

Scaled data based on original data using
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: P832441

Luminaire Tested: S123RDP-S1000D835-4F0-1E-UDD-G

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P832441
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2301-905-2, -)
Test Lab: INNOVATION CENTER
Issue Date: 05/03/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDP-S1000D835-4F0-1E-UDD-G
Description: DEFINE 3 DIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, GRAZE OPTIC

Light Source: -
Ballast/Driver: -

Summary

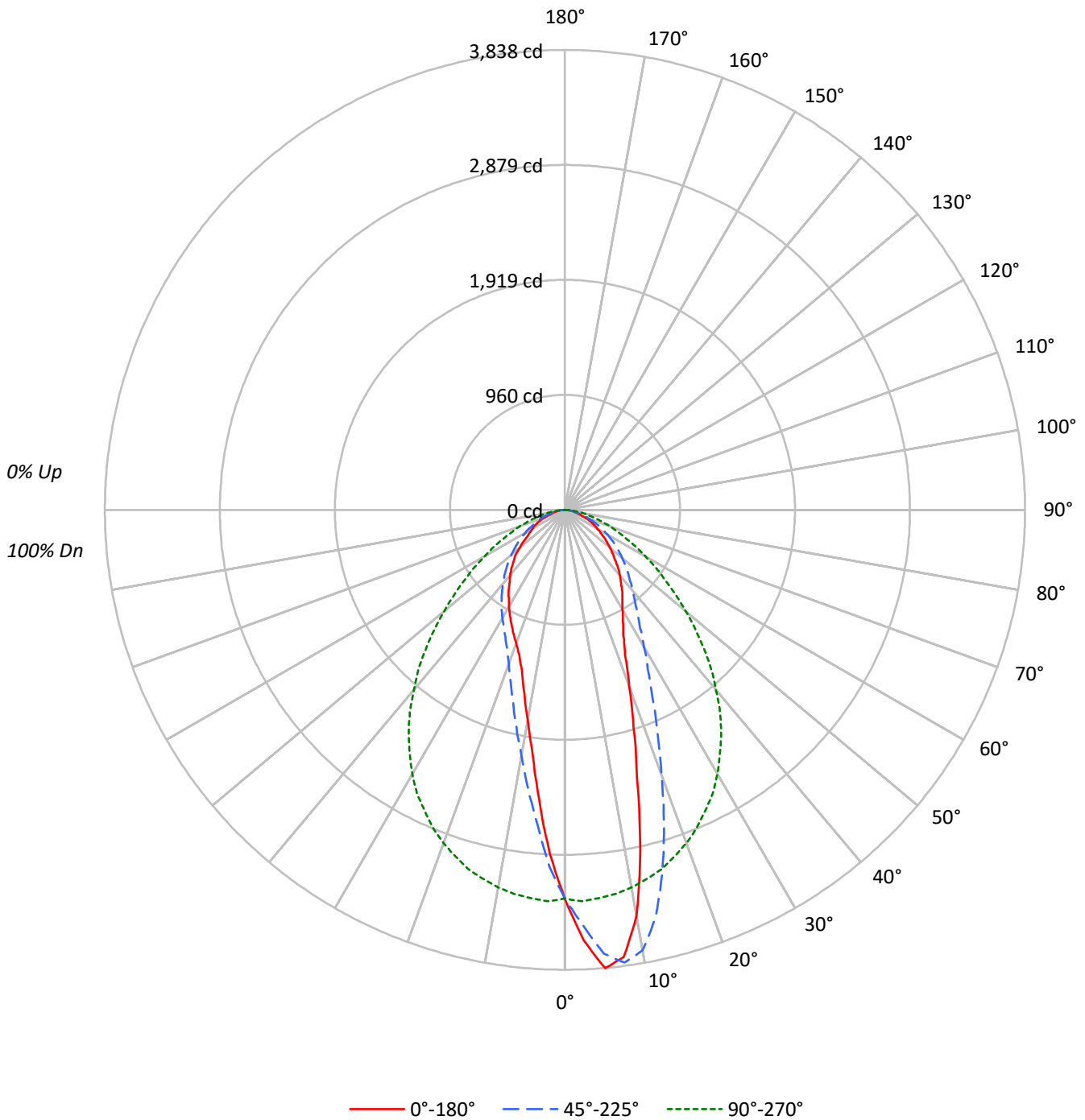
Lumens per Lamp: N/A
Luminaire Lumens: 4302.4 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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°	34929	34929	34929	34929	34929
5°	41474	40151	35149	28414	26379
10°	37576	40783	34974	22766	19530
15°	25872	34968	34604	18607	15450
20°	17999	26922	33909	15690	13580
25°	13715	20518	32898	13944	12514
30°	11939	16404	31635	12949	11593
35°	10962	13838	29843	12107	10751
40°	10002	12357	27500	11282	9983
45°	9033	11301	24972	10500	9216
50°	8199	10428	21990	9736	8266
55°	7416	9575	19125	8989	7092
60°	6646	8708	16613	8163	6702
65°	6133	7725	14301	7335	6337
70°	4982	6678	12478	6637	5149
75°	4371	5311	10568	5506	4537
80°	3961	4494	8660	4618	4289
85°	3619	3940	6570	4187	3940

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 26349 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.8	6.9
10°-20°	684.4	15.9
20°-30°	785.3	18.3
30°-40°	774.0	18.0
40°-50°	682.6	15.9
50°-60°	525.1	12.2
60°-70°	345.2	8.0
70°-80°	167.7	3.9
80°-90°	42.3	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°	1765.5	41.0
0°-40°	2539.5	59.0
0°-60°	3747.2	87.1
0°-90°	4302.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4302.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3245	3245	3245	3245	3245	
5°	3838	3716	3253	2630	2441	351
15°	2322	3138	3105	1670	1386	655
25°	1155	1728	2770	1174	1054	545
35°	834	1053	2271	921	818	520
45°	593	742	1640	690	605	461
55°	395	510	1019	479	378	354
65°	241	303	562	288	249	236
75°	105	128	254	132	109	113
85°	29	32	53	34	32	33
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°	3245.0	3245.0	3245.0	3245.0	3245.0	3245.0	3245.0	3245.0	3245.0	3245.0	3245.0
2.5°	3596.3	3585.0	3573.6	3570.3	3567.0	3556.4	3545.7	3521.8	3497.8	3473.2	3448.6
5°	3838.4	3839.7	3841.1	3837.7	3834.4	3820.4	3806.5	3777.2	3747.9	3716.0	3684.1
7.5°	3763.9	3785.2	3806.5	3810.5	3814.5	3825.1	3835.8	3829.1	3822.4	3810.5	3798.5
10°	3437.9	3436.6	3435.3	3459.2	3483.2	3554.4	3625.5	3662.1	3698.7	3731.3	3763.9
12.5°	2905.8	2907.7	2909.7	2988.2	3066.7	3133.9	3201.1	3294.2	3387.4	3487.8	3588.3
15°	2321.7	2354.3	2386.9	2456.7	2526.6	2627.7	2728.8	2853.9	2978.9	3137.9	3296.9
17.5°	1906.6	1920.5	1934.5	2001.7	2068.9	2164.7	2260.5	2402.2	2543.9	2748.8	2953.6
20°	1571.3	1583.9	1596.6	1645.1	1693.7	1785.5	1877.3	2012.3	2147.4	2350.3	2553.2
22.5°	1311.8	1336.5	1361.1	1393.7	1426.3	1492.8	1559.3	1697.0	1834.7	2019.7	2204.6
25°	1154.8	1166.2	1177.5	1205.4	1233.3	1297.2	1361.1	1452.2	1543.3	1727.6	1911.9
27.5°	1048.4	1051.7	1055.1	1075.7	1096.3	1137.6	1178.8	1263.3	1347.8	1499.4	1651.1
30°	960.6	966.6	972.6	988.5	1004.5	1034.4	1064.4	1124.2	1184.1	1319.8	1455.5
32.5°	892.7	896.1	899.4	912.7	926.0	948.0	969.9	1017.1	1064.4	1168.2	1271.9
35°	834.2	834.9	835.5	845.5	855.5	876.8	898.1	937.3	976.6	1053.1	1129.6
37.5°	767.7	772.3	777.0	784.3	791.6	810.3	828.9	860.8	892.7	955.9	1019.1
40°	711.8	715.8	719.8	728.4	737.1	751.7	766.4	795.6	824.9	879.4	934.0
42.5°	655.9	658.6	661.2	669.9	678.5	696.5	714.5	737.7	761.0	806.3	851.5
45°	593.4	600.0	606.7	616.0	625.3	640.6	655.9	679.9	703.8	742.4	781.0
47.5°	541.5	544.8	548.2	556.1	564.1	582.7	601.4	622.7	643.9	679.9	715.8
50°	489.6	490.9	492.3	499.6	506.9	523.5	540.2	564.8	589.4	622.7	655.9
52.5°	440.4	443.7	447.0	454.4	461.7	473.0	484.3	509.6	534.8	567.4	600.0
55°	395.2	397.1	399.1	404.5	409.8	423.1	436.4	458.3	480.3	510.2	540.2
57.5°	352.6	355.2	357.9	361.9	365.9	377.9	389.8	409.1	428.4	458.3	488.3
60°	308.7	312.0	315.3	320.0	324.6	333.9	343.3	360.6	377.9	404.5	431.1
62.5°	276.7	277.4	278.1	282.1	286.1	292.7	299.4	313.3	327.3	353.9	380.5
65°	240.8	242.8	244.8	246.8	248.8	254.1	259.4	271.4	283.4	303.3	323.3
67.5°	203.6	205.6	207.6	210.9	214.2	218.9	223.5	231.5	239.5	258.1	276.7
70°	158.3	158.3	158.3	163.6	169.0	177.0	184.9	190.9	196.9	212.2	227.5
72.5°	129.1	129.7	130.4	131.1	131.7	136.4	141.0	151.0	161.0	170.3	179.6
75°	105.1	105.8	106.4	107.1	107.8	109.1	110.4	113.8	117.1	127.7	138.4
77.5°	83.8	84.5	85.2	85.8	86.5	87.8	89.1	90.5	91.8	95.8	99.8
80°	63.9	64.5	65.2	65.9	66.5	67.2	67.9	69.2	70.5	72.5	74.5
82.5°	46.6	46.6	46.6	46.6	46.6	47.9	49.2	49.2	49.2	50.6	51.9
85°	29.3	29.3	29.3	29.9	30.6	30.6	30.6	31.3	31.9	31.9	31.9
87.5°	13.3	12.6	12.0	12.6	13.3	13.3	13.3	14.0	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3245.0	3245.0	3245.0	3245.0	3245.0	3245.0	3245.0	3245.0	3245.0	3245.0	3245.0
2.5°	3445.3	3441.9	3410.0	3378.1	3346.8	3315.5	3292.3	3269.0	3229.7	3190.5	3165.9
5°	3658.8	3633.5	3583.0	3532.4	3456.6	3380.7	3316.9	3253.0	3171.8	3090.7	3022.8
7.5°	3777.9	3757.3	3696.1	3634.8	3534.4	3433.9	3334.2	3234.4	3114.6	2994.9	2892.4
10°	3781.2	3798.5	3747.9	3697.4	3584.3	3471.2	3335.5	3199.8	3038.8	2877.8	2745.4
12.5°	3662.8	3737.3	3726.7	3716.0	3600.9	3485.8	3320.9	3155.9	2958.3	2760.7	2595.1
15°	3441.3	3585.6	3628.2	3670.8	3575.6	3480.5	3292.9	3105.3	2873.2	2641.0	2450.7
17.5°	3155.9	3358.1	3470.5	3583.0	3513.8	3444.6	3239.0	3033.5	2772.0	2510.6	2303.7
20°	2817.9	3082.7	3259.0	3435.3	3410.0	3384.7	3172.5	2960.3	2678.2	2396.2	2172.0
22.5°	2484.0	2763.4	3006.9	3250.3	3276.3	3302.2	3088.0	2873.8	2565.1	2256.5	2028.3
25°	2195.9	2480.0	2770.0	3060.1	3118.6	3177.2	2973.6	2770.0	2450.1	2130.1	1903.2
27.5°	1921.2	2191.3	2510.6	2829.9	2936.4	3042.8	2856.5	2670.3	2337.0	2003.7	1777.5
30°	1697.0	1938.5	2264.5	2590.4	2738.8	2887.1	2716.2	2545.2	2214.6	1883.9	1662.4
32.5°	1488.1	1704.3	2031.6	2358.9	2531.2	2703.5	2555.8	2408.2	2090.2	1772.2	1553.3
35°	1323.2	1516.7	1822.1	2127.4	2320.3	2513.3	2392.2	2271.1	1960.5	1649.8	1442.9
37.5°	1181.5	1343.8	1630.5	1917.2	2122.1	2327.0	2225.9	2124.8	1832.7	1540.7	1345.1
40°	1064.4	1194.8	1461.5	1728.3	1929.2	2130.1	2043.6	1957.1	1695.7	1434.2	1251.3
42.5°	963.9	1076.4	1315.8	1555.3	1739.6	1923.9	1866.7	1809.4	1572.6	1335.8	1166.2
45°	875.5	969.9	1180.8	1391.7	1561.3	1730.9	1685.7	1640.5	1436.2	1232.0	1076.4
47.5°	797.0	878.1	1066.4	1254.6	1407.0	1559.3	1517.4	1475.5	1306.5	1137.6	995.9
50°	725.1	794.3	951.3	1108.3	1245.3	1382.4	1347.8	1313.2	1173.5	1033.8	911.4
52.5°	657.3	714.5	855.5	996.5	1107.0	1217.4	1190.8	1164.2	1056.4	948.6	837.5
55°	592.7	645.3	764.4	883.4	977.9	1072.4	1045.8	1019.1	935.3	851.5	753.7
57.5°	534.2	580.1	676.5	773.0	848.2	923.3	910.7	898.1	828.2	758.4	677.9
60°	472.3	513.6	596.7	679.9	740.4	800.9	786.3	771.7	721.8	671.9	602.7
62.5°	417.1	453.7	520.2	586.7	636.0	685.2	674.5	663.9	626.0	588.1	530.9
65°	359.2	395.2	449.0	502.9	541.5	580.1	570.8	561.5	532.9	504.2	458.3
67.5°	306.7	336.6	383.2	429.7	455.7	481.6	476.3	471.0	449.0	427.1	391.2
70°	253.5	279.4	318.0	356.6	374.5	392.5	394.5	396.5	376.5	356.6	330.0
72.5°	200.2	220.9	256.8	292.7	306.7	320.6	320.0	319.3	307.3	295.4	271.4
75°	153.7	169.0	196.9	224.8	236.8	248.8	251.5	254.1	242.8	231.5	218.2
77.5°	110.4	121.1	142.4	163.6	177.0	190.3	191.6	192.9	187.6	182.3	169.6
80°	77.8	81.2	94.5	107.8	121.7	135.7	137.7	139.7	134.4	129.1	121.1
82.5°	53.9	55.9	60.5	65.2	76.5	87.8	90.5	93.1	90.5	87.8	79.2
85°	32.6	33.3	35.3	37.3	42.6	47.9	50.6	53.2	51.9	50.6	45.9
87.5°	14.6	14.6	15.3	16.0	17.3	18.6	22.0	25.3	23.3	21.3	19.3
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°	3245.0	3245.0	3245.0	3245.0	3245.0	3245.0	3245.0	3245.0	3245.0	3245.0	3245.0
2.5°	3141.2	3103.3	3065.4	3038.1	3010.9	2976.9	2943.0	2941.7	2940.3	2915.1	2889.8
5°	2955.0	2889.1	2823.3	2758.7	2694.2	2629.7	2565.1	2550.5	2535.9	2513.9	2492.0
7.5°	2790.0	2684.9	2579.8	2497.3	2414.8	2350.3	2285.8	2241.8	2197.9	2164.0	2130.1
10°	2613.0	2482.7	2352.3	2252.5	2152.7	2082.9	2013.0	1962.4	1911.9	1887.9	1864.0
12.5°	2429.4	2287.7	2146.1	2048.3	1950.5	1866.7	1782.8	1736.9	1691.0	1657.8	1624.5
15°	2260.5	2108.1	1955.8	1852.0	1748.2	1669.7	1591.2	1545.3	1499.4	1466.2	1432.9
17.5°	2096.8	1943.2	1789.5	1684.4	1579.3	1508.1	1436.9	1392.3	1347.8	1327.1	1306.5
20°	1947.8	1792.8	1637.8	1538.7	1439.6	1369.7	1299.9	1275.9	1252.0	1232.7	1213.4
22.5°	1800.1	1651.1	1502.1	1407.0	1311.8	1261.3	1210.7	1191.4	1172.1	1157.5	1142.9
25°	1676.4	1528.0	1379.7	1296.5	1213.4	1174.1	1134.9	1122.3	1109.6	1095.0	1080.3
27.5°	1551.3	1410.3	1269.3	1202.7	1136.2	1104.3	1072.4	1056.4	1040.4	1028.5	1016.5
30°	1440.9	1310.5	1180.1	1124.9	1069.7	1041.8	1013.8	996.5	979.2	967.9	956.6
32.5°	1334.5	1218.7	1103.0	1055.7	1008.5	981.2	953.9	937.3	920.7	907.4	894.1
35°	1236.0	1135.6	1035.1	991.9	948.6	921.4	894.1	877.4	860.8	847.5	834.2
37.5°	1149.5	1058.4	967.3	926.7	886.1	862.1	838.2	820.9	803.6	789.6	775.7
40°	1068.4	987.9	907.4	868.1	828.9	802.9	777.0	761.7	746.4	733.8	721.1
42.5°	996.5	922.7	848.8	810.3	771.7	747.1	722.4	704.5	686.5	679.2	671.9
45°	920.7	855.5	790.3	753.0	715.8	689.8	663.9	648.6	633.3	626.7	620.0
47.5°	854.2	793.6	733.1	696.5	659.9	636.6	613.3	601.4	589.4	580.1	570.8
50°	789.0	730.4	671.9	636.6	601.4	581.4	561.5	546.8	532.2	525.5	518.9
52.5°	726.4	673.2	620.0	584.1	548.2	528.9	509.6	496.9	484.3	470.3	456.4
55°	655.9	609.4	562.8	530.9	498.9	479.0	459.0	444.4	429.7	415.1	400.5
57.5°	597.4	551.5	505.6	477.0	448.4	429.1	409.8	393.8	377.9	365.9	353.9
60°	533.5	493.6	453.7	425.8	397.8	379.2	360.6	345.3	330.0	324.0	318.0
62.5°	473.6	436.4	399.1	374.5	349.9	332.0	314.0	304.0	294.0	290.0	286.1
65°	412.4	380.5	348.6	326.0	303.3	288.0	272.7	268.1	263.4	260.1	256.8
67.5°	355.2	328.0	300.7	280.7	260.8	250.1	239.5	234.2	228.8	224.8	220.9
70°	303.3	279.4	255.5	238.2	220.9	210.9	200.9	196.2	191.6	184.3	177.0
72.5°	247.5	228.8	210.2	196.9	183.6	175.0	166.3	157.0	147.7	141.0	134.4
75°	204.9	186.3	167.6	155.0	142.4	132.4	122.4	119.1	115.8	113.8	111.8
77.5°	157.0	141.0	125.1	115.1	105.1	100.5	95.8	93.8	91.8	91.1	90.5
80°	113.1	99.8	86.5	81.2	75.8	74.5	73.2	71.8	70.5	69.8	69.2
82.5°	70.5	63.9	57.2	55.9	54.5	53.9	53.2	52.6	51.9	51.2	50.6
85°	41.2	38.6	35.9	35.3	34.6	33.9	33.3	33.3	33.3	33.3	33.3
87.5°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	16.6	16.0
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: P832441

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3245.0	3245.0	3245.0	3245.0
2.5°	2883.1	2876.5	2873.8	2871.2
5°	2471.4	2450.7	2446.1	2441.4
7.5°	2121.4	2112.8	2084.2	2055.6
10°	1837.4	1810.8	1798.8	1786.8
12.5°	1599.9	1575.3	1571.3	1567.3
15°	1415.6	1398.3	1392.3	1386.4
17.5°	1294.5	1282.6	1275.3	1267.9
20°	1204.7	1196.1	1190.8	1185.5
22.5°	1136.2	1129.6	1125.6	1121.6
25°	1070.4	1060.4	1057.1	1053.7
27.5°	1007.8	999.2	995.9	992.5
30°	949.3	942.0	937.3	932.7
32.5°	885.4	876.8	874.1	871.5
35°	828.9	823.6	820.9	818.2
37.5°	769.0	762.4	758.4	754.4
40°	717.8	714.5	712.5	710.5
42.5°	665.9	659.9	659.2	658.6
45°	614.0	608.0	606.7	605.4
47.5°	565.5	560.1	559.5	558.8
50°	511.6	504.2	498.9	493.6
52.5°	449.7	443.0	438.4	433.7
55°	393.2	385.8	381.8	377.9
57.5°	350.6	347.3	345.3	343.3
60°	316.0	314.0	312.7	311.3
62.5°	284.1	282.1	282.1	282.1
65°	254.8	252.8	250.8	248.8
67.5°	216.9	212.9	212.2	211.5
70°	171.0	165.0	164.3	163.6
72.5°	133.7	133.0	131.7	130.4
75°	110.4	109.1	109.1	109.1
77.5°	89.1	87.8	87.8	87.8
80°	68.5	67.9	68.5	69.2
82.5°	50.6	50.6	49.9	49.2
85°	32.6	31.9	31.9	31.9
87.5°	16.0	16.0	16.0	16.0
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P832441

CATALOG NUMBER: S123RDP-S1000D835-4F0-1E-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	17.05	18.51	17.42	18.82	19.13	21.71	23.17	22.08	23.48	23.80
	3H	18.31	19.62	18.69	19.95	20.31	23.26	24.56	23.63	24.89	25.25
	4H	18.72	19.94	19.12	20.29	20.67	23.77	24.99	24.17	25.34	25.72
	6H	19.03	20.16	19.45	20.53	20.92	24.11	25.24	24.53	25.61	26.00
	8H	19.14	20.21	19.56	20.60	21.00	24.21	25.28	24.64	25.67	26.07
	12H	19.21	20.23	19.64	20.61	21.04	24.26	25.28	24.69	25.66	26.09
4H	2H	17.84	19.06	18.24	19.41	19.79	21.78	23.00	22.18	23.35	23.73
	3H	19.26	20.27	19.67	20.67	21.07	23.49	24.50	23.90	24.90	25.30
	4H	19.74	20.65	20.17	21.06	21.50	24.12	25.02	24.55	25.44	25.88
	6H	20.14	20.93	20.60	21.37	21.83	24.58	25.37	25.04	25.81	26.28
	8H	20.27	21.01	20.74	21.45	21.92	24.73	25.46	25.19	25.91	26.37
	12H	20.38	21.03	20.86	21.51	21.98	24.81	25.47	25.30	25.95	26.42
8H	4H	20.09	20.83	20.56	21.27	21.74	24.12	24.86	24.59	25.30	25.77
	6H	20.58	21.18	21.08	21.68	22.15	24.64	25.24	25.14	25.74	26.22
	8H	20.77	21.31	21.29	21.83	22.32	24.83	25.37	25.34	25.88	26.37
	12H	20.94	21.42	21.45	21.91	22.48	24.97	25.45	25.48	25.94	26.51
12H	4H	20.13	20.79	20.62	21.27	21.74	24.10	24.76	24.58	25.24	25.71
	6H	20.64	21.18	21.15	21.69	22.18	24.61	25.16	25.13	25.67	26.16
	8H	20.88	21.36	21.39	21.85	22.42	24.83	25.31	25.35	25.81	26.37