

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: P243786

Luminaire Tested: S125RDRP-H1090D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243786  
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-H1090D930-X4F0-XX-UDD-A-W  
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

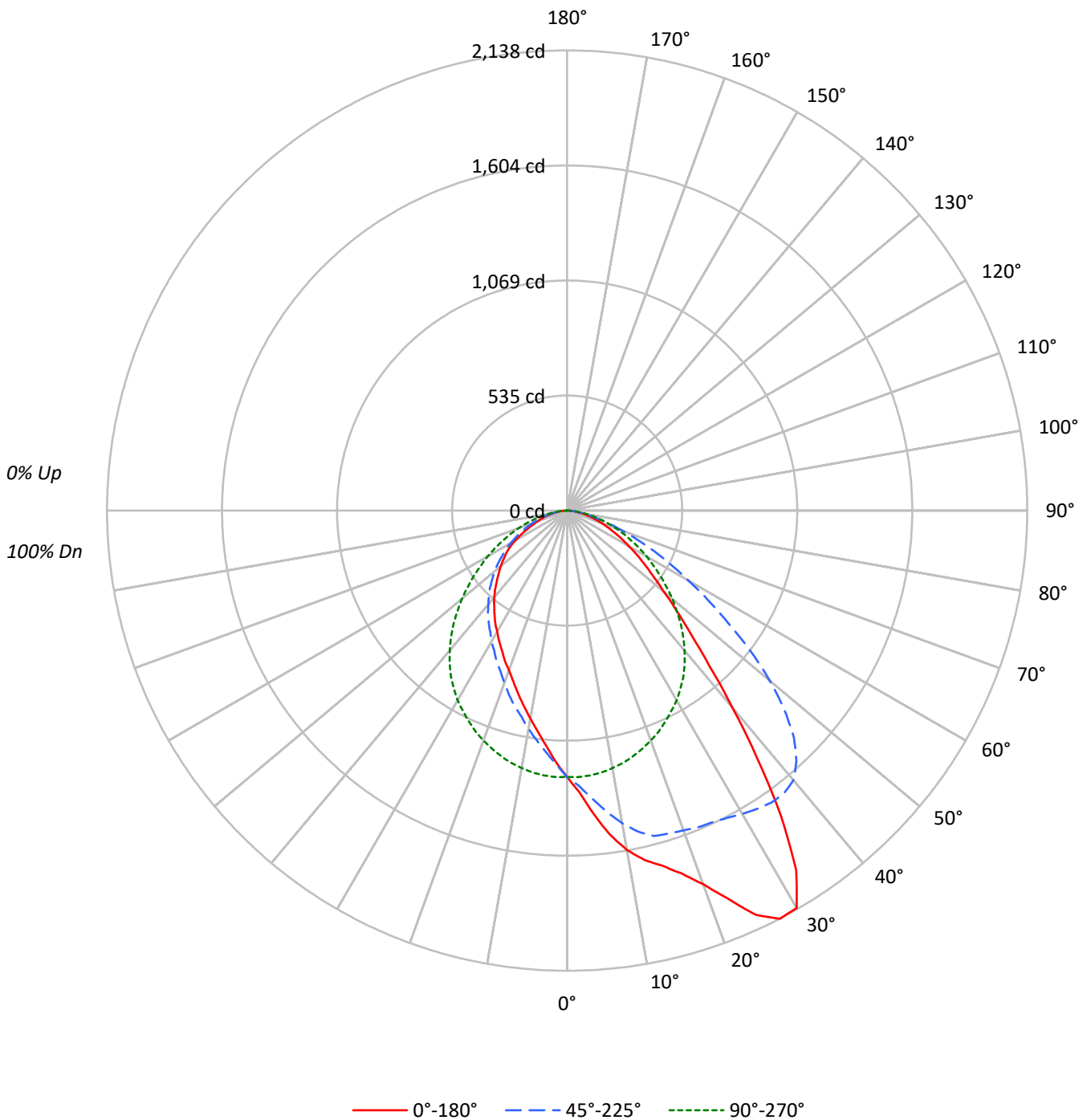
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3294.5 lumens  
Efficiency: N/A  
Efficacy: 104.6 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

TEST NUMBER: P243786

CATALOG NUMBER: S125RDRP-H1090D930-X4F0-XX-UDD-A-W

### 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	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	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°	8798	8798	8798	8798	8798
5°	10100	9595	8810	8033	7837
10°	11555	10645	8767	7436	7085
15°	12568	11518	8696	6923	6480
20°	13966	11958	8598	6445	5970
25°	16251	12525	8476	6074	5620
30°	17499	13353	8350	5760	5334
35°	15033	14365	8164	5510	5102
40°	11075	15178	7870	5288	4891
45°	8180	14973	7504	5091	4638
50°	6481	13589	7056	4879	4450
55°	5473	11343	6538	4580	4281
60°	4716	9265	6055	4299	3963
65°	4095	7479	5514	3945	3451
70°	3591	5681	5050	3570	3019
75°	3045	4138	4421	3155	2859
80°	2370	2992	3696	2771	2370
85°	2079	2202	2960	2365	2161

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 14973 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.1	3.6
10°-20°	352.5	10.7
20°-30°	562.3	17.1
30°-40°	682.7	20.7
40°-50°	615.2	18.7
50°-60°	473.0	14.4
60°-70°	307.0	9.3
70°-80°	147.7	4.5
80°-90°	35.0	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°	1033.9	31.4
0°-40°	1716.6	52.1
0°-60°	2804.8	85.1
0°-90°	3294.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3294.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1238	1238	1238	1238	1238	
5°	1416	1345	1235	1126	1098	141
15°	1708	1565	1182	941	881	490
25°	2072	1597	1081	774	717	948
35°	1733	1656	941	635	588	1060
45°	814	1490	747	506	461	646
55°	442	915	528	370	346	400
65°	244	445	328	235	205	244
75°	111	151	161	115	104	119
85°	26	27	36	29	26	29
90°	0	0	0	0	0	



TEST NUMBER: P243786

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9
2.5°	1309.5	1314.4	1310.5	1313.0	1309.1	1307.1	1302.2	1294.8	1287.5	1280.6	1280.1
5°	1415.6	1414.6	1410.7	1405.3	1401.3	1391.5	1386.6	1369.9	1358.6	1344.9	1338.0
7.5°	1516.7	1514.2	1508.3	1501.0	1497.5	1484.8	1471.0	1449.9	1432.2	1410.7	1394.5
10°	1601.1	1600.6	1596.2	1591.3	1578.0	1563.8	1550.5	1528.5	1501.9	1475.0	1452.4
12.5°	1662.9	1660.5	1655.1	1646.7	1635.9	1626.1	1608.5	1588.3	1555.9	1528.5	1497.5
15°	1708.1	1707.1	1699.3	1696.3	1675.2	1661.5	1637.9	1617.8	1592.8	1565.3	1531.9
17.5°	1768.0	1769.9	1763.1	1746.4	1727.2	1706.1	1672.8	1639.9	1605.0	1573.1	1546.1
20°	1846.5	1841.6	1829.8	1809.7	1775.3	1749.3	1716.0	1675.2	1628.1	1581.0	1542.2
22.5°	1951.5	1946.2	1927.5	1903.0	1859.8	1812.2	1761.1	1700.2	1646.3	1592.3	1541.2
25°	2072.3	2062.0	2034.5	2008.0	1946.6	1896.1	1820.0	1747.4	1668.8	1597.2	1539.7
27.5°	2138.1	2138.1	2125.3	2096.3	2047.8	1973.1	1895.6	1798.9	1708.1	1609.9	1528.5
30°	2132.2	2128.7	2133.6	2121.4	2090.0	2034.0	1956.9	1855.3	1739.5	1627.1	1529.4
32.5°	1980.0	1981.5	2010.9	2031.1	2046.8	2033.0	1983.0	1891.2	1775.8	1643.8	1525.5
35°	1732.6	1736.6	1788.6	1823.0	1893.1	1933.4	1945.2	1895.6	1792.0	1655.6	1518.6
37.5°	1449.9	1449.9	1510.3	1562.3	1640.9	1740.0	1814.1	1832.8	1782.2	1655.1	1512.7
40°	1193.7	1192.2	1239.8	1303.7	1387.6	1497.0	1607.5	1702.2	1714.5	1635.9	1492.1
42.5°	976.8	974.3	1026.3	1061.7	1150.0	1247.7	1394.5	1528.5	1605.0	1576.6	1461.7
45°	813.8	811.8	845.7	886.0	948.3	1049.9	1173.1	1321.8	1450.4	1489.7	1404.8
47.5°	691.1	692.1	710.2	744.1	797.1	869.8	980.2	1118.1	1277.1	1368.0	1333.1
50°	586.1	589.5	603.2	628.8	667.5	725.9	820.7	945.3	1108.8	1229.0	1236.4
52.5°	507.5	512.4	527.2	540.9	573.3	614.5	688.1	796.1	931.1	1075.4	1127.0
55°	441.7	444.2	452.5	467.3	491.3	525.7	579.2	661.6	786.8	915.4	1006.2
57.5°	386.8	386.8	392.2	402.5	421.6	452.5	488.4	556.6	662.1	778.5	875.2
60°	331.8	333.8	337.7	349.0	361.7	385.3	420.2	463.3	554.6	651.8	755.9
62.5°	285.7	289.1	293.0	298.4	310.2	326.9	351.4	391.2	452.5	542.4	635.1
65°	243.5	246.9	247.4	253.8	261.6	275.4	294.0	323.0	374.0	444.7	521.3
67.5°	206.1	207.6	209.1	214.0	221.4	230.2	242.5	264.1	304.3	351.9	426.5
70°	172.8	173.8	174.2	179.6	183.1	190.9	197.3	211.1	236.6	273.4	331.3
72.5°	141.4	139.9	139.4	143.8	145.3	151.7	159.5	169.3	183.1	209.1	252.3
75°	110.9	111.4	111.9	114.4	114.9	117.8	122.7	129.1	135.5	150.7	178.2
77.5°	85.4	83.4	83.4	86.4	87.4	87.9	91.3	94.7	98.2	107.0	117.8
80°	57.9	58.9	58.9	58.9	59.4	60.4	62.3	65.3	67.7	73.1	75.1
82.5°	41.2	41.2	40.7	41.7	42.2	42.7	42.7	42.7	44.2	45.6	47.6
85°	25.5	26.0	24.5	25.5	26.0	26.0	26.0	26.0	27.5	27.0	27.5
87.5°	10.8	11.3	11.3	11.8	11.8	12.3	11.8	12.3	11.8	11.8	12.3
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: P243786

CATALOG NUMBER: S125RDRP-H1090D930-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9
2.5°	1278.6	1272.7	1269.8	1263.9	1256.0	1251.1	1246.2	1239.4	1234.0	1225.6	1218.2
5°	1325.7	1314.0	1303.2	1288.4	1274.2	1261.9	1249.2	1234.9	1222.2	1207.9	1192.7
7.5°	1378.3	1359.6	1337.0	1311.0	1288.9	1269.8	1248.2	1227.1	1207.9	1185.4	1164.7
10°	1428.8	1398.9	1368.9	1334.1	1301.7	1273.2	1244.3	1214.8	1189.8	1161.8	1136.3
12.5°	1468.1	1439.6	1394.9	1351.8	1309.5	1272.7	1236.4	1200.6	1167.7	1136.8	1106.3
15°	1502.4	1455.3	1417.5	1370.4	1318.9	1268.8	1223.6	1181.9	1142.2	1105.8	1074.9
17.5°	1512.3	1470.0	1428.8	1373.8	1318.4	1261.4	1209.4	1159.8	1115.7	1075.4	1040.6
20°	1511.3	1468.6	1423.9	1371.4	1312.5	1250.2	1192.2	1136.8	1086.7	1040.6	1003.3
22.5°	1496.5	1455.3	1410.2	1357.2	1297.3	1233.0	1172.1	1110.8	1056.3	1008.2	969.9
25°	1480.8	1428.8	1381.7	1328.2	1271.3	1211.9	1147.1	1080.8	1023.9	973.8	930.6
27.5°	1467.1	1404.8	1346.8	1294.3	1235.9	1182.4	1118.1	1048.9	990.5	938.0	893.3
30°	1445.0	1379.2	1309.1	1251.6	1195.2	1139.2	1080.3	1017.5	953.7	900.2	855.5
32.5°	1425.9	1342.9	1266.8	1202.0	1145.6	1096.5	1040.1	979.7	917.4	866.3	818.2
35°	1404.8	1305.6	1226.1	1150.0	1093.6	1040.1	995.4	940.9	879.1	825.1	781.9
37.5°	1379.7	1267.3	1176.0	1098.5	1040.1	985.1	944.9	896.3	840.3	786.8	744.1
40°	1351.8	1228.1	1123.0	1043.0	980.2	925.2	891.4	848.2	800.5	747.5	707.8
42.5°	1316.4	1186.3	1074.9	987.6	917.9	868.3	834.4	798.6	754.9	708.8	665.6
45°	1271.7	1134.3	1017.5	925.2	856.5	808.4	773.1	746.6	711.7	668.5	627.8
47.5°	1217.3	1079.8	958.6	862.9	796.6	750.5	717.6	691.1	664.6	627.3	588.5
50°	1145.1	1017.5	901.2	803.5	733.3	688.6	659.2	638.1	614.0	583.6	548.3
52.5°	1065.6	947.3	833.4	742.1	674.4	629.7	599.3	581.6	563.5	538.4	508.0
55°	973.3	877.1	768.6	679.3	613.0	568.9	544.8	527.6	512.4	493.3	467.8
57.5°	875.6	791.2	697.0	614.5	552.2	510.5	489.4	475.1	462.4	448.6	427.5
60°	773.1	713.2	623.8	548.3	493.8	459.4	439.3	426.0	414.3	403.0	387.3
62.5°	666.1	616.5	549.7	485.4	436.8	404.4	389.7	378.4	366.2	356.3	345.1
65°	557.6	529.1	483.0	422.6	377.9	351.4	337.2	327.9	322.0	310.7	301.9
67.5°	458.9	443.2	404.0	363.2	328.9	304.8	291.6	284.7	278.3	272.9	263.1
70°	365.2	353.9	331.3	302.4	275.4	254.7	244.9	243.0	234.1	228.7	223.8
72.5°	278.3	275.4	256.7	243.9	228.7	212.5	205.2	201.2	195.4	190.4	188.5
75°	197.8	202.2	196.3	190.0	182.6	169.3	163.0	161.0	155.6	154.1	151.7
77.5°	135.0	141.4	143.3	140.4	136.9	132.5	128.1	126.1	120.7	119.8	118.3
80°	84.9	94.2	97.7	97.2	95.7	96.2	90.8	90.3	87.9	86.4	87.9
82.5°	51.5	56.4	62.8	64.3	62.3	63.3	61.8	59.9	59.9	60.9	58.9
85°	28.0	28.5	31.4	33.4	35.8	37.8	35.8	36.3	35.8	35.8	34.4
87.5°	12.3	12.8	12.8	12.3	13.3	14.2	16.2	17.2	16.7	15.2	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: P243786

CATALOG NUMBER: S125RDRP-H1090D930-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9	1237.9
2.5°	1212.4	1208.9	1203.0	1198.1	1186.8	1179.0	1178.0	1178.5	1177.5	1176.5	1176.0
5°	1182.9	1171.6	1160.8	1151.5	1138.7	1126.0	1120.1	1117.6	1116.6	1111.2	1114.2
7.5°	1151.5	1134.3	1121.6	1103.9	1088.7	1077.9	1067.6	1062.7	1061.7	1054.3	1052.3
10°	1118.1	1097.5	1078.4	1060.7	1045.5	1030.3	1018.0	1013.6	1007.7	1001.8	993.0
12.5°	1085.2	1059.7	1038.6	1019.0	998.4	981.2	971.4	965.0	957.6	952.2	949.3
15°	1046.0	1024.4	998.4	977.2	956.1	940.9	927.7	915.9	909.0	904.6	892.3
17.5°	1010.6	982.2	957.6	937.5	914.4	897.2	883.5	873.7	861.9	853.1	845.2
20°	972.8	943.4	920.8	896.8	873.2	852.1	834.9	827.1	818.7	810.4	805.9
22.5°	932.1	906.6	881.0	856.0	831.0	808.4	797.6	786.3	779.0	770.6	764.7
25°	896.8	868.8	843.3	815.3	787.8	774.5	759.8	748.5	742.6	734.3	727.9
27.5°	859.0	832.0	801.5	772.6	756.4	733.8	724.0	715.1	707.3	698.9	694.5
30°	823.6	792.2	761.8	739.2	718.1	701.9	692.6	681.8	671.0	667.0	661.2
32.5°	786.3	752.4	725.9	703.4	685.7	666.1	657.2	648.4	638.1	633.2	627.8
35°	747.5	714.7	688.6	668.0	649.9	635.1	625.3	616.0	609.6	602.3	598.3
37.5°	706.8	678.3	653.3	632.7	616.0	604.2	591.9	584.6	575.7	568.9	565.9
40°	668.0	642.5	618.4	599.3	584.1	569.9	559.1	549.7	544.3	538.4	533.5
42.5°	633.2	606.7	586.1	565.9	552.2	538.4	527.6	520.8	511.4	509.0	502.1
45°	595.9	571.3	550.7	532.1	517.8	506.5	493.8	485.4	479.5	473.7	471.2
47.5°	558.1	535.5	516.4	499.2	484.5	471.7	461.9	453.0	446.7	441.3	438.3
50°	521.3	501.6	482.5	465.8	450.6	441.3	429.5	419.7	414.8	408.9	405.4
52.5°	482.5	466.3	445.7	431.4	417.2	404.9	393.2	386.8	381.9	377.0	374.5
55°	446.2	429.0	411.3	396.1	382.4	369.6	360.3	355.4	349.0	346.0	345.5
57.5°	408.9	391.2	376.5	362.7	347.0	337.2	328.9	323.0	317.6	315.1	315.1
60°	368.1	353.9	340.1	324.9	313.6	302.4	293.5	289.6	284.2	283.2	279.8
62.5°	330.8	317.6	304.3	290.1	279.8	268.5	262.1	256.7	253.8	249.8	245.9
65°	292.0	280.3	267.5	255.2	246.9	234.6	228.7	222.3	218.9	214.5	209.6
67.5°	254.7	243.5	231.7	220.4	213.5	201.7	197.8	190.0	187.5	182.6	178.2
70°	215.5	207.6	198.3	187.0	181.1	171.8	167.9	160.5	156.6	153.6	151.2
72.5°	181.6	174.2	163.4	156.1	148.7	142.8	136.5	133.0	129.6	127.1	126.6
75°	148.2	138.9	132.5	125.7	120.7	114.9	111.9	109.5	108.0	106.5	105.0
77.5°	113.4	109.5	103.1	96.2	92.3	89.8	87.9	86.9	85.4	84.9	83.4
80°	84.4	79.0	75.1	72.6	69.7	67.7	66.3	62.8	60.9	59.9	58.9
82.5°	56.0	54.5	51.5	49.1	46.6	46.1	44.7	43.7	43.2	43.2	42.7
85°	33.9	29.9	29.9	29.4	29.4	29.0	28.0	28.0	27.0	28.5	28.5
87.5°	13.7	13.7	12.8	12.8	13.3	12.3	11.8	11.8	11.8	11.3	11.8
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: P243786

CATALOG NUMBER: S125RDRP-H1090D930-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1237.9	1237.9	1237.9	1237.9
2.5°	1176.0	1173.6	1174.1	1171.1
5°	1108.8	1107.3	1102.4	1098.5
7.5°	1047.4	1041.1	1040.6	1036.6
10°	990.0	984.1	981.2	981.7
12.5°	939.9	933.6	933.6	929.6
15°	886.4	880.1	881.0	880.6
17.5°	842.3	837.9	834.4	831.5
20°	799.1	793.7	791.7	789.3
22.5°	759.3	755.4	755.9	755.9
25°	721.5	722.0	717.6	716.6
27.5°	688.1	687.2	686.2	684.2
30°	656.7	652.8	651.8	649.9
32.5°	624.3	623.8	619.9	621.4
35°	591.5	590.0	589.0	588.0
37.5°	561.0	558.1	557.6	556.6
40°	530.1	529.1	524.7	527.2
42.5°	496.7	494.8	494.8	494.8
45°	468.7	463.3	463.3	461.4
47.5°	437.3	435.4	434.4	431.0
50°	406.4	403.5	402.5	402.5
52.5°	374.5	374.0	375.0	373.0
55°	346.5	347.0	346.5	345.5
57.5°	316.1	313.6	313.6	314.1
60°	279.8	279.8	280.8	278.8
62.5°	244.9	243.9	240.5	239.5
65°	209.1	205.2	204.7	205.2
67.5°	177.2	175.7	173.3	173.8
70°	149.7	149.2	146.8	145.3
72.5°	125.2	125.2	123.7	123.7
75°	104.5	103.6	103.1	104.1
77.5°	80.5	78.0	79.0	77.6
80°	58.4	59.4	58.4	57.9
82.5°	43.2	42.2	42.7	42.2
85°	27.5	26.5	27.0	26.5
87.5°	11.3	11.8	11.8	10.8
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243786

CATALOG NUMBER: S125RDRP-H1090D930-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	17.48	19.02	17.84	19.33	19.64	18.17	19.71	18.54	20.03	20.34
	3H	18.56	19.94	18.94	20.27	20.63	19.65	21.03	20.03	21.36	21.72
	4H	18.92	20.21	19.32	20.56	20.94	20.18	21.47	20.58	21.82	22.20
	6H	19.13	20.33	19.55	20.70	21.09	20.53	21.73	20.94	22.10	22.49
	8H	19.19	20.33	19.62	20.72	21.12	20.63	21.77	21.06	22.16	22.56
	12H	19.23	20.32	19.66	20.70	21.13	20.69	21.78	21.12	22.16	22.59
4H	2H	19.00	20.29	19.40	20.64	21.02	19.05	20.34	19.45	20.69	21.07
	3H	20.04	21.12	20.45	21.52	21.92	20.71	21.78	21.12	22.18	22.58
	4H	20.40	21.37	20.84	21.79	22.22	21.31	22.27	21.74	22.69	23.13
	6H	20.65	21.49	21.11	21.93	22.39	21.74	22.58	22.20	23.02	23.48
	8H	20.71	21.50	21.17	21.94	22.41	21.86	22.65	22.33	23.09	23.56
	12H	20.76	21.46	21.24	21.94	22.41	21.95	22.65	22.43	23.13	23.60
8H	4H	20.77	21.55	21.23	21.99	22.46	21.46	22.24	21.92	22.69	23.16
	6H	21.06	21.71	21.55	22.20	22.67	21.98	22.63	22.48	23.12	23.60
	8H	21.15	21.73	21.67	22.24	22.73	22.16	22.74	22.67	23.25	23.74
	12H	21.24	21.75	21.75	22.24	22.81	22.30	22.81	22.81	23.30	23.87
12H	4H	20.79	21.49	21.27	21.97	22.44	21.45	22.15	21.93	22.63	23.10
	6H	21.09	21.67	21.60	22.18	22.67	21.97	22.56	22.49	23.07	23.55
	8H	21.22	21.74	21.73	22.23	22.79	22.19	22.71	22.70	23.20	23.76