1954.7	1889.6	1828.5	1772.2
25°	2357.4	2353.9	2329.8	2288.7	2231.2	2156.6	2083.9	2002.3	1912.5	1834.4	1769.8
27.5°	2464.2	2457.2	2435.5	2396.7	2340.4	2260.0	2159.6	2053.9	1947.1	1844.4	1755.7
30°	2451.3	2460.1	2457.8	2441.9	2402.0	2331.6	2240.6	2117.9	1984.7	1858.5	1747.5
32.5°	2267.0	2274.6	2301.1	2343.9	2356.8	2339.2	2277.0	2166.0	2026.9	1879.0	1741.0
35°	1955.9	1966.5	2006.4	2069.2	2151.4	2220.0	2234.1	2173.1	2049.2	1894.8	1734.6
37.5°	1560.3	1628.9	1655.9	1719.9	1849.1	1974.1	2082.7	2107.3	2040.4	1891.3	1727.0
40°	1277.3	1291.4	1351.3	1425.8	1530.3	1661.8	1835.0	1960.0	1964.1	1867.8	1702.3
42.5°	1047.2	1066.0	1102.4	1158.2	1243.9	1375.3	1555.6	1730.5	1825.0	1803.3	1670.0
45°	874.6	888.1	918.1	963.9	1032.5	1141.1	1294.9	1485.7	1637.2	1696.4	1607.2
47.5°	739.6	746.7	774.3	811.2	864.1	946.2	1071.3	1243.9	1424.1	1544.4	1520.9
50°	634.0	642.2	662.1	688.6	731.4	798.3	893.4	1031.4	1218.6	1374.2	1405.3
52.5°	551.8	558.2	568.8	593.5	626.9	674.5	746.7	868.2	1032.0	1199.8	1282.0
55°	480.2	484.9	494.8	508.9	537.1	574.1	640.4	726.7	862.9	1029.6	1135.3
57.5°	419.1	421.5	427.3	441.4	462.0	489.6	540.0	618.7	717.3	874.0	990.3
60°	361.6	363.9	372.2	381.0	396.2	420.9	458.4	509.5	603.4	727.3	845.3
62.5°	315.8	317.0	319.3	328.1	341.0	358.7	386.2	425.6	495.4	600.5	710.3
65°	272.4	273.0	274.1	281.2	289.4	303.5	322.9	352.2	408.6	490.7	589.4
67.5°	228.9	230.1	234.2	236.6	246.5	253.6	265.9	289.4	332.8	391.5	471.4
70°	193.7	193.1	197.2	200.2	203.1	211.9	219.5	237.7	262.4	304.7	368.6
72.5°	160.8	159.1	160.3	160.8	164.9	170.2	177.9	187.3	204.9	230.7	275.9
75°	126.8	127.4	127.4	128.6	131.5	133.8	136.2	142.1	152.6	172.0	198.4
77.5°	95.1	93.9	96.9	96.9	99.2	102.1	103.9	106.2	110.4	119.2	135.0
80°	64.6	64.6	65.2	66.9	66.3	67.5	70.4	72.8	78.1	82.8	87.5
82.5°	45.8	45.2	45.8	45.8	45.8	47.0	47.5	47.5	48.7	50.5	53.4
85°	27.0	27.0	27.6	27.6	28.2	28.2	28.8	28.8	28.8	29.4	29.9
87.5°	12.9	12.3	11.7	11.7	12.3	13.5	12.9	12.3	12.3	12.3	12.9
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°	1429.9	1429.9	1429.9	1429.9	1429.9	1429.9	1429.9	1429.9	1429.9	1429.9	1429.9
2.5°	1479.2	1475.1	1467.5	1460.5	1451.7	1444.0	1438.7	1432.3	1424.1	1414.1	1405.9
5°	1534.4	1521.5	1504.5	1489.8	1471.0	1456.4	1441.1	1426.4	1411.7	1393.0	1376.5
7.5°	1595.5	1570.2	1546.8	1516.2	1488.6	1464.6	1441.1	1417.0	1394.1	1368.3	1344.2
10°	1650.7	1618.4	1582.6	1541.5	1503.9	1468.1	1435.2	1402.9	1368.9	1339.0	1306.7
12.5°	1702.3	1658.3	1616.0	1561.4	1514.5	1468.7	1424.7	1382.4	1345.4	1304.3	1269.1
15°	1729.3	1688.2	1642.4	1579.0	1516.2	1463.4	1414.1	1361.8	1316.6	1273.2	1234.5
17.5°	1745.2	1701.7	1648.9	1587.3	1519.7	1454.0	1391.8	1336.0	1284.4	1234.5	1191.6
20°	1738.1	1696.4	1641.8	1583.7	1510.4	1441.1	1372.4	1309.0	1249.7	1196.3	1149.9
22.5°	1721.1	1677.7	1625.4	1563.2	1494.5	1420.0	1345.4	1276.7	1213.9	1158.2	1106.5
25°	1704.1	1645.4	1591.4	1531.5	1465.2	1392.4	1316.6	1242.1	1175.8	1119.4	1064.2
27.5°	1687.6	1616.6	1549.7	1492.2	1421.1	1355.4	1281.4	1204.5	1135.3	1078.3	1022.0
30°	1663.6	1581.4	1505.7	1438.2	1371.8	1310.2	1240.9	1166.4	1094.8	1035.5	977.9
32.5°	1633.6	1545.0	1459.9	1379.5	1316.1	1255.0	1194.0	1123.5	1054.3	992.6	933.9
35°	1609.6	1498.0	1407.6	1324.9	1253.8	1194.6	1138.2	1080.7	1010.8	947.4	890.5
37.5°	1576.1	1453.4	1351.3	1260.9	1186.9	1128.2	1083.0	1028.4	963.3	901.6	848.8
40°	1546.2	1404.1	1289.6	1200.4	1121.8	1059.0	1017.3	972.7	914.6	857.6	804.8
42.5°	1506.2	1358.9	1227.4	1133.5	1054.3	994.4	952.1	914.6	868.2	815.3	757.8
45°	1451.7	1297.9	1163.4	1063.6	983.8	924.5	885.2	850.6	813.6	764.3	715.0
47.5°	1386.5	1239.7	1098.3	988.5	911.6	855.8	817.1	788.3	761.3	718.5	668.6
50°	1304.9	1164.6	1027.3	921.6	838.2	786.0	750.2	728.5	704.4	666.2	626.3
52.5°	1208.6	1087.1	953.3	844.7	767.2	719.1	685.0	663.3	644.5	615.2	577.6
55°	1106.5	996.7	873.5	775.4	703.2	653.9	621.0	600.5	588.8	562.3	532.4
57.5°	990.9	906.3	794.8	699.1	634.0	584.7	560.0	541.8	528.3	508.9	486.6
60°	868.8	813.6	716.1	626.3	567.6	521.3	499.5	484.9	472.5	456.7	440.3
62.5°	744.9	708.5	626.9	553.0	500.1	463.1	443.2	430.3	415.6	406.2	390.4
65°	636.9	601.1	542.4	481.9	432.0	400.9	386.2	374.5	365.7	354.0	342.8
67.5°	517.1	500.7	457.3	412.1	375.7	345.7	332.8	323.4	313.5	306.4	298.2
70°	408.6	401.5	372.7	345.2	311.7	292.9	281.2	277.7	264.7	257.7	252.4
72.5°	312.3	309.9	296.4	279.4	258.3	242.4	231.9	227.8	220.7	215.4	212.5
75°	227.2	228.3	225.4	213.1	204.3	193.7	184.3	182.0	176.1	171.4	168.5
77.5°	155.0	160.8	159.7	159.1	155.0	147.3	143.2	141.5	135.0	133.2	132.7
80°	98.6	105.1	110.9	110.4	109.2	107.4	104.5	102.7	99.8	98.0	96.9
82.5°	57.5	63.4	68.1	72.2	72.2	70.4	68.7	68.1	68.1	66.9	66.9
85°	31.1	32.3	34.0	38.2	41.1	41.7	41.1	40.5	38.7	39.3	39.9
87.5°	13.5	13.5	14.1	14.1	13.5	16.4	18.2	18.8	17.6	16.4	15.3
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1429.9	1429.9	1429.9	1429.9	1429.9	1429.9	1429.9	1429.9	1429.9	1429.9	1429.9
2.5°	1400.0	1391.8	1385.9	1374.2	1366.0	1362.4	1356.0	1354.2	1360.7	1356.0	1355.4
5°	1364.2	1347.2	1333.7	1320.2	1305.5	1296.1	1282.0	1279.7	1276.1	1270.9	1269.7
7.5°	1322.5	1301.4	1285.5	1263.2	1245.0	1230.4	1212.7	1205.7	1202.2	1195.7	1185.2
10°	1280.3	1253.8	1230.4	1208.1	1184.0	1164.6	1147.0	1133.5	1124.7	1116.5	1113.0
12.5°	1238.6	1211.6	1179.9	1151.7	1124.1	1101.8	1081.8	1074.2	1064.2	1054.3	1044.9
15°	1195.1	1159.3	1126.5	1095.3	1072.5	1049.0	1030.2	1017.3	1002.6	998.5	982.6
17.5°	1148.8	1115.3	1076.6	1043.1	1017.3	992.6	972.1	956.8	945.7	929.8	922.2
20°	1105.9	1064.2	1026.7	996.7	967.4	936.9	915.7	903.4	892.8	880.5	874.6
22.5°	1060.1	1019.6	980.9	944.5	914.6	884.6	871.1	858.2	845.9	834.7	826.5
25°	1015.5	974.4	933.9	897.5	866.4	844.7	827.1	812.4	806.0	794.8	786.6
27.5°	970.9	927.5	886.4	848.2	824.2	802.4	788.3	776.6	764.3	754.3	746.7
30°	928.1	883.4	837.7	808.9	783.1	762.5	746.7	735.5	726.7	717.9	712.6
32.5°	885.2	838.8	799.5	767.8	743.7	726.7	710.3	699.7	690.3	680.3	673.9
35°	838.8	791.9	759.0	728.5	704.4	688.0	676.8	661.6	653.9	646.9	640.4
37.5°	797.1	752.5	716.1	689.7	667.4	651.6	636.9	629.3	619.3	613.4	608.1
40°	750.2	710.3	678.0	649.8	634.5	616.4	602.9	592.3	585.2	577.0	571.2
42.5°	707.9	671.5	640.4	615.8	595.8	581.1	568.2	557.7	548.3	543.0	538.3
45°	668.6	631.6	601.1	577.6	560.0	545.3	531.8	526.5	514.8	507.8	505.4
47.5°	627.5	594.0	564.1	542.4	524.2	510.7	497.8	486.0	480.2	473.1	469.6
50°	585.8	554.1	526.5	505.4	487.8	472.5	460.8	453.8	444.9	438.5	433.8
52.5°	544.2	515.4	487.8	467.8	453.2	437.9	424.4	417.4	409.1	405.6	402.7
55°	504.8	473.7	450.2	430.3	414.4	400.3	388.0	381.0	375.7	371.6	370.4
57.5°	459.6	434.4	412.1	394.5	377.4	363.9	352.8	346.3	341.6	341.0	336.9
60°	415.6	393.3	373.3	354.0	339.9	327.5	318.2	310.5	305.8	305.2	304.1
62.5°	371.6	350.4	332.2	315.8	303.5	291.7	282.9	274.1	271.8	268.3	265.3
65°	328.1	308.8	293.5	280.0	266.5	256.5	247.7	242.4	236.0	232.5	226.0
67.5°	285.3	269.4	254.8	243.6	232.5	222.5	214.8	207.2	202.5	199.6	194.3
70°	243.0	231.3	216.6	204.3	196.1	188.4	182.6	173.8	170.8	168.5	166.1
72.5°	203.1	193.1	181.4	172.0	163.8	156.7	149.7	146.8	143.8	141.5	140.3
75°	166.1	156.1	145.6	138.5	132.7	126.8	123.3	120.3	119.2	118.6	116.2
77.5°	129.1	123.3	114.5	108.0	103.9	101.6	98.0	96.9	97.4	94.5	93.9
80°	93.3	90.4	83.4	81.0	78.1	75.7	74.0	71.0	68.1	66.9	65.2
82.5°	63.4	60.5	58.7	54.6	52.2	51.1	49.3	48.7	49.9	48.1	47.5
85°	37.0	34.0	32.9	32.3	31.1	32.3	31.7	31.1	30.5	29.9	30.5
87.5°	14.7	14.7	14.1	15.3	13.5	14.1	14.1	13.5	13.5	13.5	12.9
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: P242907

CATALOG NUMBER: S125RDRP-S1270D927-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1429.9	1429.9	1429.9	1429.9
2.5°	1354.8	1348.3	1346.6	1348.9
5°	1263.8	1257.9	1260.9	1259.7
7.5°	1186.9	1179.3	1170.5	1172.8
10°	1105.3	1099.5	1095.9	1098.9
12.5°	1036.6	1033.7	1030.8	1028.4
15°	975.6	968.6	965.6	958.0
17.5°	916.9	914.6	906.9	901.6
20°	865.8	863.5	855.8	860.5
22.5°	823.6	817.7	816.5	813.6
25°	784.2	776.6	773.7	770.1
27.5°	744.3	740.2	736.1	734.9
30°	705.6	701.5	698.5	698.5
32.5°	670.9	668.0	665.1	664.5
35°	637.5	632.8	631.6	628.1
37.5°	602.3	598.2	598.2	598.7
40°	568.8	565.9	565.3	561.2
42.5°	533.0	531.8	529.5	528.3
45°	501.3	497.2	497.2	494.3
47.5°	467.8	464.3	464.9	461.4
50°	434.4	432.6	432.0	430.9
52.5°	400.9	400.3	403.3	400.3
55°	371.6	369.8	373.3	369.8
57.5°	336.9	335.8	339.3	336.9
60°	302.9	299.4	301.1	301.7
62.5°	262.4	260.6	261.8	258.3
65°	224.8	223.1	220.7	219.5
67.5°	195.5	190.2	190.2	191.4
70°	162.6	162.6	162.0	162.0
72.5°	139.7	139.1	137.9	137.4
75°	116.2	116.8	115.6	115.1
77.5°	91.0	88.1	89.2	88.1
80°	65.2	64.6	66.3	64.6
82.5°	48.1	47.5	48.1	47.0
85°	31.1	30.5	29.9	30.5
87.5°	13.5	12.9	12.9	12.9
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242907  
 CATALOG NUMBER: S125RDRP-S1270D927-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	17.68	19.21	18.05	19.53	19.84	18.66	20.19	19.02	20.51	20.82
	3H	18.81	20.18	19.19	20.51	20.87	20.14	21.51	20.51	21.84	22.20
	4H	19.19	20.48	19.59	20.83	21.21	20.65	21.94	21.05	22.29	22.67
	6H	19.42	20.62	19.84	20.98	21.37	21.00	22.19	21.41	22.56	22.95
	8H	19.48	20.62	19.91	21.01	21.41	21.10	22.23	21.52	22.62	23.02
	12H	19.51	20.60	19.94	20.98	21.41	21.15	22.24	21.58	22.62	23.05
4H	2H	19.27	20.56	19.67	20.91	21.29	19.51	20.80	19.91	21.15	21.53
	3H	20.34	21.41	20.75	21.81	22.21	21.17	22.24	21.58	22.64	23.04
	4H	20.72	21.68	21.15	22.10	22.54	21.76	22.72	22.19	23.13	23.57
	6H	20.98	21.81	21.43	22.26	22.71	22.18	23.02	22.64	23.46	23.92
	8H	21.04	21.82	21.50	22.26	22.73	22.30	23.09	22.77	23.53	24.00
	12H	21.08	21.78	21.56	22.26	22.73	22.39	23.09	22.87	23.56	24.03
8H	4H	21.09	21.88	21.56	22.32	22.79	21.90	22.68	22.37	23.13	23.60
	6H	21.40	22.04	21.90	22.54	23.01	22.42	23.06	22.92	23.56	24.03
	8H	21.49	22.07	22.01	22.58	23.07	22.59	23.17	23.11	23.68	24.17
	12H	21.57	22.08	22.08	22.58	23.14	22.73	23.24	23.24	23.73	24.30
12H	4H	21.12	21.82	21.60	22.30	22.77	21.89	22.59	22.37	23.07	23.54
	6H	21.43	22.01	21.95	22.52	23.01	22.41	22.99	22.92	23.50	23.99
	8H	21.56	22.08	22.07	22.57	23.13	22.63	23.14	23.14	23.63	24.20