

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: P242906

Luminaire Tested: S125RDRP-S1090D927-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242906
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-S1090D927-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

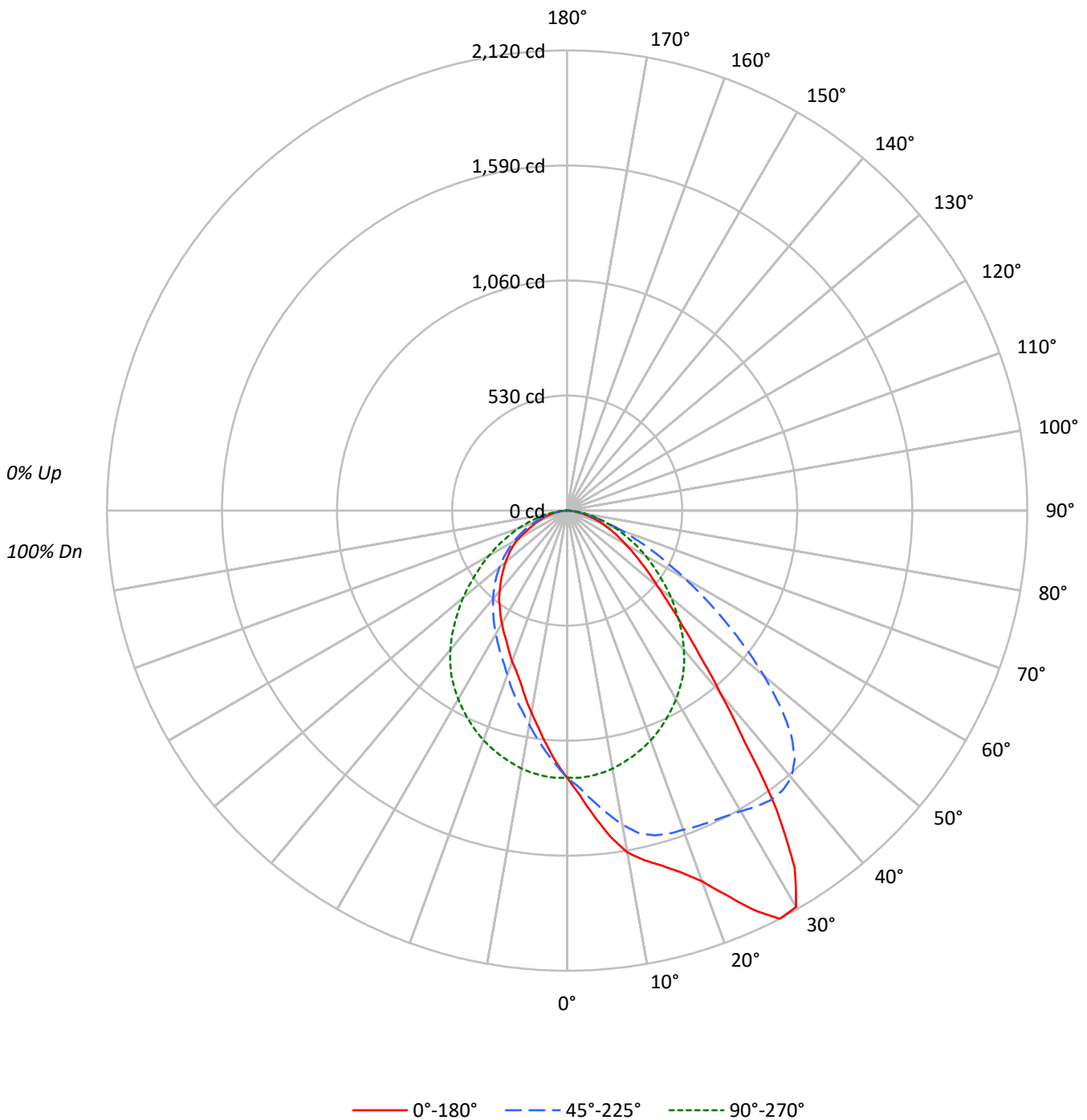
Lumens per Lamp: N/A
Luminaire Lumens: 3187.9 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.21 / 1.48
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	8745	8745	8745	8745	8745
5°	10061	9564	8757	7956	7733
10°	11541	10608	8712	7232	6824
15°	12465	11398	8622	6641	6065
20°	13745	11835	8519	6097	5601
25°	15907	12378	8382	5700	5197
30°	17310	13124	8236	5385	4932
35°	14602	14146	8068	5136	4689
40°	10197	14912	7765	4920	4480
45°	7565	14672	7357	4716	4275
50°	6032	13074	6931	4496	4099
55°	5120	10977	6403	4269	3943
60°	4422	8896	5930	4006	3690
65°	3942	7100	5419	3712	3177
70°	3464	5447	4964	3369	2897
75°	2996	4064	4300	2996	2719
80°	2276	2914	3618	2669	2276
85°	1892	2063	2846	2267	2145

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 14672 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	3.7
10°-20°	345.9	10.9
20°-30°	548.5	17.2
30°-40°	662.8	20.8
40°-50°	590.2	18.5
50°-60°	452.5	14.2
60°-70°	293.9	9.2
70°-80°	142.6	4.5
80°-90°	33.5	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°	1012.4	31.8
0°-40°	1675.1	52.5
0°-60°	2717.8	85.3
0°-90°	3187.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3187.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1230	1230	1230	1230	1230	
5°	1410	1340	1227	1115	1084	140
15°	1694	1549	1172	903	824	485
25°	2028	1578	1069	727	663	934
35°	1683	1630	930	592	540	1020
45°	753	1460	732	469	425	597
55°	413	886	517	344	318	374
65°	234	422	322	221	189	233
75°	109	148	157	109	99	116
85°	23	25	35	28	26	28
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°	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4
2.5°	1310.2	1309.2	1311.2	1305.6	1306.1	1297.6	1297.6	1291.0	1282.4	1275.8	1272.8
5°	1410.2	1411.2	1409.2	1401.6	1396.6	1389.0	1380.4	1365.2	1352.6	1340.5	1330.9
7.5°	1512.2	1513.2	1506.7	1505.1	1492.0	1483.9	1464.7	1445.0	1427.9	1405.1	1389.0
10°	1599.1	1598.6	1591.5	1586.0	1574.9	1560.7	1542.0	1517.8	1495.0	1469.8	1445.5
12.5°	1649.6	1648.1	1647.1	1640.0	1629.9	1617.8	1602.6	1578.9	1549.6	1521.3	1492.0
15°	1694.1	1690.5	1683.9	1675.4	1660.7	1646.1	1628.4	1607.2	1580.4	1549.1	1522.8
17.5°	1747.6	1748.1	1738.0	1728.9	1709.7	1685.5	1659.2	1626.9	1592.5	1560.7	1534.4
20°	1817.3	1815.8	1805.7	1782.4	1759.7	1727.4	1696.1	1654.1	1609.7	1564.7	1529.9
22.5°	1917.3	1912.8	1902.1	1869.8	1831.4	1787.5	1735.5	1681.9	1625.9	1573.3	1524.8
25°	2028.4	2025.4	2004.7	1969.3	1919.8	1855.7	1793.0	1722.8	1645.6	1578.4	1522.8
27.5°	2120.3	2114.3	2095.6	2062.3	2013.8	1944.6	1858.2	1767.3	1675.4	1587.0	1510.7
30°	2109.2	2116.8	2114.8	2101.1	2066.8	2006.2	1927.9	1822.3	1707.7	1599.1	1503.6
32.5°	1950.6	1957.2	1979.9	2016.8	2027.9	2012.8	1959.2	1863.8	1744.1	1616.8	1498.1
35°	1682.9	1692.0	1726.4	1780.4	1851.1	1910.2	1922.3	1869.8	1763.2	1630.4	1492.5
37.5°	1342.5	1401.6	1424.8	1479.9	1591.0	1698.6	1792.0	1813.2	1755.7	1627.4	1486.0
40°	1099.1	1111.2	1162.7	1226.8	1316.8	1429.9	1578.9	1686.5	1690.0	1607.2	1464.7
42.5°	901.1	917.2	948.5	996.5	1070.3	1183.4	1338.5	1489.0	1570.3	1551.6	1437.0
45°	752.6	764.2	790.0	829.3	888.4	981.9	1114.2	1278.4	1408.7	1459.7	1382.9
47.5°	636.4	642.5	666.2	698.0	743.5	814.2	921.8	1070.3	1225.3	1328.9	1308.7
50°	545.5	552.6	569.7	592.5	629.3	686.9	768.7	887.4	1048.6	1182.4	1209.2
52.5°	474.8	480.3	489.4	510.6	539.4	580.3	642.5	747.0	887.9	1032.4	1103.1
55°	413.2	417.2	425.8	437.9	462.2	494.0	551.0	625.3	742.5	885.9	976.8
57.5°	360.6	362.6	367.7	379.8	397.5	421.2	464.7	532.4	617.2	752.1	852.1
60°	311.1	313.2	320.2	327.8	340.9	362.1	394.5	438.4	519.2	625.8	727.3
62.5°	271.7	272.7	274.8	282.3	293.5	308.6	332.3	366.2	426.3	516.7	611.2
65°	234.4	234.9	235.9	241.9	249.0	261.1	277.8	303.1	351.5	422.2	507.1
67.5°	197.0	198.0	201.5	203.5	212.1	218.2	228.8	249.0	286.4	336.9	405.6
70°	166.7	166.2	169.7	172.2	174.8	182.3	188.9	204.6	225.8	262.1	317.2
72.5°	138.4	136.9	137.9	138.4	141.9	146.5	153.0	161.1	176.3	198.5	237.4
75°	109.1	109.6	109.6	110.6	113.1	115.2	117.2	122.2	131.3	148.0	170.7
77.5°	81.8	80.8	83.3	83.3	85.4	87.9	89.4	91.4	95.0	102.5	116.2
80°	55.6	55.6	56.1	57.6	57.1	58.1	60.6	62.6	67.2	71.2	75.3
82.5°	39.4	38.9	39.4	39.4	39.4	40.4	40.9	40.9	41.9	43.4	46.0
85°	23.2	23.2	23.7	23.7	24.2	24.2	24.7	24.7	24.7	25.3	25.8
87.5°	11.1	10.6	10.1	10.1	10.6	11.6	11.1	10.6	10.6	10.6	11.1
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°	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4
2.5°	1272.8	1269.3	1262.7	1256.6	1249.1	1242.5	1238.0	1232.4	1225.3	1216.7	1209.7
5°	1320.3	1309.2	1294.5	1281.9	1265.7	1253.1	1240.0	1227.4	1214.7	1198.6	1184.4
7.5°	1372.8	1351.1	1330.9	1304.6	1280.9	1260.2	1240.0	1219.3	1199.6	1177.3	1156.6
10°	1420.3	1392.5	1361.7	1326.3	1294.0	1263.2	1234.9	1207.1	1177.9	1152.1	1124.3
12.5°	1464.7	1426.9	1390.5	1343.5	1303.1	1263.7	1225.8	1189.5	1157.7	1122.3	1092.0
15°	1488.0	1452.6	1413.2	1358.7	1304.6	1259.2	1216.7	1171.8	1132.9	1095.5	1062.2
17.5°	1501.6	1464.2	1418.8	1365.7	1307.7	1251.1	1197.6	1149.6	1105.1	1062.2	1025.3
20°	1495.6	1459.7	1412.7	1362.7	1299.6	1240.0	1180.9	1126.3	1075.3	1029.4	989.5
22.5°	1480.9	1443.5	1398.6	1345.0	1285.9	1221.8	1157.7	1098.6	1044.5	996.5	952.1
25°	1466.3	1415.7	1369.3	1317.8	1260.7	1198.1	1132.9	1068.8	1011.7	963.2	915.7
27.5°	1452.1	1391.0	1333.4	1283.9	1222.8	1166.2	1102.6	1036.4	976.8	927.8	879.4
30°	1431.4	1360.7	1295.5	1237.5	1180.4	1127.3	1067.7	1003.6	942.0	891.0	841.5
32.5°	1405.6	1329.4	1256.1	1186.9	1132.4	1079.9	1027.3	966.7	907.1	854.1	803.6
35°	1384.9	1289.0	1211.2	1140.0	1078.9	1027.8	979.4	929.9	869.8	815.2	766.2
37.5°	1356.1	1250.6	1162.7	1084.9	1021.3	970.8	931.9	884.9	828.8	775.8	730.4
40°	1330.4	1208.2	1109.7	1032.9	965.2	911.2	875.3	836.9	786.9	737.9	692.5
42.5°	1296.0	1169.3	1056.1	975.3	907.1	855.6	819.2	786.9	747.0	701.6	652.1
45°	1249.1	1116.7	1001.1	915.2	846.5	795.5	761.7	731.9	700.0	657.6	615.2
47.5°	1193.0	1066.7	945.0	850.6	784.4	736.4	703.1	678.3	655.1	618.2	575.3
50°	1122.8	1002.1	883.9	793.0	721.3	676.3	645.5	626.8	606.1	573.3	538.9
52.5°	1040.0	935.4	820.3	726.8	660.1	618.7	589.4	570.7	554.6	529.3	497.0
55°	952.1	857.6	751.6	667.2	605.1	562.7	534.4	516.7	506.6	483.9	458.1
57.5°	852.6	779.8	683.9	601.6	545.5	503.1	481.8	466.2	454.6	437.9	418.7
60°	747.5	700.0	616.2	538.9	488.4	448.5	429.8	417.2	406.6	393.0	378.8
62.5°	641.0	609.6	539.4	475.8	430.3	398.5	381.3	370.2	357.6	349.5	335.9
65°	548.0	517.2	466.7	414.7	371.7	345.0	332.3	322.2	314.7	304.6	295.0
67.5°	445.0	430.8	393.5	354.6	323.3	297.5	286.4	278.3	269.7	263.7	256.6
70°	351.5	345.5	320.7	297.0	268.2	252.0	241.9	238.9	227.8	221.7	217.2
72.5°	268.7	266.7	255.1	240.4	222.2	208.6	199.5	196.0	189.9	185.4	182.8
75°	195.5	196.5	194.0	183.3	175.8	166.7	158.6	156.6	151.5	147.5	145.0
77.5°	133.3	138.4	137.4	136.9	133.3	126.8	123.2	121.7	116.2	114.7	114.1
80°	84.9	90.4	95.5	95.0	93.9	92.4	89.9	88.4	85.9	84.3	83.3
82.5°	49.5	54.5	58.6	62.1	62.1	60.6	59.1	58.6	58.6	57.6	57.6
85°	26.8	27.8	29.3	32.8	35.4	35.9	35.4	34.9	33.3	33.8	34.3
87.5°	11.6	11.6	12.1	12.1	11.6	14.1	15.7	16.2	15.2	14.1	13.1
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°	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4	1230.4
2.5°	1204.6	1197.6	1192.5	1182.4	1175.3	1172.3	1166.7	1165.2	1170.8	1166.7	1166.2
5°	1173.8	1159.2	1147.5	1135.9	1123.3	1115.2	1103.1	1101.1	1098.1	1093.5	1092.5
7.5°	1138.0	1119.8	1106.1	1086.9	1071.3	1058.7	1043.5	1037.4	1034.4	1028.9	1019.8
10°	1101.6	1078.9	1058.7	1039.5	1018.8	1002.1	986.9	975.3	967.7	960.7	957.6
12.5°	1065.7	1042.5	1015.2	991.0	967.2	948.0	930.9	924.3	915.7	907.1	899.0
15°	1028.4	997.5	969.3	942.5	922.8	902.6	886.4	875.3	862.7	859.1	845.5
17.5°	988.4	959.7	926.3	897.5	875.3	854.1	836.4	823.3	813.7	800.1	793.5
20°	951.6	915.7	883.4	857.6	832.4	806.1	787.9	777.3	768.2	757.6	752.6
22.5°	912.2	877.3	844.0	812.7	786.9	761.2	749.5	738.4	727.8	718.2	711.2
25°	873.8	838.4	803.6	772.3	745.5	726.8	711.7	699.0	693.5	683.9	676.8
27.5°	835.4	798.0	762.7	729.8	709.1	690.4	678.3	668.2	657.6	649.0	642.5
30°	798.5	760.2	720.8	696.0	673.8	656.1	642.5	632.9	625.3	617.7	613.2
32.5°	761.7	721.8	687.9	660.6	639.9	625.3	611.2	602.1	594.0	585.4	579.8
35°	721.8	681.4	653.1	626.8	606.1	592.0	582.4	569.2	562.7	556.6	551.0
37.5°	685.9	647.5	616.2	593.5	574.3	560.6	548.0	541.4	532.9	527.8	523.3
40°	645.5	611.2	583.4	559.1	546.0	530.3	518.7	509.6	503.6	496.5	491.4
42.5°	609.1	577.8	551.0	529.8	512.7	500.0	488.9	479.8	471.7	467.2	463.2
45°	575.3	543.5	517.2	497.0	481.8	469.2	457.6	453.1	443.0	436.9	434.9
47.5°	539.9	511.1	485.4	466.7	451.0	439.4	428.3	418.2	413.2	407.1	404.1
50°	504.1	476.8	453.1	434.9	419.7	406.6	396.5	390.4	382.9	377.3	373.3
52.5°	468.2	443.5	419.7	402.6	389.9	376.8	365.2	359.1	352.0	349.0	346.5
55°	434.4	407.6	387.4	370.2	356.6	344.5	333.9	327.8	323.3	319.7	318.7
57.5°	395.5	373.8	354.6	339.4	324.8	313.2	303.6	298.0	294.0	293.5	289.9
60°	357.6	338.4	321.2	304.6	292.4	281.8	273.8	267.2	263.1	262.6	261.6
62.5°	319.7	301.5	285.9	271.7	261.1	251.0	243.5	235.9	233.9	230.8	228.3
65°	282.3	265.7	252.5	240.9	229.3	220.7	213.1	208.6	203.0	200.0	194.5
67.5°	245.5	231.8	219.2	209.6	200.0	191.4	184.9	178.3	174.3	171.7	167.2
70°	209.1	199.0	186.4	175.8	168.7	162.1	157.1	149.5	147.0	145.0	142.9
72.5°	174.8	166.2	156.1	148.0	140.9	134.9	128.8	126.3	123.7	121.7	120.7
75°	142.9	134.4	125.3	119.2	114.1	109.1	106.1	103.5	102.5	102.0	100.0
77.5°	111.1	106.1	98.5	92.9	89.4	87.4	84.3	83.3	83.8	81.3	80.8
80°	80.3	77.8	71.7	69.7	67.2	65.2	63.6	61.1	58.6	57.6	56.1
82.5°	54.5	52.0	50.5	47.0	45.0	43.9	42.4	41.9	42.9	41.4	40.9
85°	31.8	29.3	28.3	27.8	26.8	27.8	27.3	26.8	26.3	25.8	26.3
87.5°	12.6	12.6	12.1	13.1	11.6	12.1	12.1	11.6	11.6	11.6	11.1
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: P242906

CATALOG NUMBER: S125RDRP-S1090D927-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1230.4	1230.4	1230.4	1230.4
2.5°	1165.7	1160.2	1158.7	1160.7
5°	1087.4	1082.4	1084.9	1083.9
7.5°	1021.3	1014.7	1007.1	1009.2
10°	951.1	946.0	943.0	945.5
12.5°	892.0	889.5	886.9	884.9
15°	839.4	833.4	830.9	824.3
17.5°	788.9	786.9	780.4	775.8
20°	745.0	743.0	736.4	740.5
22.5°	708.6	703.6	702.6	700.0
25°	674.8	668.2	665.7	662.7
27.5°	640.4	636.9	633.4	632.4
30°	607.1	603.6	601.0	601.0
32.5°	577.3	574.8	572.3	571.8
35°	548.5	544.5	543.5	540.4
37.5°	518.2	514.7	514.7	515.2
40°	489.4	486.9	486.4	482.9
42.5°	458.6	457.6	455.6	454.6
45°	431.3	427.8	427.8	425.3
47.5°	402.6	399.5	400.0	397.0
50°	373.8	372.2	371.7	370.7
52.5°	345.0	344.5	347.0	344.5
55°	319.7	318.2	321.2	318.2
57.5°	289.9	288.9	291.9	289.9
60°	260.6	257.6	259.1	259.6
62.5°	225.8	224.3	225.3	222.2
65°	193.4	191.9	189.9	188.9
67.5°	168.2	163.6	163.6	164.7
70°	139.9	139.9	139.4	139.4
72.5°	120.2	119.7	118.7	118.2
75°	100.0	100.5	99.5	99.0
77.5°	78.3	75.8	76.8	75.8
80°	56.1	55.6	57.1	55.6
82.5°	41.4	40.9	41.4	40.4
85°	26.8	26.3	25.8	26.3
87.5°	11.6	11.1	11.1	11.1
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242906
 CATALOG NUMBER: S125RDRP-S1090D927-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	17.16	18.69	17.52	19.01	19.32	18.14	19.67	18.50	19.99	20.30
	3H	18.29	19.66	18.66	19.99	20.35	19.62	20.99	19.99	21.32	21.68
	4H	18.67	19.96	19.07	20.31	20.69	20.13	21.42	20.53	21.77	22.15
	6H	18.90	20.09	19.31	20.46	20.85	20.48	21.67	20.89	22.04	22.43
	8H	18.96	20.09	19.38	20.48	20.88	20.57	21.71	21.00	22.10	22.50
	12H	18.99	20.08	19.42	20.46	20.89	20.63	21.72	21.06	22.10	22.53
4H	2H	18.75	20.04	19.15	20.39	20.76	18.99	20.28	19.38	20.62	21.00
	3H	19.81	20.88	20.23	21.28	21.69	20.65	21.72	21.06	22.12	22.52
	4H	20.20	21.16	20.63	21.58	22.01	21.23	22.20	21.67	22.61	23.05
	6H	20.45	21.29	20.91	21.73	22.19	21.66	22.50	22.12	22.94	23.40
	8H	20.52	21.30	20.98	21.74	22.21	21.78	22.56	22.25	23.01	23.48
	12H	20.56	21.26	21.04	21.74	22.21	21.86	22.56	22.35	23.04	23.51
8H	4H	20.57	21.35	21.03	21.80	22.26	21.38	22.16	21.84	22.61	23.07
	6H	20.88	21.52	21.37	22.01	22.49	21.90	22.54	22.39	23.03	23.51
	8H	20.97	21.55	21.48	22.06	22.55	22.07	22.65	22.59	23.16	23.65
	12H	21.05	21.56	21.56	22.05	22.62	22.21	22.72	22.72	23.21	23.78
12H	4H	20.60	21.30	21.08	21.77	22.24	21.37	22.07	21.85	22.55	23.02
	6H	20.91	21.49	21.42	22.00	22.49	21.89	22.47	22.40	22.98	23.47
	8H	21.04	21.55	21.55	22.05	22.61	22.10	22.62	22.61	23.11	23.67