

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: P987742

Luminaire Tested: S122R3DR-B290DB2750-4F0-XX-W2A-A_3500K

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P987742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-29)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122R3DR-B290DB2750-4F0-XX-W2A-A_3500K
Description: Define 2 3in Regressed Direct Recessed with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

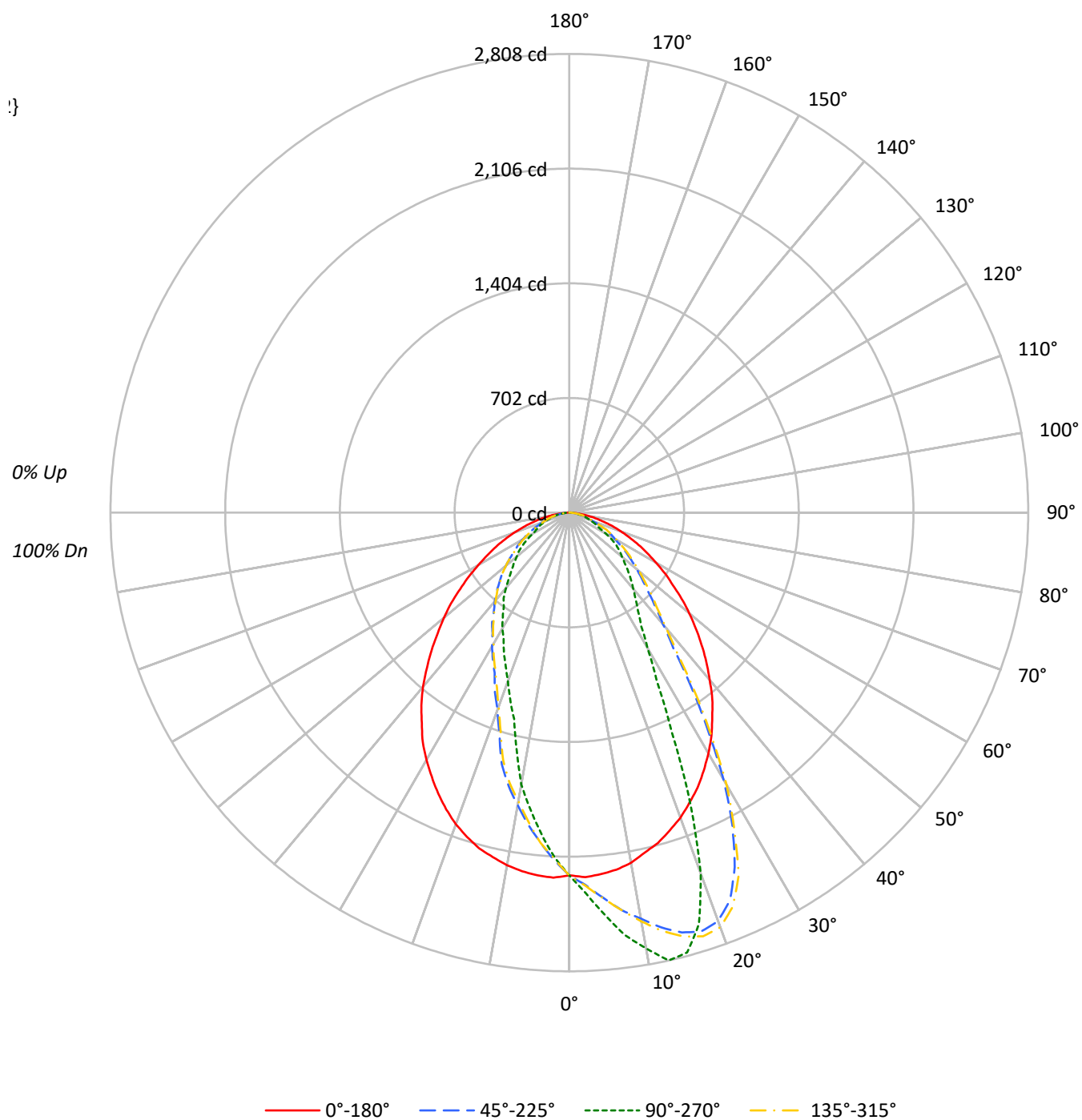
Lumens per Lamp: N/A
Luminaire Lumens: 3836.0 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 61.3
Input Voltage (V):
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				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		0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102		100
1	111	106	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	72	92	84	77	72	81	75	71		78	73	69		76	72	68		66
4	87	77	69	63	85	76	68	63	73	67	62		71	66	61		69	64	60		59
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		63	58	54		52
6	76	64	56	50	74	63	55	50	61	54	49		60	54	49		58	53	49		47
7	71	59	51	45	69	58	50	45	56	50	45		55	49	44		54	48	44		42
8	66	54	46	41	65	53	46	41	52	45	41		51	45	40		50	44	40		39
9	62	50	43	38	61	50	42	37	49	42	37		47	41	37		47	41	37		35
10	59	47	39	35	58	46	39	35	45	39	34		44	38	34		44	38	34		33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	35136	35136	35136	35136
5°	35296	39241	35418	31349
10°	34986	43538	35233	27174
15°	34304	45679	34884	21412
20°	33468	39601	34196	18526
25°	32437	25971	33139	16542
30°	31098	17481	31945	14972
35°	29452	14159	30404	13504
40°	27605	12590	28782	12495
45°	25623	11394	26693	11153
50°	23589	10370	24692	10333
55°	21327	9747	22478	9620
60°	19340	8155	20363	8057
65°	17507	6877	18548	7798
70°	15490	6354	16708	7354
75°	13394	5945	14623	6795
80°	11112	5488	11951	6044
85°	8681	5049	9517	5321

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 160°

Vertical Angle: 45°

Luminance: 38571 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.5	5.5
10°-20°	587.7	15.3
20°-30°	756.4	19.7
30°-40°	717.5	18.7
40°-50°	615.0	16.0
50°-60°	468.3	12.2
60°-70°	295.3	7.7
70°-80°	147.3	3.8
80°-90°	37.9	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°	1554.6	40.5
0°-40°	2272.1	59.2
0°-60°	3355.4	87.5
0°-90°	3836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3836.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2220	2220	2220	2220	2220	
5°	2221	2470	2229	1973	2221	211
15°	2093	2787	2129	1307	2093	589
25°	1857	1487	1897	947	1857	853
35°	1524	733	1573	699	1524	954
45°	1145	509	1192	498	1145	883
55°	773	353	814	349	773	696
65°	467	184	495	208	467	464
75°	219	97	239	111	219	237
85°	48	28	52	29	48	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7
2.5°	2233.6	2242.9	2247.5	2253.7	2267.6	2276.8	2290.7	2293.8	2292.2	2298.4	2281.5
5°	2221.3	2241.3	2259.9	2275.3	2300.0	2315.4	2332.4	2352.4	2357.0	2380.2	2366.3
7.5°	2204.3	2233.6	2259.9	2290.7	2327.7	2347.8	2374.0	2404.9	2418.7	2446.5	2454.2
10°	2176.6	2218.2	2262.9	2295.3	2346.2	2381.7	2406.4	2455.8	2488.2	2529.8	2523.6
12.5°	2131.8	2185.8	2246.0	2300.0	2366.3	2389.4	2435.7	2486.6	2528.3	2566.8	2600.8
15°	2093.3	2155.0	2221.3	2287.6	2363.2	2406.4	2452.7	2519.0	2563.7	2631.6	2660.9
17.5°	2040.8	2119.5	2198.2	2272.2	2361.7	2411.0	2468.1	2532.9	2599.2	2664.0	2687.1
20°	1986.8	2071.7	2156.5	2256.8	2358.6	2406.4	2465.0	2545.2	2610.0	2660.9	2660.9
22.5°	1922.0	2025.4	2122.6	2218.2	2329.3	2398.7	2458.8	2552.9	2599.2	2610.0	2568.4
25°	1857.2	1960.6	2067.0	2185.8	2312.3	2374.0	2441.9	2529.8	2545.2	2502.0	2394.1
27.5°	1780.1	1895.8	2016.1	2144.2	2276.8	2354.0	2415.7	2474.3	2445.0	2329.3	2161.1
30°	1701.4	1826.4	1962.1	2084.0	2244.4	2315.4	2367.8	2384.8	2292.2	2104.1	1886.6
32.5°	1619.7	1741.6	1885.0	2031.6	2193.5	2261.4	2295.3	2250.6	2080.9	1843.4	1578.0
35°	1524.1	1661.3	1811.0	1963.7	2124.1	2175.0	2195.1	2085.5	1868.0	1561.1	1297.3
37.5°	1437.7	1575.0	1735.4	1891.2	2047.0	2074.7	2054.7	1883.5	1607.4	1303.5	1045.9
40°	1335.9	1482.4	1639.7	1814.1	1942.1	1949.8	1900.4	1678.3	1335.9	1050.5	891.6
42.5°	1241.8	1389.8	1547.2	1724.6	1821.8	1795.5	1729.2	1437.7	1115.3	905.5	777.5
45°	1144.6	1285.0	1454.6	1612.0	1681.4	1619.7	1519.4	1209.4	936.3	779.0	680.3
47.5°	1050.5	1181.6	1349.7	1500.9	1513.3	1443.8	1325.1	1013.5	811.4	684.9	604.7
50°	957.9	1089.0	1246.4	1371.3	1359.0	1263.4	1129.2	880.8	705.0	604.7	538.4
52.5°	865.4	984.2	1136.9	1235.6	1183.1	1090.6	957.9	746.6	615.5	527.6	476.7
55°	772.8	883.9	1015.0	1096.8	1013.5	907.0	812.9	640.2	533.7	462.8	424.2
57.5°	695.7	783.6	903.9	953.3	853.0	769.7	688.0	550.7	462.8	411.9	367.1
60°	610.9	691.1	789.8	819.1	715.7	647.9	578.5	465.9	396.4	351.7	322.4
62.5°	538.4	604.7	680.3	680.3	589.3	538.4	485.9	390.3	333.2	297.7	283.8
65°	467.4	515.2	569.2	563.0	485.9	441.2	399.5	322.4	279.2	254.5	240.6
67.5°	398.0	435.0	470.5	448.9	393.4	354.8	316.2	260.7	231.4	214.4	195.9
70°	334.7	364.0	382.6	362.5	307.0	274.6	246.8	209.8	186.7	165.1	154.3
72.5°	280.7	293.1	299.3	274.6	228.3	209.8	189.7	163.5	143.5	132.7	129.6
75°	219.0	229.8	225.2	206.7	168.1	154.3	138.8	120.3	115.7	109.5	106.4
77.5°	171.2	171.2	163.5	146.5	120.3	109.5	103.4	94.1	89.5	87.9	84.8
80°	121.9	120.3	115.7	97.2	81.8	75.6	75.6	69.4	67.9	64.8	64.8
82.5°	80.2	80.2	74.0	58.6	54.0	52.4	50.9	47.8	47.8	46.3	46.3
85°	47.8	44.7	37.0	32.4	30.9	30.9	29.3	27.8	29.3	27.8	27.8
87.5°	21.6	17.0	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7
2.5°	2298.4	2301.5	2306.1	2327.7	2330.8	2337.0	2333.9	2333.9	2335.4	2332.4	2333.9
5°	2397.1	2401.8	2424.9	2451.1	2457.3	2451.1	2458.8	2469.6	2469.6	2469.6	2466.6
7.5°	2489.7	2506.7	2532.9	2571.5	2579.2	2586.9	2600.8	2591.5	2594.6	2608.5	2603.8
10°	2579.2	2603.8	2633.2	2665.5	2682.5	2693.3	2699.5	2713.4	2745.8	2708.7	2722.6
12.5°	2664.0	2699.5	2730.3	2765.8	2778.2	2792.0	2796.7	2809.0	2809.0	2807.5	2818.3
15°	2719.5	2751.9	2779.7	2802.8	2805.9	2802.8	2799.8	2801.3	2805.9	2787.4	2798.2
17.5°	2731.9	2735.0	2744.2	2735.0	2736.5	2704.1	2685.6	2681.0	2637.8	2639.3	2674.8
20°	2671.7	2619.3	2605.4	2554.5	2523.6	2440.3	2437.2	2414.1	2323.1	2350.9	2344.7
22.5°	2506.7	2417.2	2298.4	2239.8	2210.5	2122.6	2054.7	2006.9	1974.5	1942.1	1928.2
25°	2289.2	2144.2	1976.0	1860.3	1843.4	1761.6	1636.7	1578.0	1508.6	1487.0	1524.1
27.5°	2008.4	1820.2	1630.5	1453.1	1420.7	1346.7	1283.4	1241.8	1161.5	1156.9	1160.0
30°	1627.4	1437.7	1278.8	1163.1	1082.9	1048.9	1007.3	976.4	944.0	956.4	959.5
32.5°	1337.4	1156.9	1008.8	947.1	910.1	888.5	853.0	833.0	819.1	814.5	812.9
35°	1062.8	942.5	876.2	816.0	794.4	779.0	752.8	743.5	731.2	732.7	732.7
37.5°	910.1	809.8	760.5	729.6	709.6	701.9	684.9	675.6	667.9	664.8	669.5
40°	785.2	715.7	684.9	657.1	640.2	637.1	627.8	617.0	607.8	609.3	613.9
42.5°	694.2	654.0	617.0	595.4	583.1	578.5	570.7	563.0	563.0	558.4	556.9
45°	621.7	589.3	558.4	538.4	530.6	524.5	515.2	513.7	507.5	509.0	510.6
47.5°	556.9	530.6	507.5	487.4	479.7	478.2	468.9	462.8	462.8	461.2	459.7
50°	498.2	472.0	452.0	441.2	430.4	427.3	425.7	424.2	421.1	421.1	422.7
52.5°	450.4	424.2	408.8	399.5	393.4	390.3	390.3	388.7	388.7	388.7	387.2
55°	398.0	376.4	364.0	361.0	357.9	356.3	354.8	351.7	350.2	353.2	350.2
57.5°	348.6	340.9	330.1	327.0	319.3	319.3	314.7	311.6	308.5	311.6	311.6
60°	310.1	299.3	293.1	283.8	277.7	271.5	263.8	262.2	259.2	257.6	256.1
62.5°	269.9	260.7	245.3	231.4	222.1	216.0	212.9	211.3	211.3	209.8	209.8
65°	225.2	203.6	195.9	191.3	189.7	188.2	185.1	183.6	185.1	183.6	185.1
67.5°	175.9	172.8	168.1	165.1	163.5	162.0	162.0	160.4	160.4	160.4	160.4
70°	152.7	145.0	143.5	140.4	140.4	138.8	138.8	138.8	138.8	137.3	140.4
72.5°	126.5	121.9	120.3	118.8	118.8	118.8	117.2	117.2	117.2	115.7	117.2
75°	103.4	101.8	98.7	98.7	97.2	98.7	97.2	97.2	95.6	97.2	97.2
77.5°	83.3	81.8	80.2	80.2	78.7	78.7	78.7	78.7	78.7	78.7	80.2
80°	63.2	61.7	60.2	61.7	60.2	61.7	60.2	60.2	61.7	60.2	60.2
82.5°	46.3	44.7	44.7	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
85°	27.8	26.2	26.2	27.8	26.2	27.8	26.2	26.2	26.2	27.8	27.8
87.5°	12.3	13.9	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	13.9
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7
2.5°	2340.1	2329.3	2326.2	2329.3	2326.2	2327.7	2316.9	2276.8	2287.6	2270.7	2279.9
5°	2472.7	2463.5	2443.4	2440.3	2437.2	2434.2	2418.7	2383.3	2369.4	2346.2	2344.7
7.5°	2599.2	2599.2	2583.8	2573.0	2559.1	2548.3	2528.3	2475.8	2454.2	2426.5	2411.0
10°	2724.2	2684.1	2701.0	2690.2	2656.3	2650.1	2613.1	2582.3	2540.6	2512.8	2488.2
12.5°	2813.6	2801.3	2785.9	2776.6	2767.4	2747.3	2722.6	2644.0	2622.4	2566.8	2539.1
15°	2810.5	2802.8	2807.5	2807.5	2804.4	2799.8	2779.7	2722.6	2685.6	2631.6	2583.8
17.5°	2659.4	2679.4	2699.5	2713.4	2744.2	2758.1	2776.6	2742.7	2719.5	2673.3	2622.4
20°	2395.6	2445.0	2503.6	2515.9	2543.7	2625.4	2662.5	2691.8	2701.0	2685.6	2644.0
22.5°	2028.5	2070.1	2212.0	2209.0	2249.1	2346.2	2454.2	2542.1	2611.6	2650.1	2634.7
25°	1588.8	1647.5	1723.0	1780.1	1911.2	2056.2	2190.4	2330.8	2451.1	2557.6	2583.8
27.5°	1201.7	1278.8	1338.9	1414.5	1480.9	1652.1	1824.9	2043.9	2184.3	2386.3	2491.2
30°	971.8	1007.3	1067.5	1102.9	1135.3	1266.4	1462.3	1678.3	1925.1	2158.0	2338.5
32.5°	829.9	854.6	899.3	914.7	948.7	1036.6	1160.0	1357.5	1612.0	1894.3	2131.8
35°	745.1	771.3	780.5	794.4	822.2	877.7	962.6	1106.0	1335.9	1612.0	1895.8
37.5°	672.6	686.4	712.7	721.9	731.2	772.8	829.9	930.2	1082.9	1309.6	1624.3
40°	621.7	629.4	643.2	651.0	657.1	686.4	737.3	805.2	917.8	1090.6	1380.6
42.5°	567.7	576.9	586.2	595.4	603.1	626.3	657.1	721.9	797.5	928.6	1138.4
45°	515.2	521.4	532.2	538.4	549.2	567.7	595.4	640.2	708.0	791.3	961.0
47.5°	467.4	475.1	479.7	487.4	495.2	515.2	541.4	570.7	626.3	708.0	831.4
50°	424.2	433.5	439.6	441.2	447.3	465.9	487.4	519.8	555.3	618.6	726.5
52.5°	393.4	394.9	399.5	405.7	404.2	414.9	435.0	459.7	496.7	547.6	626.3
55°	357.9	362.5	365.6	367.1	367.1	376.4	387.2	410.3	439.6	481.3	547.6
57.5°	313.1	317.8	327.0	330.1	334.7	339.4	344.0	359.4	384.1	424.2	478.2
60°	266.9	269.9	279.2	285.4	288.5	300.8	307.0	319.3	333.2	362.5	413.4
62.5°	214.4	217.5	222.1	228.3	234.5	253.0	268.4	280.7	291.5	311.6	353.2
65°	186.7	188.2	191.3	192.8	194.4	202.1	216.0	232.9	253.0	268.4	293.1
67.5°	162.0	163.5	165.1	168.1	169.7	171.2	177.4	182.0	202.1	223.7	242.2
70°	138.8	141.9	143.5	143.5	145.0	148.1	151.2	157.3	163.5	174.3	197.4
72.5°	117.2	118.8	121.9	121.9	121.9	124.9	128.0	131.1	134.2	140.4	149.6
75°	97.2	100.3	100.3	100.3	101.8	101.8	104.9	108.0	111.1	115.7	118.8
77.5°	80.2	80.2	80.2	80.2	81.8	81.8	83.3	86.4	87.9	89.5	92.6
80°	60.2	61.7	61.7	61.7	63.2	63.2	63.2	66.3	67.9	67.9	71.0
82.5°	44.7	44.7	44.7	46.3	44.7	46.3	46.3	47.8	46.3	47.8	49.4
85°	27.8	27.8	27.8	29.3	29.3	29.3	29.3	29.3	29.3	29.3	30.9
87.5°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	15.4	13.9	13.9
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: P987742

CATALOG NUMBER: S122R3DR-B290DB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7
2.5°	2266.0	2258.3	2258.3	2253.7	2253.7	2229.0	2229.0	2236.7	2227.5	2216.7	2201.2
5°	2324.6	2307.7	2303.0	2296.9	2276.8	2246.0	2233.6	2229.0	2210.5	2187.4	2161.1
7.5°	2380.2	2352.4	2338.5	2324.6	2298.4	2255.2	2230.5	2213.6	2185.8	2150.3	2116.4
10°	2434.2	2398.7	2363.2	2346.2	2309.2	2255.2	2219.7	2192.0	2151.9	2104.1	2056.2
12.5°	2483.5	2409.5	2403.3	2369.4	2315.4	2253.7	2199.7	2159.6	2108.7	2053.2	1997.6
15°	2526.7	2451.1	2414.1	2383.3	2312.3	2235.2	2178.1	2128.7	2060.9	1997.6	1929.7
17.5°	2548.3	2466.6	2441.9	2391.0	2318.5	2218.2	2141.1	2080.9	2006.9	1931.3	1854.2
20°	2569.9	2474.3	2434.2	2398.7	2300.0	2185.8	2099.4	2030.0	1948.3	1858.8	1773.9
22.5°	2580.7	2474.3	2426.5	2377.1	2281.5	2150.3	2048.5	1966.8	1871.1	1780.1	1678.3
25°	2562.2	2465.0	2407.9	2357.0	2249.1	2107.1	1989.9	1897.4	1795.5	1692.2	1588.8
27.5°	2515.9	2443.4	2377.1	2324.6	2204.3	2051.6	1928.2	1823.3	1718.4	1602.7	1497.8
30°	2429.5	2397.1	2344.7	2286.1	2155.0	2002.2	1855.7	1747.7	1632.0	1516.3	1406.8
32.5°	2295.3	2323.1	2289.2	2238.3	2096.3	1934.4	1778.6	1669.1	1542.6	1417.6	1317.3
35°	2131.8	2230.5	2212.0	2176.6	2034.6	1861.9	1706.1	1573.4	1446.9	1320.4	1220.2
37.5°	1952.9	2102.5	2117.9	2096.3	1963.7	1787.8	1616.6	1487.0	1357.5	1229.4	1127.6
40°	1707.6	1937.5	1986.8	1996.1	1889.6	1698.4	1519.4	1392.9	1264.9	1140.0	1016.5
42.5°	1482.4	1772.4	1834.1	1872.7	1795.5	1610.4	1430.0	1289.6	1163.1	1050.5	927.1
45°	1271.1	1573.4	1673.7	1723.0	1689.1	1510.2	1323.5	1192.4	1076.7	973.4	854.6
47.5°	1053.6	1357.5	1497.8	1576.5	1576.5	1408.4	1221.7	1092.1	981.1	893.1	788.2
50°	908.6	1161.5	1306.6	1409.9	1437.7	1305.0	1129.2	1002.7	897.8	802.1	721.9
52.5°	774.4	1001.1	1121.4	1229.4	1309.6	1193.9	1025.8	911.7	808.3	718.8	655.6
55°	669.5	839.2	948.7	1067.5	1156.9	1081.3	925.5	814.5	725.0	651.0	597.0
57.5°	569.2	717.3	806.8	911.7	1007.3	950.2	825.3	729.6	651.0	586.2	538.4
60°	484.4	604.7	674.1	755.9	874.6	834.5	731.2	643.2	580.0	521.4	481.3
62.5°	411.9	507.5	566.1	624.7	732.7	714.2	634.0	566.1	512.1	462.8	428.8
65°	337.8	416.5	462.8	513.7	600.1	607.8	543.0	495.2	445.8	402.6	371.8
67.5°	273.0	334.7	376.4	419.6	489.0	510.6	465.9	425.7	384.1	348.6	320.9
70°	220.6	263.8	294.6	328.6	385.6	411.9	388.7	361.0	327.0	297.7	273.0
72.5°	174.3	202.1	220.6	246.8	293.1	319.3	317.8	293.1	268.4	248.4	228.3
75°	128.0	149.6	165.1	182.0	219.0	243.7	249.9	239.1	214.4	199.0	183.6
77.5°	97.2	109.5	117.2	129.6	155.8	177.4	186.7	183.6	166.6	154.3	143.5
80°	74.0	77.1	80.2	84.8	106.4	126.5	132.7	131.1	121.9	117.2	104.9
82.5°	52.4	54.0	55.5	57.1	64.8	81.8	87.9	91.0	83.3	78.7	67.9
85°	30.9	32.4	32.4	35.5	37.0	41.6	52.4	52.4	50.9	44.7	43.2
87.5°	15.4	15.4	13.9	13.9	15.4	17.0	20.1	23.1	20.1	18.5	17.0
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):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7
2.5°	2195.1	2196.6	2201.2	2187.4	2165.8	2156.5	2128.7	2124.1	2119.5	2119.5	2124.1
5°	2145.7	2139.5	2141.1	2114.9	2084.0	2065.5	2026.9	2033.1	2013.0	2000.7	2003.8
7.5°	2091.7	2074.7	2073.2	2039.3	2000.7	1966.8	1926.7	1917.4	1898.9	1877.3	1868.0
10°	2023.8	2011.5	1988.4	1949.8	1900.4	1872.7	1818.7	1786.3	1781.7	1749.3	1736.9
12.5°	1954.4	1932.8	1909.7	1855.7	1800.2	1755.4	1715.3	1679.9	1655.2	1627.4	1608.9
15°	1874.2	1848.0	1821.8	1764.7	1699.9	1655.2	1595.0	1542.6	1470.1	1413.0	1380.6
17.5°	1786.3	1757.0	1721.5	1658.3	1595.0	1533.3	1422.2	1360.5	1309.6	1275.7	1255.6
20°	1695.3	1662.9	1627.4	1564.2	1454.6	1346.7	1285.0	1237.1	1206.3	1172.3	1147.7
22.5°	1599.6	1565.7	1527.1	1428.4	1312.7	1237.1	1189.3	1144.6	1099.8	1081.3	1069.0
25°	1510.2	1479.3	1430.0	1295.8	1204.7	1135.3	1081.3	1052.0	1028.9	1004.2	981.1
27.5°	1417.6	1360.5	1291.1	1178.5	1121.4	1050.5	1011.9	990.3	950.2	933.3	922.5
30°	1306.6	1243.3	1177.0	1096.8	1030.4	981.1	945.6	910.1	887.0	870.0	851.5
32.5°	1193.9	1133.8	1092.1	1008.8	959.5	908.6	874.6	853.0	819.1	808.3	800.6
35°	1096.8	1045.9	1008.8	941.0	894.7	848.4	823.7	791.3	769.7	749.7	737.3
37.5°	1001.1	973.4	934.8	877.7	828.4	791.3	757.4	746.6	717.3	706.5	694.2
40°	934.8	893.1	860.8	811.4	769.7	729.6	708.0	683.4	663.3	646.3	641.7
42.5°	854.6	823.7	805.2	751.2	708.0	684.9	658.7	630.9	615.5	601.6	584.6
45°	794.4	766.7	740.4	697.2	658.7	629.4	606.2	587.7	561.5	555.3	529.1
47.5°	731.2	703.4	683.4	640.2	604.7	576.9	560.0	535.3	513.7	499.8	487.4
50°	667.9	644.8	626.3	589.3	558.4	529.1	506.0	481.3	472.0	448.9	441.2
52.5°	607.8	592.3	572.3	536.8	506.0	481.3	456.6	436.5	422.7	410.3	401.1
55°	556.9	532.2	522.9	484.4	458.1	431.9	410.3	398.0	381.0	373.3	365.6
57.5°	499.8	485.9	470.5	441.2	411.9	387.2	371.8	353.2	344.0	334.7	328.6
60°	450.4	430.4	418.0	393.4	367.1	344.0	330.1	316.2	303.9	296.2	283.8
62.5°	393.4	377.9	370.2	344.0	322.4	300.8	288.5	274.6	265.3	251.4	236.0
65°	344.0	331.7	322.4	300.8	280.7	260.7	248.4	231.4	219.0	211.3	209.8
67.5°	300.8	291.5	277.7	257.6	237.6	222.1	208.2	194.4	192.8	189.7	189.7
70°	253.0	243.7	236.0	214.4	197.4	180.5	177.4	172.8	168.1	166.6	163.5
72.5°	211.3	203.6	194.4	175.9	158.9	154.3	151.2	148.1	143.5	141.9	140.4
75°	171.2	160.4	154.3	137.3	132.7	129.6	126.5	121.9	118.8	117.2	114.1
77.5°	131.1	120.3	120.3	111.1	108.0	103.4	100.3	97.2	95.6	92.6	92.6
80°	92.6	92.6	89.5	84.8	80.2	78.7	74.0	72.5	71.0	72.5	69.4
82.5°	67.9	61.7	61.7	58.6	55.5	54.0	50.9	50.9	49.4	49.4	49.4
85°	38.6	38.6	37.0	33.9	32.4	32.4	30.9	30.9	29.3	29.3	27.8
87.5°	15.4	13.9	15.4	13.9	13.9	12.3	12.3	12.3	10.8	12.3	10.8
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: P987742

CATALOG NUMBER: S122R3DR-B290DB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7
2.5°	2124.1	2121.0	2111.8	2114.9	2110.2	2110.2	2107.1	2107.1	2107.1	2114.9	2110.2
5°	2008.4	1997.6	1986.8	1982.2	1977.6	1972.9	1972.9	1971.4	1985.3	1982.2	1994.5
7.5°	1865.0	1861.9	1840.3	1840.3	1832.6	1829.5	1837.2	1838.7	1840.3	1843.4	1851.1
10°	1736.9	1729.2	1698.4	1701.4	1696.8	1690.6	1695.3	1692.2	1703.0	1706.1	1703.0
12.5°	1585.8	1571.9	1537.9	1521.0	1502.5	1488.6	1505.5	1493.2	1536.4	1548.7	1582.7
15°	1385.2	1359.0	1335.9	1335.9	1318.9	1306.6	1314.3	1328.1	1337.4	1351.3	1357.5
17.5°	1251.0	1240.2	1221.7	1210.9	1206.3	1201.7	1201.7	1207.8	1227.9	1226.3	1238.7
20°	1136.9	1130.7	1121.4	1107.6	1102.9	1099.8	1099.8	1099.8	1113.7	1126.1	1133.8
22.5°	1058.2	1053.6	1047.4	1028.9	1019.6	1016.5	1024.3	1028.9	1039.7	1048.9	1056.7
25°	979.5	968.7	957.9	951.8	947.1	947.1	950.2	951.8	956.4	961.0	970.3
27.5°	914.7	907.0	891.6	874.6	874.6	870.0	873.1	876.2	887.0	902.4	910.1
30°	842.2	840.7	834.5	828.4	822.2	819.1	825.3	829.9	831.4	839.2	839.2
32.5°	789.8	779.0	768.2	762.0	758.9	757.4	758.9	765.1	765.1	774.4	785.2
35°	737.3	731.2	720.4	709.6	706.5	698.8	705.0	711.1	721.9	726.5	731.2
37.5°	680.3	672.6	667.9	664.8	658.7	660.2	655.6	664.8	674.1	672.6	675.6
40°	637.1	623.2	609.3	607.8	606.2	604.7	604.7	606.2	612.4	618.6	627.8
42.5°	581.5	576.9	564.6	552.2	549.2	546.1	543.0	549.2	561.5	572.3	576.9
45°	524.5	518.3	515.2	506.0	499.8	498.2	495.2	502.9	513.7	518.3	521.4
47.5°	472.0	470.5	461.2	462.8	458.1	459.7	458.1	462.8	462.8	467.4	470.5
50°	436.5	431.9	427.3	424.2	419.6	419.6	418.0	419.6	425.7	431.9	430.4
52.5°	401.1	393.4	391.8	390.3	387.2	390.3	385.6	387.2	393.4	396.4	394.9
55°	359.4	357.9	354.8	351.7	350.2	348.6	348.6	348.6	354.8	359.4	361.0
57.5°	327.0	319.3	313.1	313.1	307.0	305.4	308.5	310.1	314.7	317.8	320.9
60°	282.3	279.2	269.9	265.3	256.1	254.5	254.5	260.7	268.4	279.2	282.3
62.5°	234.5	229.8	228.3	228.3	228.3	228.3	228.3	228.3	228.3	229.8	229.8
65°	208.2	209.8	208.2	206.7	208.2	208.2	206.7	206.7	206.7	208.2	209.8
67.5°	186.7	185.1	186.7	185.1	183.6	183.6	182.0	183.6	185.1	186.7	186.7
70°	162.0	162.0	160.4	162.0	160.4	158.9	157.3	157.3	160.4	162.0	162.0
72.5°	138.8	138.8	137.3	137.3	134.2	134.2	135.7	134.2	134.2	138.8	138.8
75°	115.7	114.1	112.6	112.6	111.1	111.1	111.1	109.5	112.6	112.6	114.1
77.5°	91.0	91.0	91.0	89.5	89.5	87.9	87.9	89.5	89.5	89.5	91.0
80°	69.4	69.4	69.4	67.9	66.3	66.3	66.3	66.3	66.3	67.9	66.3
82.5°	47.8	47.8	47.8	47.8	47.8	46.3	46.3	46.3	47.8	47.8	46.3
85°	29.3	27.8	29.3	29.3	27.8	29.3	27.8	27.8	26.2	26.2	27.8
87.5°	12.3	10.8	9.3	9.3	10.8	9.3	9.3	9.3	10.8	9.3	9.3
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: P987742

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7	2219.7
2.5°	2114.9	2122.6	2119.5	2102.5	2119.5	2124.1	2133.4	2142.6	2148.8	2158.0	2165.8
5°	1982.2	1997.6	2006.9	1997.6	2028.5	2033.1	2054.7	2067.0	2085.5	2101.0	2113.3
7.5°	1857.2	1869.6	1888.1	1891.2	1909.7	1931.3	1962.1	1993.0	2022.3	2037.7	2051.6
10°	1723.0	1744.6	1772.4	1766.2	1794.0	1827.9	1860.3	1909.7	1934.4	1962.1	1986.8
12.5°	1588.8	1602.7	1639.7	1652.1	1692.2	1718.4	1763.1	1794.0	1855.7	1888.1	1909.7
15°	1354.4	1411.4	1457.7	1513.3	1565.7	1615.1	1655.2	1710.7	1764.7	1789.4	1824.9
17.5°	1247.9	1274.2	1301.9	1329.7	1397.6	1485.5	1556.4	1616.6	1662.9	1695.3	1736.9
20°	1136.9	1163.1	1193.9	1220.2	1261.8	1325.1	1413.0	1516.3	1571.9	1605.8	1645.9
22.5°	1058.2	1082.9	1102.9	1126.1	1158.5	1204.7	1271.1	1399.1	1473.1	1514.8	1550.3
25°	973.4	1004.2	1025.8	1042.8	1069.0	1119.9	1173.9	1246.4	1379.1	1411.4	1460.8
27.5°	914.7	924.0	948.7	974.9	1001.1	1028.9	1084.4	1146.1	1235.6	1306.6	1366.7
30°	845.3	868.5	891.6	902.4	925.5	965.6	999.6	1065.9	1135.3	1190.9	1263.4
32.5°	792.9	806.8	822.2	848.4	870.0	897.8	931.7	987.2	1045.9	1081.3	1136.9
35°	734.3	743.5	775.9	786.7	808.3	836.1	870.0	913.2	976.4	1004.2	1044.3
37.5°	678.7	700.3	709.6	734.3	754.3	782.1	806.8	856.1	897.8	930.2	967.2
40°	635.5	644.8	661.8	683.4	700.3	721.9	752.8	788.2	833.0	859.2	891.6
42.5°	583.1	590.8	612.4	624.7	652.5	672.6	691.1	734.3	774.4	794.4	826.8
45°	526.0	544.5	558.4	583.1	598.5	623.2	646.3	677.2	714.2	737.3	755.9
47.5°	476.7	495.2	509.0	532.2	556.9	567.7	592.3	624.7	658.7	677.2	703.4
50°	436.5	442.7	468.9	479.7	506.0	527.6	544.5	572.3	609.3	620.1	641.7
52.5°	398.0	402.6	419.6	433.5	456.6	475.1	496.7	522.9	553.8	570.7	587.7
55°	364.0	367.1	374.8	390.3	405.7	428.8	448.9	473.6	499.8	518.3	533.7
57.5°	325.5	331.7	337.8	347.1	362.5	384.1	405.7	428.8	450.4	462.8	482.8
60°	280.7	290.0	300.8	311.6	322.4	337.8	362.5	384.1	404.2	414.9	430.4
62.5°	232.9	251.4	260.7	273.0	282.3	296.2	314.7	339.4	353.2	367.1	379.5
65°	209.8	211.3	212.9	225.2	242.2	256.1	273.0	291.5	313.1	322.4	331.7
67.5°	186.7	188.2	191.3	192.8	199.0	214.4	232.9	253.0	269.9	276.1	285.4
70°	163.5	163.5	169.7	171.2	172.8	174.3	189.7	209.8	225.2	232.9	243.7
72.5°	138.8	140.4	143.5	145.0	148.1	151.2	155.8	166.6	185.1	192.8	205.2
75°	114.1	115.7	117.2	118.8	123.4	124.9	129.6	135.7	143.5	152.7	160.4
77.5°	91.0	91.0	92.6	95.6	98.7	100.3	104.9	108.0	111.1	115.7	121.9
80°	67.9	69.4	69.4	72.5	72.5	74.0	75.6	80.2	83.3	86.4	89.5
82.5°	46.3	49.4	49.4	49.4	50.9	52.4	54.0	54.0	57.1	58.6	63.2
85°	27.8	29.3	29.3	29.3	27.8	30.9	30.9	32.4	32.4	32.4	33.9
87.5°	10.8	9.3	10.8	10.8	10.8	12.3	10.8	10.8	12.3	13.9	13.9
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: P987742

CATALOG NUMBER: S122R3DR-B290DB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	2219.7	2219.7	2219.7	2219.7
2.5°	2179.6	2175.0	2202.8	2233.6
5°	2134.9	2142.6	2178.1	2221.3
7.5°	2088.6	2105.6	2147.2	2204.3
10°	2023.8	2054.7	2117.9	2176.6
12.5°	1960.6	2002.2	2062.4	2131.8
15°	1889.6	1935.9	2010.0	2093.3
17.5°	1811.0	1863.4	1949.8	2040.8
20°	1727.7	1797.1	1888.1	1986.8
22.5°	1635.1	1718.4	1812.5	1922.0
25°	1545.6	1636.7	1730.8	1857.2
27.5°	1457.7	1547.2	1652.1	1780.1
30°	1369.8	1451.6	1564.2	1701.4
32.5°	1275.7	1360.5	1479.3	1619.7
35°	1189.3	1274.2	1385.2	1524.1
37.5°	1096.8	1187.8	1294.2	1437.7
40°	988.8	1095.2	1198.6	1335.9
42.5°	899.3	1011.9	1112.2	1241.8
45°	828.4	934.8	1018.1	1144.6
47.5°	762.0	848.4	933.3	1050.5
50°	698.8	765.1	853.0	957.9
52.5°	634.0	691.1	766.7	865.4
55°	575.4	629.4	697.2	772.8
57.5°	521.4	560.0	627.8	695.7
60°	461.2	501.3	553.8	610.9
62.5°	410.3	441.2	490.5	538.4
65°	356.3	385.6	422.7	467.4
67.5°	307.0	333.2	362.5	398.0
70°	262.2	282.3	303.9	334.7
72.5°	214.4	236.0	256.1	280.7
75°	175.9	185.1	202.1	219.0
77.5°	135.7	148.1	157.3	171.2
80°	97.2	108.0	111.1	121.9
82.5°	64.8	71.0	77.1	80.2
85°	37.0	40.1	46.3	47.8
87.5°	13.9	15.4	18.5	21.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)