

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: P1007360

Luminaire Tested: S122IP-B330UB2750-4F0-XX-W2A-4_4000K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122IP-B330UB2750-4F0-XX-W2A-4_4000K
Description: Define 2 Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

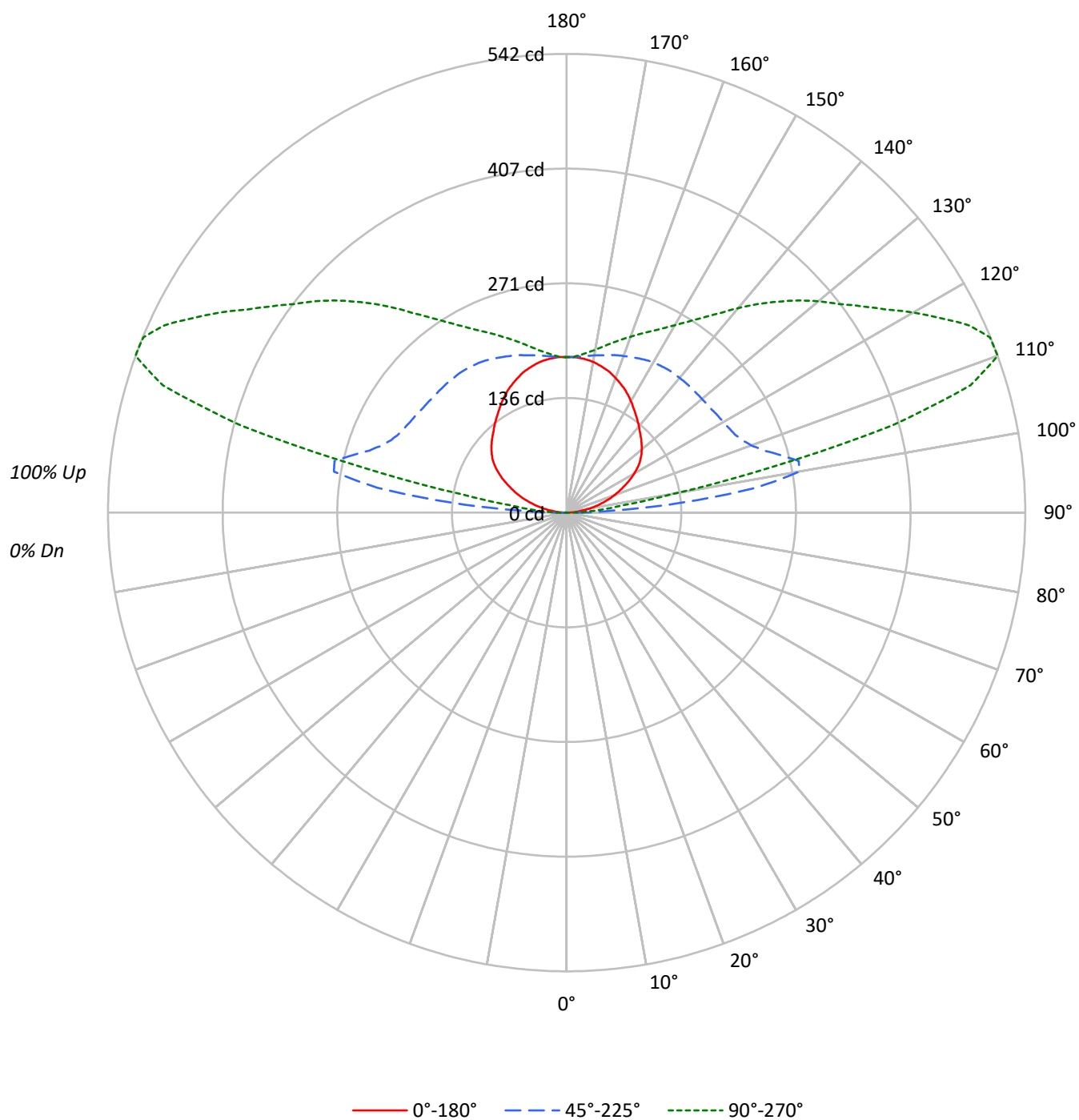
Lumens per Lamp: N/A
Luminaire Lumens: 1281.0 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 9.3
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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CATALOG NUMBER: S122IP-B330UB2750-4F0-XX-W2A-4_4000K

Luminous Intensity Polar Plot



TEST NUMBER: P1007360

CATALOG NUMBER: S122IP-B330UB2750-4F0-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

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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°	1.2	0.1
90°-100°	71.6	5.6
100°-110°	252.3	19.7
110°-120°	265.0	20.7
120°-130°	218.0	17.0
130°-140°	175.1	13.7
140°-150°	132.3	10.3
150°-160°	93.0	7.3
160°-170°	54.7	4.3
170°-180°	17.8	1.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.2	0.1
90°-120°	588.9	46.0
90°-150°	1114.3	87.0
90°-180°	1280.0	99.9
0°-180°	1281.0	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°	0	5	12	12	12	1
95°	12	30	138	52	40	13
105°	43	65	262	468	398	46
115°	76	96	219	452	524	75
125°	106	125	211	366	425	94
135°	124	148	208	308	352	96
145°	142	163	207	257	281	89
155°	162	174	201	227	236	74
165°	176	181	193	204	208	50
175°	183	184	185	188	187	17
180°	184	184	184	184	184	

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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°	0.4	1.4	2.8	3.5	4.2	5.3	7.1	9.5	11.7	12.0	11.7
92.5°	5.3	7.4	10.2	12.0	14.8	18.7	28.3	41.7	53.7	54.4	45.6
95°	12.4	13.8	17.3	20.5	26.2	34.6	50.9	81.6	122.6	138.5	121.2
97.5°	18.4	20.5	24.4	29.0	35.3	44.9	65.7	108.5	174.6	225.8	227.6
100°	27.2	28.3	31.5	37.1	44.2	54.1	72.8	115.9	192.3	279.2	330.1
102.5°	35.3	36.0	39.2	44.9	52.3	62.2	79.2	116.3	185.5	281.0	368.3
105°	43.1	44.5	47.0	52.3	60.1	70.0	86.6	118.0	176.4	261.9	355.9
107.5°	51.6	52.7	55.1	60.1	67.9	77.8	94.0	121.9	171.4	244.2	329.7
110°	60.1	61.5	63.6	68.2	75.6	85.9	101.4	126.9	170.0	232.2	305.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	67.9	69.3	71.7	76.0	83.1	93.7	108.5	132.2	170.3	224.4	288.4
115°	76.0	77.8	79.9	84.1	91.2	100.7	115.9	137.5	171.8	219.1	275.0
117.5°	84.5	85.9	88.0	91.9	98.6	108.5	122.6	143.1	173.9	216.3	265.8
120°	92.2	93.7	95.8	99.0	106.0	115.9	129.7	148.8	176.0	213.8	258.7
122.5°	99.7	100.7	102.8	106.4	113.4	123.7	136.4	153.7	178.5	212.4	252.7
125°	106.0	107.1	109.2	113.4	120.5	130.4	143.1	159.0	180.9	210.6	247.0
127.5°	111.3	112.7	115.6	120.2	126.9	137.1	149.5	164.0	183.4	209.6	241.7
130°	115.9	117.3	120.9	125.8	132.9	142.8	155.1	168.6	186.2	208.9	236.4
132.5°	120.2	121.9	125.8	131.1	138.5	148.4	160.1	173.2	189.1	208.5	232.2
135°	124.4	125.8	130.1	135.4	143.5	153.4	164.7	177.1	191.2	208.2	228.3
137.5°	128.3	130.1	134.3	140.0	148.1	157.3	168.6	180.2	193.3	208.2	225.5
140°	132.9	134.3	138.5	144.2	152.0	161.2	171.8	182.7	194.7	207.8	223.0
142.5°	137.5	138.5	142.4	148.1	155.5	164.0	174.2	184.8	195.8	207.8	220.5
145°	142.1	143.5	147.0	152.3	159.4	167.2	176.7	186.6	196.5	207.1	218.4
147.5°	147.0	148.1	151.6	156.6	162.6	169.6	178.8	187.7	196.9	206.0	216.3
150°	152.0	153.0	155.9	160.5	165.8	172.1	180.2	188.4	196.5	205.0	213.5
152.5°	156.9	157.3	160.1	164.0	168.9	174.6	181.7	188.7	195.8	203.2	211.0
155°	161.5	161.9	164.0	167.9	171.8	177.1	183.1	189.1	195.1	201.1	207.8
157.5°	165.4	165.8	167.5	171.1	174.2	178.8	184.1	189.1	193.7	199.0	205.0
160°	169.3	169.6	171.1	173.9	176.7	180.6	184.8	189.1	192.6	196.9	201.8
162.5°	173.2	172.8	174.2	176.4	178.8	181.7	185.2	188.7	191.6	195.1	199.0
165°	176.0	175.6	176.4	178.5	180.2	182.4	185.5	188.0	190.1	192.6	195.8
167.5°	178.5	178.1	178.8	180.2	181.7	183.1	185.5	187.7	188.7	190.5	192.6
170°	180.9	180.2	180.6	181.7	182.4	183.4	185.2	187.0	187.7	188.7	190.1
172.5°	182.4	182.0	181.7	182.7	183.1	183.8	184.8	185.9	186.2	186.6	187.7
175°	183.4	183.1	182.7	183.4	183.4	183.8	184.5	185.2	184.8	185.2	185.5
177.5°	184.1	183.4	183.1	183.8	183.8	183.8	184.1	184.8	184.1	183.8	184.1
180°	183.8	183.8	183.8	183.8	183.8	183.8	183.8	183.8	183.8	183.8	183.8

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CATALOG NUMBER: S122IP-B330UB2750-4F0-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°	11.3	10.6	11.3	11.7	11.7	11.7	11.7	11.7
92.5°	35.7	30.4	26.5	23.7	23.3	21.9	22.3	21.6
95°	92.6	71.0	56.2	48.4	43.8	41.0	39.9	40.3
97.5°	189.4	151.3	115.6	94.4	80.6	73.5	69.6	67.5
100°	322.7	278.8	230.4	187.7	158.3	143.1	132.9	126.5
102.5°	410.0	408.5	376.4	330.4	297.9	269.3	255.9	246.7
105°	429.4	469.3	473.9	462.3	440.4	418.4	403.2	398.3
107.5°	408.5	467.9	502.6	516.7	516.3	513.2	508.6	500.4
110°	379.9	443.2	488.4	517.4	532.6	539.3	542.5	542.1

TEST NUMBER: P1007360

CATALOG NUMBER: S122IP-B330UB2750-4F0-XX-W2A-4_4000K

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	353.8	413.8	463.0	497.3	519.9	532.2	539.0	541.4
115°	333.3	387.7	434.0	470.4	495.5	511.7	520.9	524.1
117.5°	316.3	365.1	408.2	442.8	468.6	485.9	495.5	498.0
120°	304.3	348.1	385.6	417.7	442.5	459.1	469.3	472.9
122.5°	294.7	334.0	369.0	397.2	418.8	435.1	443.9	446.7
125°	285.6	322.0	353.1	379.6	400.1	413.5	422.3	425.2
127.5°	276.4	309.9	339.6	364.4	382.4	395.1	402.9	405.0
130°	267.5	297.9	325.8	349.2	366.5	378.5	385.6	388.4
132.5°	259.1	286.6	311.7	333.3	350.2	362.3	368.6	371.1
135°	251.3	274.6	297.9	317.7	332.9	344.6	350.9	352.4
137.5°	244.9	265.1	284.1	301.8	316.3	326.6	332.2	334.3
140°	238.9	255.9	272.1	287.7	299.0	308.2	313.5	315.6
142.5°	234.0	247.7	261.2	273.5	284.1	292.3	296.9	296.9
145°	229.4	241.0	252.0	262.2	270.7	276.7	280.3	281.3
147.5°	225.8	235.4	244.2	252.0	259.4	264.4	266.8	267.5
150°	221.9	229.7	237.1	243.5	248.8	253.0	255.2	255.5
152.5°	218.1	225.1	231.1	236.4	240.3	243.9	245.3	245.3
155°	214.5	220.2	225.5	229.4	233.3	235.7	237.1	236.4
157.5°	210.3	215.2	219.8	223.0	225.8	228.0	228.7	228.7
160°	206.4	210.3	214.2	216.6	219.1	220.9	221.2	221.2
162.5°	202.5	205.7	208.9	210.6	213.1	214.2	214.5	214.2
165°	198.6	201.1	203.6	205.0	206.4	207.8	207.8	207.5
167.5°	194.7	196.9	198.6	200.0	200.7	201.4	201.4	201.1
170°	191.9	193.0	194.4	195.1	195.4	196.5	196.1	195.4
172.5°	188.7	189.4	190.5	190.8	191.2	191.6	191.2	190.8
175°	186.6	187.0	187.3	187.7	187.7	188.0	187.7	187.0
177.5°	184.8	184.8	185.2	185.2	185.2	185.2	184.8	184.1
180°	183.8	183.8	183.8	183.8	183.8	183.8	183.8	183.8

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