

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: P1007508

Luminaire Tested: S123IP-B1195UB2750-4F0-XX-W2A-4_3000K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007508
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_3000K
Description: Define 3 Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

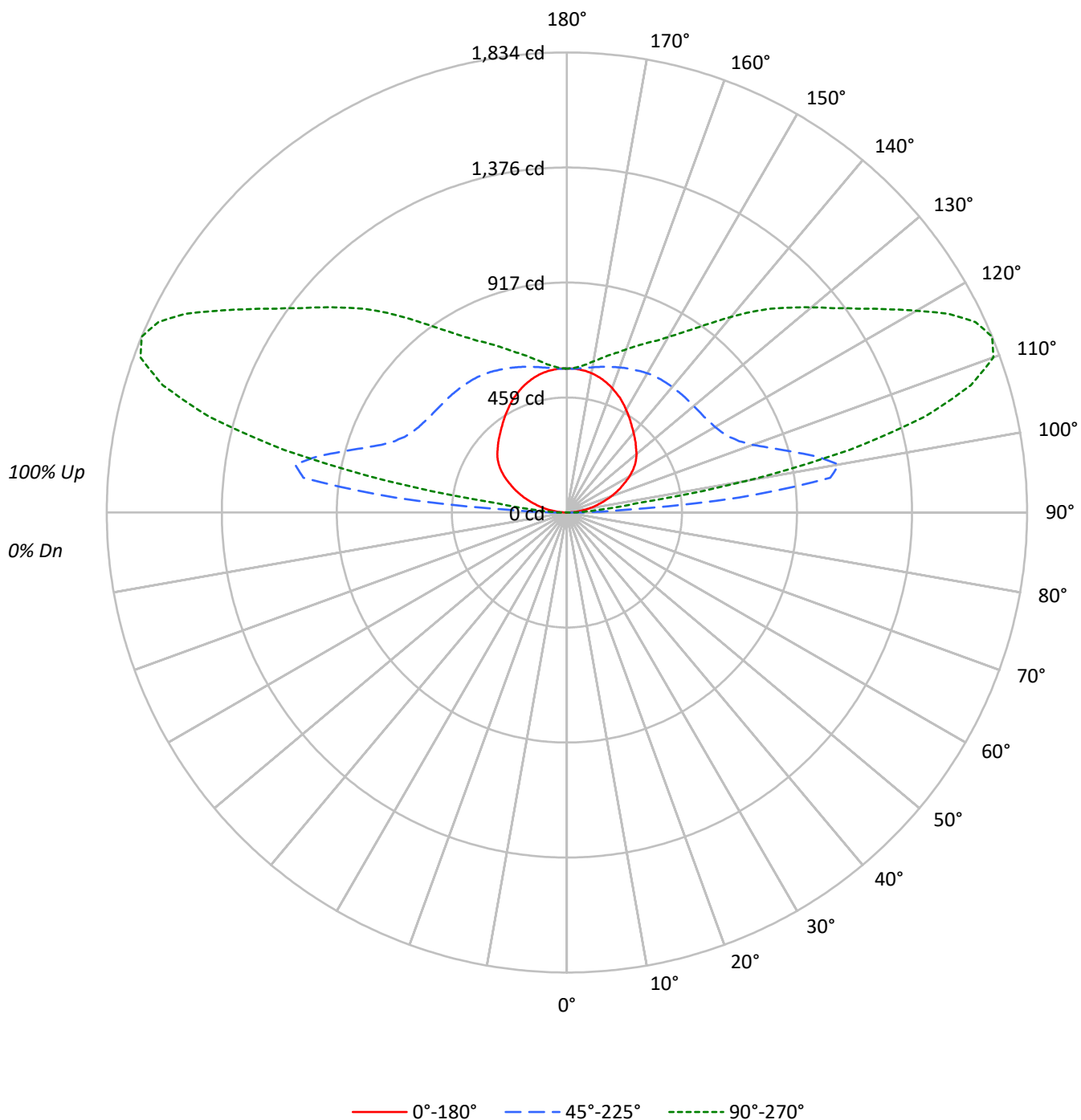
Lumens per Lamp: N/A
Luminaire Lumens: 4318.0 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

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: P1007508

CATALOG NUMBER: S123IP-B1195UB2750-4F0-XX-W2A-4_3000K

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2

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: P1007508

CATALOG NUMBER: S123IP-B1195UB2750-4F0-XX-W2A-4_3000K

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°	311.3	7.2
100°-110°	911.3	21.1
110°-120°	889.9	20.6
120°-130°	708.7	16.4
130°-140°	559.2	12.9
140°-150°	417.1	9.7
150°-160°	290.9	6.7
160°-170°	170.9	4.0
170°-180°	55.6	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°	2112.5	48.9
90°-150°	3797.6	87.9
90°-180°	4315.0	99.9
0°-180°	4318.0	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	33	34	3
95°	40	128	689	201	135	42
105°	135	199	934	1633	1477	143
115°	238	297	714	1566	1796	236
125°	331	391	666	1208	1417	294
135°	388	463	657	995	1148	300
145°	442	507	649	816	898	277
155°	503	542	628	714	744	231
165°	549	565	602	638	649	155
175°	572	573	577	585	584	54
180°	574	574	574	574	574	

TEST NUMBER: P1007508

CATALOG NUMBER: S123IP-B1195UB2750-4F0-XX-W2A-4_3000K

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	7.0	10.5	12.8	15.1	18.6	22.1	25.5	29.0	27.9
92.5°	17.4	25.5	37.2	47.6	59.2	80.1	117.3	178.8	239.2	216.0	161.4
95°	39.5	43.0	55.7	75.5	105.7	151.0	249.7	422.7	613.1	688.6	558.5
97.5°	62.7	63.9	74.3	91.7	121.9	171.9	269.4	470.3	790.8	1059.0	1095.0
100°	85.9	87.1	95.2	111.5	139.3	184.6	265.9	437.8	743.2	1099.6	1328.4
102.5°	110.3	112.6	119.6	134.7	159.1	199.7	270.6	409.9	673.5	1024.2	1340.0
105°	134.7	138.2	145.1	159.1	181.1	217.1	279.8	399.4	618.9	933.6	1266.8
107.5°	160.2	163.7	170.7	184.6	205.5	239.2	294.9	397.1	579.4	853.5	1162.3
110°	188.1	191.6	197.4	210.2	229.9	262.4	314.7	402.9	558.5	787.3	1064.8



TEST NUMBER: P1007508

CATALOG NUMBER: S123IP-B1195UB2750-4F0-XX-W2A-4_3000K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	213.7	217.1	222.9	235.7	255.5	286.8	334.4	414.5	546.9	743.2	980.0
115°	238.0	242.7	249.7	261.3	281.0	312.4	356.5	427.3	545.8	714.1	915.0
117.5°	262.4	268.2	274.0	284.5	306.5	335.6	379.7	443.6	546.9	694.4	872.0
120°	288.0	291.5	297.3	308.9	330.9	360.0	401.8	462.1	551.6	681.6	839.5
122.5°	310.0	313.5	319.3	332.1	353.0	384.3	425.0	479.6	559.7	673.5	812.8
125°	330.9	333.3	340.2	353.0	375.1	406.4	447.1	498.1	567.8	666.5	790.8
127.5°	347.2	350.7	358.8	371.6	396.0	427.3	466.8	513.2	577.1	663.0	769.9
130°	362.3	365.8	376.2	390.2	414.5	445.9	484.2	528.3	586.4	659.5	753.6
132.5°	373.9	378.5	390.2	407.6	432.0	462.1	499.3	542.3	593.4	658.4	738.5
135°	387.8	392.5	405.2	422.7	447.1	478.4	514.4	553.9	600.3	657.2	725.7
137.5°	400.6	405.2	418.0	436.6	461.0	490.0	524.9	563.2	605.0	654.9	714.1
140°	413.4	419.2	430.8	449.4	472.6	501.6	535.3	570.1	609.6	653.7	703.7
142.5°	427.3	432.0	444.7	461.0	484.2	510.9	543.4	577.1	613.1	651.4	694.4
145°	442.4	445.9	456.3	473.8	493.5	520.2	550.4	581.7	614.3	649.1	686.3
147.5°	457.5	459.8	470.3	485.4	505.1	528.3	556.2	585.2	614.3	645.6	678.1
150°	472.6	473.8	483.0	498.1	514.4	535.3	562.0	586.4	614.3	641.0	670.0
152.5°	487.7	487.7	497.0	509.8	523.7	543.4	565.5	588.7	610.8	635.2	660.7
155°	502.8	502.8	509.8	521.4	534.1	550.4	570.1	588.7	608.5	628.2	651.4
157.5°	514.4	515.6	521.4	531.8	543.4	556.2	572.5	589.9	605.0	622.4	641.0
160°	528.3	528.3	533.0	542.3	550.4	562.0	575.9	589.9	602.6	615.4	630.5
162.5°	538.8	538.8	542.3	549.2	556.2	565.5	577.1	588.7	598.0	608.5	620.1
165°	549.2	548.1	550.4	556.2	560.8	569.0	578.3	586.4	593.4	601.5	610.8
167.5°	557.4	556.2	557.4	562.0	565.5	571.3	578.3	585.2	588.7	594.5	601.5
170°	564.3	562.0	563.2	566.7	569.0	571.3	577.1	581.7	584.1	587.6	593.4
172.5°	569.0	567.8	567.8	570.1	571.3	572.5	577.1	580.6	580.6	581.7	585.2
175°	572.5	571.3	570.1	572.5	572.5	573.6	575.9	578.3	577.1	577.1	579.4
177.5°	574.8	573.6	572.5	573.6	573.6	573.6	574.8	577.1	574.8	573.6	574.8
180°	573.6	573.6	573.6	573.6	573.6	573.6	573.6	573.6	573.6	573.6	573.6

TEST NUMBER: P1007508

CATALOG NUMBER: S123IP-B1195UB2750-4F0-XX-W2A-4_3000K

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°	29.0	30.2	31.4	33.7	32.5	33.7	34.8	33.7
92.5°	115.0	89.4	77.8	69.7	67.3	62.7	63.9	61.5
95°	418.0	283.3	221.8	180.0	157.9	147.5	139.3	134.7
97.5°	960.3	724.6	571.3	438.9	361.1	317.0	289.1	276.4
100°	1369.0	1275.0	1139.1	974.2	856.9	772.2	726.9	728.1
102.5°	1504.9	1524.6	1459.6	1370.2	1285.4	1222.7	1186.7	1153.0
105°	1509.5	1625.6	1647.7	1617.5	1564.1	1520.0	1482.8	1477.0
107.5°	1439.9	1622.2	1712.7	1744.1	1737.1	1716.2	1701.1	1688.3
110°	1330.7	1544.4	1690.7	1772.0	1804.5	1813.8	1811.4	1809.1

TEST NUMBER: P1007508

CATALOG NUMBER: S123IP-B1195UB2750-4F0-XX-W2A-4_3000K

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1222.7	1442.2	1610.5	1720.9	1787.0	1820.7	1832.3	1833.5
115°	1129.8	1331.9	1502.6	1629.1	1716.2	1767.3	1790.5	1796.3
117.5°	1057.8	1236.6	1393.4	1524.6	1615.2	1672.1	1706.9	1715.1
120°	1003.3	1160.0	1299.4	1416.6	1508.4	1573.4	1601.3	1608.2
122.5°	960.3	1098.5	1225.0	1331.9	1410.8	1467.7	1499.1	1508.4
125°	923.1	1049.7	1161.2	1254.1	1328.4	1379.5	1408.5	1416.6
127.5°	889.5	1004.4	1106.6	1192.5	1259.9	1304.0	1330.7	1337.7
130°	858.1	962.6	1056.7	1135.6	1197.2	1239.0	1263.4	1272.6
132.5°	829.1	923.1	1009.1	1083.4	1140.3	1182.1	1203.0	1208.8
135°	803.5	886.0	961.5	1027.6	1084.5	1119.4	1140.3	1148.4
137.5°	779.1	848.8	916.2	975.4	1024.2	1060.2	1077.6	1084.5
140°	758.2	817.5	873.2	923.1	967.3	999.8	1018.3	1017.2
142.5°	738.5	787.3	833.7	875.5	911.5	939.4	955.6	954.5
145°	723.4	761.7	798.9	832.6	861.6	886.0	895.3	897.6
147.5°	710.6	742.0	773.3	797.7	820.9	838.4	847.7	848.8
150°	696.7	723.4	747.8	769.9	787.3	800.0	807.0	807.0
152.5°	683.9	706.0	726.9	744.3	757.1	768.7	772.2	772.2
155°	671.2	689.7	707.2	721.1	731.5	740.8	743.2	744.3
157.5°	657.2	673.5	687.4	699.0	708.3	715.3	717.6	717.6
160°	645.6	658.4	670.0	678.1	686.3	693.2	693.2	692.1
162.5°	631.7	642.1	652.6	659.5	664.2	670.0	670.0	668.8
165°	620.1	627.0	635.2	641.0	645.6	650.3	649.1	649.1
167.5°	609.6	615.4	620.1	624.7	627.0	630.5	629.4	629.4
170°	599.2	602.6	607.3	609.6	610.8	613.1	611.9	611.9
172.5°	589.9	592.2	595.7	596.8	596.8	599.2	596.8	595.7
175°	581.7	582.9	585.2	585.2	585.2	586.4	585.2	584.1
177.5°	575.9	577.1	578.3	578.3	577.1	578.3	575.9	575.9
180°	573.6	573.6	573.6	573.6	573.6	573.6	573.6	573.6

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