

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: P242920

Luminaire Tested: S125RDRP-S850D840-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242920
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-S850D840-X4F0-XX-UDD-A-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

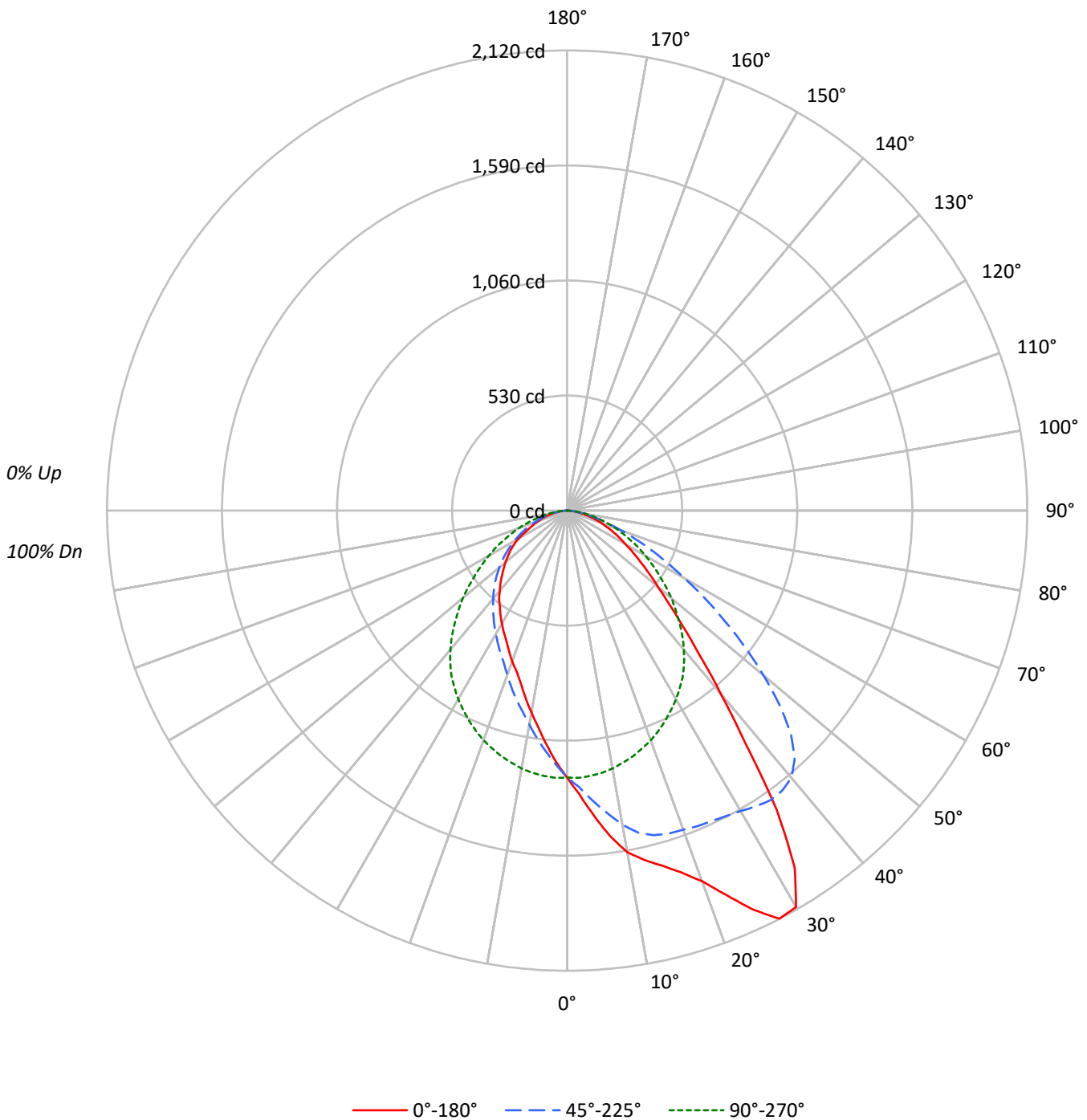
Lumens per Lamp: N/A
Luminaire Lumens: 3186.7 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.21 / 1.48
Luminous Opening: Rectangular (W 3.88' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 26.4
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: P242920

CATALOG NUMBER: S125RDRP-S850D840-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot



TEST NUMBER: P242920

CATALOG NUMBER: S125RDRP-S850D840-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	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				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63				63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55				55
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48				48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37				37
8	63	50	42	36	61	49	42	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	42	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	8741	8741	8741	8741	8741
5°	10057	9560	8753	7954	7730
10°	11536	10604	8709	7229	6821
15°	12460	11394	8619	6639	6063
20°	13740	11831	8516	6095	5598
25°	15901	12373	8378	5698	5195
30°	17304	13119	8233	5383	4931
35°	14596	14141	8065	5134	4687
40°	10194	14906	7762	4918	4478
45°	7562	14667	7354	4715	4273
50°	6029	13069	6928	4494	4098
55°	5118	10974	6400	4266	3942
60°	4421	8893	5928	4004	3689
65°	3940	7099	5417	3710	3175
70°	3462	5444	4962	3369	2897
75°	2996	4061	4298	2996	2719
80°	2272	2914	3618	2665	2272
85°	1892	2055	2838	2267	2145

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 14667 cd/sqm



TEST NUMBER: P242920

CATALOG NUMBER: S125RDRP-S850D840-X4F0-XX-UDD-A-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	3.7
10°-20°	345.8	10.9
20°-30°	548.3	17.2
30°-40°	662.5	20.8
40°-50°	590.0	18.5
50°-60°	452.4	14.2
60°-70°	293.8	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°	1012.0	31.8
0°-40°	1674.5	52.5
0°-60°	2716.9	85.3
0°-90°	3186.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3186.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1230	1230	1230	1230	1230	
5°	1410	1340	1227	1115	1084	140
15°	1693	1548	1171	902	824	485
25°	2028	1578	1068	727	662	933
35°	1682	1630	930	592	540	1020
45°	752	1459	732	469	425	597
55°	413	886	516	344	318	374
65°	234	422	322	221	189	233
75°	109	148	156	109	99	116
85°	23	25	35	28	26	28
90°	0	0	0	0	0	



TEST NUMBER: P242920

CATALOG NUMBER: S125RDRP-S850D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9
2.5°	1309.7	1308.7	1310.7	1305.2	1305.7	1297.1	1297.1	1290.5	1281.9	1275.4	1272.4
5°	1409.7	1410.7	1408.7	1401.1	1396.1	1388.5	1379.9	1364.8	1352.1	1340.0	1330.4
7.5°	1511.7	1512.7	1506.1	1504.6	1491.5	1483.4	1464.2	1444.5	1427.4	1404.6	1388.5
10°	1598.5	1598.0	1590.9	1585.4	1574.3	1560.1	1541.5	1517.2	1494.5	1469.3	1445.0
12.5°	1649.0	1647.5	1646.5	1639.4	1629.3	1617.2	1602.1	1578.3	1549.0	1520.8	1491.5
15°	1693.4	1689.9	1683.3	1674.8	1660.1	1645.5	1627.8	1606.6	1579.8	1548.5	1522.3
17.5°	1747.0	1747.5	1737.4	1728.3	1709.1	1684.9	1658.6	1626.3	1592.0	1560.1	1533.9
20°	1816.6	1815.1	1805.0	1781.8	1759.1	1726.8	1695.5	1653.6	1609.1	1564.2	1529.3
22.5°	1916.6	1912.1	1901.5	1869.1	1830.8	1786.8	1734.8	1681.3	1625.3	1572.8	1524.3
25°	2027.7	2024.7	2004.0	1968.6	1919.1	1855.0	1792.4	1722.2	1645.0	1577.8	1522.3
27.5°	2119.6	2113.5	2094.8	2061.5	2013.0	1943.9	1857.5	1766.7	1674.8	1586.4	1510.2
30°	2108.5	2116.0	2114.0	2100.4	2066.1	2005.5	1927.2	1821.7	1707.1	1598.5	1503.1
32.5°	1949.9	1956.5	1979.2	2016.1	2027.2	2012.0	1958.5	1863.1	1743.4	1616.2	1497.5
35°	1682.3	1691.4	1725.8	1779.8	1850.5	1909.5	1921.7	1869.1	1762.6	1629.8	1492.0
37.5°	1342.0	1401.1	1424.3	1479.4	1590.4	1698.0	1791.4	1812.6	1755.0	1626.8	1485.4
40°	1098.7	1110.8	1162.3	1226.4	1316.3	1429.4	1578.3	1685.9	1689.4	1606.6	1464.2
42.5°	900.7	916.9	948.2	996.2	1069.9	1183.0	1338.0	1488.5	1569.7	1551.1	1436.4
45°	752.3	763.9	789.7	829.0	888.1	981.5	1113.8	1277.9	1408.2	1459.2	1382.4
47.5°	636.2	642.2	666.0	697.8	743.2	813.9	921.4	1069.9	1224.9	1328.4	1308.2
50°	545.3	552.4	569.5	592.3	629.1	686.7	768.5	887.1	1048.2	1182.0	1208.7
52.5°	474.6	480.2	489.3	510.5	539.2	580.1	642.2	746.8	887.6	1032.0	1102.7
55°	413.0	417.0	425.6	437.8	462.0	493.8	550.8	625.1	742.2	885.6	976.5
57.5°	360.5	362.5	367.6	379.7	397.4	421.1	464.5	532.2	617.0	751.8	851.8
60°	311.0	313.0	320.1	327.7	340.8	362.0	394.3	438.3	519.0	625.6	727.1
62.5°	271.6	272.6	274.7	282.2	293.3	308.5	332.2	366.1	426.1	516.5	610.9
65°	234.3	234.8	235.8	241.8	248.9	261.0	277.7	302.9	351.4	422.1	506.9
67.5°	196.9	197.9	201.5	203.5	212.1	218.1	228.7	248.9	286.3	336.8	405.4
70°	166.6	166.1	169.6	172.2	174.7	182.3	188.8	204.5	225.7	262.0	317.1
72.5°	138.3	136.8	137.8	138.3	141.9	146.4	153.0	161.1	176.2	198.4	237.3
75°	109.1	109.6	109.6	110.6	113.1	115.1	117.1	122.2	131.3	147.9	170.7
77.5°	81.8	80.8	83.3	83.3	85.3	87.9	89.4	91.4	94.9	102.5	116.1
80°	55.5	55.5	56.0	57.6	57.1	58.1	60.6	62.6	67.2	71.2	75.2
82.5°	39.4	38.9	39.4	39.4	39.4	40.4	40.9	40.9	41.9	43.4	45.9
85°	23.2	23.2	23.7	23.7	24.2	24.2	24.7	24.7	24.7	25.2	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



TEST NUMBER: P242920

CATALOG NUMBER: S125RDRP-S850D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9
2.5°	1272.4	1268.8	1262.3	1256.2	1248.6	1242.1	1237.5	1232.0	1224.9	1216.3	1209.2
5°	1319.8	1308.7	1294.1	1281.4	1265.3	1252.7	1239.5	1226.9	1214.3	1198.1	1184.0
7.5°	1372.3	1350.6	1330.4	1304.2	1280.4	1259.7	1239.5	1218.8	1199.1	1176.9	1156.2
10°	1419.8	1392.0	1361.2	1325.9	1293.6	1262.8	1234.5	1206.7	1177.4	1151.7	1123.9
12.5°	1464.2	1426.3	1390.0	1343.0	1302.6	1263.3	1225.4	1189.0	1157.2	1121.9	1091.6
15°	1487.4	1452.1	1412.7	1358.2	1304.2	1258.7	1216.3	1171.4	1132.5	1095.1	1061.8
17.5°	1501.1	1463.7	1418.3	1365.3	1307.2	1250.6	1197.1	1149.2	1104.7	1061.8	1025.0
20°	1495.0	1459.2	1412.2	1362.2	1299.1	1239.5	1180.5	1125.9	1074.9	1029.0	989.1
22.5°	1480.4	1443.0	1398.1	1344.6	1285.5	1221.4	1157.2	1098.2	1044.1	996.2	951.7
25°	1465.7	1415.2	1368.8	1317.3	1260.2	1197.6	1132.5	1068.4	1011.3	962.8	915.4
27.5°	1451.6	1390.5	1332.9	1283.5	1222.4	1165.8	1102.2	1036.1	976.5	927.5	879.0
30°	1430.9	1360.2	1295.1	1237.0	1180.0	1126.9	1067.4	1003.2	941.6	890.6	841.2
32.5°	1405.1	1328.9	1255.7	1186.5	1132.0	1079.5	1027.0	966.4	906.8	853.8	803.3
35°	1384.4	1288.5	1210.8	1139.6	1078.5	1027.5	979.0	929.5	869.4	814.9	765.9
37.5°	1355.7	1250.1	1162.3	1084.5	1020.9	970.4	931.5	884.6	828.5	775.5	730.1
40°	1329.9	1207.7	1109.3	1032.5	964.9	910.8	875.0	836.6	786.6	737.7	692.2
42.5°	1295.6	1168.8	1055.8	975.0	906.8	855.3	819.0	786.6	746.8	701.3	651.8
45°	1248.6	1116.3	1000.7	914.9	846.2	795.2	761.4	731.6	699.8	657.4	615.0
47.5°	1192.6	1066.4	944.7	850.3	784.1	736.1	702.8	678.1	654.9	618.0	575.1
50°	1122.4	1001.7	883.6	792.7	721.0	676.1	645.3	626.6	605.9	573.1	538.7
52.5°	1039.6	935.1	820.0	726.6	659.9	618.5	589.2	570.5	554.4	529.1	496.8
55°	951.7	857.3	751.3	667.0	604.9	562.5	534.2	516.5	506.4	483.7	457.9
57.5°	852.3	779.6	683.6	601.3	545.3	502.9	481.7	466.0	454.4	437.8	418.6
60°	747.3	699.8	616.0	538.7	488.2	448.4	429.7	417.0	406.4	392.8	378.7
62.5°	640.7	609.4	539.2	475.6	430.2	398.4	381.2	370.1	357.5	349.4	335.8
65°	547.8	517.0	466.5	414.5	371.6	344.8	332.2	322.1	314.6	304.5	294.9
67.5°	444.8	430.7	393.3	354.4	323.1	297.4	286.3	278.2	269.6	263.6	256.5
70°	351.4	345.4	320.6	296.9	268.1	251.9	241.8	238.8	227.7	221.7	217.1
72.5°	268.6	266.6	255.0	240.3	222.2	208.5	199.4	195.9	189.8	185.3	182.8
75°	195.4	196.4	193.9	183.3	175.7	166.6	158.5	156.5	151.5	147.4	144.9
77.5°	133.3	138.3	137.3	136.8	133.3	126.7	123.2	121.7	116.1	114.6	114.1
80°	84.8	90.4	95.4	94.9	93.9	92.4	89.9	88.4	85.8	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	35.3	35.8	35.3	34.8	33.3	33.8	34.3
87.5°	11.6	11.6	12.1	12.1	11.6	14.1	15.7	16.2	15.1	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



TEST NUMBER: P242920

CATALOG NUMBER: S125RDRP-S850D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9
2.5°	1204.2	1197.1	1192.1	1182.0	1174.9	1171.9	1166.3	1164.8	1170.4	1166.3	1165.8
5°	1173.4	1158.8	1147.1	1135.5	1122.9	1114.8	1102.7	1100.7	1097.7	1093.1	1092.1
7.5°	1137.5	1119.4	1105.7	1086.5	1070.9	1058.3	1043.1	1037.1	1034.0	1028.5	1019.4
10°	1101.2	1078.5	1058.3	1039.1	1018.4	1001.7	986.6	975.0	967.4	960.3	957.3
12.5°	1065.3	1042.1	1014.9	990.6	966.9	947.7	930.5	924.0	915.4	906.8	898.7
15°	1028.0	997.2	968.9	942.1	922.5	902.3	886.1	875.0	862.4	858.8	845.2
17.5°	988.1	959.3	926.0	897.2	875.0	853.8	836.1	823.0	813.4	799.8	793.2
20°	951.2	915.4	883.1	857.3	832.1	805.8	787.6	777.0	768.0	757.4	752.3
22.5°	911.9	877.0	843.7	812.4	786.6	760.9	749.3	738.2	727.6	718.0	710.9
25°	873.5	838.1	803.3	772.0	745.2	726.6	711.4	698.8	693.2	683.6	676.6
27.5°	835.1	797.7	762.4	729.6	708.9	690.2	678.1	668.0	657.4	648.8	642.2
30°	798.3	759.9	720.5	695.8	673.5	655.9	642.2	632.6	625.1	617.5	613.0
32.5°	761.4	721.5	687.7	660.4	639.7	625.1	610.9	601.8	593.8	585.2	579.6
35°	721.5	681.1	652.8	626.6	605.9	591.7	582.2	569.0	562.5	556.4	550.8
37.5°	685.7	647.3	616.0	593.3	574.1	560.4	547.8	541.3	532.7	527.6	523.1
40°	645.3	610.9	583.2	558.9	545.8	530.1	518.5	509.4	503.4	496.3	491.3
42.5°	608.9	577.6	550.8	529.6	512.5	499.9	488.7	479.7	471.6	467.0	463.0
45°	575.1	543.3	517.0	496.8	481.7	469.1	457.4	452.9	442.8	436.7	434.7
47.5°	539.7	511.0	485.2	466.5	450.9	439.3	428.2	418.1	413.0	407.0	403.9
50°	503.9	476.6	452.9	434.7	419.6	406.4	396.3	390.3	382.7	377.2	373.1
52.5°	468.0	443.3	419.6	402.4	389.8	376.7	365.0	359.0	351.9	348.9	346.4
55°	434.2	407.5	387.3	370.1	356.5	344.3	333.7	327.7	323.1	319.6	318.6
57.5°	395.3	373.6	354.4	339.3	324.7	313.0	303.4	297.9	293.9	293.3	289.8
60°	357.5	338.3	321.1	304.5	292.3	281.7	273.7	267.1	263.1	262.5	261.5
62.5°	319.6	301.4	285.8	271.6	261.0	250.9	243.4	235.8	233.8	230.7	228.2
65°	282.2	265.6	252.5	240.8	229.2	220.6	213.1	208.5	203.0	199.9	194.4
67.5°	245.4	231.8	219.1	209.5	199.9	191.4	184.8	178.2	174.2	171.7	167.1
70°	209.0	198.9	186.3	175.7	168.6	162.1	157.0	149.5	146.9	144.9	142.9
72.5°	174.7	166.1	156.0	147.9	140.9	134.8	128.8	126.2	123.7	121.7	120.7
75°	142.9	134.3	125.2	119.2	114.1	109.1	106.0	103.5	102.5	102.0	100.0
77.5°	111.1	106.0	98.5	92.9	89.4	87.3	84.3	83.3	83.8	81.3	80.8
80°	80.3	77.8	71.7	69.7	67.2	65.1	63.6	61.1	58.6	57.6	56.0
82.5°	54.5	52.0	50.5	47.0	44.9	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: P242920

CATALOG NUMBER: S125RDRP-S850D840-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1229.9	1229.9	1229.9	1229.9
2.5°	1165.3	1159.8	1158.2	1160.3
5°	1087.1	1082.0	1084.5	1083.5
7.5°	1020.9	1014.3	1006.8	1008.8
10°	950.7	945.7	942.7	945.2
12.5°	891.7	889.1	886.6	884.6
15°	839.1	833.1	830.6	824.0
17.5°	788.7	786.6	780.1	775.5
20°	744.7	742.7	736.1	740.2
22.5°	708.4	703.3	702.3	699.8
25°	674.5	668.0	665.5	662.4
27.5°	640.2	636.7	633.1	632.1
30°	606.9	603.4	600.8	600.8
32.5°	577.1	574.6	572.1	571.5
35°	548.3	544.3	543.3	540.2
37.5°	518.0	514.5	514.5	515.0
40°	489.3	486.7	486.2	482.7
42.5°	458.5	457.4	455.4	454.4
45°	431.2	427.7	427.7	425.1
47.5°	402.4	399.4	399.9	396.9
50°	373.6	372.1	371.6	370.6
52.5°	344.8	344.3	346.9	344.3
55°	319.6	318.1	321.1	318.1
57.5°	289.8	288.8	291.8	289.8
60°	260.5	257.5	259.0	259.5
62.5°	225.7	224.2	225.2	222.2
65°	193.4	191.9	189.8	188.8
67.5°	168.1	163.6	163.6	164.6
70°	139.9	139.9	139.4	139.4
72.5°	120.2	119.7	118.7	118.1
75°	100.0	100.5	99.5	99.0
77.5°	78.3	75.7	76.7	75.7
80°	56.0	55.5	57.1	55.5
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: P242920
 CATALOG NUMBER: S125RDRP-S850D840-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	19.98	20.30
	3H	18.29	19.66	18.66	19.99	20.35	19.61	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	22.14
	6H	18.90	20.09	19.31	20.46	20.85	20.47	21.67	20.89	22.03	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	21.71	21.06	22.10	22.53
4H	2H	18.75	20.04	19.15	20.39	20.76	18.98	20.27	19.38	20.62	21.00
	3H	19.81	20.88	20.22	21.28	21.68	20.65	21.72	21.06	22.12	22.52
	4H	20.20	21.16	20.63	21.57	22.01	21.23	22.19	21.66	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	20.51	21.30	20.98	21.74	22.21	21.78	22.56	22.24	23.01	23.47
	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	22.58	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	21.29	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