

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: P243796

Luminaire Tested: S125RDRP-H1090D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P243796
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-H1090D940-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

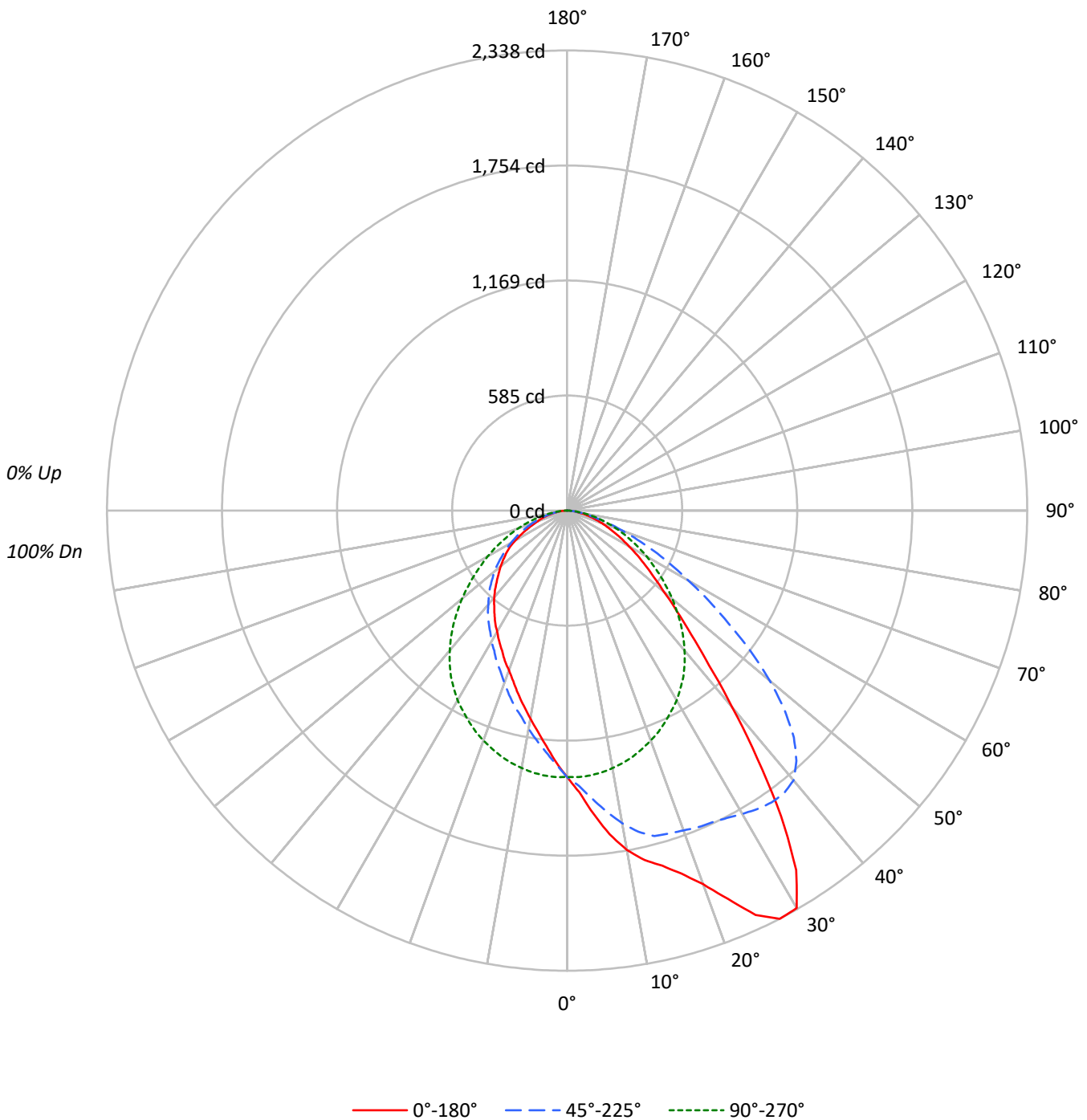
Lumens per Lamp: N/A
Luminaire Lumens: 3603.2 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.22 / 1.5
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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°	9623	9623	9623	9623	9623
5°	11046	10494	9637	8786	8571
10°	12638	11642	9589	8132	7749
15°	13746	12597	9512	7572	7087
20°	15275	13078	9404	7048	6529
25°	17774	13699	9270	6643	6147
30°	19138	14605	9133	6300	5833
35°	16442	15710	8929	6028	5580
40°	12113	16601	8606	5783	5350
45°	8947	16377	8207	5568	5072
50°	7088	14863	7717	5336	4867
55°	5987	12406	7151	5009	4683
60°	5159	10134	6624	4701	4334
65°	4478	8180	6031	4315	3774
70°	3928	6213	5521	3905	3302
75°	3331	4526	4836	3449	3125
80°	2591	3274	4044	3033	2591
85°	2275	2406	3237	2585	2365

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 16377 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	3.6
10°-20°	385.6	10.7
20°-30°	615.0	17.1
30°-40°	746.7	20.7
40°-50°	672.8	18.7
50°-60°	517.4	14.4
60°-70°	335.8	9.3
70°-80°	161.6	4.5
80°-90°	38.2	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°	1130.8	31.4
0°-40°	1877.5	52.1
0°-60°	3067.7	85.1
0°-90°	3603.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3603.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1354	1354	1354	1354	1354	
5°	1548	1471	1351	1232	1201	154
15°	1868	1712	1293	1029	963	536
25°	2266	1747	1182	847	784	1036
35°	1895	1811	1029	695	643	1159
45°	890	1629	816	554	505	707
55°	483	1001	577	404	378	438
65°	266	486	359	257	224	267
75°	121	165	176	126	114	131
85°	28	30	40	32	29	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°	1353.9	1353.9	1353.9	1353.9	1353.9	1353.9	1353.9	1353.9	1353.9	1353.9	1353.9
2.5°	1432.3	1437.6	1433.3	1436.0	1431.7	1429.6	1424.2	1416.2	1408.1	1400.6	1400.1
5°	1548.2	1547.2	1542.9	1537.0	1532.7	1521.9	1516.6	1498.3	1486.0	1470.9	1463.4
7.5°	1658.8	1656.1	1649.7	1641.6	1637.9	1623.9	1608.9	1585.8	1566.5	1542.9	1525.1
10°	1751.2	1750.6	1745.8	1740.4	1725.9	1710.4	1695.9	1671.7	1642.7	1613.2	1588.5
12.5°	1818.8	1816.1	1810.2	1801.1	1789.3	1778.5	1759.2	1737.2	1701.8	1671.7	1637.9
15°	1868.2	1867.1	1858.5	1855.3	1832.2	1817.2	1791.4	1769.4	1742.0	1712.0	1675.5
17.5°	1933.7	1935.8	1928.3	1910.1	1889.1	1866.0	1829.5	1793.6	1755.4	1720.6	1691.0
20°	2019.6	2014.2	2001.3	1979.3	1941.7	1913.3	1876.8	1832.2	1780.7	1729.1	1686.7
22.5°	2134.5	2128.5	2108.1	2081.3	2034.1	1982.0	1926.2	1859.6	1800.5	1741.5	1685.7
25°	2266.5	2255.2	2225.2	2196.2	2129.1	2073.8	1990.6	1911.1	1825.2	1746.9	1684.0
27.5°	2338.5	2338.5	2324.5	2292.8	2239.7	2158.1	2073.3	1967.5	1868.2	1760.8	1671.7
30°	2332.0	2328.3	2333.6	2320.2	2285.8	2224.6	2140.4	2029.2	1902.5	1779.6	1672.8
32.5°	2165.6	2167.2	2199.4	2221.4	2238.6	2223.6	2168.8	2068.4	1942.3	1797.9	1668.5
35°	1895.0	1899.3	1956.2	1993.8	2070.6	2114.6	2127.5	2073.3	1960.0	1810.7	1661.0
37.5°	1585.8	1585.8	1651.8	1708.7	1794.6	1903.1	1984.1	2004.5	1949.2	1810.2	1654.5
40°	1305.6	1304.0	1356.0	1425.8	1517.6	1637.3	1758.1	1861.7	1875.2	1789.3	1632.0
42.5°	1068.3	1065.6	1122.5	1161.2	1257.8	1364.6	1525.1	1671.7	1755.4	1724.3	1598.7
45°	890.1	887.9	925.0	969.0	1037.2	1148.3	1283.0	1445.7	1586.3	1629.3	1536.4
47.5°	755.9	756.9	776.8	813.8	871.8	951.3	1072.1	1222.9	1396.8	1496.2	1458.0
50°	641.0	644.7	659.8	687.7	730.1	794.0	897.6	1033.9	1212.7	1344.2	1352.3
52.5°	555.1	560.5	576.6	591.6	627.0	672.1	752.6	870.7	1018.4	1176.2	1232.6
55°	483.2	485.8	495.0	511.1	537.4	574.9	633.5	723.7	860.5	1001.2	1100.5
57.5°	423.0	423.0	428.9	440.2	461.1	495.0	534.2	608.8	724.2	851.4	957.2
60°	362.9	365.0	369.3	381.7	395.6	421.4	459.5	506.8	606.6	712.9	826.7
62.5°	312.4	316.2	320.5	326.4	339.3	357.5	384.4	427.9	495.0	593.2	694.7
65°	266.3	270.0	270.6	277.5	286.1	301.2	321.6	353.2	409.1	486.4	570.1
67.5°	225.5	227.1	228.7	234.1	242.1	251.8	265.2	288.8	332.8	384.9	466.5
70°	189.0	190.0	190.6	196.5	200.2	208.8	215.8	230.8	258.8	299.0	362.4
72.5°	154.6	153.0	152.5	157.3	158.9	165.9	174.5	185.2	200.2	228.7	275.9
75°	121.3	121.9	122.4	125.1	125.6	128.8	134.2	141.2	148.2	164.8	194.9
77.5°	93.4	91.3	91.3	94.5	95.6	96.1	99.9	103.6	107.4	117.0	128.8
80°	63.3	64.4	64.4	64.4	65.0	66.0	68.2	71.4	74.1	80.0	82.1
82.5°	45.1	45.1	44.6	45.6	46.2	46.7	46.7	46.7	48.3	49.9	52.1
85°	27.9	28.5	26.8	27.9	28.5	28.5	28.5	28.5	30.1	29.5	30.1
87.5°	11.8	12.3	12.3	12.9	12.9	13.4	12.9	13.4	12.9	12.9	13.4
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°	1353.9	1353.9	1353.9	1353.9	1353.9	1353.9	1353.9	1353.9	1353.9	1353.9	1353.9
2.5°	1398.5	1392.0	1388.8	1382.3	1373.8	1368.4	1363.0	1355.5	1349.6	1340.5	1332.4
5°	1450.0	1437.1	1425.3	1409.2	1393.6	1380.2	1366.2	1350.7	1336.7	1321.1	1304.5
7.5°	1507.4	1487.0	1462.3	1433.9	1409.7	1388.8	1365.2	1342.1	1321.1	1296.5	1273.9
10°	1562.7	1530.0	1497.2	1459.1	1423.7	1392.5	1360.9	1328.7	1301.3	1270.7	1242.8
12.5°	1605.7	1574.5	1525.7	1478.4	1432.3	1392.0	1352.3	1313.1	1277.1	1243.3	1210.0
15°	1643.2	1591.7	1550.4	1498.8	1442.5	1387.7	1338.3	1292.7	1249.2	1209.5	1175.7
17.5°	1654.0	1607.8	1562.7	1502.6	1441.9	1379.7	1322.8	1268.5	1220.2	1176.2	1138.1
20°	1652.9	1606.2	1557.4	1499.9	1435.5	1367.3	1304.0	1243.3	1188.6	1138.1	1097.3
22.5°	1636.8	1591.7	1542.3	1484.3	1418.9	1348.5	1282.0	1214.9	1155.3	1102.7	1060.8
25°	1619.6	1562.7	1511.2	1452.7	1390.4	1325.4	1254.6	1182.1	1119.8	1065.1	1017.8
27.5°	1604.6	1536.4	1473.1	1415.6	1351.7	1293.2	1222.9	1147.2	1083.3	1025.9	977.0
30°	1580.4	1508.5	1431.7	1368.9	1307.2	1246.0	1181.6	1112.9	1043.1	984.6	935.7
32.5°	1559.5	1468.8	1385.6	1314.7	1253.0	1199.3	1137.6	1071.5	1003.3	947.5	894.9
35°	1536.4	1428.0	1341.0	1257.8	1196.1	1137.6	1088.7	1029.1	961.5	902.4	855.2
37.5°	1509.0	1386.1	1286.3	1201.4	1137.6	1077.4	1033.4	980.3	919.1	860.5	813.8
40°	1478.4	1343.2	1228.3	1140.8	1072.1	1011.9	974.9	927.6	875.6	817.6	774.1
42.5°	1439.8	1297.5	1175.7	1080.1	1003.9	949.7	912.6	873.4	825.7	775.2	727.9
45°	1390.9	1240.6	1112.9	1011.9	936.8	884.2	845.5	816.5	778.4	731.2	686.6
47.5°	1331.3	1181.0	1048.4	943.8	871.3	820.8	784.9	755.9	726.9	686.1	643.7
50°	1252.4	1112.9	985.6	878.8	802.0	753.2	721.0	697.9	671.6	638.3	599.6
52.5°	1165.5	1036.1	911.5	811.7	737.6	688.8	655.5	636.1	616.3	588.9	555.6
55°	1064.5	959.3	840.7	743.0	670.5	622.2	595.9	577.1	560.5	539.5	511.6
57.5°	957.7	865.4	762.3	672.1	603.9	558.3	535.2	519.7	505.7	490.7	467.6
60°	845.5	780.0	682.3	599.6	540.1	502.5	480.5	466.0	453.1	440.7	423.6
62.5°	728.5	674.3	601.3	530.9	477.8	442.4	426.2	413.9	400.5	389.7	377.4
65°	609.8	578.7	528.2	462.2	413.4	384.4	368.8	358.6	352.2	339.8	330.2
67.5°	501.9	484.8	441.8	397.3	359.7	333.4	318.9	311.4	304.4	298.5	287.7
70°	399.4	387.1	362.4	330.7	301.2	278.6	267.9	265.7	256.1	250.2	244.8
72.5°	304.4	301.2	280.8	266.8	250.2	232.4	224.4	220.1	213.7	208.3	206.1
75°	216.3	221.2	214.7	207.8	199.7	185.2	178.2	176.1	170.2	168.6	165.9
77.5°	147.6	154.6	156.8	153.5	149.8	144.9	140.1	138.0	132.1	131.0	129.4
80°	92.9	103.1	106.8	106.3	104.7	105.2	99.3	98.8	96.1	94.5	96.1
82.5°	56.4	61.7	68.7	70.3	68.2	69.3	67.6	65.5	65.5	66.6	64.4
85°	30.6	31.1	34.4	36.5	39.2	41.3	39.2	39.7	39.2	39.2	37.6
87.5°	13.4	14.0	14.0	13.4	14.5	15.6	17.7	18.8	18.3	16.6	14.5
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°	1353.9	1353.9	1353.9	1353.9	1353.9	1353.9	1353.9	1353.9	1353.9	1353.9	1353.9
2.5°	1326.0	1322.2	1315.8	1310.4	1298.1	1289.5	1288.4	1288.9	1287.9	1286.8	1286.3
5°	1293.8	1281.4	1269.6	1259.4	1245.5	1231.5	1225.1	1222.4	1221.3	1215.4	1218.6
7.5°	1259.4	1240.6	1226.7	1207.3	1190.7	1178.9	1167.6	1162.2	1161.2	1153.1	1151.0
10°	1222.9	1200.4	1179.4	1160.1	1143.5	1126.8	1113.4	1108.6	1102.1	1095.7	1086.0
12.5°	1186.9	1159.0	1135.9	1114.5	1091.9	1073.1	1062.4	1055.4	1047.4	1041.5	1038.2
15°	1144.0	1120.4	1091.9	1068.8	1045.8	1029.1	1014.6	1001.7	994.2	989.4	976.0
17.5°	1105.3	1074.2	1047.4	1025.4	1000.1	981.3	966.3	955.6	942.7	933.0	924.4
20°	1064.0	1031.8	1007.1	980.8	955.0	931.9	913.2	904.6	895.4	886.3	881.5
22.5°	1019.4	991.5	963.6	936.2	908.9	884.2	872.4	860.0	852.0	842.8	836.4
25°	980.8	950.2	922.3	891.7	861.6	847.1	831.0	818.7	812.2	803.1	796.1
27.5°	939.5	909.9	876.7	845.0	827.3	802.6	791.8	782.2	773.6	764.5	759.6
30°	900.8	866.5	833.2	808.5	785.4	767.7	757.5	745.7	733.9	729.6	723.1
32.5°	860.0	823.0	794.0	769.3	750.0	728.5	718.8	709.2	697.9	692.5	686.6
35°	817.6	781.6	753.2	730.6	710.8	694.7	683.9	673.7	666.7	658.7	654.4
37.5°	773.0	741.9	714.5	692.0	673.7	660.8	647.4	639.4	629.7	622.2	619.0
40°	730.6	702.7	676.4	655.5	638.8	623.3	611.5	601.3	595.3	588.9	583.5
42.5°	692.5	663.5	641.0	619.0	603.9	588.9	577.1	569.6	559.4	556.7	549.2
45°	651.7	624.9	602.3	581.9	566.4	554.0	540.1	530.9	524.5	518.0	515.4
47.5°	610.4	585.7	564.7	546.0	529.9	515.9	505.2	495.5	488.5	482.6	479.4
50°	570.1	548.6	527.7	509.5	492.8	482.6	469.7	459.0	453.6	447.2	443.4
52.5°	527.7	510.0	487.4	471.9	456.3	442.9	430.0	423.0	417.7	412.3	409.6
55°	488.0	469.2	449.9	433.2	418.2	404.2	394.0	388.7	381.7	378.5	377.9
57.5°	447.2	427.9	411.8	396.7	379.5	368.8	359.7	353.2	347.3	344.6	344.6
60°	402.6	387.1	372.0	355.4	343.0	330.7	321.0	316.7	310.8	309.8	306.0
62.5°	361.8	347.3	332.8	317.3	306.0	293.6	286.7	280.8	277.5	273.2	269.0
65°	319.4	306.5	292.6	279.2	270.0	256.6	250.2	243.2	239.4	234.6	229.2
67.5°	278.6	266.3	253.4	241.0	233.5	220.6	216.3	207.8	205.1	199.7	194.9
70°	235.7	227.1	216.9	204.5	198.1	187.9	183.6	175.5	171.3	168.0	165.3
72.5°	198.6	190.6	178.8	170.7	162.7	156.2	149.2	145.5	141.7	139.0	138.5
75°	162.1	151.9	144.9	137.4	132.1	125.6	122.4	119.7	118.1	116.5	114.9
77.5°	124.0	119.7	112.7	105.2	100.9	98.2	96.1	95.0	93.4	92.9	91.3
80°	92.3	86.4	82.1	79.5	76.2	74.1	72.5	68.7	66.6	65.5	64.4
82.5°	61.2	59.6	56.4	53.7	51.0	50.5	48.9	47.8	47.2	47.2	46.7
85°	37.0	32.7	32.7	32.2	32.2	31.7	30.6	30.6	29.5	31.1	31.1
87.5°	15.0	15.0	14.0	14.0	14.5	13.4	12.9	12.9	12.9	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



TEST NUMBER: P243796

CATALOG NUMBER: S125RDRP-H1090D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1353.9	1353.9	1353.9	1353.9
2.5°	1286.3	1283.6	1284.1	1280.9
5°	1212.7	1211.1	1205.7	1201.4
7.5°	1145.6	1138.6	1138.1	1133.8
10°	1082.8	1076.4	1073.1	1073.7
12.5°	1028.0	1021.1	1021.1	1016.8
15°	969.5	962.5	963.6	963.1
17.5°	921.2	916.4	912.6	909.4
20°	874.0	868.1	865.9	863.2
22.5°	830.5	826.2	826.7	826.7
25°	789.1	789.7	784.9	783.8
27.5°	752.6	751.6	750.5	748.3
30°	718.3	714.0	712.9	710.8
32.5°	682.9	682.3	678.0	679.6
35°	646.9	645.3	644.2	643.1
37.5°	613.6	610.4	609.8	608.8
40°	579.8	578.7	573.9	576.6
42.5°	543.3	541.1	541.1	541.1
45°	512.7	506.8	506.8	504.6
47.5°	478.3	476.2	475.1	471.3
50°	444.5	441.3	440.2	440.2
52.5°	409.6	409.1	410.1	408.0
55°	379.0	379.5	379.0	377.9
57.5°	345.7	343.0	343.0	343.6
60°	306.0	306.0	307.1	304.9
62.5°	267.9	266.8	263.0	262.0
65°	228.7	224.4	223.9	224.4
67.5°	193.8	192.2	189.5	190.0
70°	163.7	163.2	160.5	158.9
72.5°	136.9	136.9	135.3	135.3
75°	114.3	113.3	112.7	113.8
77.5°	88.0	85.4	86.4	84.8
80°	63.9	65.0	63.9	63.3
82.5°	47.2	46.2	46.7	46.2
85°	30.1	29.0	29.5	29.0
87.5°	12.3	12.9	12.9	11.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P243796
 CATALOG NUMBER: S125RDRP-H1090D940-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	17.79	19.33	18.15	19.64	19.96	18.49	20.03	18.85	20.34	20.65
	3H	18.87	20.25	19.25	20.58	20.94	19.96	21.34	20.34	21.67	22.03
	4H	19.23	20.52	19.63	20.87	21.25	20.49	21.78	20.89	22.13	22.51
	6H	19.45	20.64	19.86	21.01	21.40	20.84	22.04	21.26	22.41	22.80
	8H	19.50	20.64	19.93	21.03	21.43	20.94	22.08	21.37	22.47	22.87
	12H	19.54	20.63	19.97	21.01	21.44	21.00	22.09	21.43	22.47	22.90
4H	2H	19.31	20.60	19.71	20.95	21.33	19.36	20.65	19.76	21.00	21.38
	3H	20.35	21.43	20.76	21.83	22.23	21.02	22.09	21.43	22.49	22.89
	4H	20.72	21.68	21.15	22.10	22.54	21.62	22.58	22.05	23.00	23.44
	6H	20.96	21.80	21.42	22.24	22.70	22.05	22.89	22.51	23.33	23.79
	8H	21.02	21.81	21.49	22.25	22.72	22.18	22.96	22.64	23.40	23.87
	12H	21.07	21.77	21.55	22.25	22.72	22.26	22.96	22.74	23.44	23.91
8H	4H	21.08	21.86	21.54	22.31	22.77	21.77	22.56	22.23	23.00	23.47
	6H	21.37	22.02	21.87	22.51	22.99	22.29	22.94	22.79	23.43	23.91
	8H	21.46	22.05	21.98	22.56	23.04	22.47	23.05	22.98	23.56	24.05
	12H	21.55	22.06	22.06	22.56	23.12	22.61	23.12	23.12	23.61	24.18
12H	4H	21.10	21.80	21.58	22.28	22.75	21.76	22.46	22.24	22.94	23.41
	6H	21.40	21.98	21.91	22.49	22.98	22.29	22.87	22.80	23.38	23.87
	8H	21.54	22.05	22.04	22.54	23.11	22.50	23.02	23.01	23.51	24.07