

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: P1037325

Luminaire Tested: S123DS-B560DB2750-4F0-XX-W2A-A_4000K

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1037325
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_4000K
Description: Define 3 Direct Surface with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

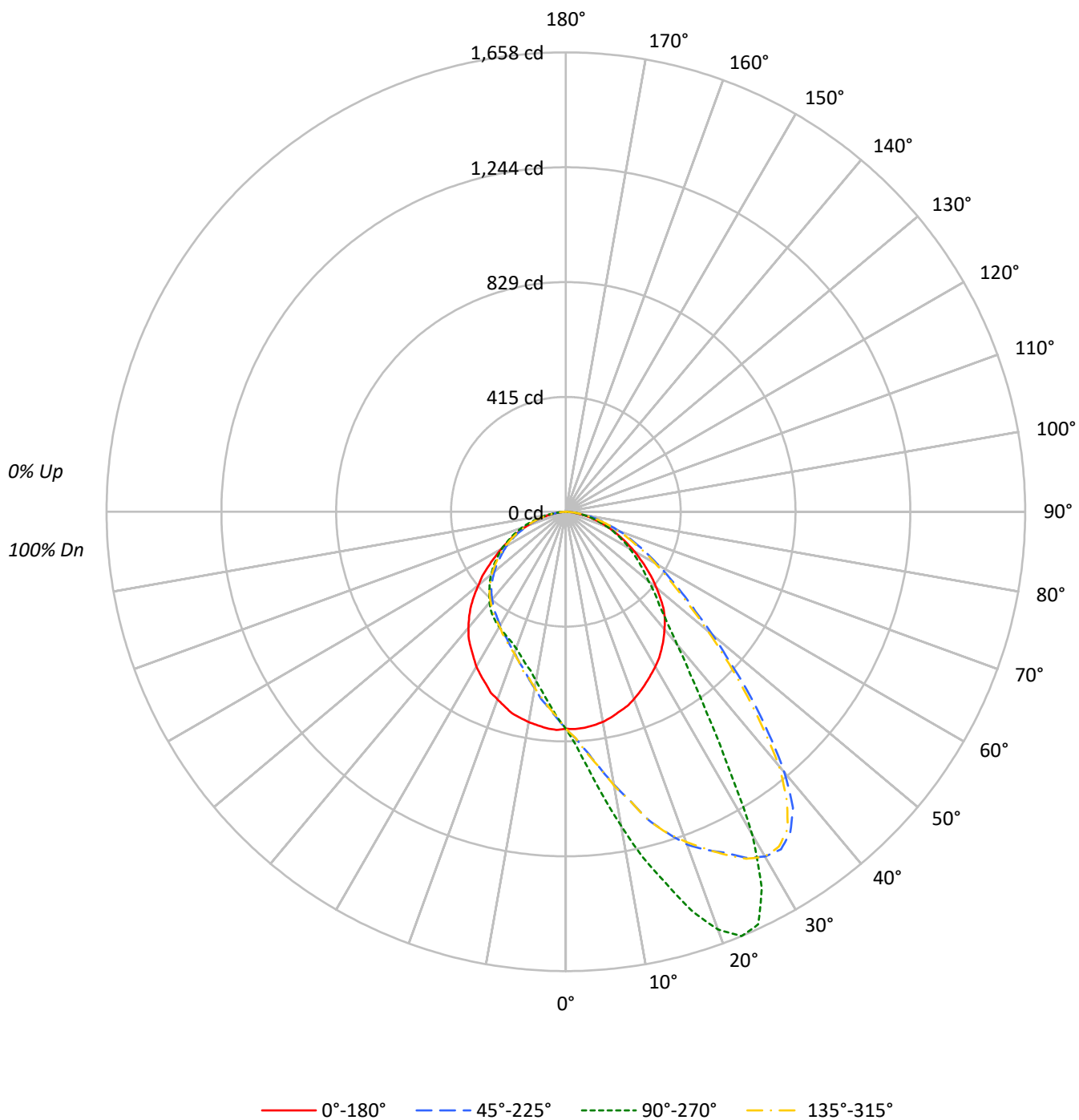
Lumens per Lamp: N/A
Luminaire Lumens: 2363.0 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Direct

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				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	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°	8427	8427	8427	8427
5°	8452	10050	8475	7501
10°	8416	12579	8425	6774
15°	8319	15428	8387	6307
20°	8238	18379	8255	6005
25°	8109	19516	8127	5938
30°	8024	16727	8024	5968
35°	7916	11633	7866	6031
40°	7782	8762	7686	6013
45°	7611	7275	7391	5935
50°	7152	6517	6898	5883
55°	6649	6093	6379	5808
60°	6142	5716	5815	5748
65°	5583	5372	5313	5565
70°	5013	5039	4680	5300
75°	4388	4512	4101	4858
80°	3620	3949	3341	4184
85°	2816	3088	2248	2816

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 16988 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	3.3
10°-20°	247.3	10.5
20°-30°	416.1	17.6
30°-40°	470.3	19.9
40°-50°	421.2	17.8
50°-60°	340.0	14.4
60°-70°	236.9	10.0
70°-80°	124.3	5.3
80°-90°	29.8	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°	740.4	31.3
0°-40°	1210.7	51.2
0°-60°	1971.9	83.4
0°-90°	2363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2363.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	783	783	783	783	783	
5°	782	930	784	694	782	74
15°	746	1384	753	566	746	211
25°	683	1643	684	500	683	315
35°	602	885	599	459	602	377
45°	500	478	486	390	500	382
55°	354	325	340	310	354	317
65°	219	211	209	218	219	218
75°	106	108	99	117	106	113
85°	23	25	18	23	23	28
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°	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9
2.5°	785.2	791.3	794.3	798.9	803.4	810.2	812.5	816.3	814.8	817.8	819.3
5°	782.2	792.8	801.9	813.3	823.9	831.5	839.1	851.2	860.3	861.8	868.7
7.5°	776.9	792.0	808.0	823.9	844.4	856.5	870.2	886.9	900.5	922.5	930.9
10°	770.0	791.3	814.0	836.0	864.1	883.1	899.8	927.8	955.9	978.7	999.9
12.5°	759.4	786.0	815.5	848.2	884.6	906.6	929.3	966.5	1009.0	1043.9	1066.7
15°	746.5	779.9	817.8	852.7	892.9	933.9	958.2	999.9	1060.6	1093.2	1151.6
17.5°	735.9	770.0	808.0	862.6	917.2	958.2	975.6	1052.2	1094.0	1148.6	1214.6
20°	719.2	762.4	811.0	865.6	936.2	961.2	996.9	1074.2	1125.8	1197.2	1278.3
22.5°	701.8	748.0	806.4	863.3	942.2	968.8	1017.4	1078.8	1160.7	1231.3	1320.8
25°	682.8	732.9	792.0	859.6	936.9	975.6	1021.1	1097.0	1185.8	1274.5	1357.2
27.5°	663.8	718.4	779.9	847.4	922.5	968.0	1013.6	1092.5	1206.3	1302.6	1408.1
30°	645.6	700.2	761.7	830.7	909.6	953.6	996.9	1095.5	1222.2	1330.7	1436.9
32.5°	625.9	682.0	746.5	804.2	883.8	930.9	979.4	1095.5	1232.0	1347.4	1444.5
35°	602.4	660.0	715.4	773.1	852.0	904.3	958.9	1087.9	1241.2	1352.7	1412.6
37.5°	579.6	630.4	678.2	734.4	817.1	873.2	936.2	1078.8	1236.6	1329.9	1346.6
40°	553.8	604.6	643.3	695.7	782.9	848.2	911.9	1066.7	1216.9	1276.0	1227.5
42.5°	528.8	569.0	602.4	653.2	748.0	811.8	880.8	1044.7	1178.2	1190.3	1081.1
45°	500.0	528.8	558.4	616.0	710.1	775.3	852.0	1012.8	1116.0	1081.1	943.0
47.5°	462.8	488.6	521.2	574.3	669.9	737.4	810.2	971.8	1025.7	952.9	801.9
50°	427.1	449.1	479.5	531.1	627.4	693.4	770.8	907.3	933.9	819.3	691.1
52.5°	391.5	408.2	437.7	489.3	585.7	649.4	720.0	841.3	826.2	703.3	589.5
55°	354.3	368.7	396.8	447.6	537.1	597.8	665.3	760.2	720.7	603.9	512.8
57.5°	317.9	333.0	361.9	404.4	488.6	547.7	601.6	676.0	616.8	523.5	443.1
60°	285.3	298.1	320.2	361.9	438.5	486.3	535.6	586.4	537.1	446.8	385.4
62.5°	251.1	263.3	283.7	321.7	387.7	430.2	469.6	511.3	456.7	390.7	336.1
65°	219.2	229.1	248.1	283.0	336.8	371.7	403.6	432.4	388.4	327.7	286.8
67.5°	190.4	198.8	214.7	245.8	291.3	316.4	342.2	366.4	329.3	280.7	245.8
70°	159.3	166.1	180.6	203.3	239.7	265.5	284.5	302.7	269.3	230.6	207.1
72.5°	132.0	138.8	147.9	171.5	196.5	212.4	232.9	242.8	223.8	191.9	168.4
75°	105.5	110.8	119.1	134.3	157.8	168.4	181.3	188.9	171.5	150.2	135.8
77.5°	82.7	85.0	91.0	101.7	117.6	129.7	139.6	144.1	132.0	118.3	106.2
80°	58.4	61.5	66.0	75.1	87.2	91.0	97.1	102.4	94.8	82.7	75.1
82.5°	38.7	42.5	44.8	48.6	56.1	60.7	62.2	66.8	59.9	55.4	52.3
85°	22.8	24.3	25.0	27.3	31.1	33.4	35.7	36.4	34.9	34.1	31.1
87.5°	11.4	11.4	11.4	12.9	13.7	15.2	15.9	15.9	15.9	15.2	14.4
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°	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9
2.5°	824.7	826.2	831.5	835.3	842.9	842.1	842.1	841.3	839.1	842.9	845.1
5°	882.3	895.2	896.7	913.4	914.2	921.0	925.6	921.8	930.9	930.1	923.3
7.5°	953.6	971.1	979.4	995.3	1013.6	1009.0	1026.5	1029.5	1028.0	1035.6	1040.9
10°	1031.8	1062.1	1083.4	1112.9	1120.5	1125.1	1136.5	1146.3	1166.0	1150.9	1160.7
12.5°	1121.3	1143.3	1171.4	1218.4	1241.9	1257.1	1262.4	1269.2	1282.9	1274.5	1275.3
15°	1196.4	1226.0	1273.8	1332.2	1339.0	1358.0	1353.4	1394.4	1414.1	1384.5	1401.2
17.5°	1274.5	1314.0	1370.9	1421.7	1450.5	1463.4	1475.6	1515.0	1513.5	1509.0	1512.7
20°	1324.6	1389.1	1459.6	1527.2	1535.5	1545.4	1578.0	1594.7	1591.6	1604.5	1612.9
22.5°	1395.2	1463.4	1538.5	1583.3	1602.3	1613.6	1639.4	1650.1	1654.6	1657.7	1652.3
25°	1454.3	1527.2	1582.5	1622.0	1633.4	1639.4	1647.8	1650.8	1648.5	1643.2	1647.8
27.5°	1494.5	1553.0	1590.9	1609.1	1603.0	1593.2	1577.2	1566.6	1543.1	1531.7	1545.4
30°	1511.2	1537.0	1548.4	1518.1	1487.7	1463.4	1433.1	1377.0	1332.9	1345.8	1328.4
32.5°	1484.7	1468.0	1413.4	1335.2	1311.7	1272.3	1186.5	1120.5	1122.8	1087.9	1102.3
35°	1406.5	1330.7	1227.5	1109.1	1078.0	1056.8	962.7	948.3	918.0	885.3	894.4
37.5°	1268.5	1157.7	1032.5	945.3	899.0	852.7	799.6	767.8	749.5	735.9	746.5
40°	1100.0	965.0	861.8	783.7	744.2	714.6	678.2	646.4	625.9	623.6	627.4
42.5°	934.7	820.9	726.0	651.7	638.8	603.9	580.4	555.3	549.3	539.4	544.7
45°	791.3	698.7	620.6	559.9	544.7	535.6	506.8	490.8	484.0	477.9	487.1
47.5°	687.3	590.2	533.3	496.9	481.7	466.6	450.6	440.0	434.7	435.5	434.7
50°	587.2	515.9	465.8	437.7	428.6	418.0	405.1	398.3	396.0	389.2	394.5
52.5°	505.3	453.7	418.8	392.2	385.4	377.8	367.2	363.4	358.1	356.6	356.6
55°	439.3	399.1	371.0	353.5	345.2	339.1	333.0	328.5	324.7	324.7	324.7
57.5°	387.7	352.8	332.3	317.1	314.1	308.0	301.2	301.2	295.9	295.1	297.4
60°	343.7	312.6	296.6	283.7	279.2	277.7	270.8	270.8	269.3	265.5	268.6
62.5°	298.9	276.1	262.5	252.6	248.1	248.1	242.8	239.0	239.0	239.7	238.2
65°	257.9	241.3	229.1	221.5	219.2	216.2	215.5	212.4	210.1	210.9	210.1
67.5°	221.5	208.6	200.3	194.2	190.4	188.9	186.6	186.6	185.1	185.9	182.1
70°	188.9	176.0	169.2	163.1	161.6	161.6	158.6	159.3	157.8	160.1	158.6
72.5°	155.5	145.7	140.4	138.1	136.6	135.8	134.3	132.8	132.0	133.5	132.8
75°	125.9	117.6	113.8	112.3	110.8	110.8	110.0	109.2	108.5	108.5	108.5
77.5°	97.9	92.6	88.0	89.5	87.2	88.0	85.7	85.7	86.5	85.7	85.7
80°	72.1	68.3	68.3	66.8	63.7	65.2	65.2	63.0	62.2	63.7	61.5
82.5°	47.8	47.0	45.5	44.8	43.2	44.0	43.2	42.5	41.7	43.2	41.7
85°	28.1	28.1	27.3	25.8	27.3	26.6	25.8	25.8	25.0	25.0	25.0
87.5°	14.4	12.9	12.9	12.1	12.9	11.4	12.1	11.4	10.6	11.4	10.6
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9
2.5°	839.1	841.3	835.3	833.8	833.8	836.8	834.5	814.0	817.8	813.3	811.8
5°	931.6	927.1	921.0	918.0	914.2	903.6	902.8	879.3	874.7	859.6	852.7
7.5°	1033.3	1029.5	1011.3	1009.0	1007.5	997.6	972.6	947.6	929.3	911.9	895.2
10°	1149.4	1138.0	1129.6	1112.9	1104.6	1090.9	1058.3	1034.8	1003.7	977.1	942.2
12.5°	1288.9	1276.0	1248.0	1235.8	1225.2	1187.3	1154.7	1128.1	1067.4	1049.2	1006.0
15°	1391.4	1364.1	1361.0	1334.5	1332.9	1291.2	1229.0	1200.2	1153.1	1086.4	1041.6
17.5°	1502.1	1477.9	1458.9	1427.0	1422.5	1383.0	1337.5	1266.9	1215.4	1151.6	1094.7
20°	1583.3	1570.4	1537.8	1524.9	1498.3	1465.0	1417.9	1330.7	1267.7	1204.0	1134.2
22.5°	1647.8	1634.9	1609.1	1591.6	1576.5	1533.2	1477.1	1402.7	1316.3	1232.8	1160.7
25°	1647.0	1643.2	1632.6	1624.3	1612.9	1581.0	1534.0	1462.7	1366.3	1274.5	1174.4
27.5°	1553.7	1564.3	1582.5	1591.6	1589.4	1584.8	1558.3	1498.3	1411.8	1302.6	1190.3
30°	1359.5	1398.2	1432.3	1477.9	1491.5	1524.9	1540.1	1505.9	1436.9	1335.2	1210.8
32.5°	1127.4	1183.5	1257.8	1282.9	1326.1	1390.6	1462.7	1475.6	1432.3	1354.2	1223.7
35°	924.8	971.1	1028.7	1068.2	1106.9	1211.6	1302.6	1381.5	1395.9	1344.3	1220.7
37.5°	765.5	798.1	848.9	882.3	918.0	1007.5	1134.9	1237.4	1309.4	1310.9	1212.3
40°	650.2	664.6	708.6	732.9	767.0	844.4	958.2	1091.7	1197.2	1245.7	1190.3
42.5°	550.8	569.7	606.2	624.4	646.4	713.9	789.0	915.7	1046.2	1150.1	1149.4
45°	491.6	505.3	522.0	537.1	562.2	602.4	688.1	782.9	908.1	1025.7	1072.0
47.5°	439.3	452.2	468.8	473.4	490.1	528.0	580.4	663.1	779.9	896.7	984.0
50°	395.3	405.9	417.3	425.6	433.2	464.3	503.7	573.5	666.9	779.9	888.4
52.5°	361.1	368.7	378.6	383.1	389.9	412.7	443.1	494.6	571.3	674.4	779.9
55°	329.3	334.6	340.6	348.2	351.3	367.9	391.5	435.5	492.4	584.9	685.1
57.5°	299.7	301.9	305.7	310.3	314.1	328.5	349.0	378.6	428.6	500.0	594.8
60°	266.3	272.4	274.6	279.2	281.5	292.8	308.8	333.8	372.5	433.9	505.3
62.5°	238.2	242.0	245.8	248.1	253.4	257.2	270.1	292.8	324.7	370.2	434.7
65°	213.2	214.7	217.0	219.2	220.8	225.3	237.5	252.6	276.9	317.1	367.2
67.5°	184.4	185.9	188.9	189.7	191.2	197.2	204.1	217.0	237.5	267.8	308.8
70°	156.3	158.6	160.1	161.6	163.9	166.1	173.7	184.4	200.3	221.5	253.4
72.5°	132.0	134.3	134.3	135.8	135.0	138.1	145.7	153.2	163.9	181.3	209.4
75°	107.7	107.7	109.2	110.0	110.8	113.8	116.8	122.9	131.2	144.9	162.4
77.5°	85.0	84.2	85.7	85.7	85.7	88.0	91.0	94.1	99.4	109.2	122.9
80°	62.2	62.2	63.7	64.5	63.0	63.7	65.2	68.3	72.1	78.9	86.5
82.5°	41.0	44.0	43.2	44.0	43.2	44.8	45.5	46.3	47.8	50.8	56.1
85°	25.0	25.0	25.0	25.8	25.0	25.8	25.8	25.8	26.6	28.1	30.3
87.5°	10.6	10.6	10.6	11.4	10.6	10.6	11.4	10.6	11.4	11.4	12.1
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: P1037325

CATALOG NUMBER: S123DS-B560DB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9
2.5°	804.2	801.9	801.9	800.4	795.8	787.5	786.7	788.2	783.7	779.1	772.3
5°	843.6	829.2	824.7	820.1	811.0	795.8	789.8	784.4	776.1	766.2	755.6
7.5°	877.0	856.5	850.4	842.1	823.9	802.7	789.0	777.6	766.2	752.6	739.7
10°	918.7	889.1	874.7	862.6	837.6	808.0	787.5	770.8	752.6	735.9	719.2
12.5°	965.8	918.0	913.4	883.8	855.0	811.0	786.0	761.7	737.4	716.9	699.5
15°	1005.2	952.9	933.9	914.2	858.8	804.2	779.9	752.6	724.5	702.5	676.7
17.5°	1030.2	987.0	946.8	920.2	862.6	814.0	767.0	735.9	706.3	676.0	654.7
20°	1060.6	997.6	962.7	927.1	870.2	806.4	759.4	720.7	684.3	657.0	631.2
22.5°	1090.9	1006.0	977.1	938.5	871.7	798.9	745.8	707.1	665.3	638.0	610.0
25°	1087.9	1018.1	970.3	937.7	856.5	792.0	729.8	684.3	645.6	610.7	582.6
27.5°	1090.2	1004.5	955.9	918.0	845.9	782.2	713.1	665.3	625.1	588.7	559.1
30°	1090.9	984.0	941.5	896.0	826.2	758.7	694.2	645.6	603.1	563.7	537.1
32.5°	1088.7	967.3	914.2	873.2	795.1	735.9	672.2	620.6	577.3	540.9	515.9
35°	1083.4	947.6	886.1	834.5	763.2	703.3	651.7	598.6	552.3	518.9	490.1
37.5°	1068.9	926.3	856.5	805.7	726.0	665.3	619.8	575.8	531.1	491.6	467.3
40°	1058.3	897.5	826.9	771.5	685.8	626.6	588.7	547.0	503.0	467.3	443.8
42.5°	1034.0	870.2	796.6	730.6	646.4	585.7	550.0	516.6	478.7	443.8	422.6
45°	994.6	840.6	759.4	692.6	603.1	545.5	512.8	485.5	452.2	418.8	397.5
47.5°	939.2	798.1	720.0	653.2	560.6	502.2	469.6	449.1	422.6	394.5	376.3
50°	879.3	751.8	679.8	613.7	519.7	462.8	430.9	411.9	394.5	368.7	351.3
52.5°	801.1	702.5	633.5	570.5	475.7	421.1	393.0	379.3	361.1	342.9	327.7
55°	725.3	638.8	581.9	522.0	432.4	381.6	354.3	339.9	329.3	314.1	301.9
57.5°	637.3	579.6	527.3	472.6	392.2	345.9	320.2	302.7	295.9	289.0	277.7
60°	556.1	512.1	469.6	424.1	350.5	308.8	283.7	270.1	263.3	258.7	251.1
62.5°	481.7	447.6	411.2	374.8	308.0	270.1	251.1	237.5	231.4	230.6	223.8
65°	410.4	386.2	356.6	320.9	268.6	235.2	217.0	208.6	201.8	201.8	196.5
67.5°	339.1	322.4	298.9	273.9	232.9	201.8	185.1	177.5	173.7	173.7	169.9
70°	282.2	270.8	249.6	227.6	191.9	168.4	155.5	148.7	146.4	147.2	144.1
72.5°	229.1	217.0	199.5	183.6	157.0	139.6	130.5	122.9	119.1	119.9	119.1
75°	177.5	171.5	156.3	144.1	122.9	110.8	102.4	98.6	95.6	96.3	94.8
77.5°	133.5	124.4	116.1	107.7	94.8	85.0	78.1	74.3	72.1	72.1	72.1
80°	91.0	89.5	82.7	78.1	67.5	59.9	54.6	53.9	51.6	51.6	51.6
82.5°	59.2	55.4	51.6	48.6	42.5	37.9	35.7	34.1	33.4	32.6	34.1
85°	32.6	30.3	28.8	25.8	23.5	21.2	19.0	18.2	17.4	18.2	17.4
87.5°	12.9	10.6	10.6	9.9	9.1	8.3	8.3	6.8	6.8	6.1	6.1
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: P1037325

CATALOG NUMBER: S123DS-B560DB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9
2.5°	770.8	770.0	771.5	767.0	759.4	755.6	745.0	742.7	742.0	742.7	743.5
5°	749.5	748.8	746.5	738.9	729.8	723.0	710.1	709.3	704.8	700.2	702.5
7.5°	729.1	726.0	721.5	711.6	699.5	691.9	681.3	673.7	667.6	663.8	660.8
10°	708.6	704.0	699.5	686.6	671.4	660.0	647.1	641.1	634.2	631.2	628.2
12.5°	682.0	677.5	669.1	654.0	644.9	630.4	617.5	611.5	607.7	601.6	597.8
15°	660.8	651.7	647.1	631.2	612.2	610.7	587.2	585.7	578.1	578.1	572.0
17.5°	636.5	629.7	621.3	605.4	591.7	578.1	566.0	561.4	554.6	553.1	550.0
20°	613.0	603.9	600.9	584.9	570.5	553.8	540.9	536.4	533.3	530.3	532.6
22.5°	588.7	581.1	573.5	559.1	548.5	531.8	524.2	519.7	515.1	513.6	514.4
25°	565.2	558.4	550.8	536.4	525.0	511.3	504.5	502.2	500.0	500.0	499.2
27.5°	542.4	535.6	528.8	515.9	504.5	494.6	489.3	487.1	484.8	486.3	487.8
30°	518.9	512.8	506.8	495.4	486.3	477.2	474.2	472.6	471.9	475.7	475.7
32.5°	497.7	492.4	487.8	477.2	468.1	460.5	458.2	459.0	459.7	462.0	463.5
35°	475.7	471.9	467.3	458.2	450.6	443.8	444.6	444.6	446.1	449.9	452.9
37.5°	455.9	450.6	446.8	439.3	433.2	427.1	429.4	431.7	433.2	437.7	439.3
40°	432.4	430.2	427.1	419.5	414.2	413.5	414.2	415.7	418.8	421.1	423.3
42.5°	413.5	410.4	406.6	400.6	396.0	396.8	397.5	399.1	400.6	404.4	406.6
45°	392.2	389.9	386.9	381.6	377.8	378.6	379.3	379.3	380.8	385.4	386.9
47.5°	368.7	369.5	365.7	360.4	358.1	358.1	358.1	359.6	363.4	364.9	365.7
50°	345.9	344.4	343.7	338.4	336.8	336.1	336.8	337.6	342.9	342.2	344.4
52.5°	321.7	321.7	320.9	317.9	315.6	315.6	314.1	317.9	319.4	320.9	323.2
55°	298.1	295.9	295.1	293.6	290.6	289.8	291.3	295.9	297.4	298.9	301.2
57.5°	272.4	272.4	270.8	268.6	268.6	268.6	268.6	271.6	273.9	275.4	279.9
60°	248.8	245.8	243.5	243.5	243.5	242.8	247.3	247.3	251.9	252.6	254.1
62.5°	220.8	219.2	217.7	218.5	217.7	219.2	220.8	223.8	224.6	226.8	229.1
65°	194.2	194.2	192.7	197.2	194.2	194.2	198.0	198.0	199.5	201.8	204.8
67.5°	168.4	169.2	167.7	167.7	169.2	169.9	170.7	173.7	174.5	177.5	181.3
70°	141.9	143.4	144.1	142.6	144.1	145.7	147.2	147.9	151.0	152.5	154.8
72.5°	118.3	119.9	117.6	118.3	119.1	120.6	121.4	122.9	124.4	129.0	130.5
75°	94.8	94.1	93.3	96.3	94.8	97.9	98.6	98.6	100.1	103.9	105.5
77.5°	72.8	72.8	73.6	72.1	74.3	73.6	74.3	76.6	78.9	78.9	85.0
80°	50.8	52.3	52.3	52.3	53.1	53.9	52.3	56.1	56.9	56.9	59.2
82.5°	32.6	33.4	32.6	34.1	34.1	35.7	34.9	35.7	37.2	38.7	39.4
85°	17.4	17.4	19.0	19.0	18.2	19.0	18.2	19.0	20.5	20.5	21.2
87.5°	6.1	6.1	6.1	6.1	6.8	6.1	6.8	6.8	6.1	6.1	8.3
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: P1037325

CATALOG NUMBER: S123DS-B560DB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9
2.5°	742.7	743.5	740.4	738.2	744.2	740.4	740.4	741.2	739.7	742.0	741.2
5°	701.0	701.8	696.4	698.0	694.9	694.2	693.4	698.0	697.2	696.4	698.0
7.5°	660.0	660.0	657.7	656.2	656.2	654.0	657.0	656.2	657.7	657.7	660.0
10°	625.9	627.4	623.6	619.8	619.1	619.8	619.8	620.6	621.3	626.6	625.9
12.5°	597.8	595.5	594.8	592.5	588.7	587.2	585.7	594.0	591.7	591.7	591.7
15°	566.7	572.0	571.3	564.4	562.9	566.0	564.4	564.4	572.0	571.3	570.5
17.5°	550.0	548.5	547.0	543.2	544.0	543.2	544.0	544.0	548.5	548.5	548.5
20°	531.1	528.0	528.0	526.5	526.5	524.2	527.3	528.0	531.1	531.1	531.8
22.5°	514.4	512.1	512.1	511.3	512.8	509.8	512.8	513.6	513.6	515.9	515.9
25°	500.0	498.4	498.4	500.0	500.0	500.0	500.0	503.0	500.7	501.5	500.7
27.5°	487.1	487.8	488.6	489.3	488.6	489.3	490.1	491.6	492.4	491.6	490.1
30°	474.9	477.2	477.9	477.9	479.5	480.2	481.0	481.0	481.7	479.5	481.0
32.5°	465.8	465.8	467.3	468.1	469.6	470.4	470.4	471.9	471.1	468.8	469.6
35°	452.9	452.9	455.9	457.5	459.7	459.0	459.7	459.7	460.5	459.0	456.7
37.5°	440.0	441.5	441.5	444.6	445.3	446.1	445.3	446.8	446.1	444.6	443.8
40°	424.8	424.1	424.8	427.1	427.9	427.9	427.9	429.4	429.4	429.4	428.6
42.5°	405.9	408.2	407.4	409.7	408.9	408.9	410.4	411.9	412.7	410.4	411.2
45°	387.7	387.7	389.2	389.2	389.9	389.9	393.0	391.5	393.0	391.5	392.2
47.5°	367.9	368.7	368.7	369.5	371.0	372.5	371.0	371.7	371.7	372.5	371.0
50°	345.9	345.9	347.5	349.7	352.8	351.3	350.5	353.5	351.3	351.3	349.7
52.5°	323.2	325.5	326.2	328.5	330.8	331.5	332.3	330.8	331.5	329.3	330.0
55°	301.2	301.9	305.0	307.3	309.5	309.5	308.8	309.5	310.3	307.3	307.3
57.5°	279.2	281.5	284.5	284.5	287.5	287.5	286.8	286.8	287.5	285.3	284.5
60°	255.7	257.9	261.7	261.7	266.3	267.0	265.5	264.0	264.0	261.7	262.5
62.5°	230.6	232.9	235.2	239.0	242.0	240.5	243.5	240.5	241.3	236.7	236.7
65°	208.6	209.4	213.2	217.0	217.0	218.5	217.0	217.7	215.5	215.5	212.4
67.5°	182.8	182.8	186.6	190.4	194.2	194.2	194.2	191.9	191.9	189.7	189.7
70°	160.1	159.3	163.1	165.4	167.7	168.4	166.9	166.1	164.6	162.4	161.6
72.5°	132.0	133.5	137.3	138.8	142.6	141.9	145.7	141.1	141.1	137.3	136.6
75°	107.0	108.5	112.3	114.6	116.8	116.8	119.1	116.8	113.8	112.3	111.5
77.5°	85.0	84.2	87.2	91.0	91.8	91.0	92.6	91.8	88.8	88.8	87.2
80°	60.7	63.0	66.0	65.2	68.3	67.5	67.5	66.0	66.0	63.7	65.2
82.5°	40.2	42.5	43.2	42.5	43.2	44.8	45.5	44.8	44.8	43.2	44.0
85°	21.2	21.2	22.8	23.5	22.8	22.8	23.5	25.8	24.3	22.8	24.3
87.5°	6.8	6.1	6.1	6.8	6.1	6.1	6.8	6.8	7.6	7.6	7.6
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: P1037325

CATALOG NUMBER: S123DS-B560DB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9
2.5°	743.5	745.0	745.8	742.7	740.4	744.2	749.5	753.3	756.4	760.2	762.4
5°	699.5	704.8	704.8	706.3	708.6	712.4	722.2	729.1	735.1	739.7	743.5
7.5°	662.3	666.1	668.4	672.2	676.0	681.3	692.6	702.5	711.6	716.9	723.0
10°	628.9	632.0	635.7	638.0	644.9	652.4	666.9	675.2	685.8	694.2	701.8
12.5°	597.1	607.7	610.0	609.2	615.3	623.6	638.0	650.9	662.3	670.6	679.0
15°	574.3	578.1	582.6	581.9	594.8	597.1	609.2	624.4	639.5	644.9	652.4
17.5°	549.3	555.3	559.9	562.2	566.0	574.3	585.7	597.1	616.8	617.5	637.3
20°	529.5	535.6	538.6	541.7	544.0	553.8	563.7	576.6	592.5	600.9	611.5
22.5°	516.6	519.7	522.0	524.2	527.3	532.6	544.7	559.1	569.7	578.9	585.7
25°	501.5	504.5	507.5	509.1	511.3	514.4	523.5	534.8	550.0	556.1	562.9
27.5°	490.8	490.8	492.4	492.4	495.4	498.4	505.3	515.9	528.0	535.6	544.7
30°	479.5	478.7	479.5	478.7	477.9	482.5	488.6	497.7	506.0	515.1	521.2
32.5°	468.1	467.3	467.3	468.1	465.1	467.3	470.4	478.7	487.8	492.4	499.2
35°	455.9	454.4	454.4	454.4	452.9	451.4	454.4	462.0	468.1	474.2	479.5
37.5°	443.8	441.5	441.5	440.0	438.5	436.2	436.2	442.3	450.6	452.9	459.7
40°	427.1	427.1	425.6	424.8	423.3	421.8	419.5	424.8	432.4	434.7	440.0
42.5°	410.4	408.2	407.4	407.4	407.4	405.1	403.6	407.4	411.9	415.7	418.8
45°	391.5	389.9	390.7	389.9	388.4	387.7	386.9	388.4	393.7	395.3	399.1
47.5°	371.0	370.2	370.2	369.5	368.7	369.5	366.4	370.2	371.7	373.3	376.3
50°	349.7	349.0	348.2	347.5	347.5	348.2	347.5	347.5	350.5	352.0	355.0
52.5°	328.5	326.2	326.2	325.5	325.5	323.9	325.5	326.2	327.7	329.3	330.8
55°	305.7	305.7	303.5	303.5	301.9	301.9	302.7	301.9	305.0	306.5	306.5
57.5°	283.7	280.7	281.5	279.9	278.4	277.7	277.7	279.2	280.7	280.7	282.2
60°	260.2	257.2	256.4	253.4	254.9	252.6	253.4	253.4	256.4	254.9	256.4
62.5°	236.7	232.9	230.6	229.1	229.1	229.9	228.4	227.6	229.1	230.6	233.7
65°	211.7	209.4	207.1	204.8	204.8	204.1	205.6	203.3	202.6	203.3	204.8
67.5°	185.9	183.6	181.3	179.0	179.8	177.5	176.0	178.3	176.8	177.5	179.0
70°	160.8	159.3	154.8	153.2	152.5	153.2	152.5	151.0	153.2	152.5	153.2
72.5°	135.8	134.3	132.0	128.2	128.2	127.5	126.7	126.7	125.9	125.9	125.9
75°	111.5	108.5	106.2	105.5	103.9	103.2	102.4	100.9	101.7	102.4	100.9
77.5°	86.5	82.7	81.9	81.9	79.7	79.7	80.4	79.7	78.9	78.9	78.9
80°	63.7	60.7	60.7	59.2	57.7	57.7	57.7	57.7	56.9	56.1	56.9
82.5°	41.0	40.2	39.4	39.4	41.0	37.9	39.4	38.7	37.9	37.9	37.2
85°	22.8	23.5	22.8	23.5	22.0	22.8	22.8	22.8	22.0	22.8	21.2
87.5°	8.3	8.3	8.3	9.1	9.1	9.1	9.1	9.1	9.9	9.1	9.1
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: P1037325

CATALOG NUMBER: S123DS-B560DB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	782.9	782.9	782.9	782.9
2.5°	766.2	768.5	776.1	785.2
5°	751.1	757.1	767.8	782.2
7.5°	734.4	743.5	758.7	776.9
10°	715.4	728.3	747.3	770.0
12.5°	694.9	711.6	735.9	759.4
15°	682.0	698.7	720.7	746.5
17.5°	657.0	676.7	699.5	735.9
20°	631.2	653.2	682.8	719.2
22.5°	611.5	635.0	663.1	701.8
25°	588.0	612.2	642.6	682.8
27.5°	562.9	587.2	621.3	663.8
30°	544.0	567.5	600.1	645.6
32.5°	521.2	544.0	578.1	625.9
35°	495.4	521.2	553.8	602.4
37.5°	475.7	499.2	533.3	579.6
40°	454.4	474.9	508.3	553.8
42.5°	431.7	454.4	483.3	528.8
45°	410.4	427.1	456.7	500.0
47.5°	387.7	406.6	429.4	462.8
50°	363.4	379.3	404.4	427.1
52.5°	339.9	352.8	374.0	391.5
55°	314.8	327.7	343.7	354.3
57.5°	291.3	300.4	311.0	317.9
60°	262.5	271.6	278.4	285.3
62.5°	236.7	243.5	247.3	251.1
65°	210.1	213.9	216.2	219.2
67.5°	181.3	185.1	185.9	190.4
70°	154.8	155.5	157.0	159.3
72.5°	129.7	131.2	130.5	132.0
75°	103.9	105.5	103.9	105.5
77.5°	78.9	80.4	80.4	82.7
80°	56.9	57.7	58.4	58.4
82.5°	37.2	39.4	37.9	38.7
85°	21.2	22.0	22.0	22.8
87.5°	9.9	10.6	9.9	11.4
90°	0.0	0.0	0.0	0.0

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