

LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P832446

Luminaire Tested: S123RDP-S1000D935-4F0-1E-UDD-G

Issue Date: 05/03/2024

Tested By:

Approved By:



NVLAP Lab Code: 200050-0

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Test Information

Test Method: LM-79-2019
 Report Number: P832446
 Test Lab: INNOVATION CENTER
 Issue Date: 05/03/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: NEO-RAY
 Catalog Number: S123RDP-S1000D935-4F0-1E-UDD-G
 Description: DEFINE 3 DIRECT PENDANT LED LUMINAIRE
 DOWNLIGHT 1000 LUMENS PER FOOT, GRAZE OPTIC

Light Source: -
 Ballast/Driver: -

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 3704.4 lumens
 Efficiency: N/A
 Efficacy: 105.5 lumens/watt
 Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8
 Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
 CIE Type: Direct

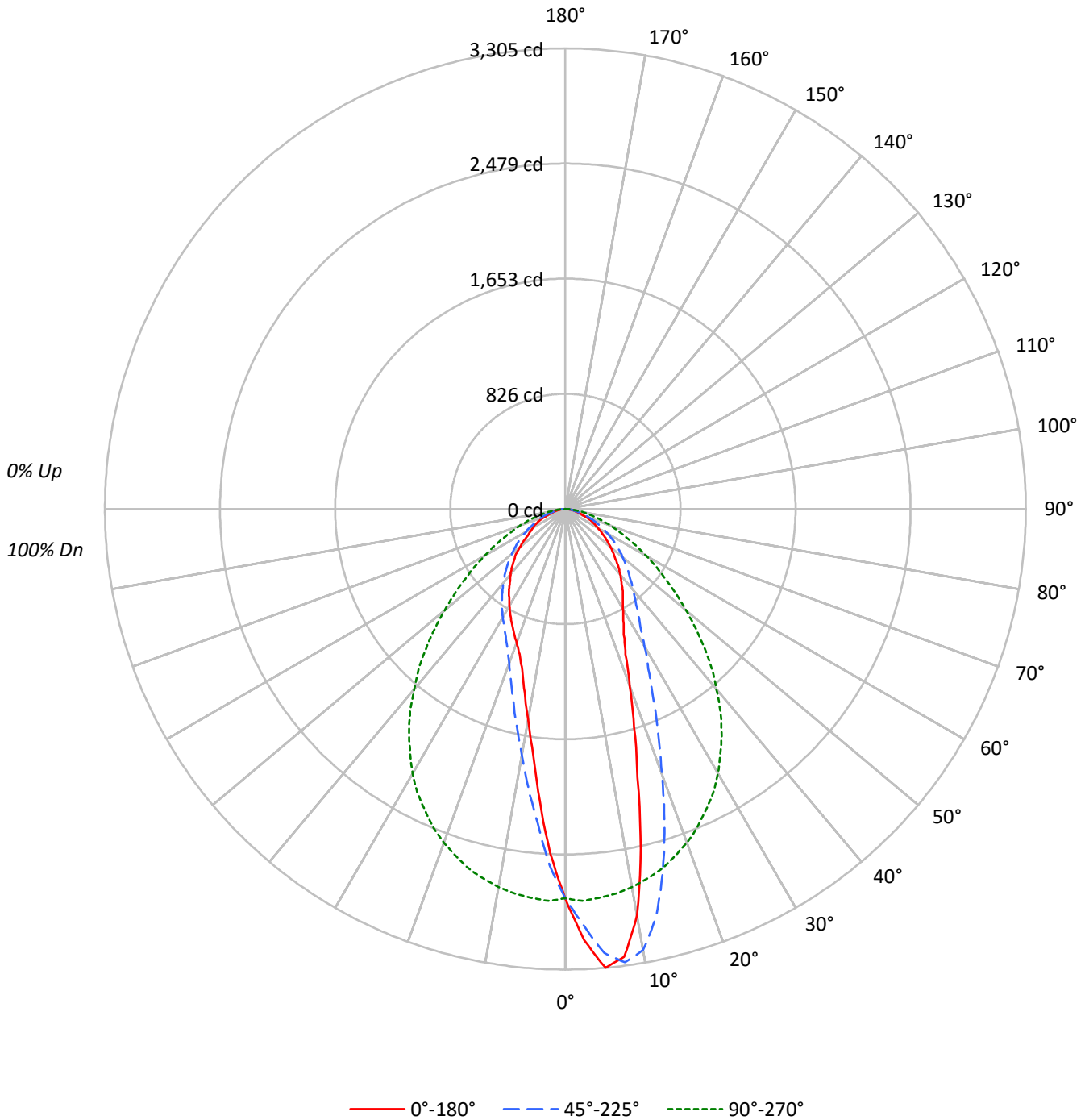
Input Watts (W): 35.1
 Input Voltage (V): 120
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 24 FT

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	P3	10/30/2015	4/30/2016
Power Meter	IN0214	1/12/2016	1/12/2017
AC Power Source	IN0062	1/12/2016	1/12/2017
DC Power Supply	--	--	--
Room Thermometer	IN0145	1/13/2016	1/13/2017

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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	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				
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87				
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76				
3	94	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67				
4	88	77	69	64	85	76	69	63	73	67	62	71	66	62	69	65	61	59				
5	82	70	62	56	80	69	62	56	67	61	56	65	60	55	63	58	54	53				
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43				
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	51	45	41	39				
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36				
10	60	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	30074	30074	30074	30074	30074
5°	35710	34571	30263	24464	22713
10°	32354	35114	30112	19601	16816
15°	22276	30107	29795	16020	13301
20°	15497	23180	29196	13509	11692
25°	11809	17667	28326	12006	10776
30°	10280	14124	27237	11149	9981
35°	9437	11914	25695	10424	9257
40°	8612	10640	23678	9714	8595
45°	7777	9730	21500	9042	7934
50°	7060	8977	18933	8383	7117
55°	6384	8244	16467	7739	6105
60°	5722	7496	14303	7029	5772
65°	5280	6653	12312	6316	5456
70°	4290	5750	10744	5715	4434
75°	3764	4575	9100	4741	3905
80°	3409	3868	7457	3973	3694
85°	3112	3396	5656	3606	3396

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 22686 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.7	6.9
10°-20°	589.3	15.9
20°-30°	676.1	18.3
30°-40°	666.4	18.0
40°-50°	587.7	15.9
50°-60°	452.1	12.2
60°-70°	297.3	8.0
70°-80°	144.4	3.9
80°-90°	36.4	1.0
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°	1520.1	41.0
0°-40°	2186.5	59.0
0°-60°	3226.4	87.1
0°-90°	3704.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3704.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2794	2794	2794	2794	2794	
5°	3305	3200	2801	2264	2102	302
15°	1999	2702	2674	1438	1194	564
25°	994	1488	2385	1011	907	470
35°	718	907	1955	793	704	448
45°	511	639	1412	594	521	397
55°	340	439	878	412	325	305
65°	207	261	483	248	214	203
75°	90	110	219	114	94	97
85°	25	28	46	29	28	28
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°	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0
2.5°	3096.4	3086.6	3076.9	3074.0	3071.2	3062.0	3052.8	3032.2	3011.6	2990.4	2969.2
5°	3304.9	3306.0	3307.2	3304.3	3301.4	3289.4	3277.4	3252.2	3227.0	3199.5	3172.0
7.5°	3240.7	3259.0	3277.4	3280.8	3284.2	3293.4	3302.6	3296.8	3291.1	3280.8	3270.5
10°	2960.1	2958.9	2957.8	2978.4	2999.0	3060.3	3121.6	3153.1	3184.6	3212.6	3240.7
12.5°	2501.8	2503.6	2505.3	2572.9	2640.5	2698.3	2756.2	2836.3	2916.5	3003.0	3089.5
15°	1999.0	2027.0	2055.1	2115.2	2175.4	2262.4	2349.5	2457.2	2564.8	2701.7	2838.6
17.5°	1641.5	1653.6	1665.6	1723.5	1781.3	1863.8	1946.3	2068.3	2190.3	2366.7	2543.1
20°	1352.9	1363.8	1374.6	1416.5	1458.3	1537.3	1616.3	1732.6	1848.9	2023.6	2198.3
22.5°	1129.5	1150.7	1171.9	1199.9	1228.0	1285.3	1342.6	1461.1	1579.7	1738.9	1898.1
25°	994.3	1004.1	1013.8	1037.9	1061.9	1116.9	1171.9	1250.3	1328.8	1487.5	1646.1
27.5°	902.7	905.5	908.4	926.2	943.9	979.4	1014.9	1087.7	1160.4	1291.0	1421.6
30°	827.1	832.2	837.4	851.1	864.9	890.7	916.4	968.0	1019.5	1136.4	1253.2
32.5°	768.7	771.5	774.4	785.8	797.3	816.2	835.1	875.8	916.4	1005.8	1095.1
35°	718.2	718.8	719.4	728.0	736.6	754.9	773.2	807.0	840.8	906.7	972.6
37.5°	661.0	665.0	669.0	675.3	681.6	697.6	713.7	741.2	768.7	823.1	877.5
40°	612.9	616.3	619.7	627.2	634.6	647.2	659.8	685.0	710.2	757.2	804.2
42.5°	564.7	567.0	569.3	576.8	584.2	599.7	615.2	635.2	655.2	694.2	733.1
45°	510.9	516.6	522.4	530.4	538.4	551.6	564.7	585.4	606.0	639.2	672.4
47.5°	466.2	469.1	472.0	478.8	485.7	501.7	517.8	536.1	554.4	585.4	616.3
50°	421.6	422.7	423.8	430.1	436.4	450.8	465.1	486.3	507.5	536.1	564.7
52.5°	379.2	382.0	384.9	391.2	397.5	407.2	417.0	438.7	460.5	488.6	516.6
55°	340.2	341.9	343.7	348.2	352.8	364.3	375.7	394.6	413.5	439.3	465.1
57.5°	303.6	305.9	308.1	311.6	315.0	325.3	335.6	352.3	368.9	394.6	420.4
60°	265.8	268.6	271.5	275.5	279.5	287.5	295.5	310.4	325.3	348.2	371.2
62.5°	238.3	238.8	239.4	242.9	246.3	252.0	257.7	269.8	281.8	304.7	327.6
65°	207.3	209.1	210.8	212.5	214.2	218.8	223.4	233.7	244.0	261.2	278.4
67.5°	175.3	177.0	178.7	181.6	184.4	188.4	192.4	199.3	206.2	222.2	238.3
70°	136.3	136.3	136.3	140.9	145.5	152.4	159.2	164.4	169.5	182.7	195.9
72.5°	111.1	111.7	112.3	112.8	113.4	117.4	121.4	130.0	138.6	146.6	154.6
75°	90.5	91.1	91.6	92.2	92.8	93.9	95.1	97.9	100.8	110.0	119.1
77.5°	72.2	72.7	73.3	73.9	74.5	75.6	76.8	77.9	79.0	82.5	85.9
80°	55.0	55.6	56.1	56.7	57.3	57.8	58.4	59.6	60.7	62.4	64.1
82.5°	40.1	40.1	40.1	40.1	40.1	41.2	42.4	42.4	42.4	43.5	44.7
85°	25.2	25.2	25.2	25.8	26.3	26.3	26.3	26.9	27.5	27.5	27.5
87.5°	11.5	10.9	10.3	10.9	11.5	11.5	11.5	12.0	12.6	12.6	12.6
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°	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0
2.5°	2966.4	2963.5	2936.0	2908.5	2881.6	2854.7	2834.6	2814.6	2780.8	2747.0	2725.8
5°	3150.2	3128.5	3084.9	3041.4	2976.1	2910.8	2855.8	2800.8	2731.0	2661.1	2602.7
7.5°	3252.7	3235.0	3182.3	3129.6	3043.1	2956.6	2870.7	2784.8	2681.7	2578.6	2490.4
10°	3255.6	3270.5	3227.0	3183.4	3086.1	2988.7	2871.9	2755.0	2616.4	2477.8	2363.8
12.5°	3153.7	3217.8	3208.6	3199.5	3100.4	3001.3	2859.3	2717.2	2547.1	2377.0	2234.4
15°	2962.9	3087.2	3123.9	3160.5	3078.6	2996.7	2835.2	2673.7	2473.8	2273.9	2110.1
17.5°	2717.2	2891.3	2988.1	3084.9	3025.4	2965.8	2788.8	2611.8	2386.7	2161.6	1983.5
20°	2426.2	2654.2	2806.0	2957.8	2936.0	2914.2	2731.5	2548.8	2306.0	2063.1	1870.1
22.5°	2138.7	2379.3	2588.9	2798.5	2820.9	2843.2	2658.8	2474.4	2208.6	1942.8	1746.4
25°	1890.7	2135.3	2385.0	2634.7	2685.1	2735.5	2560.3	2385.0	2109.5	1834.0	1638.7
27.5°	1654.2	1886.7	2161.6	2436.5	2528.2	2619.8	2459.5	2299.1	2012.1	1725.2	1530.4
30°	1461.1	1669.0	1949.7	2230.4	2358.1	2485.8	2338.6	2191.4	1906.7	1622.1	1431.3
32.5°	1281.3	1467.4	1749.2	2031.0	2179.4	2327.7	2200.6	2073.4	1799.6	1525.9	1337.4
35°	1139.2	1305.9	1568.8	1831.7	1997.8	2163.9	2059.7	1955.4	1687.9	1420.5	1242.3
37.5°	1017.2	1157.0	1403.9	1650.7	1827.1	2003.5	1916.5	1829.4	1578.0	1326.5	1158.1
40°	916.4	1028.7	1258.4	1488.0	1661.0	1834.0	1759.5	1685.1	1460.0	1234.9	1077.4
42.5°	829.9	926.7	1132.9	1339.1	1497.8	1656.4	1607.2	1557.9	1354.0	1150.1	1004.1
45°	753.8	835.1	1016.7	1198.2	1344.3	1490.3	1451.4	1412.4	1236.6	1060.8	926.7
47.5°	686.2	756.1	918.1	1080.2	1211.4	1342.6	1306.5	1270.4	1124.9	979.4	857.4
50°	624.3	683.9	819.1	954.2	1072.2	1190.2	1160.4	1130.6	1010.4	890.1	784.7
52.5°	565.9	615.2	736.6	858.0	953.1	1048.2	1025.3	1002.3	909.6	816.8	721.1
55°	510.3	555.6	658.1	760.6	842.0	923.3	900.4	877.5	805.3	733.1	648.9
57.5°	459.9	499.5	582.5	665.6	730.3	795.0	784.1	773.2	713.1	653.0	583.6
60°	406.7	442.2	513.8	585.4	637.5	689.6	677.0	664.4	621.5	578.5	518.9
62.5°	359.1	390.6	447.9	505.2	547.6	589.9	580.8	571.6	539.0	506.3	457.1
65°	309.3	340.2	386.6	433.0	466.2	499.5	491.4	483.4	458.8	434.2	394.6
67.5°	264.0	289.8	329.9	370.0	392.3	414.7	410.1	405.5	386.6	367.7	336.8
70°	218.2	240.6	273.8	307.0	322.5	337.9	339.7	341.4	324.2	307.0	284.1
72.5°	172.4	190.2	221.1	252.0	264.0	276.1	275.5	274.9	264.6	254.3	233.7
75°	132.3	145.5	169.5	193.6	203.9	214.2	216.5	218.8	209.1	199.3	187.9
77.5°	95.1	104.2	122.6	140.9	152.4	163.8	165.0	166.1	161.5	156.9	146.1
80°	67.0	69.9	81.3	92.8	104.8	116.8	118.6	120.3	115.7	111.1	104.2
82.5°	46.4	48.1	52.1	56.1	65.9	75.6	77.9	80.2	77.9	75.6	68.2
85°	28.1	28.6	30.4	32.1	36.7	41.2	43.5	45.8	44.7	43.5	39.5
87.5°	12.6	12.6	13.2	13.7	14.9	16.0	18.9	21.8	20.0	18.3	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

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0
2.5°	2704.6	2672.0	2639.3	2615.8	2592.3	2563.1	2533.9	2532.8	2531.6	2509.9	2488.1
5°	2544.2	2487.5	2430.8	2375.3	2319.7	2264.1	2208.6	2196.0	2183.4	2164.5	2145.6
7.5°	2402.2	2311.7	2221.2	2150.2	2079.1	2023.6	1968.0	1930.2	1892.4	1863.2	1834.0
10°	2249.8	2137.6	2025.3	1939.4	1853.5	1793.3	1733.2	1689.7	1646.1	1625.5	1604.9
12.5°	2091.7	1969.7	1847.7	1763.5	1679.4	1607.2	1535.0	1495.5	1456.0	1427.3	1398.7
15°	1946.3	1815.1	1683.9	1594.6	1505.2	1437.6	1370.1	1330.5	1291.0	1262.4	1233.7
17.5°	1805.4	1673.1	1540.7	1450.2	1359.7	1298.5	1237.2	1198.8	1160.4	1142.7	1124.9
20°	1677.1	1543.6	1410.2	1324.8	1239.5	1179.3	1119.2	1098.6	1077.9	1061.3	1044.7
22.5°	1549.9	1421.6	1293.3	1211.4	1129.5	1086.0	1042.4	1025.8	1009.2	996.6	984.0
25°	1443.4	1315.6	1187.9	1116.3	1044.7	1010.9	977.1	966.3	955.4	942.8	930.2
27.5°	1335.7	1214.3	1092.8	1035.6	978.3	950.8	923.3	909.6	895.8	885.5	875.2
30°	1240.6	1128.4	1016.1	968.5	921.0	897.0	872.9	858.0	843.1	833.4	823.6
32.5°	1149.0	1049.3	949.6	909.0	868.3	844.8	821.3	807.0	792.7	781.3	769.8
35°	1064.2	977.7	891.2	854.0	816.8	793.3	769.8	755.5	741.2	729.7	718.2
37.5°	989.7	911.3	832.8	797.9	762.9	742.3	721.7	706.8	691.9	679.9	667.8
40°	919.9	850.6	781.3	747.5	713.7	691.3	669.0	655.8	642.6	631.8	620.9
42.5°	858.0	794.4	730.9	697.6	664.4	643.2	622.0	606.6	591.1	584.8	578.5
45°	792.7	736.6	680.4	648.4	616.3	594.0	571.6	558.4	545.3	539.5	533.8
47.5°	735.4	683.3	631.2	599.7	568.2	548.1	528.1	517.8	507.5	499.5	491.4
50°	679.3	628.9	578.5	548.1	517.8	500.6	483.4	470.8	458.2	452.5	446.8
52.5°	625.5	579.6	533.8	502.9	472.0	455.3	438.7	427.9	417.0	404.9	392.9
55°	564.7	524.7	484.6	457.1	429.6	412.4	395.2	382.6	370.0	357.4	344.8
57.5°	514.3	474.8	435.3	410.7	386.0	369.4	352.8	339.1	325.3	315.0	304.7
60°	459.4	425.0	390.6	366.6	342.5	326.5	310.4	297.3	284.1	278.9	273.8
62.5°	407.8	375.7	343.7	322.5	301.3	285.8	270.3	261.8	253.2	249.7	246.3
65°	355.1	327.6	300.1	280.7	261.2	248.0	234.8	230.8	226.8	224.0	221.1
67.5°	305.9	282.4	258.9	241.7	224.5	215.4	206.2	201.6	197.0	193.6	190.2
70°	261.2	240.6	219.9	205.1	190.2	181.6	173.0	169.0	165.0	158.7	152.4
72.5°	213.1	197.0	181.0	169.5	158.1	150.6	143.2	135.2	127.2	121.4	115.7
75°	176.4	160.4	144.3	133.5	122.6	114.0	105.4	102.5	99.7	97.9	96.2
77.5°	135.2	121.4	107.7	99.1	90.5	86.5	82.5	80.8	79.0	78.5	77.9
80°	97.4	85.9	74.5	69.9	65.3	64.1	63.0	61.9	60.7	60.1	59.6
82.5°	60.7	55.0	49.3	48.1	47.0	46.4	45.8	45.2	44.7	44.1	43.5
85°	35.5	33.2	30.9	30.4	29.8	29.2	28.6	28.6	28.6	28.6	28.6
87.5°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.3	13.7
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: P832446

CATALOG NUMBER: S123RDP-S1000D935-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2794.0	2794.0	2794.0	2794.0
2.5°	2482.4	2476.6	2474.4	2472.1
5°	2127.8	2110.1	2106.1	2102.1
7.5°	1826.6	1819.1	1794.5	1769.8
10°	1582.0	1559.1	1548.8	1538.5
12.5°	1377.5	1356.3	1352.9	1349.4
15°	1218.8	1204.0	1198.8	1193.6
17.5°	1114.6	1104.3	1098.0	1091.7
20°	1037.3	1029.8	1025.3	1020.7
22.5°	978.3	972.6	969.1	965.7
25°	921.6	913.0	910.1	907.3
27.5°	867.7	860.3	857.4	854.6
30°	817.3	811.0	807.0	803.0
32.5°	762.4	754.9	752.6	750.3
35°	713.7	709.1	706.8	704.5
37.5°	662.1	656.4	653.0	649.5
40°	618.0	615.2	613.4	611.7
42.5°	573.3	568.2	567.6	567.0
45°	528.7	523.5	522.4	521.2
47.5°	486.9	482.3	481.7	481.1
50°	440.5	434.2	429.6	425.0
52.5°	387.2	381.5	377.5	373.4
55°	338.5	332.2	328.8	325.3
57.5°	301.8	299.0	297.3	295.5
60°	272.1	270.3	269.2	268.1
62.5°	244.6	242.9	242.9	242.9
65°	219.4	217.7	215.9	214.2
67.5°	186.7	183.3	182.7	182.1
70°	147.2	142.0	141.5	140.9
72.5°	115.1	114.6	113.4	112.3
75°	95.1	93.9	93.9	93.9
77.5°	76.8	75.6	75.6	75.6
80°	59.0	58.4	59.0	59.6
82.5°	43.5	43.5	43.0	42.4
85°	28.1	27.5	27.5	27.5
87.5°	13.7	13.7	13.7	13.7
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P832446

CATALOG NUMBER: S123RDP-S1000D935-4F0-1E-UDD-G

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	16.53	17.99	16.90	18.30	18.61	21.19	22.65	21.56	22.96	23.28
	3H	17.79	19.10	18.17	19.42	19.79	22.74	24.04	23.11	24.37	24.73
	4H	18.20	19.42	18.60	19.77	20.15	23.25	24.47	23.65	24.82	25.20
	6H	18.51	19.64	18.93	20.01	20.40	23.59	24.72	24.01	25.09	25.48
	8H	18.62	19.69	19.04	20.08	20.48	23.69	24.76	24.12	25.15	25.55
	12H	18.69	19.71	19.12	20.09	20.52	23.74	24.76	24.17	25.14	25.57
4H	2H	17.32	18.54	17.72	18.89	19.27	21.26	22.48	21.66	22.83	23.21
	3H	18.74	19.75	19.15	20.15	20.56	22.97	23.98	23.38	24.38	24.78
	4H	19.22	20.13	19.65	20.54	20.98	23.60	24.50	24.03	24.92	25.36
	6H	19.62	20.40	20.08	20.85	21.31	24.06	24.85	24.52	25.30	25.76
	8H	19.75	20.49	20.22	20.93	21.40	24.21	24.94	24.67	25.39	25.85
	12H	19.86	20.51	20.34	20.99	21.46	24.29	24.95	24.78	25.43	25.90
8H	4H	19.57	20.31	20.04	20.75	21.22	23.60	24.34	24.07	24.78	25.25
	6H	20.06	20.66	20.56	21.16	21.63	24.12	24.72	24.62	25.22	25.70
	8H	20.25	20.79	20.77	21.31	21.79	24.31	24.85	24.82	25.36	25.85
	12H	20.42	20.90	20.93	21.39	21.96	24.45	24.93	24.96	25.42	25.99
12H	4H	19.61	20.27	20.10	20.75	21.22	23.58	24.24	24.06	24.72	25.19
	6H	20.12	20.66	20.63	21.17	21.66	24.09	24.64	24.61	25.15	25.64
	8H	20.36	20.84	20.87	21.33	21.90	24.32	24.79	24.83	25.29	25.85