

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: P242592

Luminaire Tested: S123RDRP-S1000D940-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2024
Report Number: P242592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDRP-S1000D940-X4F0-XX-UDD-A-W
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

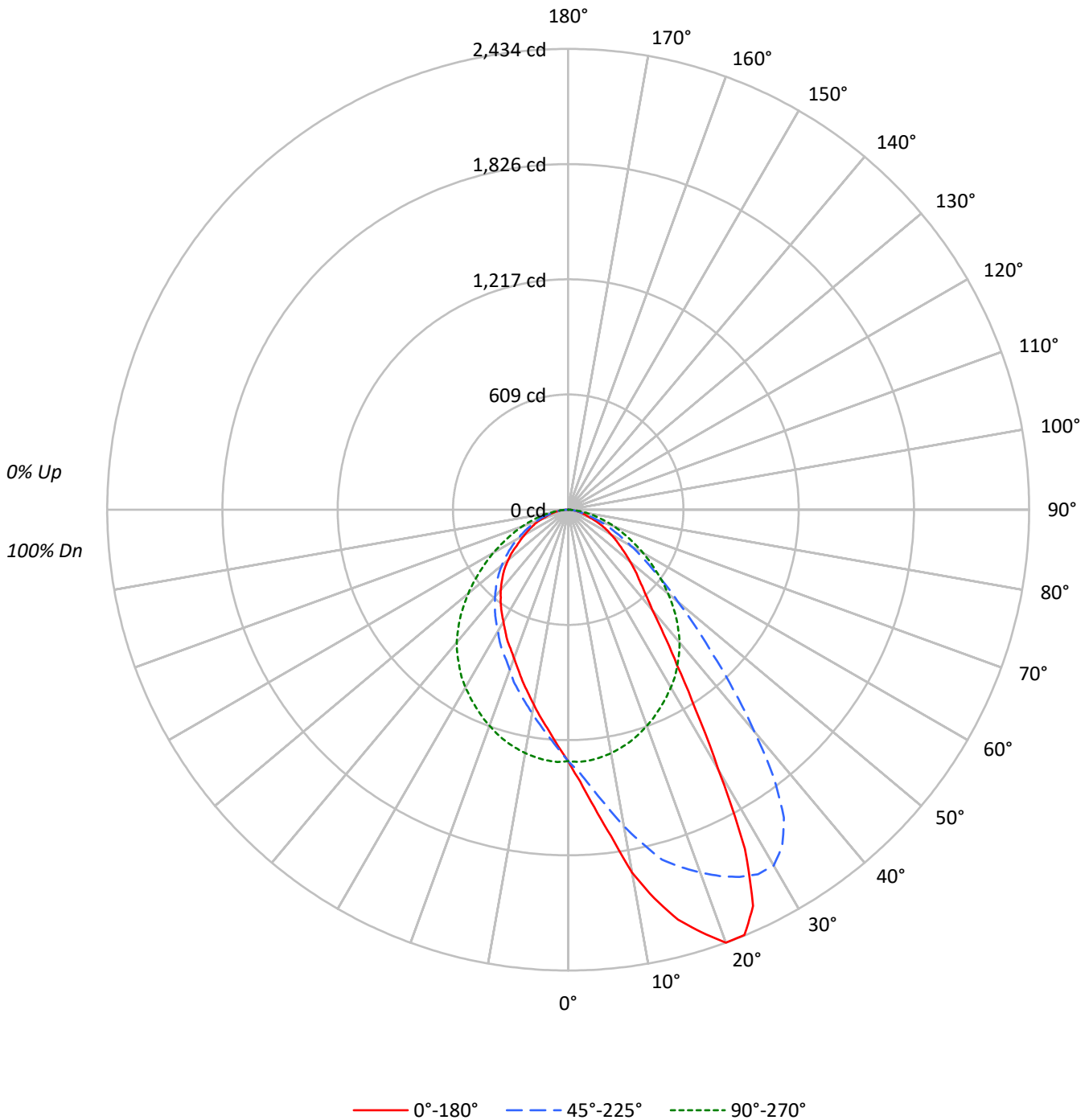
Lumens per Lamp: N/A
Luminaire Lumens: 3307.3 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.35
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (A_{in}): 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: P242592

CATALOG NUMBER: S123RDRP-S1000D940-X4F0-XX-UDD-A-W

Luminous Intensity Polar Plot





TEST NUMBER: P242592

CATALOG NUMBER: S123RDRP-S1000D940-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	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87					87			
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	74					74			
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	16099	16099	16099	16099	16099
5°	19192	18002	16168	14597	14238
10°	23962	20910	16075	13450	12863
15°	28127	24017	15911	12507	11731
20°	31391	26301	15666	11625	10767
25°	30889	28624	15407	11011	10175
30°	22204	30368	15168	10377	9565
35°	14824	29380	14858	9945	9171
40°	10923	24219	14484	9510	8763
45°	9162	18479	13830	9104	8362
50°	8084	14250	12974	8610	7805
55°	7090	11367	11991	8098	7041
60°	6313	9278	11055	7442	6451
65°	5544	7601	10044	6866	6000
70°	4352	6106	9147	6308	5483
75°	3836	4501	7990	5700	5006
80°	3337	3853	6785	4998	4921
85°	2684	2921	5452	5062	5215

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 26004 cd/sqm



TEST NUMBER: P242592

CATALOG NUMBER: S123RDRP-S1000D940-X4F0-XX-UDD-A-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.4	3.9
10°-20°	408.3	12.3
20°-30°	643.1	19.4
30°-40°	668.8	20.2
40°-50°	572.1	17.3
50°-60°	436.1	13.2
60°-70°	279.4	8.4
70°-80°	133.9	4.0
80°-90°	35.2	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°	1181.8	35.7
0°-40°	1850.6	56.0
0°-60°	2858.8	86.4
0°-90°	3307.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3307.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1328	1328	1328	1328	1328	
5°	1577	1480	1329	1200	1170	162
15°	2241	1914	1268	997	935	636
25°	2310	2140	1152	823	761	1004
35°	1002	1986	1004	672	620	651
45°	534	1078	807	531	488	419
55°	336	538	567	383	333	303
65°	193	265	350	239	209	190
75°	82	96	171	122	107	88
85°	19	21	39	36	38	22
90°	0	0	0	0	0	



TEST NUMBER: P242592

CATALOG NUMBER: S123RDRP-S1000D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1328.2	1328.2	1328.2	1328.2	1328.2	1328.2	1328.2	1328.2	1328.2	1328.2	1328.2
2.5°	1436.3	1438.5	1431.1	1430.0	1421.5	1419.2	1419.2	1407.3	1399.9	1390.2	1384.5
5°	1577.3	1586.4	1581.8	1571.6	1554.5	1550.5	1539.7	1522.7	1503.3	1479.5	1468.1
7.5°	1738.7	1757.5	1754.1	1738.2	1720.0	1708.6	1678.5	1654.0	1617.1	1583.5	1557.4
10°	1946.8	1933.8	1923.5	1908.2	1891.7	1865.0	1833.1	1789.3	1738.7	1698.9	1654.6
12.5°	2102.6	2103.2	2089.6	2073.6	2048.6	2023.6	1982.7	1926.9	1866.1	1804.1	1751.8
15°	2241.4	2244.8	2236.3	2219.8	2186.8	2141.9	2082.7	2060.6	1976.4	1913.9	1851.3
17.5°	2340.3	2340.9	2339.2	2317.0	2281.2	2250.5	2195.3	2143.6	2064.0	1979.3	1895.7
20°	2433.6	2427.9	2429.0	2403.4	2378.4	2341.4	2288.0	2203.3	2140.7	2039.0	1952.0
22.5°	2431.3	2431.3	2436.4	2431.8	2415.4	2389.2	2350.0	2281.7	2197.6	2094.7	1994.0
25°	2309.6	2305.1	2331.8	2339.2	2368.2	2373.3	2360.8	2321.5	2245.9	2140.2	2019.1
27.5°	2019.6	2003.1	2058.9	2114.0	2187.4	2234.0	2281.7	2292.5	2256.7	2170.3	2043.5
30°	1586.4	1639.8	1664.8	1754.7	1854.7	1974.1	2078.8	2178.3	2202.7	2169.7	2070.2
32.5°	1249.8	1294.7	1314.6	1388.5	1480.0	1625.0	1795.0	1946.3	2064.5	2104.3	2054.3
35°	1001.8	1002.4	1050.2	1084.3	1170.7	1314.6	1467.0	1655.7	1843.4	1985.5	2000.3
37.5°	826.7	829.0	859.7	893.8	963.2	1043.9	1185.5	1344.7	1570.4	1782.5	1892.8
40°	690.3	695.4	717.0	750.5	797.2	854.6	959.2	1107.0	1287.8	1530.6	1729.1
42.5°	602.7	611.8	620.3	644.2	668.7	721.5	801.1	906.9	1067.2	1293.5	1530.1
45°	534.5	539.0	547.5	559.5	585.6	623.2	680.0	756.8	893.2	1078.0	1307.2
47.5°	482.2	479.3	489.0	499.2	516.8	544.1	583.9	650.5	752.8	907.5	1105.9
50°	428.7	428.1	434.4	441.8	458.3	477.0	508.3	555.5	632.8	755.7	933.6
52.5°	378.7	381.5	385.5	395.2	406.0	420.2	447.5	478.2	541.9	643.6	784.6
55°	335.5	337.2	343.4	348.5	357.1	372.4	390.1	418.5	464.0	537.9	660.1
57.5°	297.9	297.4	303.6	304.2	315.0	328.1	342.3	364.5	399.1	457.7	543.0
60°	260.4	258.7	263.8	267.8	272.9	283.2	294.5	316.1	342.3	382.7	453.2
62.5°	226.3	225.7	229.1	233.1	237.1	246.2	255.3	270.6	290.0	322.4	374.7
65°	193.3	195.0	196.7	198.4	200.7	206.4	215.5	226.9	241.1	265.0	305.3
67.5°	159.2	161.5	162.0	166.0	170.6	173.4	178.5	189.3	200.1	221.7	245.6
70°	122.8	122.2	122.8	124.5	130.8	137.0	144.4	151.8	158.1	172.3	191.6
72.5°	101.2	100.1	101.8	101.8	104.1	104.6	108.6	115.4	124.0	132.5	145.0
75°	81.9	81.9	81.9	81.9	84.2	85.3	87.0	88.7	91.5	96.1	106.3
77.5°	63.7	63.7	64.8	65.4	66.0	66.5	67.7	69.4	70.5	72.8	77.9
80°	47.8	48.3	47.8	48.3	48.3	49.5	50.0	51.7	52.3	55.2	56.9
82.5°	33.0	32.4	33.0	33.5	33.5	34.7	34.7	35.8	35.8	37.0	38.7
85°	19.3	18.2	19.3	18.8	19.9	18.8	19.3	20.5	20.5	21.0	23.3
87.5°	5.7	6.8	5.7	6.3	6.3	6.8	6.8	6.8	8.0	7.4	8.0
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: P242592

CATALOG NUMBER: S123RDRP-S1000D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1328.2	1328.2	1328.2	1328.2	1328.2	1328.2	1328.2	1328.2	1328.2	1328.2	1328.2
2.5°	1382.2	1380.5	1372.6	1363.5	1351.5	1343.6	1337.3	1333.9	1323.7	1311.2	1302.6
5°	1456.2	1439.1	1420.9	1398.7	1378.3	1357.2	1344.1	1328.8	1310.0	1289.0	1274.2
7.5°	1529.5	1499.9	1467.5	1434.0	1399.9	1369.7	1341.9	1319.1	1290.7	1261.7	1241.8
10°	1616.5	1567.6	1517.0	1465.2	1418.1	1373.7	1339.6	1306.0	1270.2	1235.5	1209.4
12.5°	1695.5	1627.3	1567.0	1500.5	1436.8	1381.7	1328.8	1287.8	1242.9	1205.4	1174.7
15°	1759.8	1693.8	1623.3	1526.7	1446.5	1379.4	1319.7	1267.9	1215.6	1170.2	1141.2
17.5°	1826.9	1726.8	1634.1	1559.1	1454.4	1373.1	1303.2	1242.9	1186.1	1139.4	1103.1
20°	1865.5	1769.4	1666.5	1563.6	1461.3	1367.5	1282.7	1214.5	1154.8	1100.2	1067.2
22.5°	1888.8	1776.8	1667.1	1554.5	1444.2	1345.8	1262.3	1185.5	1119.5	1068.4	1025.7
25°	1905.9	1776.3	1656.9	1547.7	1436.8	1331.1	1231.6	1152.0	1082.0	1026.9	983.7
27.5°	1919.5	1769.4	1632.4	1513.6	1401.6	1294.1	1204.3	1119.0	1049.0	991.6	944.4
30°	1923.0	1760.9	1603.4	1472.1	1357.8	1261.1	1164.5	1083.7	1008.7	946.7	903.5
32.5°	1927.5	1739.9	1564.2	1422.6	1304.9	1209.4	1124.1	1047.9	970.6	909.7	865.4
35°	1911.6	1734.8	1524.4	1364.0	1246.9	1154.2	1075.2	1004.1	928.5	869.4	824.5
37.5°	1863.3	1706.9	1484.6	1298.7	1177.5	1092.3	1026.3	961.5	891.5	826.7	785.2
40°	1782.0	1661.4	1436.8	1240.1	1112.2	1024.0	966.0	915.4	848.3	788.6	743.1
42.5°	1660.8	1599.4	1391.3	1178.7	1038.2	954.1	907.5	860.8	804.0	743.1	701.1
45°	1507.3	1517.0	1325.9	1112.7	971.1	885.9	839.8	806.8	754.5	704.5	660.7
47.5°	1320.8	1401.6	1256.0	1043.4	898.4	818.2	777.8	747.7	711.3	659.6	619.2
50°	1138.9	1267.9	1168.4	973.4	830.7	751.1	711.3	688.0	657.3	618.6	580.5
52.5°	971.1	1112.2	1062.7	895.5	757.4	686.3	647.6	629.4	606.7	570.9	537.3
55°	819.3	959.8	946.1	817.1	684.0	618.6	589.1	567.4	551.0	523.7	496.4
57.5°	687.4	823.3	826.2	730.1	620.3	553.8	528.2	511.2	499.8	478.2	451.5
60°	564.0	686.3	710.2	641.9	551.0	494.1	469.1	456.0	447.5	431.0	411.7
62.5°	461.7	561.2	589.1	544.7	484.4	432.1	413.9	401.4	396.3	382.7	366.2
65°	369.0	455.4	481.6	454.3	419.6	377.0	361.1	350.2	345.1	337.2	324.7
67.5°	291.1	358.2	386.6	363.9	350.8	320.7	309.9	303.6	299.1	293.4	282.6
70°	222.9	269.5	299.1	294.0	283.7	269.5	262.1	258.1	253.6	249.0	239.9
72.5°	168.3	196.7	224.0	228.6	220.6	220.6	214.4	213.2	210.9	205.3	201.3
75°	118.8	141.0	160.3	167.7	171.1	174.0	171.1	170.6	170.0	165.5	162.6
77.5°	82.4	96.7	109.7	122.8	127.4	131.3	131.9	134.2	132.5	129.6	128.5
80°	59.7	62.5	71.1	81.9	90.4	93.8	96.1	97.2	96.7	96.1	93.8
82.5°	39.2	41.5	44.3	51.2	58.0	64.3	65.4	64.8	66.5	67.1	65.4
85°	23.3	23.9	25.0	26.2	30.1	36.4	38.1	39.2	40.4	40.4	37.0
87.5°	9.1	8.5	9.7	9.7	11.4	11.9	15.4	18.2	18.8	16.5	16.5
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: P242592

CATALOG NUMBER: S123RDRP-S1000D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1328.2	1328.2	1328.2	1328.2	1328.2	1328.2	1328.2	1328.2	1328.2	1328.2	1328.2
2.5°	1299.8	1292.4	1287.3	1275.9	1268.5	1260.6	1252.6	1257.7	1257.1	1256.6	1256.6
5°	1261.7	1248.6	1236.7	1221.3	1211.7	1199.7	1190.6	1189.5	1191.8	1183.8	1179.2
7.5°	1225.9	1208.8	1191.8	1175.8	1158.2	1144.6	1136.0	1132.6	1126.4	1121.3	1116.7
10°	1187.8	1166.7	1150.3	1129.2	1109.9	1092.8	1082.0	1074.6	1070.6	1066.7	1059.3
12.5°	1148.5	1128.1	1105.9	1081.5	1063.3	1042.8	1035.4	1026.9	1018.3	1013.8	1003.0
15°	1110.5	1083.7	1061.6	1036.5	1016.1	996.7	985.4	968.9	966.6	960.9	950.7
17.5°	1073.5	1043.9	1011.5	994.5	974.0	953.5	935.3	930.2	913.2	907.5	897.8
20°	1028.0	1001.3	978.0	953.5	920.0	901.2	887.6	880.2	867.1	859.1	853.4
22.5°	988.8	961.5	933.6	904.1	877.9	856.3	847.2	834.7	829.0	817.1	810.8
25°	951.8	922.2	889.8	859.1	839.2	823.3	807.4	797.2	786.9	781.8	770.4
27.5°	906.9	877.3	846.1	822.2	799.4	783.5	768.2	759.6	746.6	738.0	731.8
30°	871.1	834.7	808.5	787.5	756.2	741.4	730.6	719.3	710.2	701.1	694.8
32.5°	829.6	797.2	772.7	745.4	723.2	706.8	692.0	682.3	674.9	666.4	660.1
35°	785.8	757.9	732.3	706.2	688.6	672.1	655.6	647.1	639.7	631.7	626.0
37.5°	746.0	719.8	696.0	670.9	649.3	635.1	621.5	615.8	605.5	599.9	594.2
40°	709.6	684.0	657.9	634.0	611.2	601.0	589.1	579.4	570.3	566.3	560.1
42.5°	669.8	644.2	623.2	597.0	579.4	564.6	553.8	543.0	536.7	530.5	527.6
45°	630.6	607.8	586.2	560.6	543.0	531.1	518.6	508.9	502.6	498.7	492.4
47.5°	593.0	569.7	548.1	525.4	508.3	494.7	481.6	475.3	466.8	462.3	457.7
50°	551.5	531.1	507.7	487.3	470.2	456.6	446.3	437.8	430.4	424.2	421.3
52.5°	513.4	491.3	471.9	453.2	435.0	419.0	410.0	400.9	395.7	388.3	384.9
55°	470.8	449.8	432.7	413.9	396.3	383.2	371.9	363.9	358.2	350.2	345.7
57.5°	431.6	413.4	392.3	375.8	357.1	346.8	337.2	325.8	319.0	312.7	308.2
60°	391.8	370.2	352.5	337.2	321.3	307.0	298.5	290.0	282.6	276.3	272.4
62.5°	350.2	332.1	315.6	298.5	284.3	272.4	262.1	255.3	249.0	245.6	241.6
65°	307.6	292.8	275.8	262.1	248.5	239.4	231.4	225.2	220.6	217.8	214.4
67.5°	268.4	254.2	238.8	224.6	215.5	208.1	202.4	196.7	194.5	191.0	188.8
70°	230.3	215.5	202.4	192.2	183.1	178.0	174.6	170.6	168.3	163.8	161.5
72.5°	188.8	179.1	170.6	162.6	155.8	151.2	146.7	141.6	137.6	132.5	130.2
75°	155.2	145.6	138.2	132.5	127.9	121.7	115.4	110.3	108.6	106.9	106.3
77.5°	121.1	114.9	109.2	104.6	98.4	92.7	91.0	89.8	89.3	88.1	88.1
80°	90.4	84.7	80.7	75.1	71.6	71.6	71.6	70.5	71.1	71.1	71.1
82.5°	61.4	56.3	54.6	53.4	53.4	54.0	54.0	54.6	54.0	55.2	54.6
85°	34.7	35.3	36.4	35.8	36.4	36.4	37.5	37.0	37.5	36.4	37.5
87.5°	15.9	17.6	18.2	18.8	19.3	18.8	19.3	19.3	19.9	19.9	19.9
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: P242592

CATALOG NUMBER: S123RDRP-S1000D940-X4F0-XX-UDD-A-W

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1328.2	1328.2	1328.2	1328.2
2.5°	1249.8	1249.2	1249.8	1247.5
5°	1177.5	1177.0	1175.3	1170.2
7.5°	1112.2	1111.0	1106.5	1107.6
10°	1055.3	1055.9	1049.0	1045.1
12.5°	1000.1	996.7	991.6	987.1
15°	953.0	947.3	933.6	934.8
17.5°	894.4	889.8	889.3	881.3
20°	844.4	841.5	842.6	834.7
22.5°	805.1	802.3	796.0	794.9
25°	767.0	762.5	757.9	760.8
27.5°	728.4	724.9	719.8	719.8
30°	692.0	688.6	686.3	683.4
32.5°	655.0	655.0	650.5	650.5
35°	623.7	620.3	619.2	619.8
37.5°	593.6	589.1	586.8	584.5
40°	560.6	556.1	554.9	553.8
42.5°	523.7	522.5	522.0	519.7
45°	490.7	490.1	486.7	487.8
47.5°	455.4	452.6	450.9	452.6
50°	419.0	417.9	412.8	413.9
52.5°	382.7	377.5	376.4	375.3
55°	341.7	336.6	334.3	333.2
57.5°	301.4	299.6	297.4	299.1
60°	266.7	266.7	266.7	266.1
62.5°	239.9	238.2	237.7	238.8
65°	212.7	212.1	209.8	209.2
67.5°	187.6	185.4	185.4	184.2
70°	158.6	157.5	154.1	154.7
72.5°	127.4	126.2	126.2	125.1
75°	105.8	105.2	104.6	106.9
77.5°	88.1	88.1	88.7	87.6
80°	71.1	71.1	70.5	70.5
82.5°	53.4	54.0	54.6	53.4
85°	37.5	37.0	38.1	37.5
87.5°	21.0	19.9	19.9	20.5
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242592
 CATALOG NUMBER: S123RDRP-S1000D940-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	17.29	18.79	17.66	19.10	19.41	20.69	22.18	21.05	22.50	22.81
	3H	18.38	19.72	18.76	20.05	20.41	22.10	23.44	22.48	23.76	24.13
	4H	18.72	19.97	19.12	20.32	20.70	22.60	23.85	23.00	24.20	24.58
	6H	18.97	20.12	19.38	20.49	20.88	22.95	24.11	23.36	24.47	24.86
	8H	19.04	20.14	19.46	20.53	20.93	23.05	24.15	23.48	24.54	24.94
	12H	19.07	20.13	19.50	20.51	20.94	23.11	24.16	23.54	24.55	24.98
4H	2H	18.27	19.52	18.67	19.87	20.25	20.93	22.18	21.33	22.53	22.91
	3H	19.44	20.48	19.85	20.88	21.28	22.62	23.66	23.03	24.06	24.46
	4H	19.83	20.76	20.26	21.18	21.62	23.23	24.17	23.67	24.58	25.02
	6H	20.14	20.95	20.60	21.39	21.85	23.70	24.51	24.16	24.95	25.41
	8H	20.23	20.99	20.69	21.43	21.90	23.84	24.60	24.31	25.04	25.51
	12H	20.29	20.96	20.77	21.44	21.91	23.94	24.62	24.43	25.10	25.57
8H	4H	20.19	20.95	20.66	21.40	21.86	23.29	24.04	23.75	24.49	24.96
	6H	20.57	21.19	21.07	21.68	22.16	23.82	24.45	24.32	24.94	25.42
	8H	20.70	21.26	21.22	21.77	22.26	24.02	24.57	24.53	25.09	25.57
	12H	20.80	21.30	21.31	21.79	22.35	24.17	24.67	24.68	25.16	25.72
12H	4H	20.23	20.90	20.71	21.38	21.85	23.27	23.95	23.76	24.43	24.90
	6H	20.61	21.17	21.13	21.68	22.17	23.81	24.37	24.32	24.88	25.37
	8H	20.79	21.28	21.30	21.78	22.34	24.04	24.54	24.55	25.03	25.59