

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: P1037326

Luminaire Tested: S123DS-B560DB2750-4F0-XX-W2A-A_5000K

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1037326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DS-B560DB2750-4F0-XX-W2A-A_5000K
Description: Define 3 Direct Surface with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

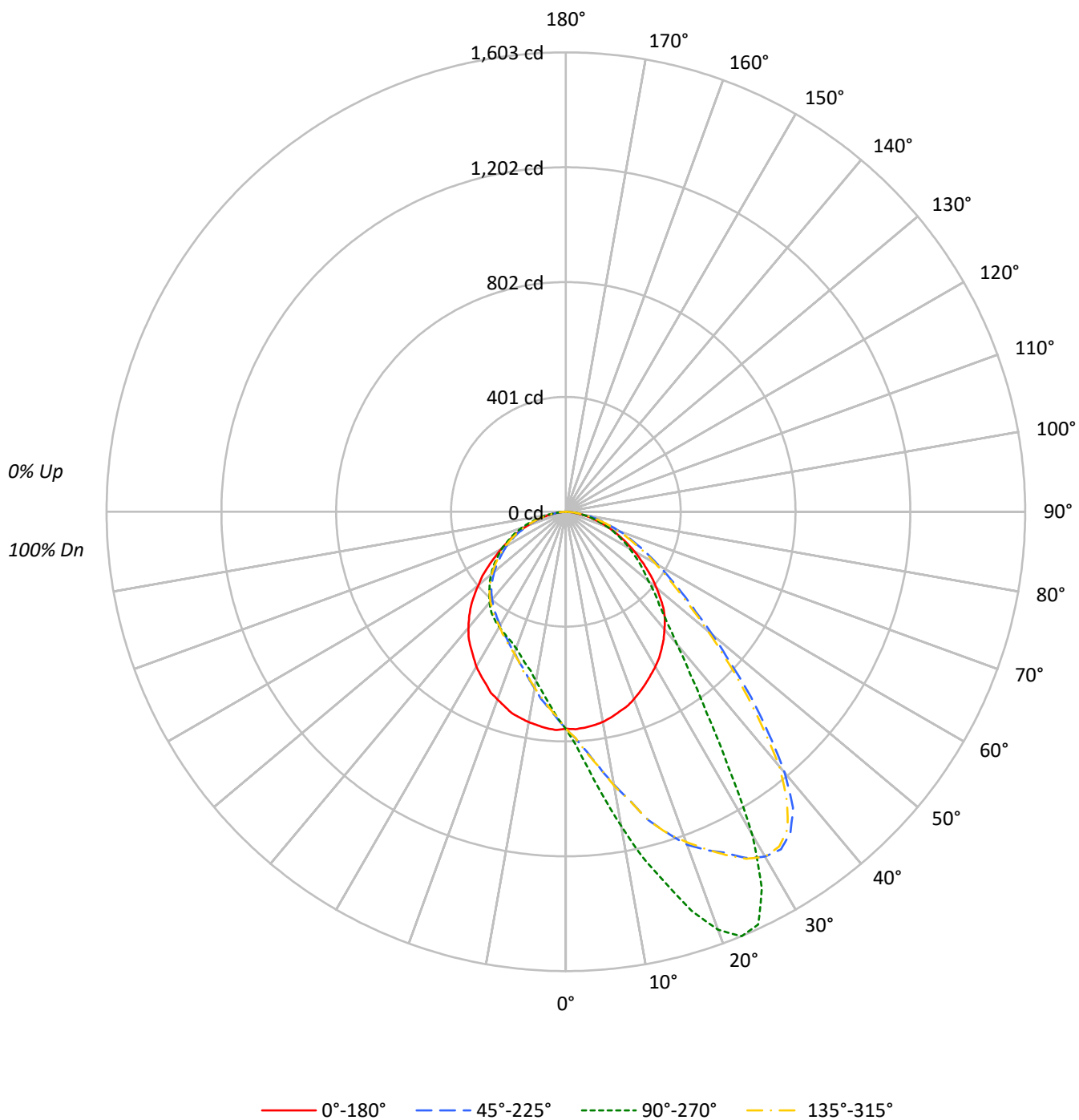
Lumens per Lamp: N/A
Luminaire Lumens: 2285.0 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	53		
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49	47		
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	48	43	41		
7	67	54	45	39	65	53	45	39	52	44	39	50	44	39	49	43	38	36		
8	62	49	41	35	61	49	41	35	47	40	35	46	39	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	43	36	32	42	36	31	41	36	31	29		
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8149	8149	8149	8149
5°	8173	9718	8197	7253
10°	8138	12164	8146	6551
15°	8045	14919	8109	6099
20°	7967	17773	7983	5806
25°	7841	18872	7859	5741
30°	7759	16175	7759	5772
35°	7654	11249	7606	5832
40°	7524	8473	7432	5814
45°	7359	7036	7147	5740
50°	6916	6301	6670	5689
55°	6429	5893	6168	5617
60°	5937	5528	5623	5558
65°	5400	5193	5137	5382
70°	4850	4872	4526	5127
75°	4242	4363	3968	4700
80°	3502	3818	3230	4048
85°	2717	2989	2174	2717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 16427 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	3.3
10°-20°	239.1	10.5
20°-30°	402.4	17.6
30°-40°	454.7	19.9
40°-50°	407.3	17.8
50°-60°	328.8	14.4
60°-70°	229.1	10.0
70°-80°	120.2	5.3
80°-90°	28.8	1.3
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°	716.0	31.3
0°-40°	1170.7	51.2
0°-60°	1906.8	83.4
0°-90°	2285.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2285.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	757	757	757	757	757	
5°	756	899	759	671	756	72
15°	722	1339	728	547	722	204
25°	660	1589	662	483	660	305
35°	582	856	579	444	582	365
45°	483	462	470	377	483	370
55°	343	314	329	299	343	307
65°	212	204	202	211	212	211
75°	102	105	95	113	102	109
85°	22	24	18	22	22	27
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°	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1
2.5°	759.3	765.2	768.1	772.5	776.9	783.5	785.7	789.4	787.9	790.8	792.3
5°	756.4	766.6	775.4	786.4	796.7	804.0	811.4	823.1	831.9	833.4	840.0
7.5°	751.2	765.9	781.3	796.7	816.5	828.2	841.4	857.6	870.8	892.1	900.1
10°	744.6	765.2	787.2	808.4	835.6	853.9	870.1	897.2	924.3	946.4	966.9
12.5°	734.3	760.0	788.6	820.2	855.4	876.7	898.7	934.6	975.7	1009.4	1031.5
15°	721.9	754.1	790.8	824.6	863.5	903.1	926.5	966.9	1025.6	1057.1	1113.6
17.5°	711.6	744.6	781.3	834.1	886.9	926.5	943.4	1017.5	1057.9	1110.7	1174.5
20°	695.5	737.3	784.2	837.0	905.3	929.5	964.0	1038.8	1088.7	1157.6	1236.1
22.5°	678.6	723.3	779.8	834.8	911.1	936.8	983.8	1043.2	1122.4	1190.6	1277.2
25°	660.2	708.7	765.9	831.2	906.0	943.4	987.4	1060.8	1146.6	1232.5	1312.4
27.5°	641.9	694.7	754.1	819.4	892.1	936.1	980.1	1056.4	1166.4	1259.6	1361.6
30°	624.3	677.1	736.5	803.3	879.6	922.1	964.0	1059.3	1181.8	1286.7	1389.5
32.5°	605.2	659.5	721.9	777.6	854.7	900.1	947.1	1059.3	1191.4	1302.9	1396.8
35°	582.5	638.2	691.8	747.5	823.8	874.5	927.3	1052.0	1200.2	1308.0	1366.0
37.5°	560.5	609.6	655.8	710.1	790.1	844.4	905.3	1043.2	1195.8	1286.0	1302.2
40°	535.5	584.7	622.1	672.7	757.1	820.2	881.8	1031.5	1176.7	1233.9	1187.0
42.5°	511.3	550.2	582.5	631.6	723.3	785.0	851.7	1010.2	1139.3	1151.0	1045.4
45°	483.4	511.3	539.9	595.7	686.7	749.7	823.8	979.4	1079.1	1045.4	911.9
47.5°	447.5	472.4	504.0	555.3	647.8	713.1	783.5	939.8	991.8	921.4	775.4
50°	413.0	434.3	463.6	513.5	606.7	670.5	745.3	877.4	903.1	792.3	668.3
52.5°	378.5	394.7	423.3	473.2	566.3	628.0	696.2	813.6	798.9	680.1	570.0
55°	342.6	356.5	383.7	432.8	519.4	578.1	643.4	735.1	696.9	584.0	495.9
57.5°	307.4	322.1	349.9	391.0	472.4	529.7	581.8	653.6	596.4	506.2	428.4
60°	275.8	288.3	309.6	349.9	424.0	470.2	517.9	567.1	519.4	432.1	372.7
62.5°	242.8	254.6	274.4	311.0	374.9	416.0	454.1	494.5	441.6	377.8	325.0
65°	212.0	221.5	239.9	273.6	325.7	359.5	390.3	418.2	375.6	316.9	277.3
67.5°	184.1	192.2	207.6	237.7	281.7	305.9	330.9	354.3	318.4	271.4	237.7
70°	154.1	160.7	174.6	196.6	231.8	256.8	275.1	292.7	260.4	223.0	200.3
72.5°	127.6	134.3	143.1	165.8	190.0	205.4	225.2	234.8	216.4	185.6	162.9
75°	102.0	107.1	115.2	129.8	152.6	162.9	175.3	182.7	165.8	145.3	131.3
77.5°	80.0	82.2	88.0	98.3	113.7	125.4	135.0	139.4	127.6	114.4	102.7
80°	56.5	59.4	63.8	72.6	84.4	88.0	93.9	99.0	91.7	80.0	72.6
82.5°	37.4	41.1	43.3	47.0	54.3	58.7	60.2	64.6	58.0	53.6	50.6
85°	22.0	23.5	24.2	26.4	30.1	32.3	34.5	35.2	33.7	33.0	30.1
87.5°	11.0	11.0	11.0	12.5	13.2	14.7	15.4	15.4	15.4	14.7	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1
2.5°	797.4	798.9	804.0	807.7	815.0	814.3	814.3	813.6	811.4	815.0	817.2
5°	853.2	865.7	867.1	883.3	884.0	890.6	895.0	891.3	900.1	899.4	892.8
7.5°	922.1	939.0	947.1	962.5	980.1	975.7	992.6	995.5	994.0	1001.4	1006.5
10°	997.7	1027.1	1047.6	1076.2	1083.5	1087.9	1098.9	1108.5	1127.6	1112.9	1122.4
12.5°	1084.3	1105.5	1132.7	1178.2	1200.9	1215.6	1220.7	1227.3	1240.5	1232.5	1233.2
15°	1156.9	1185.5	1231.7	1288.2	1294.8	1313.2	1308.8	1348.4	1367.4	1338.8	1355.0
17.5°	1232.5	1270.6	1325.6	1374.8	1402.7	1415.1	1426.9	1465.0	1463.5	1459.1	1462.8
20°	1280.9	1343.2	1411.5	1476.8	1484.8	1494.4	1525.9	1542.0	1539.1	1551.6	1559.7
22.5°	1349.1	1415.1	1487.8	1531.0	1549.4	1560.4	1585.3	1595.6	1600.0	1602.9	1597.8
25°	1406.3	1476.8	1530.3	1568.5	1579.5	1585.3	1593.4	1596.3	1594.1	1589.0	1593.4
27.5°	1445.2	1501.7	1538.4	1556.0	1550.1	1540.6	1525.2	1514.9	1492.2	1481.2	1494.4
30°	1461.3	1486.3	1497.3	1467.9	1438.6	1415.1	1385.8	1331.5	1288.9	1301.4	1284.5
32.5°	1435.7	1419.5	1366.7	1291.2	1268.4	1230.3	1147.4	1083.5	1085.7	1052.0	1065.9
35°	1360.1	1286.7	1187.0	1072.5	1042.5	1021.9	930.9	917.0	887.7	856.1	864.9
37.5°	1226.6	1119.5	998.4	914.1	869.3	824.6	773.2	742.4	724.8	711.6	721.9
40°	1063.7	933.1	833.4	757.8	719.7	691.1	655.8	625.0	605.2	603.0	606.7
42.5°	903.8	793.8	702.1	630.2	617.7	584.0	561.2	537.0	531.1	521.6	526.7
45°	765.2	675.7	600.1	541.4	526.7	517.9	490.1	474.6	468.0	462.2	471.0
47.5°	664.6	570.7	515.7	480.5	465.8	451.2	435.8	425.5	420.4	421.1	420.4
50°	567.8	498.9	450.4	423.3	414.5	404.2	391.7	385.1	382.9	376.3	381.5
52.5°	488.6	438.7	405.0	379.3	372.7	365.3	355.1	351.4	346.3	344.8	344.8
55°	424.8	385.9	358.7	341.9	333.8	327.9	322.1	317.7	314.0	314.0	314.0
57.5°	374.9	341.1	321.3	306.6	303.7	297.8	291.2	291.2	286.1	285.4	287.6
60°	332.3	302.2	286.8	274.4	270.0	268.5	261.9	261.9	260.4	256.8	259.7
62.5°	289.0	267.0	253.8	244.3	239.9	239.9	234.8	231.1	231.1	231.8	230.4
65°	249.4	233.3	221.5	214.2	212.0	209.1	208.3	205.4	203.2	203.9	203.2
67.5°	214.2	201.7	193.7	187.8	184.1	182.7	180.5	180.5	179.0	179.7	176.1
70°	182.7	170.2	163.6	157.7	156.3	156.3	153.3	154.1	152.6	154.8	153.3
72.5°	150.4	140.9	135.7	133.5	132.0	131.3	129.8	128.4	127.6	129.1	128.4
75°	121.8	113.7	110.0	108.6	107.1	107.1	106.4	105.6	104.9	104.9	104.9
77.5°	94.6	89.5	85.1	86.6	84.4	85.1	82.9	82.9	83.6	82.9	82.9
80°	69.7	66.0	66.0	64.6	61.6	63.1	63.1	60.9	60.2	61.6	59.4
82.5°	46.2	45.5	44.0	43.3	41.8	42.5	41.8	41.1	40.3	41.8	40.3
85°	27.1	27.1	26.4	24.9	26.4	25.7	24.9	24.9	24.2	24.2	24.2
87.5°	13.9	12.5	12.5	11.7	12.5	11.0	11.7	11.0	10.3	11.0	10.3
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1
2.5°	811.4	813.6	807.7	806.2	806.2	809.2	807.0	787.2	790.8	786.4	785.0
5°	900.9	896.5	890.6	887.7	884.0	873.7	873.0	850.3	845.9	831.2	824.6
7.5°	999.2	995.5	977.9	975.7	974.2	964.7	940.5	916.3	898.7	881.8	865.7
10°	1111.4	1100.4	1092.3	1076.2	1068.1	1054.9	1023.4	1000.6	970.6	944.9	911.1
12.5°	1246.4	1233.9	1206.8	1195.0	1184.8	1148.1	1116.6	1090.9	1032.2	1014.6	972.8
15°	1345.4	1319.0	1316.1	1290.4	1288.9	1248.6	1188.4	1160.6	1115.1	1050.5	1007.2
17.5°	1452.5	1429.1	1410.7	1379.9	1375.5	1337.4	1293.4	1225.1	1175.2	1113.6	1058.6
20°	1531.0	1518.6	1487.0	1474.6	1448.9	1416.6	1371.1	1286.7	1225.9	1164.2	1096.7
22.5°	1593.4	1580.9	1556.0	1539.1	1524.4	1482.6	1428.3	1356.4	1272.8	1192.1	1122.4
25°	1592.7	1589.0	1578.7	1570.7	1559.7	1528.8	1483.4	1414.4	1321.2	1232.5	1135.6
27.5°	1502.4	1512.7	1530.3	1539.1	1536.9	1532.5	1506.8	1448.9	1365.2	1259.6	1151.0
30°	1314.6	1352.0	1385.1	1429.1	1442.3	1474.6	1489.2	1456.2	1389.5	1291.2	1170.8
32.5°	1090.1	1144.4	1216.3	1240.5	1282.3	1344.7	1414.4	1426.9	1385.1	1309.5	1183.3
35°	894.3	939.0	994.8	1032.9	1070.3	1171.6	1259.6	1335.9	1349.8	1300.0	1180.4
37.5°	740.2	771.8	820.9	853.2	887.7	974.2	1097.5	1196.5	1266.2	1267.7	1172.3
40°	628.7	642.6	685.2	708.7	741.7	816.5	926.5	1055.7	1157.6	1204.6	1151.0
42.5°	532.6	550.9	586.2	603.8	625.0	690.3	763.0	885.5	1011.6	1112.1	1111.4
45°	475.4	488.6	504.7	519.4	543.6	582.5	665.4	757.1	878.1	991.8	1036.6
47.5°	424.8	437.2	453.4	457.8	473.9	510.6	561.2	641.2	754.1	867.1	951.5
50°	382.2	392.5	403.5	411.6	418.9	449.0	487.1	554.6	644.8	754.1	859.1
52.5°	349.2	356.5	366.1	370.5	377.1	399.1	428.4	478.3	552.4	652.2	754.1
55°	318.4	323.5	329.4	336.7	339.7	355.8	378.5	421.1	476.1	565.6	662.4
57.5°	289.8	292.0	295.6	300.0	303.7	317.7	337.5	366.1	414.5	483.4	575.1
60°	257.5	263.4	265.6	270.0	272.2	283.2	298.6	322.8	360.2	419.6	488.6
62.5°	230.4	234.0	237.7	239.9	245.0	248.7	261.2	283.2	314.0	358.0	420.4
65°	206.1	207.6	209.8	212.0	213.5	217.9	229.6	244.3	267.8	306.6	355.1
67.5°	178.3	179.7	182.7	183.4	184.9	190.7	197.3	209.8	229.6	259.0	298.6
70°	151.1	153.3	154.8	156.3	158.5	160.7	168.0	178.3	193.7	214.2	245.0
72.5°	127.6	129.8	129.8	131.3	130.6	133.5	140.9	148.2	158.5	175.3	202.5
75°	104.2	104.2	105.6	106.4	107.1	110.0	113.0	118.8	126.9	140.1	157.0
77.5°	82.2	81.4	82.9	82.9	82.9	85.1	88.0	91.0	96.1	105.6	118.8
80°	60.2	60.2	61.6	62.4	60.9	61.6	63.1	66.0	69.7	76.3	83.6
82.5°	39.6	42.5	41.8	42.5	41.8	43.3	44.0	44.8	46.2	49.2	54.3
85°	24.2	24.2	24.2	24.9	24.2	24.9	24.9	24.9	25.7	27.1	29.3
87.5°	10.3	10.3	10.3	11.0	10.3	10.3	11.0	10.3	11.0	11.0	11.7
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: P1037326

CATALOG NUMBER: S123DS-B560DB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1
2.5°	777.6	775.4	775.4	774.0	769.6	761.5	760.8	762.2	757.8	753.4	746.8
5°	815.8	801.8	797.4	793.0	784.2	769.6	763.7	758.6	750.5	740.9	730.7
7.5°	848.1	828.2	822.4	814.3	796.7	776.2	763.0	751.9	740.9	727.7	715.3
10°	888.4	859.8	845.9	834.1	809.9	781.3	761.5	745.3	727.7	711.6	695.5
12.5°	933.9	887.7	883.3	854.7	826.8	784.2	760.0	736.5	713.1	693.3	676.4
15°	972.0	921.4	903.1	884.0	830.4	777.6	754.1	727.7	700.6	679.3	654.4
17.5°	996.2	954.4	915.5	889.9	834.1	787.2	741.7	711.6	683.0	653.6	633.1
20°	1025.6	964.7	930.9	896.5	841.4	779.8	734.3	696.9	661.7	635.3	610.4
22.5°	1054.9	972.8	944.9	907.5	842.9	772.5	721.1	683.7	643.4	617.0	589.8
25°	1052.0	984.5	938.3	906.7	828.2	765.9	705.7	661.7	624.3	590.6	563.4
27.5°	1054.2	971.3	924.3	887.7	818.0	756.4	689.6	643.4	604.5	569.3	540.7
30°	1054.9	951.5	910.4	866.4	798.9	733.6	671.3	624.3	583.2	545.1	519.4
32.5°	1052.7	935.4	884.0	844.4	768.8	711.6	650.0	600.1	558.3	523.1	498.9
35°	1047.6	916.3	856.9	807.0	738.0	680.1	630.2	578.8	534.1	501.8	473.9
37.5°	1033.7	895.7	828.2	779.1	702.1	643.4	599.4	556.8	513.5	475.4	451.9
40°	1023.4	867.9	799.6	746.1	663.2	606.0	569.3	528.9	486.4	451.9	429.2
42.5°	999.9	841.4	770.3	706.5	625.0	566.3	531.9	499.6	462.9	429.2	408.6
45°	961.8	812.8	734.3	669.8	583.2	527.5	495.9	469.5	437.2	405.0	384.4
47.5°	908.2	771.8	696.2	631.6	542.1	485.6	454.1	434.3	408.6	381.5	363.9
50°	850.3	727.0	657.3	593.5	502.5	447.5	416.7	398.3	381.5	356.5	339.7
52.5°	774.7	679.3	612.6	551.7	460.0	407.2	380.0	366.8	349.2	331.6	316.9
55°	701.3	617.7	562.7	504.7	418.2	369.0	342.6	328.7	318.4	303.7	292.0
57.5°	616.2	560.5	509.9	457.0	379.3	334.5	309.6	292.7	286.1	279.5	268.5
60°	537.7	495.2	454.1	410.1	338.9	298.6	274.4	261.2	254.6	250.2	242.8
62.5°	465.8	432.8	397.6	362.4	297.8	261.2	242.8	229.6	223.8	223.0	216.4
65°	396.9	373.4	344.8	310.3	259.7	227.4	209.8	201.7	195.1	195.1	190.0
67.5°	327.9	311.8	289.0	264.8	225.2	195.1	179.0	171.7	168.0	168.0	164.3
70°	272.9	261.9	241.4	220.1	185.6	162.9	150.4	143.8	141.6	142.3	139.4
72.5°	221.5	209.8	192.9	177.5	151.9	135.0	126.2	118.8	115.2	115.9	115.2
75°	171.7	165.8	151.1	139.4	118.8	107.1	99.0	95.4	92.4	93.2	91.7
77.5°	129.1	120.3	112.2	104.2	91.7	82.2	75.6	71.9	69.7	69.7	69.7
80°	88.0	86.6	80.0	75.6	65.3	58.0	52.8	52.1	49.9	49.9	49.9
82.5°	57.2	53.6	49.9	47.0	41.1	36.7	34.5	33.0	32.3	31.5	33.0
85°	31.5	29.3	27.9	24.9	22.7	20.5	18.3	17.6	16.9	17.6	16.9
87.5°	12.5	10.3	10.3	9.5	8.8	8.1	8.1	6.6	6.6	5.9	5.9
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: P1037326

CATALOG NUMBER: S123DS-B560DB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1
2.5°	745.3	744.6	746.1	741.7	734.3	730.7	720.4	718.2	717.5	718.2	718.9
5°	724.8	724.1	721.9	714.5	705.7	699.1	686.7	685.9	681.5	677.1	679.3
7.5°	705.0	702.1	697.7	688.1	676.4	669.1	658.8	651.4	645.6	641.9	639.0
10°	685.2	680.8	676.4	663.9	649.2	638.2	625.8	619.9	613.3	610.4	607.4
12.5°	659.5	655.1	647.0	632.4	623.6	609.6	597.2	591.3	587.6	581.8	578.1
15°	639.0	630.2	625.8	610.4	592.0	590.6	567.8	566.3	559.0	559.0	553.1
17.5°	615.5	608.9	600.8	585.4	572.2	559.0	547.3	542.9	536.3	534.8	531.9
20°	592.8	584.0	581.0	565.6	551.7	535.5	523.1	518.7	515.7	512.8	515.0
22.5°	569.3	561.9	554.6	540.7	530.4	514.3	506.9	502.5	498.1	496.7	497.4
25°	546.5	539.9	532.6	518.7	507.7	494.5	487.8	485.6	483.4	483.4	482.7
27.5°	524.5	517.9	511.3	498.9	487.8	478.3	473.2	471.0	468.8	470.2	471.7
30°	501.8	495.9	490.1	479.0	470.2	461.4	458.5	457.0	456.3	460.0	460.0
32.5°	481.2	476.1	471.7	461.4	452.6	445.3	443.1	443.8	444.6	446.8	448.2
35°	460.0	456.3	451.9	443.1	435.8	429.2	429.9	429.9	431.4	435.0	438.0
37.5°	440.9	435.8	432.1	424.8	418.9	413.0	415.2	417.4	418.9	423.3	424.8
40°	418.2	416.0	413.0	405.7	400.6	399.8	400.6	402.0	405.0	407.2	409.4
42.5°	399.8	396.9	393.2	387.3	382.9	383.7	384.4	385.9	387.3	391.0	393.2
45°	379.3	377.1	374.1	369.0	365.3	366.1	366.8	366.8	368.3	372.7	374.1
47.5°	356.5	357.3	353.6	348.5	346.3	346.3	346.3	347.7	351.4	352.9	353.6
50°	334.5	333.1	332.3	327.2	325.7	325.0	325.7	326.5	331.6	330.9	333.1
52.5°	311.0	311.0	310.3	307.4	305.2	305.2	303.7	307.4	308.8	310.3	312.5
55°	288.3	286.1	285.4	283.9	281.0	280.2	281.7	286.1	287.6	289.0	291.2
57.5°	263.4	263.4	261.9	259.7	259.7	259.7	259.7	262.6	264.8	266.3	270.7
60°	240.6	237.7	235.5	235.5	235.5	234.8	239.2	239.2	243.6	244.3	245.8
62.5°	213.5	212.0	210.5	211.3	210.5	212.0	213.5	216.4	217.1	219.3	221.5
65°	187.8	187.8	186.3	190.7	187.8	187.8	191.5	191.5	192.9	195.1	198.1
67.5°	162.9	163.6	162.1	162.1	163.6	164.3	165.1	168.0	168.7	171.7	175.3
70°	137.2	138.7	139.4	137.9	139.4	140.9	142.3	143.1	146.0	147.5	149.7
72.5°	114.4	115.9	113.7	114.4	115.2	116.6	117.4	118.8	120.3	124.7	126.2
75°	91.7	91.0	90.2	93.2	91.7	94.6	95.4	95.4	96.8	100.5	102.0
77.5°	70.4	70.4	71.2	69.7	71.9	71.2	71.9	74.1	76.3	76.3	82.2
80°	49.2	50.6	50.6	50.6	51.4	52.1	50.6	54.3	55.0	55.0	57.2
82.5°	31.5	32.3	31.5	33.0	33.0	34.5	33.7	34.5	35.9	37.4	38.1
85°	16.9	16.9	18.3	18.3	17.6	18.3	17.6	18.3	19.8	19.8	20.5
87.5°	5.9	5.9	5.9	5.9	6.6	5.9	6.6	6.6	5.9	5.9	8.1
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: P1037326

CATALOG NUMBER: S123DS-B560DB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1
2.5°	718.2	718.9	716.0	713.8	719.7	716.0	716.0	716.7	715.3	717.5	716.7
5°	677.9	678.6	673.5	674.9	672.0	671.3	670.5	674.9	674.2	673.5	674.9
7.5°	638.2	638.2	636.0	634.6	634.6	632.4	635.3	634.6	636.0	636.0	638.2
10°	605.2	606.7	603.0	599.4	598.6	599.4	599.4	600.1	600.8	606.0	605.2
12.5°	578.1	575.9	575.1	572.9	569.3	567.8	566.3	574.4	572.2	572.2	572.2
15°	548.0	553.1	552.4	545.8	544.3	547.3	545.8	545.8	553.1	552.4	551.7
17.5°	531.9	530.4	528.9	525.3	526.0	525.3	526.0	526.0	530.4	530.4	530.4
20°	513.5	510.6	510.6	509.1	509.1	506.9	509.9	510.6	513.5	513.5	514.3
22.5°	497.4	495.2	495.2	494.5	495.9	493.0	495.9	496.7	496.7	498.9	498.9
25°	483.4	482.0	482.0	483.4	483.4	483.4	483.4	486.4	484.2	484.9	484.2
27.5°	471.0	471.7	472.4	473.2	472.4	473.2	473.9	475.4	476.1	475.4	473.9
30°	459.2	461.4	462.2	462.2	463.6	464.4	465.1	465.1	465.8	463.6	465.1
32.5°	450.4	450.4	451.9	452.6	454.1	454.8	454.8	456.3	455.6	453.4	454.1
35°	438.0	438.0	440.9	442.4	444.6	443.8	444.6	444.6	445.3	443.8	441.6
37.5°	425.5	427.0	427.0	429.9	430.6	431.4	430.6	432.1	431.4	429.9	429.2
40°	410.8	410.1	410.8	413.0	413.8	413.8	413.8	415.2	415.2	415.2	414.5
42.5°	392.5	394.7	393.9	396.1	395.4	395.4	396.9	398.3	399.1	396.9	397.6
45°	374.9	374.9	376.3	376.3	377.1	377.1	380.0	378.5	380.0	378.5	379.3
47.5°	355.8	356.5	356.5	357.3	358.7	360.2	358.7	359.5	359.5	360.2	358.7
50°	334.5	334.5	336.0	338.2	341.1	339.7	338.9	341.9	339.7	339.7	338.2
52.5°	312.5	314.7	315.5	317.7	319.9	320.6	321.3	319.9	320.6	318.4	319.1
55°	291.2	292.0	294.9	297.1	299.3	299.3	298.6	299.3	300.0	297.1	297.1
57.5°	270.0	272.2	275.1	275.1	278.0	278.0	277.3	277.3	278.0	275.8	275.1
60°	247.2	249.4	253.1	253.1	257.5	258.2	256.8	255.3	255.3	253.1	253.8
62.5°	223.0	225.2	227.4	231.1	234.0	232.6	235.5	232.6	233.3	228.9	228.9
65°	201.7	202.5	206.1	209.8	209.8	211.3	209.8	210.5	208.3	208.3	205.4
67.5°	176.8	176.8	180.5	184.1	187.8	187.8	187.8	185.6	185.6	183.4	183.4
70°	154.8	154.1	157.7	159.9	162.1	162.9	161.4	160.7	159.2	157.0	156.3
72.5°	127.6	129.1	132.8	134.3	137.9	137.2	140.9	136.5	136.5	132.8	132.0
75°	103.4	104.9	108.6	110.8	113.0	113.0	115.2	113.0	110.0	108.6	107.8
77.5°	82.2	81.4	84.4	88.0	88.8	88.0	89.5	88.8	85.8	85.8	84.4
80°	58.7	60.9	63.8	63.1	66.0	65.3	65.3	63.8	63.8	61.6	63.1
82.5°	38.9	41.1	41.8	41.1	41.8	43.3	44.0	43.3	43.3	41.8	42.5
85°	20.5	20.5	22.0	22.7	22.0	22.0	22.7	24.9	23.5	22.0	23.5
87.5°	6.6	5.9	5.9	6.6	5.9	5.9	6.6	6.6	7.3	7.3	7.3
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: P1037326

CATALOG NUMBER: S123DS-B560DB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1	757.1
2.5°	718.9	720.4	721.1	718.2	716.0	719.7	724.8	728.5	731.4	735.1	737.3
5°	676.4	681.5	681.5	683.0	685.2	688.9	698.4	705.0	710.9	715.3	718.9
7.5°	640.4	644.1	646.3	650.0	653.6	658.8	669.8	679.3	688.1	693.3	699.1
10°	608.2	611.1	614.8	617.0	623.6	630.9	644.8	652.9	663.2	671.3	678.6
12.5°	577.3	587.6	589.8	589.1	595.0	603.0	617.0	629.4	640.4	648.5	656.6
15°	555.3	559.0	563.4	562.7	575.1	577.3	589.1	603.8	618.4	623.6	630.9
17.5°	531.1	537.0	541.4	543.6	547.3	555.3	566.3	577.3	596.4	597.2	616.2
20°	512.1	517.9	520.9	523.8	526.0	535.5	545.1	557.5	572.9	581.0	591.3
22.5°	499.6	502.5	504.7	506.9	509.9	515.0	526.7	540.7	550.9	559.7	566.3
25°	484.9	487.8	490.8	492.3	494.5	497.4	506.2	517.2	531.9	537.7	544.3
27.5°	474.6	474.6	476.1	476.1	479.0	482.0	488.6	498.9	510.6	517.9	526.7
30°	463.6	462.9	463.6	462.9	462.2	466.6	472.4	481.2	489.3	498.1	504.0
32.5°	452.6	451.9	451.9	452.6	449.7	451.9	454.8	462.9	471.7	476.1	482.7
35°	440.9	439.4	439.4	439.4	438.0	436.5	439.4	446.8	452.6	458.5	463.6
37.5°	429.2	427.0	427.0	425.5	424.0	421.8	421.8	427.7	435.8	438.0	444.6
40°	413.0	413.0	411.6	410.8	409.4	407.9	405.7	410.8	418.2	420.4	425.5
42.5°	396.9	394.7	393.9	393.9	393.9	391.7	390.3	393.9	398.3	402.0	405.0
45°	378.5	377.1	377.8	377.1	375.6	374.9	374.1	375.6	380.7	382.2	385.9
47.5°	358.7	358.0	358.0	357.3	356.5	357.3	354.3	358.0	359.5	360.9	363.9
50°	338.2	337.5	336.7	336.0	336.0	336.7	336.0	336.0	338.9	340.4	343.3
52.5°	317.7	315.5	315.5	314.7	314.7	313.3	314.7	315.5	316.9	318.4	319.9
55°	295.6	295.6	293.4	293.4	292.0	292.0	292.7	292.0	294.9	296.4	296.4
57.5°	274.4	271.4	272.2	270.7	269.2	268.5	268.5	270.0	271.4	271.4	272.9
60°	251.6	248.7	248.0	245.0	246.5	244.3	245.0	245.0	248.0	246.5	248.0
62.5°	228.9	225.2	223.0	221.5	221.5	222.3	220.8	220.1	221.5	223.0	226.0
65°	204.7	202.5	200.3	198.1	198.1	197.3	198.8	196.6	195.9	196.6	198.1
67.5°	179.7	177.5	175.3	173.1	173.9	171.7	170.2	172.4	170.9	171.7	173.1
70°	155.5	154.1	149.7	148.2	147.5	148.2	147.5	146.0	148.2	147.5	148.2
72.5°	131.3	129.8	127.6	124.0	124.0	123.2	122.5	122.5	121.8	121.8	121.8
75°	107.8	104.9	102.7	102.0	100.5	99.8	99.0	97.6	98.3	99.0	97.6
77.5°	83.6	80.0	79.2	79.2	77.0	77.0	77.8	77.0	76.3	76.3	76.3
80°	61.6	58.7	58.7	57.2	55.8	55.8	55.8	55.8	55.0	54.3	55.0
82.5°	39.6	38.9	38.1	38.1	39.6	36.7	38.1	37.4	36.7	36.7	35.9
85°	22.0	22.7	22.0	22.7	21.3	22.0	22.0	22.0	21.3	22.0	20.5
87.5°	8.1	8.1	8.1	8.8	8.8	8.8	8.8	8.8	9.5	8.8	8.8
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: P1037326

CATALOG NUMBER: S123DS-B560DB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	757.1	757.1	757.1	757.1
2.5°	740.9	743.1	750.5	759.3
5°	726.3	732.1	742.4	756.4
7.5°	710.1	718.9	733.6	751.2
10°	691.8	704.3	722.6	744.6
12.5°	672.0	688.1	711.6	734.3
15°	659.5	675.7	696.9	721.9
17.5°	635.3	654.4	676.4	711.6
20°	610.4	631.6	660.2	695.5
22.5°	591.3	614.0	641.2	678.6
25°	568.5	592.0	621.4	660.2
27.5°	544.3	567.8	600.8	641.9
30°	526.0	548.7	580.3	624.3
32.5°	504.0	526.0	559.0	605.2
35°	479.0	504.0	535.5	582.5
37.5°	460.0	482.7	515.7	560.5
40°	439.4	459.2	491.5	535.5
42.5°	417.4	439.4	467.3	511.3
45°	396.9	413.0	441.6	483.4
47.5°	374.9	393.2	415.2	447.5
50°	351.4	366.8	391.0	413.0
52.5°	328.7	341.1	361.7	378.5
55°	304.4	316.9	332.3	342.6
57.5°	281.7	290.5	300.8	307.4
60°	253.8	262.6	269.2	275.8
62.5°	228.9	235.5	239.2	242.8
65°	203.2	206.9	209.1	212.0
67.5°	175.3	179.0	179.7	184.1
70°	149.7	150.4	151.9	154.1
72.5°	125.4	126.9	126.2	127.6
75°	100.5	102.0	100.5	102.0
77.5°	76.3	77.8	77.8	80.0
80°	55.0	55.8	56.5	56.5
82.5°	35.9	38.1	36.7	37.4
85°	20.5	21.3	21.3	22.0
87.5°	9.5	10.3	9.5	11.0
90°	0.0	0.0	0.0	0.0

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