

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: P243428

Luminaire Tested: S123RDRP-H1165D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P243428  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-69)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDRP-H1165D830-X4F0-XX-UDD-A-W  
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER.  
HIGH PERFORMANCE LIGHT ENGINE  
Light Source: (184) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

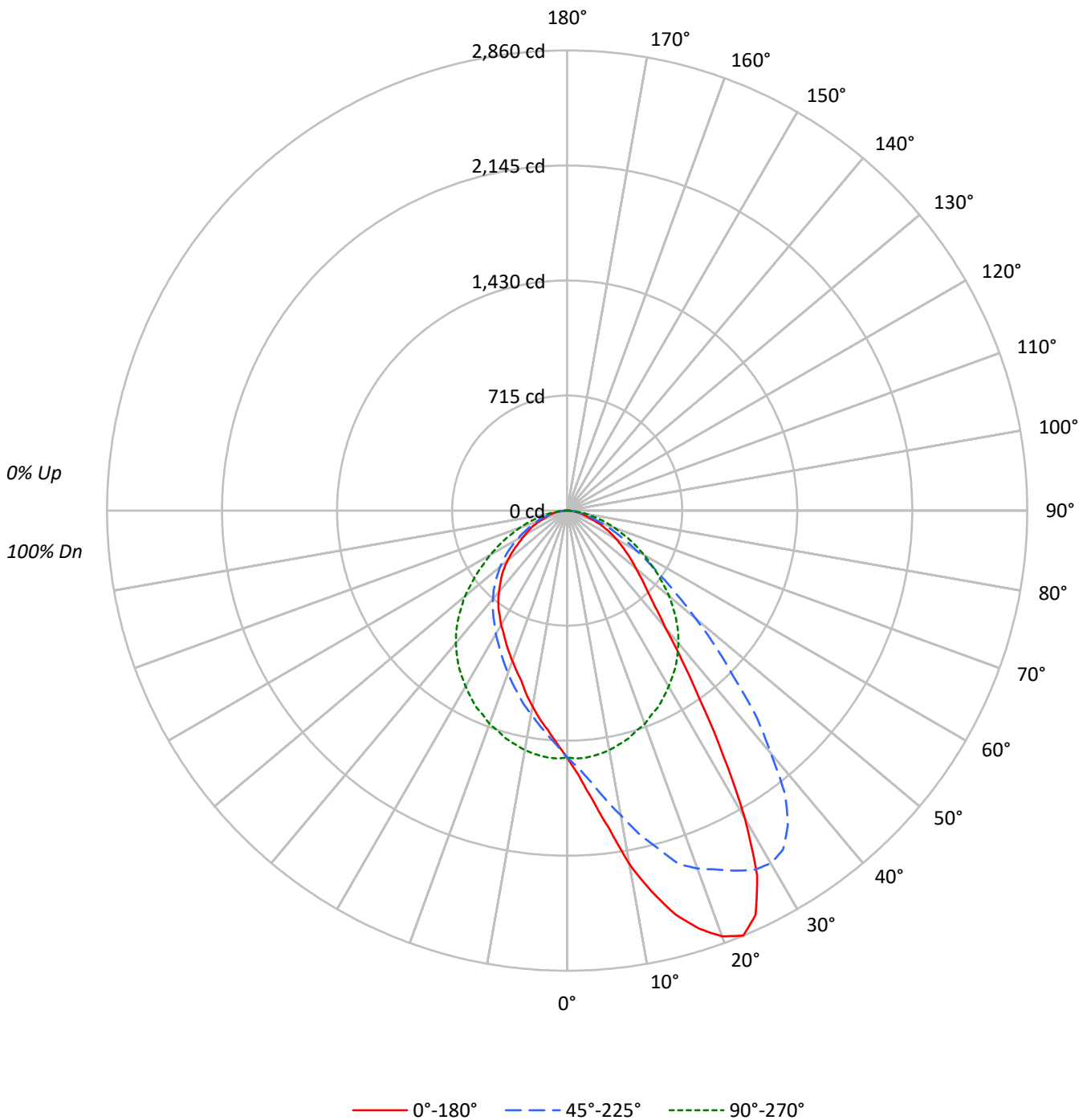
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4000.2 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.22 / 1.4  
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 37.7  
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: P243428

CATALOG NUMBER: S123RDRP-H1165D830-X4F0-XX-UDD-A-W

### Luminous Intensity Polar Plot



TEST NUMBER: P243428

CATALOG NUMBER: S123RDRP-H1165D830-X4F0-XX-UDD-A-W

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20					20				20				20
RC	80				70					50				30				10
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	99	107	104	100	97	99	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	79	68	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39
8	64	51	43	38	62	51	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	18609	18609	18609	18609	18609
5°	21938	20591	18712	17010	16663
10°	27462	23677	18603	15811	15208
15°	32591	27242	18417	14790	13775
20°	36323	30534	18196	13877	12826
25°	37075	33024	17970	13051	12074
30°	30896	35432	17665	12405	11485
35°	21344	35380	17421	11829	11005
40°	14999	31151	17023	11348	10426
45°	12044	25089	16420	10841	9864
50°	10500	19638	15638	10238	9125
55°	9415	15156	14470	9567	8126
60°	8516	12068	13370	8679	7360
65°	7451	9907	12319	7853	6884
70°	6014	8059	11089	7212	5826
75°	5217	6332	9657	6084	5714
80°	4809	5179	8237	5829	5738
85°	4242	4423	6634	5257	4979

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 55°  
 Vertical Angle: 45°  
 Luminance: 31442 cd/sqm



TEST NUMBER: P243428

CATALOG NUMBER: S123RDRP-H1165D830-X4F0-XX-UDD-A-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.6	3.8
10°-20°	474.1	11.9
20°-30°	759.7	19.0
30°-40°	824.7	20.6
40°-50°	706.6	17.7
50°-60°	535.6	13.4
60°-70°	342.3	8.6
70°-80°	163.7	4.1
80°-90°	43.0	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°	1384.4	34.6
0°-40°	2209.1	55.2
0°-60°	3451.3	86.3
0°-90°	4000.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4000.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1535	1535	1535	1535	1535	
5°	1803	1692	1538	1398	1370	185
15°	2597	2171	1468	1179	1098	736
25°	2772	2469	1344	976	903	1230
35°	1442	2391	1177	799	744	926
45°	703	1464	958	632	575	555
55°	446	717	685	453	384	402
65°	260	345	430	274	240	258
75°	111	135	206	130	122	120
85°	30	32	48	38	36	35
90°	0	0	0	0	0	



TEST NUMBER: P243428

CATALOG NUMBER: S123RDRP-H1165D830-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2
2.5°	1645.3	1647.2	1643.9	1643.3	1642.6	1632.0	1628.7	1623.4	1604.8	1600.2	1596.9
5°	1803.0	1797.7	1803.7	1792.4	1779.8	1772.5	1760.6	1734.1	1710.9	1692.3	1680.4
7.5°	1989.9	1991.9	1986.0	1975.4	1950.2	1939.6	1907.1	1875.3	1844.8	1806.3	1777.8
10°	2231.2	2215.3	2218.6	2185.5	2159.0	2127.2	2082.7	2031.7	1978.0	1923.7	1883.2
12.5°	2423.5	2434.7	2426.8	2410.9	2359.8	2328.7	2288.2	2214.0	2129.2	2056.2	1994.6
15°	2597.1	2581.9	2583.9	2545.4	2526.9	2498.4	2431.4	2357.8	2302.8	2170.9	2098.0
17.5°	2724.4	2723.1	2721.1	2688.6	2666.1	2606.4	2538.1	2462.6	2393.6	2302.2	2210.7
20°	2815.9	2825.8	2823.2	2796.7	2756.9	2699.2	2658.1	2564.0	2450.6	2367.1	2255.1
22.5°	2859.6	2860.3	2861.6	2849.0	2822.5	2785.4	2727.1	2651.5	2550.7	2414.2	2289.6
25°	2772.1	2775.5	2792.7	2803.3	2810.6	2794.0	2763.5	2695.2	2608.4	2469.2	2339.9
27.5°	2557.4	2568.0	2587.2	2650.8	2676.7	2712.5	2725.1	2697.9	2633.6	2517.6	2370.4
30°	2207.4	2237.2	2255.8	2328.0	2429.4	2524.9	2570.0	2614.4	2608.4	2531.5	2382.4
32.5°	1807.0	1826.2	1879.9	1957.5	2037.7	2177.5	2334.0	2441.4	2501.7	2497.7	2392.3
35°	1442.4	1470.3	1516.0	1575.0	1685.7	1830.9	2007.8	2176.9	2328.0	2391.0	2353.2
37.5°	1170.6	1173.3	1216.4	1299.9	1368.8	1496.8	1656.5	1865.3	2063.5	2227.9	2264.4
40°	947.9	966.5	989.0	1041.4	1122.9	1245.5	1351.6	1557.1	1762.6	1968.7	2115.9
42.5°	807.4	807.4	832.6	865.7	920.1	993.6	1120.3	1306.5	1491.5	1744.7	1910.4
45°	702.6	709.3	720.5	741.8	780.2	837.2	935.3	1061.9	1250.8	1463.6	1712.9
47.5°	627.1	626.4	636.4	649.0	678.8	721.9	779.5	882.3	1022.2	1251.5	1471.6
50°	556.8	559.5	566.8	577.4	597.2	627.7	664.2	741.8	859.7	1041.4	1272.1
52.5°	502.5	501.8	507.8	514.4	529.6	546.9	579.4	637.0	718.6	863.1	1054.6
55°	445.5	448.1	455.4	459.4	472.0	483.2	510.4	542.9	608.5	717.2	891.6
57.5°	396.4	399.7	403.7	407.7	416.3	427.6	450.1	470.0	517.7	595.9	735.1
60°	351.3	350.0	354.6	361.3	365.9	375.8	388.4	409.0	442.1	497.8	599.9
62.5°	306.2	306.9	307.6	311.6	320.2	328.8	340.1	355.3	375.2	416.3	488.5
65°	259.8	260.5	261.8	265.8	274.4	279.7	291.7	304.9	320.8	345.4	395.7
67.5°	218.7	221.4	221.4	224.7	228.0	233.3	241.9	251.9	265.1	283.0	315.5
70°	169.7	169.0	172.3	179.0	182.3	191.6	197.5	204.2	216.1	227.4	255.2
72.5°	136.6	136.6	136.6	139.2	139.9	141.9	145.8	159.8	169.0	180.3	195.5
75°	111.4	112.0	112.0	112.7	113.4	115.3	116.7	120.6	123.3	135.2	144.5
77.5°	88.8	89.5	89.5	90.2	90.8	91.5	94.1	94.1	96.1	98.8	102.7
80°	68.9	68.3	68.3	68.9	68.9	70.9	70.9	72.3	72.9	74.2	76.2
82.5°	49.1	48.4	49.1	48.4	49.1	49.7	51.0	50.4	51.7	53.0	53.7
85°	30.5	31.2	31.2	32.5	31.8	31.2	31.8	31.8	31.8	31.8	33.1
87.5°	13.3	14.6	14.6	13.9	14.6	14.6	13.3	14.6	14.6	14.6	15.2
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: P243428

CATALOG NUMBER: S123RDRP-H1165D830-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2
2.5°	1594.9	1592.2	1582.3	1573.0	1559.1	1553.1	1545.2	1541.8	1531.2	1516.7	1510.0
5°	1669.1	1649.2	1630.0	1606.8	1587.6	1565.0	1552.5	1537.9	1515.3	1494.8	1480.2
7.5°	1748.0	1718.8	1683.0	1644.6	1610.1	1577.6	1549.8	1526.6	1497.4	1468.9	1446.4
10°	1834.8	1785.1	1727.4	1678.4	1628.7	1581.6	1546.5	1511.4	1473.6	1437.8	1410.6
12.5°	1928.3	1858.0	1788.4	1714.9	1640.6	1586.3	1533.9	1488.8	1446.4	1408.6	1376.1
15°	2025.1	1929.0	1840.1	1757.3	1653.9	1581.0	1523.3	1467.6	1414.6	1368.2	1336.4
17.5°	2094.0	1984.0	1872.0	1754.6	1665.8	1575.7	1504.1	1433.8	1384.7	1337.0	1293.9
20°	2157.7	2033.0	1899.8	1790.4	1666.5	1556.4	1478.2	1410.6	1342.3	1291.3	1254.8
22.5°	2184.8	2072.1	1937.6	1785.8	1661.8	1549.1	1448.4	1372.1	1311.2	1255.5	1207.8
25°	2190.1	2064.2	1926.3	1779.8	1643.9	1522.0	1419.9	1343.6	1264.1	1206.4	1169.3
27.5°	2213.3	2041.0	1905.8	1759.9	1622.1	1494.8	1387.4	1302.5	1228.3	1166.7	1118.9
30°	2219.3	2031.0	1862.0	1722.8	1581.0	1456.3	1347.6	1262.1	1181.2	1118.3	1075.2
32.5°	2222.0	2017.8	1816.3	1663.8	1528.6	1411.3	1311.8	1219.0	1142.1	1075.8	1031.4
35°	2212.7	1999.2	1761.3	1596.9	1466.9	1351.6	1259.5	1177.3	1091.8	1029.4	982.4
37.5°	2176.2	1970.1	1730.1	1518.6	1394.7	1286.0	1207.8	1126.9	1048.0	980.4	932.0
40°	2107.3	1927.6	1671.8	1453.0	1312.5	1215.0	1142.1	1075.8	996.3	931.3	883.6
42.5°	1997.2	1870.0	1618.1	1378.8	1231.0	1138.8	1077.8	1020.8	949.2	887.6	835.2
45°	1834.2	1789.1	1546.5	1303.2	1142.1	1055.3	1002.3	957.9	892.9	836.5	788.2
47.5°	1657.8	1667.8	1474.2	1226.3	1061.3	978.4	932.0	892.9	843.8	783.5	739.1
50°	1454.3	1508.7	1372.8	1148.8	980.4	898.9	853.1	829.3	783.5	733.1	691.4
52.5°	1268.1	1354.3	1270.1	1063.9	900.8	820.6	778.2	754.4	723.9	682.1	639.7
55°	1075.2	1184.6	1123.6	972.4	820.0	739.1	703.3	684.7	659.6	627.1	588.6
57.5°	915.4	1032.1	993.6	876.3	741.1	668.2	636.4	615.1	599.9	570.1	538.9
60°	759.0	867.0	851.8	765.6	662.9	593.3	568.7	551.5	538.9	517.0	486.5
62.5°	612.5	717.2	726.5	658.9	586.6	523.7	501.1	489.2	479.3	462.0	434.2
65°	485.9	578.0	597.2	545.5	506.4	458.7	436.8	429.5	422.3	402.4	381.2
67.5°	380.5	452.7	477.9	448.8	420.9	393.1	375.8	365.9	360.6	348.7	334.1
70°	291.0	353.3	374.5	361.9	343.4	332.8	319.5	312.9	307.6	292.3	284.4
72.5°	218.1	260.5	287.0	283.0	279.1	271.8	263.8	261.8	253.9	243.9	236.6
75°	159.8	184.3	208.1	216.8	215.4	218.1	209.5	206.2	201.5	194.2	188.3
77.5°	114.7	129.3	145.8	156.4	161.7	162.4	162.4	160.4	157.1	151.8	147.2
80°	79.5	82.9	98.1	108.0	113.4	117.3	117.3	118.0	114.7	112.7	109.4
82.5°	55.0	57.0	60.3	68.3	74.9	79.5	80.2	79.5	78.2	77.6	72.9
85°	34.5	33.8	33.8	35.8	41.1	45.7	46.4	47.7	47.1	46.4	41.8
87.5°	14.6	14.6	15.2	14.6	16.6	17.2	18.6	21.9	21.2	17.9	16.6
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: P243428

CATALOG NUMBER: S123RDRP-H1165D830-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2	1535.2
2.5°	1506.0	1497.4	1489.5	1480.9	1470.3	1460.3	1459.0	1457.7	1461.0	1454.3	1451.7
5°	1468.9	1452.4	1439.8	1423.9	1412.6	1398.0	1390.0	1388.1	1387.4	1383.4	1378.1
7.5°	1428.5	1410.6	1392.7	1374.8	1356.2	1341.0	1332.4	1327.7	1323.8	1317.1	1311.8
10°	1390.7	1368.2	1348.9	1324.4	1304.5	1284.6	1276.7	1270.1	1266.1	1256.8	1249.5
12.5°	1348.3	1319.8	1298.6	1272.1	1254.2	1236.9	1224.3	1211.7	1202.5	1188.5	1182.6
15°	1311.2	1281.3	1245.5	1229.6	1204.4	1178.6	1164.7	1164.7	1145.4	1134.2	1126.9
17.5°	1261.4	1235.6	1210.4	1177.9	1142.1	1126.9	1111.0	1097.1	1083.8	1080.5	1067.2
20°	1217.7	1187.2	1161.4	1126.2	1093.7	1075.8	1057.3	1042.0	1032.1	1022.8	1015.5
22.5°	1174.6	1144.1	1104.3	1069.9	1048.0	1024.1	1004.3	991.0	982.4	968.5	961.8
25°	1129.5	1093.1	1057.3	1023.5	996.3	975.8	955.2	947.9	932.7	925.4	916.1
27.5°	1084.5	1040.7	1006.9	977.7	947.2	927.4	913.4	900.2	886.9	882.9	877.6
30°	1034.1	993.6	961.2	932.7	903.5	886.3	869.7	857.8	846.5	837.9	831.9
32.5°	983.7	949.9	918.7	885.6	859.1	840.5	826.6	816.0	810.7	796.1	790.8
35°	937.3	902.8	869.7	838.5	817.3	799.4	786.8	776.9	765.6	756.3	751.0
37.5°	889.6	858.4	824.6	798.1	774.2	759.7	745.7	732.5	723.9	718.6	711.9
40°	843.2	810.0	784.2	755.0	733.8	717.2	702.6	692.7	682.1	677.5	668.8
42.5°	799.4	767.6	737.8	711.3	692.0	676.1	662.2	650.9	642.3	633.7	629.1
45°	749.0	721.2	694.0	667.5	649.6	632.4	617.1	607.2	595.3	588.0	585.3
47.5°	706.6	677.5	648.3	623.8	605.2	586.6	574.0	562.1	552.2	544.9	540.9
50°	656.2	629.1	605.2	580.7	562.8	542.9	527.6	516.4	505.1	499.8	493.2
52.5°	613.2	586.6	557.5	535.6	515.1	497.8	483.9	474.6	464.7	456.7	452.1
55°	559.5	533.6	510.4	487.2	466.7	452.7	441.5	425.6	416.9	409.0	396.4
57.5°	512.4	487.9	463.3	440.8	421.6	405.0	391.1	380.5	369.2	363.3	354.6
60°	462.7	436.8	414.3	397.1	375.8	358.0	348.7	336.1	326.8	317.5	314.9
62.5°	413.6	389.8	367.2	349.3	330.1	316.2	304.3	298.3	289.0	281.7	279.1
65°	362.6	342.7	321.5	301.6	289.7	273.8	267.1	257.2	251.9	248.6	247.9
67.5°	312.2	294.3	275.1	259.8	248.6	238.0	230.0	226.0	220.7	216.8	213.4
70°	266.5	249.2	232.7	220.1	211.5	203.5	198.2	190.9	185.6	180.3	173.0
72.5°	221.4	207.5	193.6	183.6	175.0	170.4	163.1	151.8	146.5	145.2	144.5
75°	179.6	164.4	154.4	149.1	141.2	129.9	125.3	124.0	123.3	122.0	122.0
77.5°	138.5	129.3	122.6	111.4	107.4	106.7	103.4	102.7	101.4	102.1	102.1
80°	100.8	95.5	87.5	84.2	82.9	83.5	82.2	82.9	81.5	82.2	80.9
82.5°	67.0	62.3	63.6	61.6	61.6	63.0	62.3	60.3	60.3	59.7	59.7
85°	39.8	39.1	40.4	40.4	39.8	37.8	39.1	38.4	36.5	37.1	37.1
87.5°	17.2	17.2	17.2	16.6	17.2	16.6	16.6	16.6	14.6	14.6	14.6
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: P243428

CATALOG NUMBER: S123RDRP-H1165D830-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1535.2	1535.2	1535.2	1535.2
2.5°	1453.0	1451.7	1449.7	1447.7
5°	1378.1	1372.1	1371.5	1369.5
7.5°	1307.9	1305.2	1300.6	1305.9
10°	1243.6	1245.5	1240.9	1235.6
12.5°	1176.6	1172.6	1165.3	1169.3
15°	1117.6	1111.0	1107.0	1097.7
17.5°	1056.0	1050.7	1050.7	1044.7
20°	1002.3	997.0	998.3	994.3
22.5°	957.2	953.2	947.2	947.9
25°	914.8	908.8	902.2	902.8
27.5°	867.7	862.4	861.1	856.4
30°	825.9	821.3	820.6	820.6
32.5°	785.5	783.5	780.2	778.2
35°	750.4	747.7	742.4	743.7
37.5°	706.6	704.0	703.3	702.6
40°	665.5	663.5	658.2	658.9
42.5°	624.4	621.1	617.8	616.5
45°	580.0	579.4	574.0	575.4
47.5°	537.6	536.3	533.6	530.3
50°	490.5	489.9	487.9	483.9
52.5°	444.8	442.8	438.8	434.8
55°	393.1	387.1	387.8	384.5
57.5°	350.7	348.0	342.7	340.7
60°	309.6	306.9	306.2	303.6
62.5°	275.1	272.4	270.5	270.5
65°	243.9	240.6	240.0	240.0
67.5°	209.5	206.2	205.5	204.2
70°	166.4	165.7	164.4	164.4
72.5°	143.2	142.5	143.2	140.5
75°	122.0	121.3	121.3	122.0
77.5°	101.4	101.4	100.8	100.8
80°	80.2	80.9	80.2	82.2
82.5°	60.3	59.0	59.7	58.3
85°	37.1	37.1	35.8	35.8
87.5°	14.6	14.6	14.6	14.6
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P243428

CATALOG NUMBER: S123RDRP-H1165D830-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	18.55	20.05	18.91	20.36	20.68	21.24	22.75	21.61	23.06	23.37
	3H	19.73	21.08	20.11	21.41	21.77	22.67	24.02	23.05	24.34	24.71
	4H	20.09	21.35	20.49	21.69	22.07	23.17	24.43	23.57	24.78	25.16
	6H	20.36	21.52	20.77	21.89	22.28	23.52	24.68	23.93	25.05	25.44
	8H	20.45	21.56	20.88	21.95	22.35	23.62	24.73	24.05	25.12	25.52
	12H	20.51	21.57	20.94	21.95	22.38	23.68	24.74	24.11	25.12	25.55
4H	2H	19.50	20.76	19.90	21.10	21.48	21.52	22.78	21.92	23.13	23.51
	3H	20.76	21.81	21.18	22.21	22.61	23.24	24.28	23.65	24.68	25.09
	4H	21.17	22.11	21.60	22.53	22.96	23.86	24.79	24.29	25.21	25.65
	6H	21.52	22.33	21.98	22.78	23.24	24.31	25.13	24.77	25.57	26.03
	8H	21.63	22.39	22.10	22.84	23.31	24.45	25.21	24.91	25.66	26.12
	12H	21.72	22.40	22.21	22.88	23.35	24.55	25.23	25.03	25.70	26.18
8H	4H	21.53	22.29	22.00	22.74	23.21	23.92	24.68	24.38	25.12	25.59
	6H	21.95	22.58	22.45	23.07	23.55	24.44	25.07	24.94	25.56	26.04
	8H	22.12	22.68	22.63	23.19	23.68	24.63	25.20	25.15	25.71	26.20
	12H	22.26	22.76	22.77	23.25	23.82	24.79	25.28	25.30	25.78	26.34
12H	4H	21.56	22.24	22.05	22.72	23.19	23.90	24.58	24.39	25.06	25.53
	6H	22.00	22.56	22.51	23.07	23.56	24.43	25.00	24.95	25.51	26.00
	8H	22.21	22.71	22.72	23.20	23.77	24.66	25.16	25.17	25.65	26.22