

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: P243797

Luminaire Tested: S125RDRP-H1270D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243797
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-H1270D940-X4F0-XX-UDD-A-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

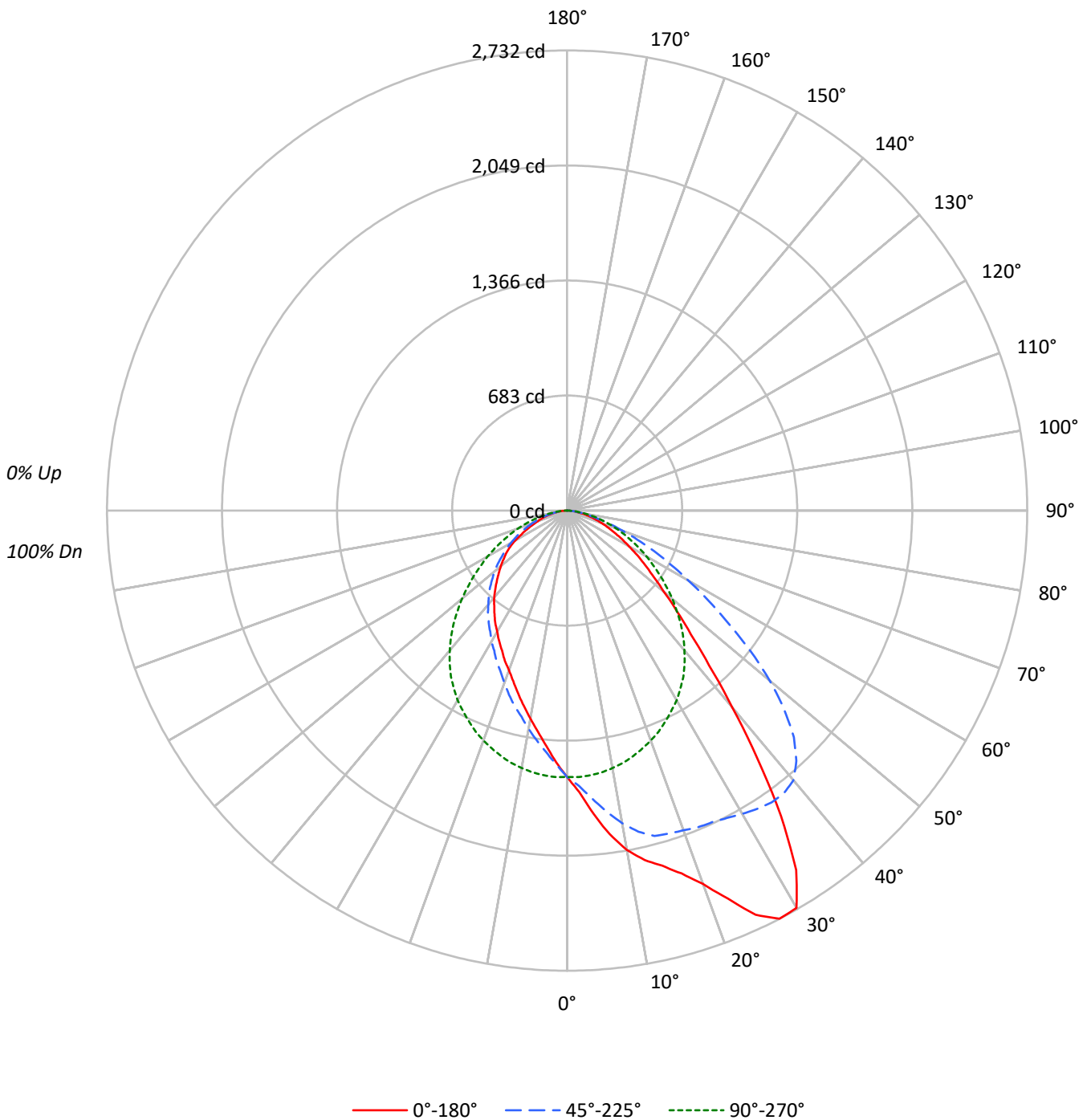
Lumens per Lamp: N/A
Luminaire Lumens: 4209.2 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.22 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11241	11241	11241	11241	11241
5°	12903	12259	11257	10264	10013
10°	14764	13600	11201	9500	9052
15°	16058	14715	11111	8846	8279
20°	17844	15278	10985	8234	7627
25°	20763	16003	10829	7761	7180
30°	22357	17061	10669	7360	6814
35°	19207	18353	10431	7041	6519
40°	14151	19393	10055	6755	6249
45°	10451	19131	9588	6505	5925
50°	8280	17363	9015	6234	5686
55°	6994	14493	8354	5851	5471
60°	6026	11838	7737	5491	5063
65°	5232	9556	7045	5042	4408
70°	4586	7259	6450	4561	3857
75°	3891	5286	5649	4028	3652
80°	3029	3823	4723	3540	3029
85°	2658	2813	3784	3017	2764

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 19131 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.2	3.6
10°-20°	450.4	10.7
20°-30°	718.4	17.1
30°-40°	872.2	20.7
40°-50°	786.0	18.7
50°-60°	604.4	14.4
60°-70°	392.2	9.3
70°-80°	188.7	4.5
80°-90°	44.7	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°	1321.0	31.4
0°-40°	2193.3	52.1
0°-60°	3583.6	85.1
0°-90°	4209.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4209.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1582	1582	1582	1582	1582	
5°	1809	1718	1578	1439	1404	180
15°	2182	2000	1510	1202	1125	626
25°	2648	2041	1381	990	916	1211
35°	2214	2115	1202	812	751	1354
45°	1040	1903	954	647	590	826
55°	564	1170	674	472	442	512
65°	311	568	419	300	262	312
75°	142	192	206	147	133	153
85°	33	34	46	37	34	37
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°	1581.6	1581.6	1581.6	1581.6	1581.6	1581.6	1581.6	1581.6	1581.6	1581.6	1581.6
2.5°	1673.2	1679.4	1674.4	1677.6	1672.5	1670.0	1663.8	1654.4	1644.9	1636.2	1635.5
5°	1808.6	1807.4	1802.4	1795.5	1790.4	1777.9	1771.6	1750.3	1735.9	1718.3	1709.5
7.5°	1937.8	1934.7	1927.2	1917.7	1913.4	1897.1	1879.5	1852.5	1829.9	1802.4	1781.7
10°	2045.7	2045.1	2039.4	2033.1	2016.2	1998.0	1981.1	1952.9	1919.0	1884.5	1855.7
12.5°	2124.7	2121.6	2114.7	2104.0	2090.2	2077.7	2055.1	2029.4	1988.0	1952.9	1913.4
15°	2182.4	2181.1	2171.1	2167.3	2140.4	2122.8	2092.7	2067.0	2035.0	1999.9	1957.3
17.5°	2258.9	2261.4	2252.6	2231.3	2206.9	2179.9	2137.2	2095.2	2050.7	2009.9	1975.4
20°	2359.2	2353.0	2337.9	2312.2	2268.3	2235.1	2192.4	2140.4	2080.2	2020.0	1970.4
22.5°	2493.4	2486.5	2462.7	2431.4	2376.2	2315.3	2250.1	2172.4	2103.4	2034.4	1969.2
25°	2647.7	2634.6	2599.4	2565.6	2487.2	2422.6	2325.4	2232.6	2132.2	2040.7	1967.3
27.5°	2731.8	2731.8	2715.4	2678.4	2616.4	2521.0	2422.0	2298.4	2182.4	2057.0	1952.9
30°	2724.2	2719.8	2726.1	2710.4	2670.3	2598.8	2500.3	2370.5	2222.5	2078.9	1954.1
32.5°	2529.8	2531.7	2569.3	2595.0	2615.1	2597.6	2533.6	2416.3	2268.9	2100.2	1949.1
35°	2213.7	2218.8	2285.2	2329.1	2418.8	2470.2	2485.3	2422.0	2289.6	2115.3	1940.3
37.5°	1852.5	1852.5	1929.7	1996.1	2096.5	2223.2	2317.9	2341.7	2277.1	2114.7	1932.8
40°	1525.2	1523.3	1584.1	1665.6	1772.9	1912.7	2053.8	2174.9	2190.5	2090.2	1906.5
42.5°	1248.0	1244.8	1311.3	1356.5	1469.4	1594.2	1781.7	1952.9	2050.7	2014.3	1867.6
45°	1039.8	1037.3	1080.5	1132.0	1211.6	1341.4	1498.8	1688.8	1853.2	1903.3	1794.8
47.5°	883.0	884.2	907.4	950.7	1018.5	1111.3	1252.4	1428.6	1631.8	1747.8	1703.3
50°	748.8	753.2	770.7	803.3	852.9	927.5	1048.6	1207.8	1416.7	1570.3	1579.7
52.5°	648.4	654.7	673.5	691.1	732.5	785.2	879.2	1017.2	1189.7	1374.0	1439.9
55°	564.4	567.5	578.2	597.0	627.8	671.7	740.0	845.4	1005.3	1169.6	1285.6
57.5°	494.2	494.2	501.1	514.2	538.7	578.2	624.0	711.2	846.0	994.6	1118.2
60°	423.9	426.4	431.5	445.9	462.2	492.3	536.8	592.0	708.7	832.8	965.8
62.5°	365.0	369.4	374.4	381.3	396.3	417.7	449.0	499.8	578.2	693.0	811.5
65°	311.1	315.4	316.1	324.2	334.3	351.8	375.6	412.6	477.9	568.2	666.0
67.5°	263.4	265.3	267.2	273.4	282.8	294.1	309.8	337.4	388.8	449.6	545.0
70°	220.7	222.0	222.6	229.5	233.9	244.0	252.1	269.7	302.3	349.3	423.3
72.5°	180.6	178.7	178.1	183.7	185.6	193.8	203.8	216.4	233.9	267.2	322.3
75°	141.7	142.4	143.0	146.1	146.7	150.5	156.8	164.9	173.1	192.5	227.6
77.5°	109.1	106.6	106.6	110.4	111.6	112.3	116.6	121.0	125.4	136.7	150.5
80°	74.0	75.3	75.3	75.3	75.9	77.1	79.6	83.4	86.5	93.4	96.0
82.5°	52.7	52.7	52.1	53.3	53.9	54.6	54.6	54.6	56.4	58.3	60.8
85°	32.6	33.2	31.4	32.6	33.2	33.2	33.2	33.2	35.1	34.5	35.1
87.5°	13.8	14.4	14.4	15.1	15.1	15.7	15.1	15.7	15.1	15.1	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1581.6	1581.6	1581.6	1581.6	1581.6	1581.6	1581.6	1581.6	1581.6	1581.6	1581.6
2.5°	1633.7	1626.1	1622.4	1614.8	1604.8	1598.5	1592.3	1583.5	1576.6	1565.9	1556.5
5°	1693.9	1678.8	1665.0	1646.2	1628.0	1612.3	1596.0	1577.8	1561.5	1543.4	1523.9
7.5°	1761.0	1737.1	1708.3	1675.0	1646.8	1622.4	1594.8	1567.8	1543.4	1514.5	1488.2
10°	1825.6	1787.3	1749.1	1704.5	1663.1	1626.8	1589.8	1552.1	1520.1	1484.4	1451.8
12.5°	1875.7	1839.4	1782.3	1727.1	1673.2	1626.1	1579.7	1533.9	1491.9	1452.4	1413.5
15°	1919.6	1859.4	1811.1	1750.9	1685.1	1621.1	1563.4	1510.1	1459.3	1412.9	1373.4
17.5°	1932.2	1878.2	1825.6	1755.3	1684.5	1611.7	1545.2	1481.9	1425.5	1374.0	1329.5
20°	1930.9	1876.4	1819.3	1752.2	1676.9	1597.3	1523.3	1452.4	1388.5	1329.5	1281.8
22.5°	1912.1	1859.4	1801.7	1734.0	1657.5	1575.3	1497.6	1419.2	1349.6	1288.1	1239.2
25°	1892.0	1825.6	1765.4	1697.0	1624.3	1548.4	1465.6	1380.9	1308.2	1244.2	1189.0
27.5°	1874.5	1794.8	1720.8	1653.7	1579.1	1510.7	1428.6	1340.2	1265.5	1198.4	1141.4
30°	1846.3	1762.2	1672.5	1599.2	1527.0	1455.6	1380.3	1300.0	1218.5	1150.1	1093.1
32.5°	1821.8	1715.8	1618.6	1535.8	1463.7	1401.0	1328.9	1251.7	1172.1	1106.9	1045.4
35°	1794.8	1668.2	1566.6	1469.4	1397.2	1328.9	1271.8	1202.2	1123.2	1054.2	999.0
37.5°	1762.8	1619.2	1502.6	1403.5	1328.9	1258.6	1207.2	1145.1	1073.6	1005.3	950.7
40°	1727.1	1569.1	1434.9	1332.6	1252.4	1182.1	1138.9	1083.7	1022.8	955.1	904.3
42.5°	1681.9	1515.8	1373.4	1261.8	1172.7	1109.4	1066.1	1020.3	964.5	905.6	850.4
45°	1624.9	1449.3	1300.0	1182.1	1094.3	1032.9	987.7	953.9	909.3	854.1	802.1
47.5°	1555.3	1379.7	1224.8	1102.5	1017.8	958.9	916.9	883.0	849.1	801.5	751.9
50°	1463.1	1300.0	1151.4	1026.6	936.9	879.9	842.2	815.3	784.5	745.7	700.5
52.5°	1361.5	1210.4	1064.9	948.2	861.7	804.6	765.7	743.1	719.9	688.0	649.1
55°	1243.6	1120.7	982.1	867.9	783.3	726.8	696.1	674.2	654.7	630.3	597.6
57.5°	1118.8	1010.9	890.5	785.2	705.5	652.2	625.2	607.1	590.8	573.2	546.2
60°	987.7	911.2	797.1	700.5	630.9	587.0	561.3	544.3	529.3	514.9	494.8
62.5°	851.0	787.7	702.4	620.2	558.1	516.8	497.9	483.5	467.8	455.3	440.9
65°	712.4	676.0	617.1	540.0	482.9	449.0	430.8	418.9	411.4	397.0	385.7
67.5°	586.4	566.3	516.1	464.1	420.2	389.4	372.5	363.7	355.6	348.7	336.1
70°	466.6	452.2	423.3	386.3	351.8	325.5	312.9	310.4	299.1	292.2	286.0
72.5°	355.6	351.8	328.0	311.7	292.2	271.5	262.1	257.1	249.6	243.3	240.8
75°	252.7	258.4	250.8	242.7	233.3	216.4	208.2	205.7	198.8	196.9	193.8
77.5°	172.5	180.6	183.1	179.4	175.0	169.3	163.7	161.2	154.3	153.0	151.1
80°	108.5	120.4	124.8	124.2	122.3	122.9	116.0	115.4	112.3	110.4	112.3
82.5°	65.8	72.1	80.3	82.2	79.6	80.9	79.0	76.5	76.5	77.8	75.3
85°	35.7	36.4	40.1	42.6	45.8	48.3	45.8	46.4	45.8	45.8	43.9
87.5°	15.7	16.3	16.3	15.7	16.9	18.2	20.7	21.9	21.3	19.4	16.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1581.6	1581.6	1581.6	1581.6	1581.6	1581.6	1581.6	1581.6	1581.6	1581.6	1581.6
2.5°	1549.0	1544.6	1537.1	1530.8	1516.4	1506.4	1505.1	1505.7	1504.5	1503.2	1502.6
5°	1511.4	1496.9	1483.1	1471.2	1454.9	1438.6	1431.1	1428.0	1426.7	1419.8	1423.6
7.5°	1471.2	1449.3	1433.0	1410.4	1391.0	1377.2	1364.0	1357.7	1356.5	1347.1	1344.6
10°	1428.6	1402.3	1377.8	1355.2	1335.8	1316.3	1300.7	1295.0	1287.5	1280.0	1268.7
12.5°	1386.6	1354.0	1327.0	1301.9	1275.6	1253.6	1241.1	1232.9	1223.5	1216.6	1212.9
15°	1336.4	1308.8	1275.6	1248.6	1221.6	1202.2	1185.3	1170.2	1161.4	1155.8	1140.1
17.5°	1291.2	1254.9	1223.5	1197.8	1168.3	1146.4	1128.8	1116.3	1101.2	1089.9	1079.9
20°	1243.0	1205.3	1176.5	1145.8	1115.7	1088.7	1066.7	1056.7	1046.0	1035.4	1029.7
22.5°	1190.9	1158.3	1125.7	1093.7	1061.7	1032.9	1019.1	1004.7	995.2	984.6	977.1
25°	1145.8	1110.0	1077.4	1041.7	1006.5	989.6	970.8	956.4	948.8	938.2	930.0
27.5°	1097.5	1063.0	1024.1	987.1	966.4	937.6	925.0	913.7	903.7	893.0	887.4
30°	1052.3	1012.2	973.3	944.4	917.5	896.8	884.9	871.1	857.3	852.3	844.7
32.5°	1004.7	961.4	927.5	898.7	876.1	851.0	839.7	828.4	815.3	809.0	802.1
35°	955.1	913.1	879.9	853.5	830.3	811.5	799.0	787.0	778.9	769.5	764.5
37.5°	903.1	866.7	834.7	808.4	787.0	772.0	756.3	746.9	735.6	726.8	723.1
40°	853.5	820.9	790.2	765.7	746.3	728.1	714.3	702.4	695.5	688.0	681.7
42.5°	809.0	775.1	748.8	723.1	705.5	688.0	674.2	665.4	653.5	650.3	641.5
45°	761.3	730.0	703.6	679.8	661.6	647.2	630.9	620.2	612.7	605.2	602.0
47.5°	713.0	684.2	659.7	637.8	619.0	602.7	590.1	578.8	570.7	563.8	560.0
50°	666.0	640.9	616.5	595.1	575.7	563.8	548.7	536.2	529.9	522.4	518.0
52.5°	616.5	595.8	569.4	551.2	533.1	517.4	502.3	494.2	487.9	481.6	478.5
55°	570.1	548.1	525.5	506.1	488.5	472.2	460.3	454.0	445.9	442.1	441.5
57.5°	522.4	499.8	481.0	463.4	443.4	430.8	420.2	412.6	405.7	402.6	402.6
60°	470.3	452.2	434.6	415.2	400.7	386.3	375.0	370.0	363.1	361.9	357.5
62.5°	422.7	405.7	388.8	370.6	357.5	343.0	334.9	328.0	324.2	319.2	314.2
65°	373.1	358.1	341.8	326.1	315.4	299.8	292.2	284.1	279.7	274.1	267.8
67.5°	325.5	311.1	296.0	281.6	272.8	257.7	252.7	242.7	239.6	233.3	227.6
70°	275.3	265.3	253.4	238.9	231.4	219.5	214.5	205.1	200.1	196.3	193.2
72.5°	232.0	222.6	208.8	199.4	190.0	182.5	174.3	170.0	165.6	162.4	161.8
75°	189.4	177.5	169.3	160.5	154.3	146.7	143.0	139.8	138.0	136.1	134.2
77.5°	144.9	139.8	131.7	122.9	117.9	114.8	112.3	111.0	109.1	108.5	106.6
80°	107.9	101.0	96.0	92.8	89.1	86.5	84.7	80.3	77.8	76.5	75.3
82.5°	71.5	69.6	65.8	62.7	59.6	58.9	57.1	55.8	55.2	55.2	54.6
85°	43.3	38.3	38.3	37.6	37.6	37.0	35.7	35.7	34.5	36.4	36.4
87.5°	17.6	17.6	16.3	16.3	16.9	15.7	15.1	15.1	15.1	14.4	15.1
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: P243797

CATALOG NUMBER: S125RDRP-H1270D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1581.6	1581.6	1581.6	1581.6
2.5°	1502.6	1499.5	1500.1	1496.3
5°	1416.7	1414.8	1408.5	1403.5
7.5°	1338.3	1330.1	1329.5	1324.5
10°	1264.9	1257.4	1253.6	1254.2
12.5°	1200.9	1192.8	1192.8	1187.8
15°	1132.6	1124.4	1125.7	1125.1
17.5°	1076.1	1070.5	1066.1	1062.3
20°	1021.0	1014.1	1011.6	1008.4
22.5°	970.2	965.1	965.8	965.8
25°	921.9	922.5	916.9	915.6
27.5°	879.2	878.0	876.7	874.2
30°	839.1	834.1	832.8	830.3
32.5°	797.7	797.1	792.1	793.9
35°	755.7	753.8	752.5	751.3
37.5°	716.8	713.0	712.4	711.2
40°	677.3	676.0	670.4	673.5
42.5°	634.7	632.1	632.1	632.1
45°	598.9	592.0	592.0	589.5
47.5°	558.8	556.3	555.0	550.6
50°	519.3	515.5	514.2	514.2
52.5°	478.5	477.9	479.1	476.6
55°	442.7	443.4	442.7	441.5
57.5°	403.9	400.7	400.7	401.4
60°	357.5	357.5	358.7	356.2
62.5°	312.9	311.7	307.3	306.0
65°	267.2	262.1	261.5	262.1
67.5°	226.4	224.5	221.4	222.0
70°	191.3	190.6	187.5	185.6
72.5°	159.9	159.9	158.0	158.0
75°	133.6	132.3	131.7	133.0
77.5°	102.8	99.7	101.0	99.1
80°	74.6	75.9	74.6	74.0
82.5°	55.2	53.9	54.6	53.9
85°	35.1	33.9	34.5	33.9
87.5°	14.4	15.1	15.1	13.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243797

CATALOG NUMBER: S125RDRP-H1270D940-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	18.33	19.87	18.69	20.18	20.50	19.03	20.57	19.39	20.88	21.19
	3H	19.41	20.79	19.79	21.12	21.48	20.50	21.88	20.88	22.21	22.57
	4H	19.77	21.06	20.17	21.41	21.79	21.03	22.32	21.43	22.67	23.05
	6H	19.99	21.18	20.40	21.55	21.94	21.38	22.58	21.80	22.95	23.34
	8H	20.04	21.18	20.47	21.57	21.97	21.48	22.62	21.91	23.01	23.41
	12H	20.08	21.17	20.51	21.55	21.98	21.54	22.63	21.97	23.01	23.44
4H	2H	19.85	21.14	20.25	21.49	21.87	19.90	21.19	20.30	21.54	21.92
	3H	20.89	21.97	21.30	22.37	22.77	21.56	22.63	21.97	23.03	23.43
	4H	21.26	22.22	21.69	22.64	23.08	22.16	23.12	22.59	23.54	23.98
	6H	21.50	22.34	21.96	22.78	23.24	22.59	23.43	23.05	23.87	24.33
	8H	21.56	22.35	22.03	22.79	23.26	22.72	23.50	23.18	23.94	24.41
	12H	21.61	22.31	22.09	22.79	23.26	22.80	23.50	23.28	23.98	24.45
8H	4H	21.62	22.40	22.08	22.85	23.31	22.31	23.10	22.77	23.54	24.01
	6H	21.91	22.56	22.41	23.05	23.53	22.83	23.48	23.33	23.97	24.45
	8H	22.00	22.59	22.52	23.10	23.58	23.01	23.59	23.52	24.10	24.59
	12H	22.09	22.60	22.60	23.10	23.66	23.15	23.66	23.66	24.15	24.72
12H	4H	21.64	22.34	22.12	22.82	23.29	22.30	23.00	22.78	23.48	23.95
	6H	21.94	22.52	22.45	23.03	23.52	22.83	23.41	23.34	23.92	24.41
	8H	22.08	22.59	22.58	23.08	23.65	23.04	23.56	23.55	24.05	24.61