

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: P242926

Luminaire Tested: S125RDRP-S1090D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242926  
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-S1090D930-X4F0-XX-UDD-A-W  
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

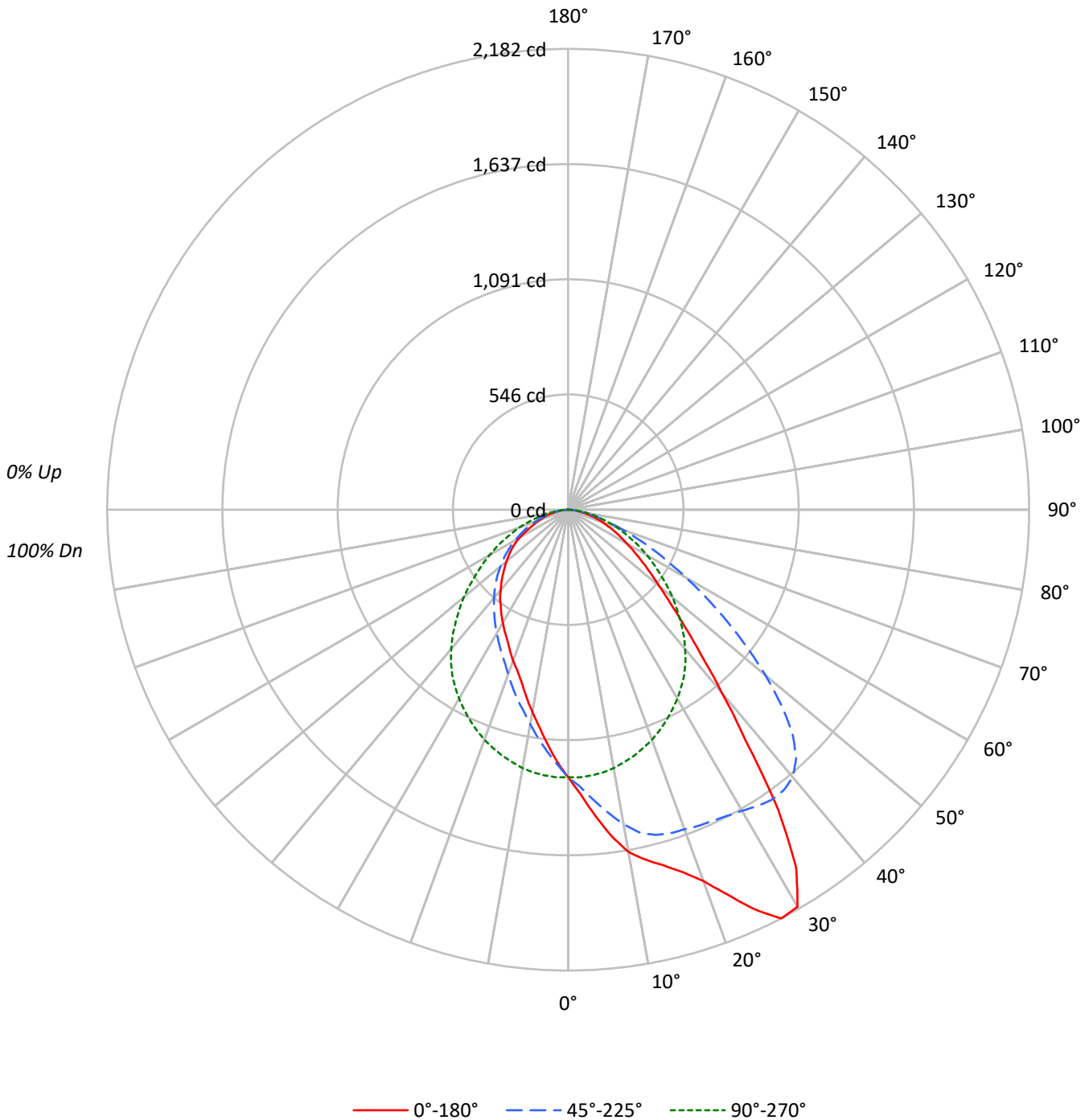
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3280.9 lumens  
Efficiency: N/A  
Efficacy: 94.3 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 (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

TEST NUMBER: P242926

CATALOG NUMBER: S125RDRP-S1090D930-X4F0-XX-UDD-A-W

### Luminous Intensity Polar Plot



TEST NUMBER: P242926

CATALOG NUMBER: S125RDRP-S1090D930-X4F0-XX-UDD-A-W

**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°	9000	9000	9000	9000	9000
5°	10354	9843	9012	8189	7959
10°	11878	10917	8966	7443	7023
15°	12829	11731	8874	6835	6243
20°	14146	12180	8768	6275	5764
25°	16371	12739	8626	5866	5348
30°	17815	13507	8477	5541	5077
35°	15028	14559	8303	5286	4826
40°	10494	15347	7991	5064	4611
45°	7785	15100	7571	4854	4399
50°	6207	13455	7133	4627	4218
55°	5269	11298	6590	4393	4058
60°	4552	9156	6104	4124	3798
65°	4056	7309	5577	3821	3269
70°	3564	5607	5110	3468	2982
75°	3084	4182	4424	3084	2798
80°	2341	3000	3725	2746	2341
85°	1949	2120	2928	2332	2202

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 15100 cd/sqm



TEST NUMBER: P242926

CATALOG NUMBER: S125RDRP-S1090D930-X4F0-XX-UDD-A-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.4	3.7
10°-20°	356.0	10.9
20°-30°	564.5	17.2
30°-40°	682.1	20.8
40°-50°	607.4	18.5
50°-60°	465.7	14.2
60°-70°	302.5	9.2
70°-80°	146.8	4.5
80°-90°	34.5	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°	1041.9	31.8
0°-40°	1724.0	52.5
0°-60°	2797.2	85.3
0°-90°	3280.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3280.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1266	1266	1266	1266	1266	
5°	1451	1380	1263	1148	1116	145
15°	1744	1594	1206	929	848	499
25°	2088	1624	1100	748	682	961
35°	1732	1678	957	609	556	1050
45°	774	1502	753	483	438	614
55°	425	912	532	354	328	385
65°	241	435	332	227	194	240
75°	112	152	161	112	102	119
85°	24	26	36	29	27	28
90°	0	0	0	0	0	



TEST NUMBER: P242926

CATALOG NUMBER: S125RDRP-S1090D930-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3
2.5°	1348.4	1347.4	1349.5	1343.7	1344.3	1335.4	1335.4	1328.7	1319.8	1313.1	1310.0
5°	1451.3	1452.4	1450.3	1442.5	1437.3	1429.5	1420.7	1405.1	1392.1	1379.6	1369.7
7.5°	1556.3	1557.4	1550.6	1549.1	1535.6	1527.2	1507.5	1487.2	1469.5	1446.1	1429.5
10°	1645.8	1645.2	1638.0	1632.2	1620.8	1606.3	1587.0	1562.1	1538.7	1512.7	1487.7
12.5°	1697.7	1696.2	1695.1	1687.9	1677.5	1665.0	1649.4	1625.0	1594.8	1565.7	1535.6
15°	1743.5	1739.8	1733.1	1724.3	1709.2	1694.1	1675.9	1654.1	1626.5	1594.3	1567.3
17.5°	1798.6	1799.1	1788.7	1779.4	1759.6	1734.6	1707.6	1674.3	1639.0	1606.3	1579.2
20°	1870.3	1868.8	1858.4	1834.5	1811.1	1777.8	1745.6	1702.4	1656.7	1610.4	1574.5
22.5°	1973.2	1968.6	1957.7	1924.4	1884.9	1839.7	1786.1	1731.0	1673.3	1619.2	1569.3
25°	2087.6	2084.5	2063.2	2026.8	1975.8	1909.8	1845.4	1773.1	1693.6	1624.4	1567.3
27.5°	2182.2	2176.0	2156.7	2122.4	2072.5	2001.3	1912.4	1818.9	1724.3	1633.3	1554.8
30°	2170.8	2178.6	2176.5	2162.5	2127.1	2064.7	1984.2	1875.5	1757.5	1645.8	1547.5
32.5°	2007.6	2014.3	2037.7	2075.7	2087.1	2071.5	2016.4	1918.1	1794.9	1664.0	1541.8
35°	1732.0	1741.4	1776.8	1832.4	1905.1	1966.0	1978.4	1924.4	1814.7	1678.0	1536.1
37.5°	1381.7	1442.5	1466.4	1523.1	1637.4	1748.2	1844.3	1866.2	1806.9	1674.9	1529.3
40°	1131.1	1143.6	1196.6	1262.6	1355.2	1471.6	1625.0	1735.7	1739.3	1654.1	1507.5
42.5°	927.4	944.0	976.2	1025.6	1101.5	1217.9	1377.5	1532.4	1616.1	1596.9	1478.9
45°	774.5	786.5	813.0	853.5	914.4	1010.5	1146.7	1315.7	1449.8	1502.3	1423.3
47.5°	655.0	661.2	685.6	718.4	765.2	838.0	948.7	1101.5	1261.1	1367.7	1346.9
50°	561.4	568.7	586.4	609.8	647.7	707.0	791.2	913.3	1079.2	1216.9	1244.5
52.5°	488.6	494.4	503.7	525.5	555.2	597.3	661.2	768.8	913.8	1062.5	1135.3
55°	425.2	429.4	438.2	450.7	475.6	508.4	567.1	643.5	764.1	911.8	1005.3
57.5°	371.2	373.2	378.4	390.9	409.1	433.5	478.2	547.9	635.2	774.0	876.9
60°	320.2	322.3	329.6	337.4	350.9	372.7	406.0	451.2	534.4	644.1	748.5
62.5°	279.7	280.7	282.8	290.6	302.0	317.6	342.0	376.9	438.7	531.8	629.0
65°	241.2	241.7	242.8	249.0	256.3	268.7	285.9	311.9	361.8	434.6	521.9
67.5°	202.7	203.8	207.4	209.5	218.3	224.6	235.5	256.3	294.7	346.7	417.4
70°	171.5	171.0	174.7	177.3	179.9	187.7	194.4	210.5	232.4	269.8	326.4
72.5°	142.4	140.9	141.9	142.4	146.1	150.7	157.5	165.8	181.4	204.3	244.3
75°	112.3	112.8	112.8	113.8	116.4	118.5	120.6	125.8	135.2	152.3	175.7
77.5°	84.2	83.2	85.8	85.8	87.9	90.4	92.0	94.1	97.7	105.5	119.6
80°	57.2	57.2	57.7	59.3	58.7	59.8	62.4	64.5	69.1	73.3	77.5
82.5°	40.5	40.0	40.5	40.5	40.5	41.6	42.1	42.1	43.1	44.7	47.3
85°	23.9	23.9	24.4	24.4	25.0	25.0	25.5	25.5	25.5	26.0	26.5
87.5°	11.4	10.9	10.4	10.4	10.9	12.0	11.4	10.9	10.9	10.9	11.4
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: P242926

CATALOG NUMBER: S125RDRP-S1090D930-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3
2.5°	1310.0	1306.3	1299.6	1293.3	1285.5	1278.8	1274.1	1268.4	1261.1	1252.3	1245.0
5°	1358.8	1347.4	1332.3	1319.3	1302.7	1289.7	1276.2	1263.2	1250.2	1233.5	1219.0
7.5°	1412.9	1390.5	1369.7	1342.7	1318.3	1297.0	1276.2	1254.9	1234.6	1211.7	1190.4
10°	1461.7	1433.2	1401.4	1365.1	1331.8	1300.1	1271.0	1242.4	1212.2	1185.7	1157.1
12.5°	1507.5	1468.5	1431.1	1382.7	1341.1	1300.6	1261.6	1224.2	1191.4	1155.0	1123.9
15°	1531.4	1495.0	1454.5	1398.3	1342.7	1295.9	1252.3	1206.0	1166.0	1127.5	1093.2
17.5°	1545.4	1507.0	1460.2	1405.6	1345.8	1287.6	1232.5	1183.1	1137.4	1093.2	1055.2
20°	1539.2	1502.3	1453.9	1402.5	1337.5	1276.2	1215.3	1159.2	1106.7	1059.4	1018.3
22.5°	1524.1	1485.7	1439.4	1384.3	1323.5	1257.5	1191.4	1130.6	1075.0	1025.6	979.9
25°	1509.0	1457.1	1409.2	1356.2	1297.5	1233.0	1166.0	1099.9	1041.2	991.3	942.4
27.5°	1494.5	1431.6	1372.3	1321.4	1258.5	1200.3	1134.8	1066.7	1005.3	954.9	905.0
30°	1473.2	1400.4	1333.3	1273.6	1214.8	1160.2	1098.9	1032.9	969.5	917.0	866.0
32.5°	1446.7	1368.2	1292.8	1221.6	1165.4	1111.4	1057.3	994.9	933.6	879.0	827.0
35°	1425.4	1326.6	1246.5	1173.2	1110.3	1057.8	1007.9	957.0	895.1	839.0	788.6
37.5°	1395.7	1287.1	1196.6	1116.6	1051.1	999.1	959.1	910.7	853.0	798.4	751.7
40°	1369.2	1243.4	1142.1	1063.0	993.4	937.8	900.9	861.3	809.9	759.5	712.7
42.5°	1333.9	1203.4	1086.9	1003.8	933.6	880.6	843.2	809.9	768.8	722.0	671.1
45°	1285.5	1149.3	1030.3	941.9	871.2	818.7	783.9	753.2	720.5	676.8	633.1
47.5°	1227.8	1097.9	972.6	875.4	807.3	757.9	723.6	698.1	674.2	636.3	592.1
50°	1155.6	1031.3	909.7	816.1	742.3	696.0	664.3	645.1	623.8	590.0	554.7
52.5°	1070.3	962.7	844.2	748.0	679.4	636.8	606.6	587.4	570.8	544.8	511.5
55°	979.9	882.7	773.5	686.7	622.7	579.1	550.0	531.8	521.4	498.0	471.5
57.5°	877.5	802.6	703.8	619.1	561.4	517.7	495.9	479.8	467.8	450.7	430.9
60°	769.3	720.5	634.2	554.7	502.7	461.6	442.4	429.4	418.5	404.4	389.9
62.5°	659.7	627.4	555.2	489.7	442.9	410.1	392.5	381.0	368.0	359.7	345.7
65°	564.0	532.3	480.3	426.8	382.6	355.0	342.0	331.6	323.8	313.5	303.6
67.5°	458.0	443.4	404.9	364.9	332.7	306.2	294.7	286.4	277.6	271.3	264.1
70°	361.8	355.6	330.1	305.7	276.0	259.4	249.0	245.9	234.4	228.2	223.5
72.5°	276.5	274.5	262.5	247.4	228.7	214.7	205.3	201.7	195.5	190.8	188.2
75°	201.2	202.2	199.6	188.7	180.9	171.5	163.2	161.1	155.9	151.8	149.2
77.5°	137.2	142.4	141.4	140.9	137.2	130.5	126.8	125.3	119.6	118.0	117.5
80°	87.3	93.0	98.2	97.7	96.7	95.1	92.5	91.0	88.4	86.8	85.8
82.5°	50.9	56.1	60.3	63.9	63.9	62.4	60.8	60.3	60.3	59.3	59.3
85°	27.6	28.6	30.1	33.8	36.4	36.9	36.4	35.9	34.3	34.8	35.3
87.5°	12.0	12.0	12.5	12.5	12.0	14.6	16.1	16.6	15.6	14.6	13.5
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: P242926

CATALOG NUMBER: S125RDRP-S1090D930-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3	1266.3
2.5°	1239.8	1232.5	1227.3	1216.9	1209.6	1206.5	1200.8	1199.2	1204.9	1200.8	1200.3
5°	1208.1	1193.0	1181.0	1169.1	1156.1	1147.8	1135.3	1133.2	1130.1	1125.4	1124.4
7.5°	1171.2	1152.4	1138.4	1118.7	1102.5	1089.5	1074.0	1067.7	1064.6	1058.9	1049.5
10°	1133.7	1110.3	1089.5	1069.8	1048.5	1031.3	1015.7	1003.8	996.0	988.7	985.6
12.5°	1096.8	1072.9	1044.8	1019.9	995.5	975.7	958.0	951.3	942.4	933.6	925.3
15°	1058.4	1026.6	997.5	970.0	949.7	928.9	912.3	900.9	887.9	884.2	870.2
17.5°	1017.3	987.7	953.4	923.7	900.9	879.0	860.8	847.3	837.4	823.4	816.6
20°	979.3	942.4	909.2	882.7	856.7	829.6	810.9	800.0	790.7	779.7	774.5
22.5°	938.8	902.9	868.6	836.4	809.9	783.4	771.4	760.0	749.1	739.2	731.9
25°	899.3	862.9	827.0	794.8	767.3	748.0	732.4	719.4	713.7	703.8	696.6
27.5°	859.8	821.3	784.9	751.1	729.8	710.6	698.1	687.7	676.8	668.0	661.2
30°	821.8	782.3	741.8	716.3	693.4	675.2	661.2	651.3	643.5	635.7	631.1
32.5°	783.9	742.8	708.0	679.9	658.6	643.5	629.0	619.6	611.3	602.5	596.8
35°	742.8	701.2	672.1	645.1	623.8	609.2	599.4	585.8	579.1	572.8	567.1
37.5°	705.9	666.4	634.2	610.8	591.0	577.0	564.0	557.2	548.4	543.2	538.5
40°	664.3	629.0	600.4	575.4	561.9	545.8	533.9	524.5	518.3	511.0	505.8
42.5°	626.9	594.7	567.1	545.3	527.6	514.6	503.2	493.8	485.5	480.8	476.7
45°	592.1	559.3	532.3	511.5	495.9	482.9	471.0	466.3	455.9	449.6	447.6
47.5°	555.7	526.1	499.5	480.3	464.2	452.2	440.8	430.4	425.2	419.0	415.9
50°	518.8	490.7	466.3	447.6	432.0	418.5	408.1	401.8	394.0	388.3	384.1
52.5°	481.9	456.4	432.0	414.3	401.3	387.8	375.8	369.6	362.3	359.2	356.6
55°	447.0	419.5	398.7	381.0	367.0	354.5	343.6	337.4	332.7	329.0	328.0
57.5°	407.0	384.7	364.9	349.3	334.2	322.3	312.4	306.7	302.5	302.0	298.4
60°	368.0	348.3	330.6	313.5	301.0	290.1	281.7	275.0	270.8	270.3	269.3
62.5°	329.0	310.3	294.2	279.7	268.7	258.4	250.6	242.8	240.7	237.6	235.0
65°	290.6	273.4	259.9	248.0	236.0	227.2	219.4	214.7	209.0	205.8	200.1
67.5°	252.6	238.6	225.6	215.7	205.8	197.0	190.3	183.5	179.3	176.7	172.1
70°	215.2	204.8	191.8	180.9	173.6	166.9	161.7	153.9	151.3	149.2	147.1
72.5°	179.9	171.0	160.6	152.3	145.0	138.8	132.6	130.0	127.4	125.3	124.2
75°	147.1	138.3	128.9	122.7	117.5	112.3	109.2	106.6	105.5	105.0	102.9
77.5°	114.4	109.2	101.4	95.6	92.0	89.9	86.8	85.8	86.3	83.7	83.2
80°	82.7	80.1	73.8	71.7	69.1	67.1	65.5	62.9	60.3	59.3	57.7
82.5°	56.1	53.5	52.0	48.3	46.3	45.2	43.7	43.1	44.2	42.6	42.1
85°	32.7	30.1	29.1	28.6	27.6	28.6	28.1	27.6	27.0	26.5	27.0
87.5°	13.0	13.0	12.5	13.5	12.0	12.5	12.5	12.0	12.0	12.0	11.4
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: P242926

CATALOG NUMBER: S125RDRP-S1090D930-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1266.3	1266.3	1266.3	1266.3
2.5°	1199.8	1194.0	1192.5	1194.6
5°	1119.2	1114.0	1116.6	1115.5
7.5°	1051.1	1044.3	1036.5	1038.6
10°	978.8	973.6	970.5	973.1
12.5°	918.0	915.4	912.8	910.7
15°	863.9	857.7	855.1	848.4
17.5°	812.0	809.9	803.1	798.4
20°	766.7	764.7	757.9	762.1
22.5°	729.3	724.1	723.1	720.5
25°	694.5	687.7	685.1	682.0
27.5°	659.1	655.5	651.9	650.8
30°	624.8	621.2	618.6	618.6
32.5°	594.2	591.6	589.0	588.4
35°	564.5	560.4	559.3	556.2
37.5°	533.3	529.7	529.7	530.2
40°	503.7	501.1	500.6	497.0
42.5°	472.0	471.0	468.9	467.8
45°	443.9	440.3	440.3	437.7
47.5°	414.3	411.2	411.7	408.6
50°	384.7	383.1	382.6	381.5
52.5°	355.0	354.5	357.1	354.5
55°	329.0	327.5	330.6	327.5
57.5°	298.4	297.3	300.5	298.4
60°	268.2	265.1	266.7	267.2
62.5°	232.4	230.8	231.8	228.7
65°	199.1	197.5	195.5	194.4
67.5°	173.1	168.4	168.4	169.5
70°	144.0	144.0	143.5	143.5
72.5°	123.7	123.2	122.2	121.6
75°	102.9	103.4	102.4	101.9
77.5°	80.6	78.0	79.0	78.0
80°	57.7	57.2	58.7	57.2
82.5°	42.6	42.1	42.6	41.6
85°	27.6	27.0	26.5	27.0
87.5°	12.0	11.4	11.4	11.4
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242926  
 CATALOG NUMBER: S125RDRP-S1090D930-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	17.26	18.79	17.62	19.11	19.42	18.24	19.77	18.60	20.09	20.40
	3H	18.39	19.76	18.76	20.09	20.45	19.71	21.09	20.09	21.42	21.78
	4H	18.77	20.06	19.17	20.41	20.79	20.23	21.52	20.63	21.87	22.25
	6H	19.00	20.19	19.41	20.56	20.95	20.58	21.77	20.99	22.13	22.53
	8H	19.06	20.19	19.48	20.58	20.98	20.67	21.81	21.10	22.20	22.60
	12H	19.09	20.18	19.52	20.56	20.99	20.73	21.82	21.16	22.20	22.63
4H	2H	18.85	20.14	19.25	20.49	20.86	19.09	20.38	19.48	20.72	21.10
	3H	19.92	20.99	20.33	21.38	21.79	20.75	21.82	21.16	22.22	22.62
	4H	20.30	21.26	20.73	21.68	22.11	21.33	22.30	21.77	22.71	23.15
	6H	20.55	21.39	21.01	21.83	22.29	21.76	22.60	22.22	23.04	23.50
	8H	20.62	21.40	21.08	21.84	22.31	21.88	22.66	22.35	23.11	23.58
	12H	20.66	21.36	21.14	21.84	22.31	21.96	22.66	22.45	23.14	23.61
8H	4H	20.67	21.45	21.13	21.90	22.36	21.48	22.26	21.94	22.71	23.17
	6H	20.98	21.62	21.47	22.11	22.59	22.00	22.64	22.49	23.13	23.61
	8H	21.07	21.65	21.58	22.16	22.65	22.17	22.75	22.69	23.26	23.75
	12H	21.15	21.66	21.66	22.15	22.72	22.31	22.82	22.82	23.31	23.88
12H	4H	20.70	21.40	21.18	21.87	22.34	21.47	22.17	21.95	22.65	23.12
	6H	21.01	21.59	21.52	22.10	22.59	21.99	22.57	22.50	23.08	23.57
	8H	21.14	21.65	21.65	22.15	22.71	22.20	22.72	22.71	23.21	23.77