

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: P832440

Luminaire Tested: S123RDP-S1000D830-4F0-1E-UDD-G

Issue Date: 05/03/2024

Test Information

Test Method: LM-79-2019
Report Number: P832440
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-S1000D830-4F0-1E-UDD-G
Description: DEFINE 3 DIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, GRAZE OPTIC

Light Source: -
Ballast/Driver: -

Summary

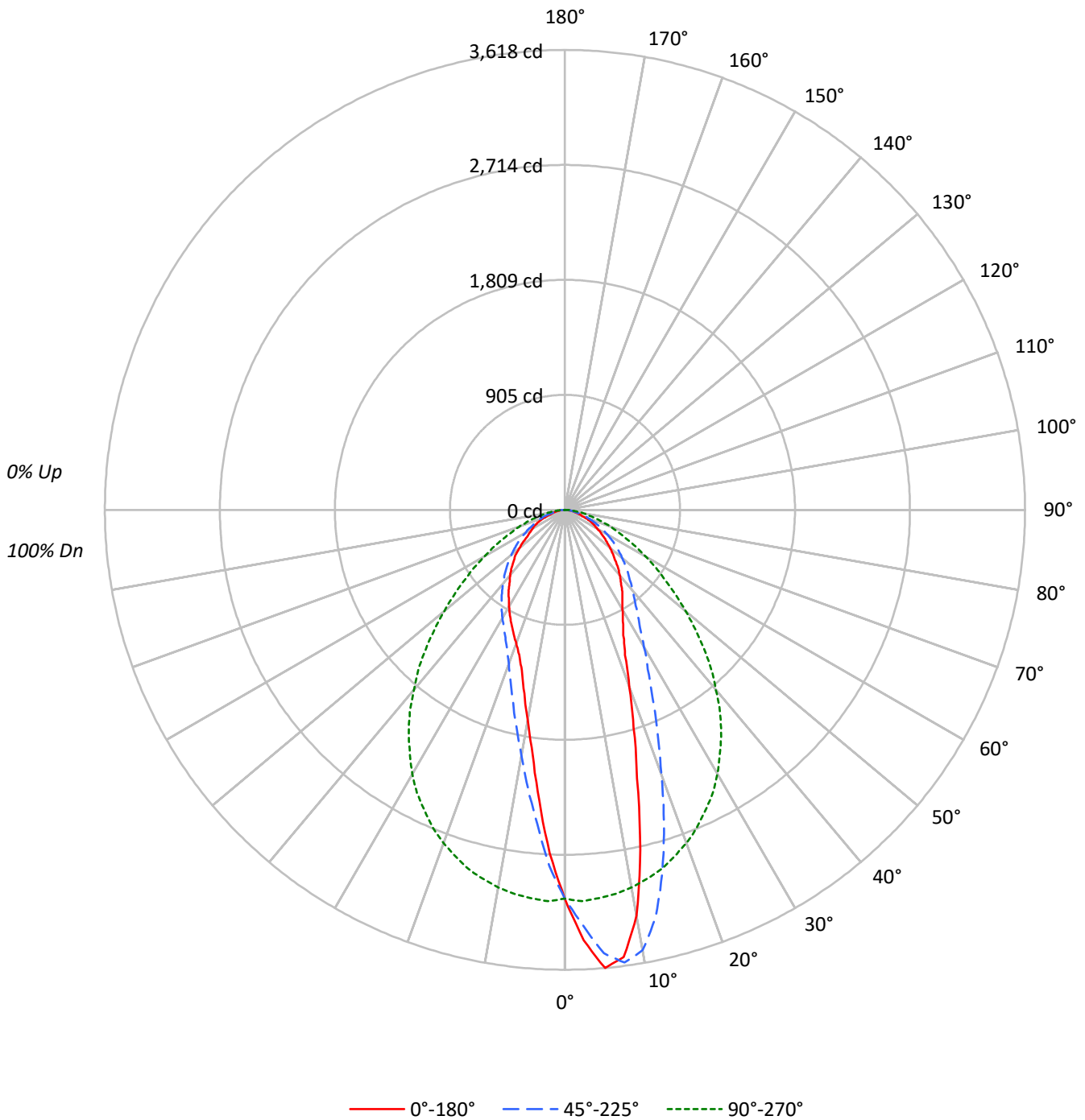
Lumens per Lamp: N/A
Luminaire Lumens: 4055.2 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 1.17 / 0.8
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Direct

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

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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°	32923	32923	32923	32923	32923
5°	39092	37845	33129	26781	24863
10°	35417	38440	32964	21458	18408
15°	24386	32958	32616	17538	14561
20°	16964	25374	31961	14788	12798
25°	12928	19340	31009	13144	11796
30°	11253	15462	29817	12204	10926
35°	10332	13043	28128	11411	10134
40°	9427	11647	25920	10634	9409
45°	8514	10651	23537	9898	8686
50°	7728	9828	20726	9177	7790
55°	6989	9025	18027	8471	6683
60°	6262	8206	15657	7694	6316
65°	5782	7282	13479	6915	5973
70°	4696	6294	11761	6257	4853
75°	4121	5007	9960	5190	4275
80°	3732	4234	8164	4351	4042
85°	3409	3717	6200	3952	3717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 80°
 Vertical Angle: 45°
 Luminance: 24835 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.8	6.9
10°-20°	645.1	15.9
20°-30°	740.2	18.3
30°-40°	729.6	18.0
40°-50°	643.4	15.9
50°-60°	495.0	12.2
60°-70°	325.4	8.0
70°-80°	158.0	3.9
80°-90°	39.8	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°	1664.0	41.0
0°-40°	2393.6	59.0
0°-60°	3531.9	87.1
0°-90°	4055.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4055.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3059	3059	3059	3059	3059	
5°	3618	3502	3066	2479	2301	331
15°	2188	2958	2927	1574	1307	618
25°	1088	1628	2611	1107	993	514
35°	786	993	2141	868	771	490
45°	559	700	1546	650	571	434
55°	372	481	961	451	356	334
65°	227	286	529	272	234	222
75°	99	120	240	125	103	107
85°	28	30	50	32	30	31
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°	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6
2.5°	3389.6	3379.0	3368.3	3365.2	3362.0	3352.0	3342.0	3319.4	3296.8	3273.6	3250.4
5°	3617.9	3619.1	3620.4	3617.2	3614.1	3600.9	3587.8	3560.2	3532.6	3502.5	3472.4
7.5°	3547.6	3567.7	3587.8	3591.5	3595.3	3605.3	3615.4	3609.1	3602.8	3591.5	3580.2
10°	3240.4	3239.1	3237.9	3260.5	3283.0	3350.1	3417.2	3451.7	3486.2	3516.9	3547.6
12.5°	2738.8	2740.7	2742.6	2816.5	2890.5	2953.9	3017.2	3105.0	3192.7	3287.4	3382.1
15°	2188.3	2219.0	2249.7	2315.6	2381.4	2476.7	2572.0	2689.9	2807.8	2957.6	3107.5
17.5°	1797.0	1810.2	1823.4	1886.7	1950.0	2040.3	2130.6	2264.1	2397.7	2590.8	2783.9
20°	1481.0	1492.9	1504.8	1550.6	1596.4	1682.9	1769.4	1896.7	2024.0	2215.2	2406.5
22.5°	1236.5	1259.7	1282.9	1313.6	1344.3	1407.0	1469.7	1599.5	1729.3	1903.6	2077.9
25°	1088.5	1099.2	1109.8	1136.1	1162.5	1222.7	1282.9	1368.8	1454.7	1628.4	1802.0
27.5°	988.2	991.3	994.4	1013.9	1033.3	1072.2	1111.1	1190.7	1270.3	1413.3	1556.2
30°	905.4	911.0	916.7	931.7	946.8	975.0	1003.2	1059.7	1116.1	1244.0	1371.9
32.5°	841.5	844.6	847.7	860.3	872.8	893.5	914.2	958.7	1003.2	1101.0	1198.8
35°	786.3	786.9	787.5	796.9	806.3	826.4	846.5	883.5	920.5	992.6	1064.7
37.5°	723.6	728.0	732.4	739.2	746.1	763.7	781.3	811.4	841.5	901.0	960.6
40°	670.9	674.7	678.4	686.6	694.7	708.5	722.3	749.9	777.5	828.9	880.3
42.5°	618.2	620.7	623.3	631.4	639.6	656.5	673.4	695.4	717.3	759.9	802.6
45°	559.3	565.6	571.8	580.6	589.4	603.8	618.2	640.8	663.4	699.7	736.1
47.5°	510.4	513.5	516.7	524.2	531.7	549.3	566.8	586.9	606.9	640.8	674.7
50°	461.5	462.7	464.0	470.9	477.8	493.5	509.1	532.3	555.5	586.9	618.2
52.5°	415.1	418.2	421.4	428.2	435.1	445.8	456.5	480.3	504.1	534.8	565.6
55°	372.4	374.3	376.2	381.2	386.2	398.8	411.3	432.0	452.7	480.9	509.1
57.5°	332.3	334.8	337.3	341.1	344.9	356.1	367.4	385.6	403.8	432.0	460.2
60°	290.9	294.1	297.2	301.6	306.0	314.8	323.5	339.8	356.1	381.2	406.3
62.5°	260.8	261.5	262.1	265.9	269.6	275.9	282.2	295.3	308.5	333.6	358.7
65°	227.0	228.9	230.7	232.6	234.5	239.5	244.5	255.8	267.1	285.9	304.7
67.5°	191.9	193.7	195.6	198.8	201.9	206.3	210.7	218.2	225.7	243.3	260.8
70°	149.2	149.2	149.2	154.2	159.3	166.8	174.3	180.0	185.6	200.0	214.4
72.5°	121.6	122.3	122.9	123.5	124.1	128.5	132.9	142.3	151.7	160.5	169.3
75°	99.1	99.7	100.3	100.9	101.6	102.8	104.1	107.2	110.4	120.4	130.4
77.5°	79.0	79.6	80.3	80.9	81.5	82.8	84.0	85.3	86.5	90.3	94.1
80°	60.2	60.8	61.4	62.1	62.7	63.3	64.0	65.2	66.5	68.3	70.2
82.5°	43.9	43.9	43.9	43.9	43.9	45.1	46.4	46.4	46.4	47.7	48.9
85°	27.6	27.6	27.6	28.2	28.8	28.8	28.8	29.5	30.1	30.1	30.1
87.5°	12.5	11.9	11.3	11.9	12.5	12.5	12.5	13.2	13.8	13.8	13.8
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°	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6
2.5°	3247.3	3244.2	3214.1	3184.0	3154.5	3125.0	3103.1	3081.1	3044.1	3007.2	2984.0
5°	3448.6	3424.7	3377.1	3329.4	3258.0	3186.5	3126.3	3066.1	2989.6	2913.1	2849.1
7.5°	3560.8	3541.4	3483.7	3426.0	3331.3	3236.6	3142.6	3048.5	2935.7	2822.8	2726.3
10°	3563.9	3580.2	3532.6	3484.9	3378.3	3271.8	3143.8	3015.9	2864.2	2712.5	2587.7
12.5°	3452.3	3522.6	3512.5	3502.5	3394.0	3285.5	3130.0	2974.5	2788.3	2602.1	2446.0
15°	3243.5	3379.6	3419.7	3459.9	3370.2	3280.5	3103.7	2926.9	2708.1	2489.2	2309.9
17.5°	2974.5	3165.2	3271.1	3377.1	3311.9	3246.7	3052.9	2859.2	2612.8	2366.3	2171.3
20°	2656.0	2905.6	3071.7	3237.9	3214.1	3190.2	2990.2	2790.2	2524.4	2258.5	2047.2
22.5°	2341.3	2604.6	2834.1	3063.6	3088.0	3112.5	2910.6	2708.7	2417.8	2126.8	1911.8
25°	2069.8	2337.5	2610.9	2884.3	2939.4	2994.6	2802.7	2610.9	2309.3	2007.7	1793.9
27.5°	1810.8	2065.4	2366.3	2667.3	2767.6	2868.0	2692.4	2516.8	2202.7	1888.6	1675.4
30°	1599.5	1827.1	2134.4	2441.6	2581.4	2721.2	2560.1	2399.0	2087.3	1775.7	1566.9
32.5°	1402.6	1606.4	1914.9	2223.4	2385.8	2548.2	2409.0	2269.8	1970.1	1670.4	1464.1
35°	1247.1	1429.6	1717.4	2005.2	2187.0	2368.9	2254.7	2140.6	1847.8	1555.0	1360.0
37.5°	1113.6	1266.6	1536.8	1807.1	2000.2	2193.3	2098.0	2002.7	1727.4	1452.2	1267.8
40°	1003.2	1126.1	1377.5	1629.0	1818.3	2007.7	1926.2	1844.7	1598.3	1351.8	1179.4
42.5°	908.5	1014.5	1240.2	1466.0	1639.6	1813.3	1759.4	1705.5	1482.3	1259.0	1099.2
45°	825.1	914.2	1112.9	1311.7	1471.6	1631.5	1588.9	1546.2	1353.7	1161.2	1014.5
47.5°	751.2	827.7	1005.1	1182.5	1326.1	1469.7	1430.2	1390.7	1231.5	1072.2	938.6
50°	683.4	748.7	896.6	1044.6	1173.8	1302.9	1270.3	1237.7	1106.1	974.4	859.0
52.5°	619.5	673.4	806.3	939.3	1043.3	1147.4	1122.4	1097.3	995.7	894.1	789.4
55°	558.7	608.2	720.4	832.7	921.7	1010.7	985.7	960.6	881.6	802.6	710.4
57.5°	503.5	546.8	637.7	728.6	799.4	870.3	858.4	846.5	780.6	714.8	638.9
60°	445.2	484.1	562.4	640.8	697.9	754.9	741.1	727.3	680.3	633.3	568.1
62.5°	393.1	427.6	490.3	553.0	599.4	645.8	635.8	625.8	590.0	554.3	500.4
65°	338.6	372.4	423.2	474.0	510.4	546.8	538.0	529.2	502.2	475.3	432.0
67.5°	289.1	317.3	361.2	405.1	429.5	454.0	448.9	443.9	423.2	402.5	368.7
70°	238.9	263.3	299.7	336.1	353.0	369.9	371.8	373.7	354.9	336.1	311.0
72.5°	188.7	208.2	242.0	275.9	289.1	302.2	301.6	301.0	289.7	278.4	255.8
75°	144.8	159.3	185.6	211.9	223.2	234.5	237.0	239.5	228.9	218.2	205.7
77.5°	104.1	114.1	134.2	154.2	166.8	179.3	180.6	181.8	176.8	171.8	159.9
80°	73.4	76.5	89.0	101.6	114.7	127.9	129.8	131.7	126.7	121.6	114.1
82.5°	50.8	52.7	57.1	61.4	72.1	82.8	85.3	87.8	85.3	82.8	74.6
85°	30.7	31.4	33.2	35.1	40.1	45.1	47.7	50.2	48.9	47.7	43.3
87.5°	13.8	13.8	14.4	15.0	16.3	17.6	20.7	23.8	21.9	20.1	18.2
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°	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6	3058.6
2.5°	2960.8	2925.0	2889.3	2863.6	2837.9	2805.9	2773.9	2772.7	2771.4	2747.6	2723.7
5°	2785.2	2723.1	2661.0	2600.2	2539.4	2478.6	2417.8	2404.0	2390.2	2369.5	2348.8
7.5°	2629.7	2530.6	2431.6	2353.8	2276.1	2215.2	2154.4	2113.0	2071.7	2039.7	2007.7
10°	2462.9	2340.0	2217.1	2123.1	2029.0	1963.2	1897.3	1849.7	1802.0	1779.5	1756.9
12.5°	2289.9	2156.3	2022.7	1930.6	1838.4	1759.4	1680.4	1637.1	1593.9	1562.5	1531.2
15°	2130.6	1987.0	1843.4	1745.6	1647.8	1573.8	1499.8	1456.6	1413.3	1381.9	1350.6
17.5°	1976.3	1831.5	1686.7	1587.6	1488.5	1421.4	1354.3	1312.3	1270.3	1250.9	1231.5
20°	1835.9	1689.8	1543.7	1450.3	1356.9	1291.0	1225.2	1202.6	1180.0	1161.9	1143.7
22.5°	1696.7	1556.2	1415.8	1326.1	1236.5	1188.8	1141.2	1123.0	1104.8	1091.0	1077.2
25°	1580.1	1440.2	1300.4	1222.0	1143.7	1106.7	1069.7	1057.8	1045.9	1032.1	1018.3
27.5°	1462.2	1329.3	1196.3	1133.6	1070.9	1040.8	1010.7	995.7	980.6	969.4	958.1
30°	1358.1	1235.2	1112.3	1060.3	1008.2	981.9	955.6	939.3	923.0	912.3	901.6
32.5°	1257.8	1148.7	1039.6	995.1	950.6	924.8	899.1	883.5	867.8	855.2	842.7
35°	1165.0	1070.3	975.6	934.9	894.1	868.4	842.7	827.0	811.4	798.8	786.3
37.5°	1083.5	997.6	911.7	873.4	835.2	812.6	790.0	773.7	757.4	744.3	731.1
40°	1007.0	931.1	855.2	818.3	781.3	756.8	732.4	717.9	703.5	691.6	679.7
42.5°	939.3	869.7	800.1	763.7	727.3	704.1	680.9	664.0	647.1	640.2	633.3
45°	867.8	806.3	744.9	709.8	674.7	650.2	625.8	611.3	596.9	590.6	584.4
47.5°	805.1	748.0	691.0	656.5	622.0	600.1	578.1	566.8	555.5	546.8	538.0
50°	743.6	688.5	633.3	600.1	566.8	548.0	529.2	515.4	501.6	495.3	489.1
52.5°	684.7	634.5	584.4	550.5	516.7	498.5	480.3	468.4	456.5	443.3	430.1
55°	618.2	574.3	530.5	500.4	470.3	451.4	432.6	418.8	405.1	391.3	377.5
57.5°	563.1	519.8	476.5	449.6	422.6	404.4	386.2	371.2	356.1	344.9	333.6
60°	502.9	465.2	427.6	401.3	375.0	357.4	339.8	325.4	311.0	305.4	299.7
62.5°	446.4	411.3	376.2	353.0	329.8	312.9	296.0	286.5	277.1	273.4	269.6
65°	388.7	358.7	328.6	307.2	285.9	271.5	257.1	252.7	248.3	245.2	242.0
67.5°	334.8	309.1	283.4	264.6	245.8	235.8	225.7	220.7	215.7	211.9	208.2
70°	285.9	263.3	240.8	224.5	208.2	198.8	189.4	185.0	180.6	173.7	166.8
72.5°	233.2	215.7	198.1	185.6	173.1	164.9	156.8	148.0	139.2	132.9	126.7
75°	193.1	175.6	158.0	146.1	134.2	124.8	115.4	112.2	109.1	107.2	105.3
77.5°	148.0	132.9	117.9	108.5	99.1	94.7	90.3	88.4	86.5	85.9	85.3
80°	106.6	94.1	81.5	76.5	71.5	70.2	69.0	67.7	66.5	65.8	65.2
82.5°	66.5	60.2	53.9	52.7	51.4	50.8	50.2	49.5	48.9	48.3	47.7
85°	38.9	36.4	33.9	33.2	32.6	32.0	31.4	31.4	31.4	31.4	31.4
87.5°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	15.7	15.0
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: P832440

CATALOG NUMBER: S123RDP-S1000D830-4F0-1E-UDD-G

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3058.6	3058.6	3058.6	3058.6
2.5°	2717.5	2711.2	2708.7	2706.2
5°	2329.4	2309.9	2305.5	2301.1
7.5°	1999.5	1991.4	1964.4	1937.5
10°	1731.8	1706.7	1695.4	1684.2
12.5°	1508.0	1484.8	1481.0	1477.2
15°	1334.3	1318.0	1312.3	1306.7
17.5°	1220.2	1208.9	1202.0	1195.1
20°	1135.5	1127.4	1122.4	1117.3
22.5°	1070.9	1064.7	1060.9	1057.1
25°	1008.9	999.5	996.3	993.2
27.5°	949.9	941.8	938.6	935.5
30°	894.7	887.9	883.5	879.1
32.5°	834.6	826.4	823.9	821.4
35°	781.3	776.2	773.7	771.2
37.5°	724.8	718.6	714.8	711.0
40°	676.5	673.4	671.5	669.6
42.5°	627.6	622.0	621.4	620.7
45°	578.7	573.1	571.8	570.6
47.5°	533.0	527.9	527.3	526.7
50°	482.2	475.3	470.3	465.2
52.5°	423.9	417.6	413.2	408.8
55°	370.6	363.7	359.9	356.1
57.5°	330.4	327.3	325.4	323.5
60°	297.8	296.0	294.7	293.4
62.5°	267.7	265.9	265.9	265.9
65°	240.1	238.3	236.4	234.5
67.5°	204.4	200.6	200.0	199.4
70°	161.1	155.5	154.9	154.2
72.5°	126.0	125.4	124.1	122.9
75°	104.1	102.8	102.8	102.8
77.5°	84.0	82.8	82.8	82.8
80°	64.6	64.0	64.6	65.2
82.5°	47.7	47.7	47.0	46.4
85°	30.7	30.1	30.1	30.1
87.5°	15.0	15.0	15.0	15.0
90°	0.0	0.0	0.0	0.0



TEST NUMBER: P832440

CATALOG NUMBER: S123RDP-S1000D830-4F0-1E-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	16.84	18.30	17.21	18.61	18.93	21.51	22.96	21.87	23.28	23.59
	3H	18.11	19.41	18.49	19.74	20.10	23.05	24.35	23.43	24.68	25.04
	4H	18.52	19.74	18.92	20.09	20.47	23.57	24.79	23.97	25.14	25.52
	6H	18.83	19.95	19.24	20.32	20.71	23.91	25.03	24.32	25.40	25.79
	8H	18.93	20.00	19.36	20.39	20.79	24.00	25.07	24.43	25.46	25.87
	12H	19.00	20.02	19.43	20.41	20.84	24.05	25.08	24.48	25.46	25.89
4H	2H	17.64	18.86	18.04	19.21	19.59	21.57	22.79	21.97	23.14	23.52
	3H	19.06	20.07	19.47	20.47	20.87	23.28	24.29	23.69	24.69	25.09
	4H	19.53	20.44	19.97	20.86	21.30	23.91	24.82	24.34	25.23	25.67
	6H	19.93	20.72	20.39	21.16	21.62	24.38	25.17	24.84	25.61	26.07
	8H	20.07	20.80	20.53	21.25	21.72	24.52	25.25	24.98	25.70	26.17
	12H	20.17	20.82	20.65	21.30	21.78	24.61	25.26	25.09	25.74	26.22
8H	4H	19.89	20.62	20.35	21.07	21.54	23.92	24.65	24.38	25.10	25.57
	6H	20.37	20.98	20.87	21.47	21.95	24.43	25.04	24.93	25.53	26.01
	8H	20.57	21.11	21.08	21.62	22.11	24.62	25.16	25.14	25.67	26.16
	12H	20.73	21.21	21.24	21.70	22.27	24.76	25.24	25.28	25.73	26.30
12H	4H	19.93	20.58	20.41	21.06	21.53	23.90	24.55	24.38	25.03	25.50
	6H	20.43	20.97	20.95	21.49	21.97	24.41	24.95	24.93	25.46	25.95
	8H	20.68	21.15	21.19	21.65	22.21	24.63	25.11	25.14	25.60	26.17