

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: P242583

Luminaire Tested: S123RDRP-S1165D930-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242583  
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-S1165D930-X4F0-XX-UDD-A-W  
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

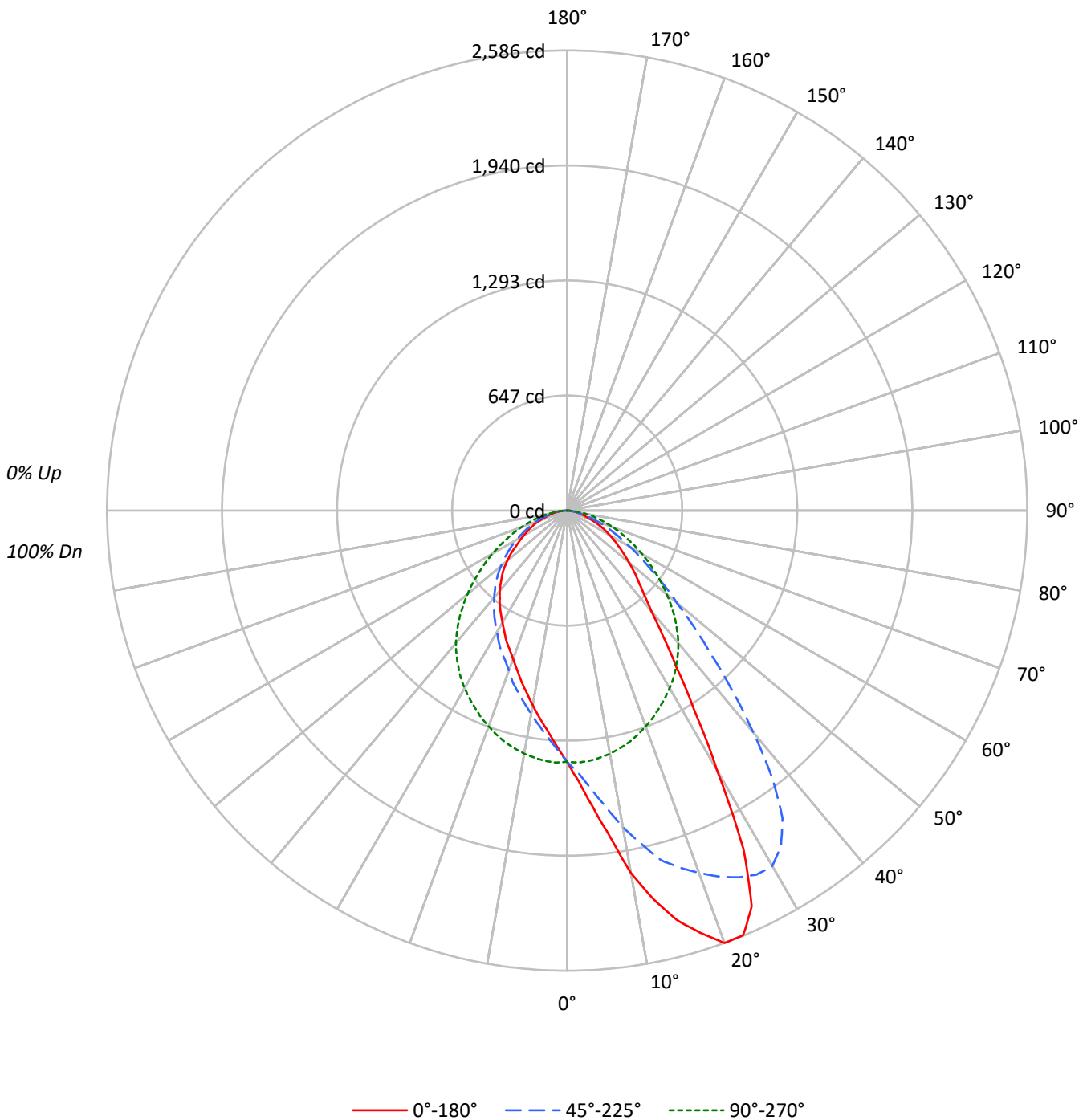
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3514.3 lumens  
Efficiency: N/A  
Efficacy: 85.5 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): 41.1  
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

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### 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31

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

	0°	45°	90°	135°	180°
0°	17108	17108	17108	17108	17108
5°	20393	19129	17181	15511	15129
10°	25462	22220	17081	14292	13668
15°	29888	25521	16907	13290	12465
20°	33356	27947	16646	12352	11440
25°	32823	30414	16371	11701	10812
30°	23594	32270	16118	11028	10164
35°	15753	31219	15789	10567	9745
40°	11606	25736	15391	10105	9312
45°	9735	19636	14696	9673	8886
50°	8591	15142	13787	9150	8293
55°	7534	12079	12743	8605	7481
60°	6708	9857	11748	7910	6856
65°	5891	8074	10675	7297	6376
70°	4625	6489	9721	6702	5823
75°	4074	4782	8491	6055	5320
80°	3546	4090	7211	5312	5228
85°	2851	3115	5799	5382	5549

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 60°  
 Vertical Angle: 45°  
 Luminance: 27633 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.6	3.9
10°-20°	433.9	12.3
20°-30°	683.4	19.4
30°-40°	710.6	20.2
40°-50°	608.0	17.3
50°-60°	463.4	13.2
60°-70°	296.9	8.4
70°-80°	142.2	4.0
80°-90°	37.4	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°	1255.8	35.7
0°-40°	1966.5	56.0
0°-60°	3037.8	86.4
0°-90°	3514.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3514.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1411	1411	1411	1411	1411	
5°	1676	1572	1412	1275	1243	172
15°	2382	2034	1347	1059	993	676
25°	2454	2274	1224	875	808	1066
35°	1065	2110	1067	714	659	692
45°	568	1146	857	564	518	445
55°	356	572	603	407	354	322
65°	205	282	372	254	222	202
75°	87	102	181	129	114	93
85°	20	22	42	39	40	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1411.4	1411.4	1411.4	1411.4	1411.4	1411.4	1411.4	1411.4	1411.4	1411.4	1411.4
2.5°	1526.2	1528.6	1520.7	1519.5	1510.5	1508.0	1508.0	1495.3	1487.5	1477.2	1471.2
5°	1676.0	1685.7	1680.8	1670.0	1651.8	1647.6	1636.1	1618.0	1597.5	1572.1	1560.0
7.5°	1847.6	1867.5	1863.9	1847.0	1827.6	1815.6	1783.5	1757.6	1718.3	1682.6	1654.9
10°	2068.7	2054.8	2043.9	2027.6	2010.1	1981.7	1947.9	1901.4	1847.6	1805.3	1758.2
12.5°	2234.3	2234.9	2220.4	2203.4	2176.9	2150.3	2106.8	2047.6	1982.9	1917.1	1861.5
15°	2381.7	2385.3	2376.2	2358.7	2323.7	2275.9	2213.1	2189.6	2100.1	2033.7	1967.2
17.5°	2486.8	2487.4	2485.6	2462.0	2424.0	2391.3	2332.7	2277.8	2193.2	2103.2	2014.3
20°	2585.9	2579.9	2581.1	2553.9	2527.3	2488.0	2431.2	2341.2	2274.7	2166.6	2074.2
22.5°	2583.5	2583.5	2588.9	2584.1	2566.6	2538.8	2497.1	2424.6	2335.2	2225.8	2118.9
25°	2454.2	2449.3	2477.7	2485.6	2516.4	2521.8	2508.6	2466.9	2386.5	2274.1	2145.4
27.5°	2146.0	2128.5	2187.7	2246.3	2324.3	2373.8	2424.6	2436.1	2398.0	2306.2	2171.4
30°	1685.7	1742.5	1769.0	1864.5	1970.8	2097.7	2208.9	2314.6	2340.6	2305.6	2199.8
32.5°	1328.0	1375.7	1396.9	1475.4	1572.7	1726.7	1907.4	2068.1	2193.8	2236.1	2182.9
35°	1064.6	1065.2	1115.9	1152.2	1244.0	1396.9	1558.8	1759.4	1958.8	2109.8	2125.5
37.5°	878.5	880.9	913.5	949.8	1023.5	1109.3	1259.7	1428.9	1668.7	1894.1	2011.3
40°	733.5	738.9	761.9	797.5	847.1	908.1	1019.3	1176.3	1368.5	1626.5	1837.3
42.5°	640.4	650.1	659.2	684.5	710.5	766.7	851.3	963.7	1134.0	1374.5	1625.8
45°	567.9	572.8	581.8	594.5	622.3	662.2	722.6	804.2	949.2	1145.5	1389.0
47.5°	512.3	509.3	519.6	530.5	549.2	578.2	620.5	691.2	799.9	964.3	1175.1
50°	455.6	454.9	461.6	469.4	487.0	506.9	540.1	590.3	672.5	803.0	992.1
52.5°	402.4	405.4	409.6	419.9	431.4	446.5	475.5	508.1	575.8	683.9	833.8
55°	356.5	358.3	364.9	370.4	379.4	395.7	414.5	444.7	493.0	571.6	701.5
57.5°	316.6	316.0	322.6	323.2	334.7	348.6	363.7	387.3	424.1	486.4	577.0
60°	276.7	274.9	280.3	284.6	290.0	300.9	313.0	335.9	363.7	406.6	481.5
62.5°	240.5	239.9	243.5	247.7	251.9	261.6	271.3	287.6	308.1	342.6	398.2
65°	205.4	207.2	209.0	210.9	213.3	219.3	229.0	241.1	256.2	281.5	324.4
67.5°	169.2	171.6	172.2	176.4	181.3	184.3	189.7	201.2	212.7	235.6	261.0
70°	130.5	129.9	130.5	132.3	139.0	145.6	153.5	161.3	168.0	183.1	203.6
72.5°	107.5	106.3	108.1	108.1	110.6	111.2	115.4	122.6	131.7	140.8	154.1
75°	87.0	87.0	87.0	87.0	89.4	90.6	92.4	94.3	97.3	102.1	113.0
77.5°	67.7	67.7	68.9	69.5	70.1	70.7	71.9	73.7	74.9	77.3	82.8
80°	50.8	51.4	50.8	51.4	51.4	52.6	53.2	55.0	55.6	58.6	60.4
82.5°	35.0	34.4	35.0	35.6	35.6	36.9	36.9	38.1	38.1	39.3	41.1
85°	20.5	19.3	20.5	19.9	21.1	19.9	20.5	21.8	21.8	22.4	24.8
87.5°	6.0	7.3	6.0	6.6	6.6	7.3	7.3	7.3	8.5	7.9	8.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1411.4	1411.4	1411.4	1411.4	1411.4	1411.4	1411.4	1411.4	1411.4	1411.4	1411.4
2.5°	1468.8	1467.0	1458.5	1448.8	1436.1	1427.7	1421.0	1417.4	1406.5	1393.2	1384.2
5°	1547.3	1529.2	1509.8	1486.3	1464.5	1442.2	1428.3	1412.0	1392.0	1369.7	1354.0
7.5°	1625.2	1593.8	1559.4	1523.7	1487.5	1455.5	1425.9	1401.7	1371.5	1340.7	1319.5
10°	1717.7	1665.7	1612.0	1557.0	1506.8	1459.7	1423.4	1387.8	1349.7	1312.9	1285.1
12.5°	1801.7	1729.2	1665.1	1594.4	1526.8	1468.2	1412.0	1368.5	1320.7	1280.9	1248.2
15°	1869.9	1799.9	1724.9	1622.2	1537.0	1465.7	1402.3	1347.3	1291.7	1243.4	1212.6
17.5°	1941.2	1834.9	1736.4	1656.7	1545.5	1459.1	1384.8	1320.7	1260.3	1210.8	1172.1
20°	1982.3	1880.2	1770.9	1661.5	1552.7	1453.1	1363.0	1290.5	1227.1	1169.1	1134.0
22.5°	2007.1	1888.1	1771.5	1651.8	1534.6	1430.1	1341.3	1259.7	1189.6	1135.3	1089.9
25°	2025.2	1887.5	1760.6	1644.6	1526.8	1414.4	1308.7	1224.1	1149.8	1091.1	1045.2
27.5°	2039.7	1880.2	1734.6	1608.3	1489.3	1375.1	1279.7	1189.0	1114.7	1053.7	1003.5
30°	2043.3	1871.1	1703.8	1564.2	1442.8	1340.1	1237.4	1151.6	1071.8	1006.0	960.0
32.5°	2048.2	1848.8	1662.1	1511.7	1386.6	1285.1	1194.5	1113.5	1031.3	966.7	919.6
35°	2031.3	1843.4	1619.8	1449.4	1325.0	1226.5	1142.5	1067.0	986.6	923.8	876.1
37.5°	1979.9	1813.7	1577.5	1379.9	1251.3	1160.6	1090.5	1021.7	947.4	878.5	834.4
40°	1893.5	1765.4	1526.8	1317.7	1181.8	1088.1	1026.5	972.7	901.4	838.0	789.7
42.5°	1764.8	1699.6	1478.4	1252.5	1103.2	1013.8	964.3	914.7	854.3	789.7	745.0
45°	1601.7	1612.0	1408.9	1182.4	1031.9	941.3	892.4	857.3	801.7	748.6	702.1
47.5°	1403.5	1489.3	1334.6	1108.7	954.6	869.4	826.5	794.5	755.8	700.8	658.0
50°	1210.2	1347.3	1241.6	1034.4	882.7	798.1	755.8	731.1	698.4	657.3	616.9
52.5°	1031.9	1181.8	1129.2	951.6	804.8	729.2	688.2	668.8	644.7	606.6	571.0
55°	870.6	1019.9	1005.4	868.2	726.8	657.3	625.9	603.0	585.5	556.5	527.4
57.5°	730.5	874.9	877.9	775.8	659.2	588.5	561.3	543.2	531.1	508.1	479.7
60°	599.3	729.2	754.6	682.1	585.5	525.0	498.4	484.6	475.5	458.0	437.4
62.5°	490.6	596.3	625.9	578.8	514.8	459.2	439.8	426.6	421.1	406.6	389.1
65°	392.1	483.9	511.7	482.7	445.9	400.6	383.7	372.2	366.7	358.3	345.0
67.5°	309.3	380.6	410.8	386.7	372.8	340.8	329.3	322.6	317.8	311.8	300.3
70°	236.8	286.4	317.8	312.4	301.5	286.4	278.5	274.3	269.5	264.6	255.0
72.5°	178.8	209.0	238.0	242.9	234.4	234.4	227.8	226.6	224.2	218.1	213.9
75°	126.3	149.8	170.4	178.2	181.9	184.9	181.9	181.3	180.6	175.8	172.8
77.5°	87.6	102.7	116.6	130.5	135.3	139.6	140.2	142.6	140.8	137.8	136.5
80°	63.4	66.5	75.5	87.0	96.1	99.7	102.1	103.3	102.7	102.1	99.7
82.5°	41.7	44.1	47.1	54.4	61.6	68.3	69.5	68.9	70.7	71.3	69.5
85°	24.8	25.4	26.6	27.8	32.0	38.7	40.5	41.7	42.9	42.9	39.3
87.5°	9.7	9.1	10.3	10.3	12.1	12.7	16.3	19.3	19.9	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1411.4	1411.4	1411.4	1411.4	1411.4	1411.4	1411.4	1411.4	1411.4	1411.4	1411.4
2.5°	1381.2	1373.3	1367.9	1355.8	1347.9	1339.5	1331.0	1336.4	1335.8	1335.2	1335.2
5°	1340.7	1326.8	1314.1	1297.8	1287.5	1274.8	1265.2	1263.9	1266.4	1257.9	1253.1
7.5°	1302.6	1284.5	1266.4	1249.4	1230.7	1216.2	1207.2	1203.5	1196.9	1191.4	1186.6
10°	1262.1	1239.8	1222.3	1199.9	1179.4	1161.2	1149.8	1141.9	1137.7	1133.4	1125.6
12.5°	1220.4	1198.7	1175.1	1149.2	1129.8	1108.1	1100.2	1091.1	1082.1	1077.3	1065.8
15°	1180.0	1151.6	1128.0	1101.4	1079.7	1059.1	1047.0	1029.5	1027.1	1021.1	1010.2
17.5°	1140.7	1109.3	1074.8	1056.7	1035.0	1013.2	993.9	988.4	970.3	964.3	954.0
20°	1092.4	1064.0	1039.2	1013.2	977.6	957.6	943.1	935.3	921.4	912.9	906.9
22.5°	1050.7	1021.7	992.1	960.6	932.9	909.9	900.2	886.9	880.9	868.2	861.6
25°	1011.4	980.0	945.5	912.9	891.8	874.9	857.9	847.1	836.2	830.7	818.7
27.5°	963.7	932.3	899.0	873.6	849.5	832.6	816.2	807.2	793.3	784.2	777.6
30°	925.6	886.9	859.1	836.8	803.6	787.9	776.4	764.3	754.6	745.0	738.3
32.5°	881.5	847.1	821.1	792.1	768.5	751.0	735.3	725.0	717.2	708.1	701.5
35°	835.0	805.4	778.2	750.4	731.7	714.1	696.6	687.6	679.7	671.2	665.2
37.5°	792.7	764.9	739.5	712.9	690.0	674.9	660.4	654.3	643.5	637.4	631.4
40°	754.0	726.8	699.0	673.7	649.5	638.6	625.9	615.7	606.0	601.8	595.1
42.5°	711.7	684.5	662.2	634.4	615.7	600.0	588.5	577.0	570.3	563.7	560.7
45°	670.0	645.9	622.9	595.7	577.0	564.3	551.0	540.7	534.1	529.9	523.2
47.5°	630.2	605.4	582.4	558.3	540.1	525.6	511.7	505.1	496.0	491.2	486.4
50°	586.1	564.3	539.5	517.8	499.7	485.2	474.3	465.2	457.4	450.7	447.7
52.5°	545.6	522.0	501.5	481.5	462.2	445.3	435.6	425.9	420.5	412.7	409.0
55°	500.3	477.9	459.8	439.8	421.1	407.2	395.1	386.7	380.6	372.2	367.3
57.5°	458.6	439.2	416.9	399.4	379.4	368.6	358.3	346.2	338.9	332.3	327.5
60°	416.3	393.3	374.6	358.3	341.4	326.3	317.2	308.1	300.3	293.6	289.4
62.5°	372.2	352.8	335.3	317.2	302.1	289.4	278.5	271.3	264.6	261.0	256.8
65°	326.9	311.2	293.0	278.5	264.0	254.4	245.9	239.3	234.4	231.4	227.8
67.5°	285.2	270.1	253.8	238.7	229.0	221.1	215.1	209.0	206.6	203.0	200.6
70°	244.7	229.0	215.1	204.2	194.5	189.1	185.5	181.3	178.8	174.0	171.6
72.5°	200.6	190.3	181.3	172.8	165.5	160.7	155.9	150.4	146.2	140.8	138.4
75°	164.9	154.7	146.8	140.8	135.9	129.3	122.6	117.2	115.4	113.6	113.0
77.5°	128.7	122.0	116.0	111.2	104.5	98.5	96.7	95.5	94.9	93.6	93.6
80°	96.1	90.0	85.8	79.8	76.1	76.1	76.1	74.9	75.5	75.5	75.5
82.5°	65.3	59.8	58.0	56.8	56.8	57.4	57.4	58.0	57.4	58.6	58.0
85°	36.9	37.5	38.7	38.1	38.7	38.7	39.9	39.3	39.9	38.7	39.9
87.5°	16.9	18.7	19.3	19.9	20.5	19.9	20.5	20.5	21.1	21.1	21.1
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: P242583

CATALOG NUMBER: S123RDRP-S1165D930-X4F0-XX-UDD-A-W

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1411.4	1411.4	1411.4	1411.4
2.5°	1328.0	1327.4	1328.0	1325.6
5°	1251.3	1250.7	1248.8	1243.4
7.5°	1181.8	1180.6	1175.7	1176.9
10°	1121.4	1122.0	1114.7	1110.5
12.5°	1062.8	1059.1	1053.7	1048.9
15°	1012.6	1006.6	992.1	993.3
17.5°	950.4	945.5	944.9	936.5
20°	897.2	894.2	895.4	886.9
22.5°	855.5	852.5	845.9	844.6
25°	815.0	810.2	805.4	808.4
27.5°	774.0	770.3	764.9	764.9
30°	735.3	731.7	729.2	726.2
32.5°	696.0	696.0	691.2	691.2
35°	662.8	659.2	658.0	658.6
37.5°	630.8	625.9	623.5	621.1
40°	595.7	590.9	589.7	588.5
42.5°	556.5	555.2	554.6	552.2
45°	521.4	520.8	517.2	518.4
47.5°	483.9	480.9	479.1	480.9
50°	445.3	444.1	438.6	439.8
52.5°	406.6	401.2	400.0	398.8
55°	363.1	357.7	355.3	354.0
57.5°	320.2	318.4	316.0	317.8
60°	283.4	283.4	283.4	282.8
62.5°	255.0	253.2	252.5	253.8
65°	226.0	225.4	222.9	222.3
67.5°	199.4	197.0	197.0	195.8
70°	168.6	167.4	163.7	164.3
72.5°	135.3	134.1	134.1	132.9
75°	112.4	111.8	111.2	113.6
77.5°	93.6	93.6	94.3	93.0
80°	75.5	75.5	74.9	74.9
82.5°	56.8	57.4	58.0	56.8
85°	39.9	39.3	40.5	39.9
87.5°	22.4	21.1	21.1	21.8
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P242583  
 CATALOG NUMBER: S123RDRP-S1165D930-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	17.50	19.00	17.87	19.31	19.62	20.90	22.39	21.27	22.71	23.02
	3H	18.60	19.93	18.97	20.26	20.62	22.31	23.65	22.69	23.97	24.34
	4H	18.93	20.18	19.33	20.53	20.91	22.81	24.06	23.21	24.41	24.79
	6H	19.18	20.33	19.59	20.70	21.09	23.16	24.32	23.57	24.68	25.08
	8H	19.25	20.35	19.68	20.74	21.14	23.26	24.36	23.69	24.75	25.15
	12H	19.28	20.34	19.72	20.72	21.15	23.32	24.38	23.75	24.76	25.19
4H	2H	18.48	19.73	18.88	20.08	20.46	21.14	22.39	21.54	22.74	23.12
	3H	19.65	20.69	20.06	21.09	21.49	22.83	23.87	23.24	24.27	24.67
	4H	20.04	20.97	20.47	21.39	21.83	23.45	24.38	23.88	24.79	25.23
	6H	20.35	21.16	20.81	21.60	22.06	23.91	24.72	24.37	25.16	25.63
	8H	20.44	21.20	20.90	21.64	22.11	24.05	24.81	24.52	25.26	25.72
	12H	20.50	21.17	20.98	21.65	22.12	24.15	24.83	24.64	25.31	25.78
8H	4H	20.40	21.16	20.87	21.61	22.07	23.50	24.25	23.96	24.70	25.17
	6H	20.78	21.40	21.28	21.90	22.37	24.03	24.66	24.53	25.15	25.63
	8H	20.91	21.47	21.43	21.98	22.47	24.23	24.79	24.74	25.30	25.79
	12H	21.01	21.51	21.52	22.00	22.56	24.38	24.88	24.89	25.37	25.94
12H	4H	20.44	21.11	20.92	21.59	22.06	23.48	24.16	23.97	24.64	25.11
	6H	20.82	21.38	21.34	21.89	22.38	24.02	24.58	24.54	25.09	25.58
	8H	21.00	21.49	21.51	21.99	22.55	24.25	24.75	24.76	25.24	25.81