

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: P1007510

Luminaire Tested: S123IP-B1195UB2750-4F0-XX-W2A-4_4000K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123IP-B1195UB2750-4F0-XX-W2A-4_4000K
Description: Define 3 Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

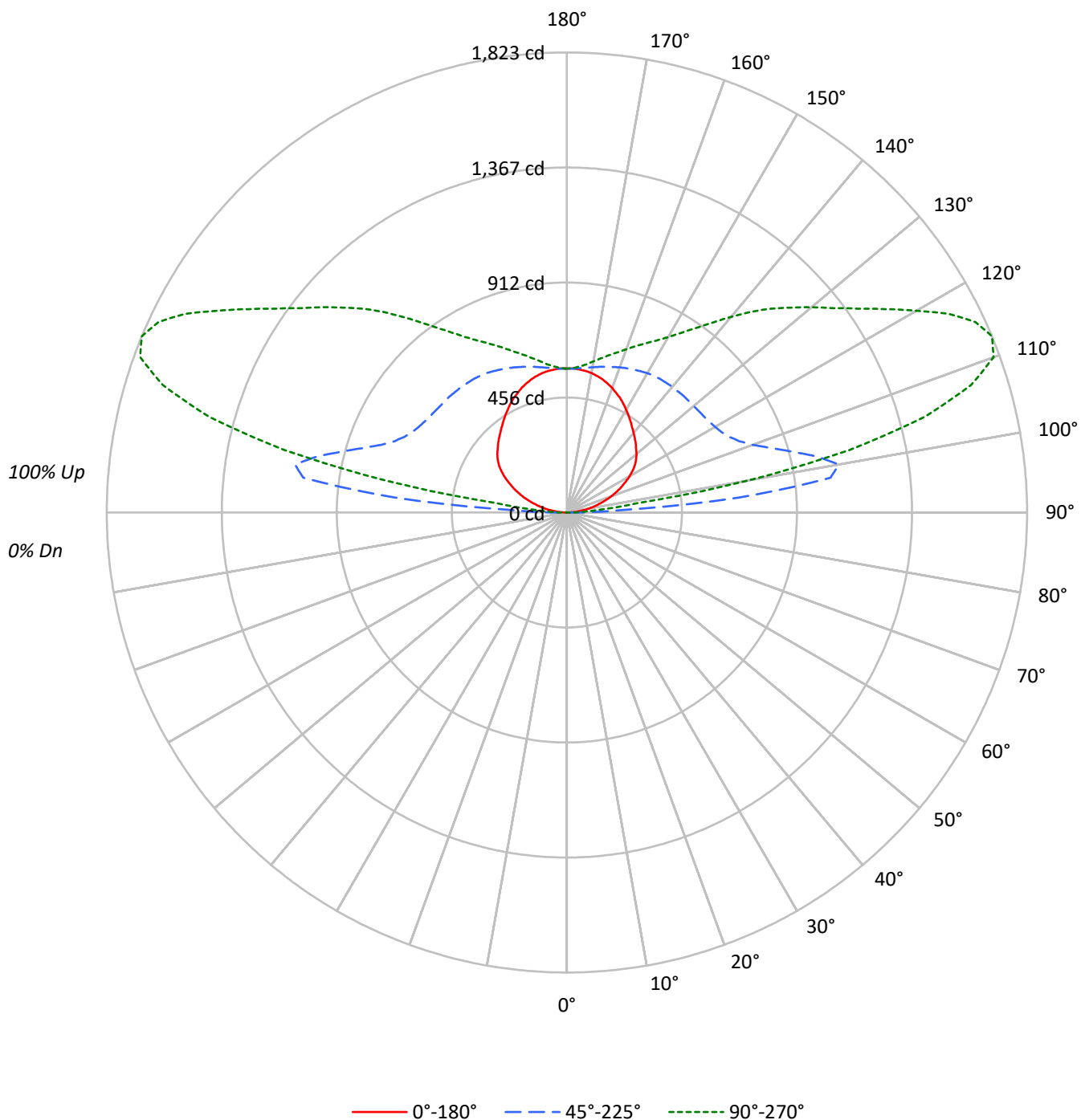
Lumens per Lamp: N/A
Luminaire Lumens: 4293.0 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 35
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

TEST NUMBER: P1007510

CATALOG NUMBER: S123IP-B1195UB2750-4F0-XX-W2A-4_4000K

Luminous Intensity Polar Plot



TEST NUMBER: P1007510

CATALOG NUMBER: S123IP-B1195UB2750-4F0-XX-W2A-4_4000K

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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	8	8	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	7	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	6	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	5	5	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	4	4	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	4	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	3	3	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	3	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	3	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	2	2	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 0°
Luminance: 0 cd/sqm

TEST NUMBER: P1007510

CATALOG NUMBER: S123IP-B1195UB2750-4F0-XX-W2A-4_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	3.2	0.1
90°-100°	309.5	7.2
100°-110°	906.0	21.1
110°-120°	884.8	20.6
120°-130°	704.6	16.4
130°-140°	555.9	12.9
140°-150°	414.7	9.7
150°-160°	289.2	6.7
160°-170°	169.9	4.0
170°-180°	55.3	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.2	0.1
90°-120°	2100.3	48.9
90°-150°	3775.6	87.9
90°-180°	4290.0	99.9
0°-180°	4293.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	2	14	29	32	34	3
95°	39	128	685	200	134	42
105°	134	198	928	1623	1468	142
115°	237	295	710	1557	1786	234
125°	329	388	663	1201	1408	292
135°	386	460	653	989	1142	298
145°	440	504	645	811	892	276
155°	500	539	625	710	740	230
165°	546	562	598	634	645	154
175°	569	570	574	582	581	54
180°	570	570	570	570	570	



TEST NUMBER: P1007510

CATALOG NUMBER: S123IP-B1195UB2750-4F0-XX-W2A-4_4000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	2.3	4.6	6.9	10.4	12.7	15.0	18.5	21.9	25.4	28.9	27.7
92.5°	17.3	25.4	36.9	47.3	58.9	79.7	116.6	177.8	237.8	214.7	160.5
95°	39.3	42.7	55.4	75.0	105.1	150.1	248.2	420.2	609.5	684.6	555.3
97.5°	62.3	63.5	73.9	91.2	121.2	170.9	267.8	467.6	786.2	1052.9	1088.6
100°	85.4	86.6	94.7	110.8	138.5	183.6	264.4	435.2	738.8	1093.3	1320.7
102.5°	109.7	112.0	118.9	133.9	158.2	198.6	269.0	407.5	669.6	1018.2	1332.2
105°	133.9	137.4	144.3	158.2	180.1	215.9	278.2	397.1	615.3	928.2	1259.5
107.5°	159.3	162.8	169.7	183.6	204.3	237.8	293.2	394.8	576.1	848.5	1155.6
110°	187.0	190.5	196.3	209.0	228.6	260.9	312.9	400.6	555.3	782.7	1058.6

TEST NUMBER: P1007510

CATALOG NUMBER: S123IP-B1195UB2750-4F0-XX-W2A-4_4000K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	212.4	215.9	221.7	234.4	254.0	285.1	332.5	412.1	543.7	738.8	974.4
115°	236.7	241.3	248.2	259.8	279.4	310.5	354.4	424.8	542.6	710.0	909.7
117.5°	260.9	266.7	272.5	282.8	304.8	333.6	377.5	441.0	543.7	690.4	867.0
120°	286.3	289.8	295.5	307.1	329.0	357.9	399.4	459.5	548.4	677.7	834.7
122.5°	308.2	311.7	317.5	330.2	351.0	382.1	422.5	476.8	556.4	669.6	808.1
125°	329.0	331.3	338.3	351.0	372.9	404.1	444.5	495.3	564.5	662.7	786.2
127.5°	345.2	348.6	356.7	369.4	393.7	424.8	464.1	510.3	573.8	659.2	765.4
130°	360.2	363.7	374.0	387.9	412.1	443.3	481.4	525.3	583.0	655.7	749.2
132.5°	371.7	376.4	387.9	405.2	429.5	459.5	496.4	539.1	589.9	654.6	734.2
135°	385.6	390.2	402.9	420.2	444.5	475.6	511.4	550.7	596.9	653.4	721.5
137.5°	398.3	402.9	415.6	434.1	458.3	487.2	521.8	559.9	601.5	651.1	710.0
140°	411.0	416.8	428.3	446.8	469.9	498.7	532.2	566.8	606.1	650.0	699.6
142.5°	424.8	429.5	442.2	458.3	481.4	508.0	540.3	573.8	609.5	647.6	690.4
145°	439.8	443.3	453.7	471.0	490.6	517.2	547.2	578.4	610.7	645.3	682.3
147.5°	454.9	457.2	467.6	482.6	502.2	525.3	553.0	581.8	610.7	641.9	674.2
150°	469.9	471.0	480.3	495.3	511.4	532.2	558.8	583.0	610.7	637.3	666.1
152.5°	484.9	484.9	494.1	506.8	520.7	540.3	562.2	585.3	607.2	631.5	656.9
155°	499.9	499.9	506.8	518.3	531.0	547.2	566.8	585.3	604.9	624.6	647.6
157.5°	511.4	512.6	518.3	528.7	540.3	553.0	569.1	586.5	601.5	618.8	637.3
160°	525.3	525.3	529.9	539.1	547.2	558.8	572.6	586.5	599.2	611.9	626.9
162.5°	535.7	535.7	539.1	546.1	553.0	562.2	573.8	585.3	594.5	604.9	616.5
165°	546.1	544.9	547.2	553.0	557.6	565.7	574.9	583.0	589.9	598.0	607.2
167.5°	554.1	553.0	554.1	558.8	562.2	568.0	574.9	581.8	585.3	591.1	598.0
170°	561.1	558.8	559.9	563.4	565.7	568.0	573.8	578.4	580.7	584.2	589.9
172.5°	565.7	564.5	564.5	566.8	568.0	569.1	573.8	577.2	577.2	578.4	581.8
175°	569.1	568.0	566.8	569.1	569.1	570.3	572.6	574.9	573.8	573.8	576.1
177.5°	571.5	570.3	569.1	570.3	570.3	570.3	571.5	573.8	571.5	570.3	571.5
180°	570.3	570.3	570.3	570.3	570.3	570.3	570.3	570.3	570.3	570.3	570.3

TEST NUMBER: P1007510

CATALOG NUMBER: S123IP-B1195UB2750-4F0-XX-W2A-4_4000K

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	28.9	30.0	31.2	33.5	32.3	33.5	34.6	33.5
92.5°	114.3	88.9	77.3	69.3	67.0	62.3	63.5	61.2
95°	415.6	281.7	220.5	178.9	157.0	146.6	138.5	133.9
97.5°	954.7	720.4	568.0	436.4	359.0	315.2	287.5	274.8
100°	1361.1	1267.6	1132.5	968.6	852.0	767.7	722.7	723.8
102.5°	1496.2	1515.8	1451.1	1362.3	1278.0	1215.6	1179.8	1146.4
105°	1500.8	1616.2	1638.2	1608.1	1555.0	1511.2	1474.2	1468.5
107.5°	1431.5	1612.8	1702.8	1734.0	1727.1	1706.3	1691.3	1678.6
110°	1323.0	1535.4	1680.9	1761.7	1794.0	1803.3	1800.9	1798.6

TEST NUMBER: P1007510

CATALOG NUMBER: S123IP-B1195UB2750-4F0-XX-W2A-4_4000K

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1215.6	1433.8	1601.2	1710.9	1776.7	1810.2	1821.7	1822.9
115°	1123.3	1324.2	1493.9	1619.7	1706.3	1757.1	1780.2	1785.9
117.5°	1051.7	1229.5	1385.3	1515.8	1605.8	1662.4	1697.0	1705.1
120°	997.4	1153.3	1291.8	1408.4	1499.6	1564.3	1592.0	1598.9
122.5°	954.7	1092.1	1217.9	1324.2	1402.7	1459.2	1490.4	1499.6
125°	917.8	1043.6	1154.5	1246.8	1320.7	1371.5	1400.3	1408.4
127.5°	884.3	998.6	1100.2	1185.6	1252.6	1296.4	1323.0	1329.9
130°	853.1	957.0	1050.5	1129.1	1190.2	1231.8	1256.0	1265.3
132.5°	824.3	917.8	1003.2	1077.1	1133.7	1175.2	1196.0	1201.8
135°	798.9	880.8	955.9	1021.7	1078.3	1112.9	1133.7	1141.8
137.5°	774.6	843.9	910.9	969.7	1018.2	1054.0	1071.3	1078.3
140°	753.9	812.7	868.1	917.8	961.7	994.0	1012.5	1011.3
142.5°	734.2	782.7	828.9	870.5	906.2	934.0	950.1	949.0
145°	719.2	757.3	794.3	827.7	856.6	880.8	890.1	892.4
147.5°	706.5	737.7	768.9	793.1	816.2	833.5	842.7	843.9
150°	692.7	719.2	743.5	765.4	782.7	795.4	802.3	802.3
152.5°	680.0	701.9	722.7	740.0	752.7	764.2	767.7	767.7
155°	667.3	685.7	703.1	716.9	727.3	736.5	738.8	740.0
157.5°	653.4	669.6	683.4	695.0	704.2	711.1	713.5	713.5
160°	641.9	654.6	666.1	674.2	682.3	689.2	689.2	688.1
162.5°	628.0	638.4	648.8	655.7	660.3	666.1	666.1	665.0
165°	616.5	623.4	631.5	637.3	641.9	646.5	645.3	645.3
167.5°	606.1	611.9	616.5	621.1	623.4	626.9	625.7	625.7
170°	595.7	599.2	603.8	606.1	607.2	609.5	608.4	608.4
172.5°	586.5	588.8	592.2	593.4	593.4	595.7	593.4	592.2
175°	578.4	579.5	581.8	581.8	581.8	583.0	581.8	580.7
177.5°	572.6	573.8	574.9	574.9	573.8	574.9	572.6	572.6
180°	570.3	570.3	570.3	570.3	570.3	570.3	570.3	570.3

(END OF REPORT)