

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: P1007599

Luminaire Tested: S123IP-B805UB2750-4F0-XX-W2A-4_3500K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007599
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-B805UB2750-4F0-XX-W2A-4_3500K
Description: Define 3 Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

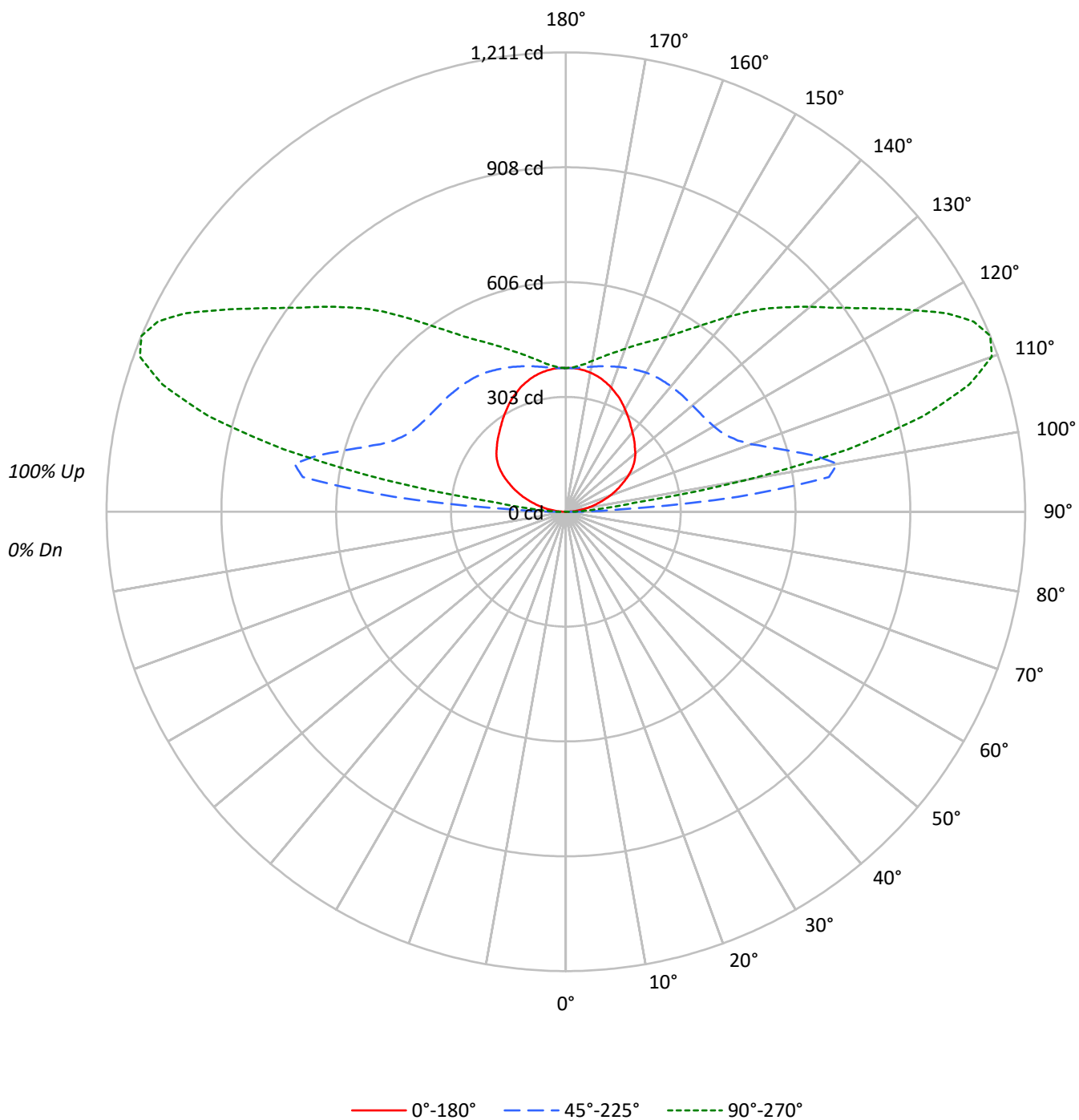
Lumens per Lamp: N/A
Luminaire Lumens: 2852.0 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 21.1
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: P1007599

CATALOG NUMBER: S123IP-B805UB2750-4F0-XX-W2A-4_3500K

Luminous Intensity Polar Plot



TEST NUMBER: P1007599

CATALOG NUMBER: S123IP-B805UB2750-4F0-XX-W2A-4_3500K

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: P1007599

CATALOG NUMBER: S123IP-B805UB2750-4F0-XX-W2A-4_3500K

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°	2.1	0.1
90°-100°	205.6	7.2
100°-110°	601.9	21.1
110°-120°	587.8	20.6
120°-130°	468.1	16.4
130°-140°	369.3	12.9
140°-150°	275.5	9.7
150°-160°	192.1	6.7
160°-170°	112.8	4.0
170°-180°	36.7	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.1	0.1
90°-120°	1395.3	48.9
90°-150°	2508.2	87.9
90°-180°	2850.0	99.9
0°-180°	2852.0	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	9	19	21	22	2
95°	26	85	455	133	89	28
105°	89	132	617	1078	976	94
115°	157	196	472	1034	1186	156
125°	219	258	440	798	936	194
135°	256	306	434	657	758	198
145°	292	335	429	539	593	183
155°	332	358	415	472	492	153
165°	363	373	397	421	429	102
175°	378	378	381	386	386	36
180°	379	379	379	379	379	

TEST NUMBER: P1007599

CATALOG NUMBER: S123IP-B805UB2750-4F0-XX-W2A-4_3500K

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°	1.5	3.1	4.6	6.9	8.4	10.0	12.3	14.6	16.9	19.2	18.4
92.5°	11.5	16.9	24.5	31.4	39.1	52.9	77.5	118.1	158.0	142.7	106.6
95°	26.1	28.4	36.8	49.9	69.8	99.7	164.9	279.2	404.9	454.8	368.9
97.5°	41.4	42.2	49.1	60.6	80.5	113.5	177.9	310.6	522.3	699.5	723.2
100°	56.8	57.5	62.9	73.6	92.0	121.9	175.6	289.1	490.8	726.3	877.4
102.5°	72.9	74.4	79.0	89.0	105.1	131.9	178.7	270.7	444.8	676.4	885.1
105°	89.0	91.3	95.9	105.1	119.6	143.4	184.8	263.8	408.8	616.6	836.7
107.5°	105.8	108.1	112.7	121.9	135.7	158.0	194.8	262.3	382.7	563.7	767.7
110°	124.2	126.5	130.4	138.8	151.9	173.3	207.8	266.1	368.9	520.0	703.3

TEST NUMBER: P1007599

CATALOG NUMBER: S123IP-B805UB2750-4F0-XX-W2A-4_3500K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	141.1	143.4	147.3	155.7	168.7	189.4	220.9	273.8	361.2	490.8	647.3
115°	157.2	160.3	164.9	172.6	185.6	206.3	235.5	282.2	360.5	471.7	604.4
117.5°	173.3	177.2	181.0	187.9	202.5	221.6	250.8	293.0	361.2	458.6	576.0
120°	190.2	192.5	196.3	204.0	218.6	237.8	265.4	305.2	364.3	450.2	554.5
122.5°	204.8	207.1	210.9	219.3	233.2	253.9	280.7	316.7	369.7	444.8	536.9
125°	218.6	220.1	224.7	233.2	247.7	268.4	295.3	329.0	375.0	440.2	522.3
127.5°	229.3	231.6	237.0	245.4	261.5	282.2	308.3	339.0	381.2	437.9	508.5
130°	239.3	241.6	248.5	257.7	273.8	294.5	319.8	349.0	387.3	435.6	497.7
132.5°	247.0	250.0	257.7	269.2	285.3	305.2	329.8	358.2	391.9	434.9	487.8
135°	256.2	259.2	267.7	279.2	295.3	316.0	339.8	365.8	396.5	434.1	479.3
137.5°	264.6	267.7	276.1	288.4	304.5	323.7	346.7	372.0	399.6	432.6	471.7
140°	273.0	276.9	284.5	296.8	312.1	331.3	353.6	376.6	402.6	431.8	464.8
142.5°	282.2	285.3	293.7	304.5	319.8	337.5	358.9	381.2	404.9	430.3	458.6
145°	292.2	294.5	301.4	312.9	326.0	343.6	363.5	384.2	405.7	428.7	453.3
147.5°	302.2	303.7	310.6	320.6	333.6	349.0	367.4	386.5	405.7	426.4	447.9
150°	312.1	312.9	319.0	329.0	339.8	353.6	371.2	387.3	405.7	423.4	442.5
152.5°	322.1	322.1	328.3	336.7	345.9	358.9	373.5	388.8	403.4	419.5	436.4
155°	332.1	332.1	336.7	344.4	352.8	363.5	376.6	388.8	401.9	414.9	430.3
157.5°	339.8	340.5	344.4	351.3	358.9	367.4	378.1	389.6	399.6	411.1	423.4
160°	349.0	349.0	352.0	358.2	363.5	371.2	380.4	389.6	398.0	406.5	416.5
162.5°	355.9	355.9	358.2	362.8	367.4	373.5	381.2	388.8	395.0	401.9	409.5
165°	362.8	362.0	363.5	367.4	370.4	375.8	381.9	387.3	391.9	397.3	403.4
167.5°	368.1	367.4	368.1	371.2	373.5	377.3	381.9	386.5	388.8	392.7	397.3
170°	372.7	371.2	372.0	374.3	375.8	377.3	381.2	384.2	385.8	388.1	391.9
172.5°	375.8	375.0	375.0	376.6	377.3	378.1	381.2	383.5	383.5	384.2	386.5
175°	378.1	377.3	376.6	378.1	378.1	378.9	380.4	381.9	381.2	381.2	382.7
177.5°	379.6	378.9	378.1	378.9	378.9	378.9	379.6	381.2	379.6	378.9	379.6
180°	378.9	378.9	378.9	378.9	378.9	378.9	378.9	378.9	378.9	378.9	378.9

TEST NUMBER: P1007599

CATALOG NUMBER: S123IP-B805UB2750-4F0-XX-W2A-4_3500K

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°	19.2	19.9	20.7	22.2	21.5	22.2	23.0	22.2
92.5°	75.9	59.1	51.4	46.0	44.5	41.4	42.2	40.6
95°	276.1	187.1	146.5	118.9	104.3	97.4	92.0	89.0
97.5°	634.3	478.6	377.3	289.9	238.5	209.4	191.0	182.5
100°	904.2	842.1	752.4	643.5	566.0	510.0	480.1	480.9
102.5°	994.0	1007.0	964.0	905.0	849.0	807.6	783.8	761.6
105°	997.0	1073.7	1088.3	1068.4	1033.1	1003.9	979.4	975.6
107.5°	951.0	1071.4	1131.2	1152.0	1147.3	1133.5	1123.6	1115.1
110°	878.9	1020.0	1116.7	1170.4	1191.8	1198.0	1196.4	1194.9

TEST NUMBER: P1007599

CATALOG NUMBER: S123IP-B805UB2750-4F0-XX-W2A-4_3500K

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	807.6	952.5	1063.8	1136.6	1180.3	1202.6	1210.2	1211.0
115°	746.2	879.7	992.4	1076.0	1133.5	1167.3	1182.6	1186.5
117.5°	698.7	816.8	920.3	1007.0	1066.8	1104.4	1127.4	1132.8
120°	662.6	766.2	858.2	935.7	996.3	1039.2	1057.6	1062.2
122.5°	634.3	725.5	809.1	879.7	931.8	969.4	990.1	996.3
125°	609.7	693.3	766.9	828.3	877.4	911.1	930.3	935.7
127.5°	587.5	663.4	730.9	787.7	832.1	861.3	878.9	883.5
130°	566.8	635.8	697.9	750.1	790.7	818.3	834.4	840.6
132.5°	547.6	609.7	666.5	715.6	753.1	780.7	794.6	798.4
135°	530.7	585.2	635.0	678.7	716.3	739.3	753.1	758.5
137.5°	514.6	560.6	605.1	644.2	676.4	700.2	711.7	716.3
140°	500.8	539.9	576.7	609.7	638.9	660.3	672.6	671.8
142.5°	487.8	520.0	550.7	578.3	602.1	620.5	631.2	630.4
145°	477.8	503.1	527.7	549.9	569.1	585.2	591.3	592.8
147.5°	469.4	490.1	510.8	526.9	542.2	553.7	559.9	560.6
150°	460.2	477.8	493.9	508.5	520.0	528.4	533.0	533.0
152.5°	451.7	466.3	480.1	491.6	500.0	507.7	510.0	510.0
155°	443.3	455.6	467.1	476.3	483.2	489.3	490.8	491.6
157.5°	434.1	444.8	454.0	461.7	467.8	472.4	474.0	474.0
160°	426.4	434.9	442.5	447.9	453.3	457.9	457.9	457.1
162.5°	417.2	424.1	431.0	435.6	438.7	442.5	442.5	441.8
165°	409.5	414.1	419.5	423.4	426.4	429.5	428.7	428.7
167.5°	402.6	406.5	409.5	412.6	414.1	416.5	415.7	415.7
170°	395.7	398.0	401.1	402.6	403.4	404.9	404.2	404.2
172.5°	389.6	391.1	393.4	394.2	394.2	395.7	394.2	393.4
175°	384.2	385.0	386.5	386.5	386.5	387.3	386.5	385.8
177.5°	380.4	381.2	381.9	381.9	381.2	381.9	380.4	380.4
180°	378.9	378.9	378.9	378.9	378.9	378.9	378.9	378.9

(END OF REPORT)