

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: P1007359

Luminaire Tested: S122IP-B330UB2750-4F0-XX-W2A-4_3500K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007359
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_3500K
Description: Define 2 Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

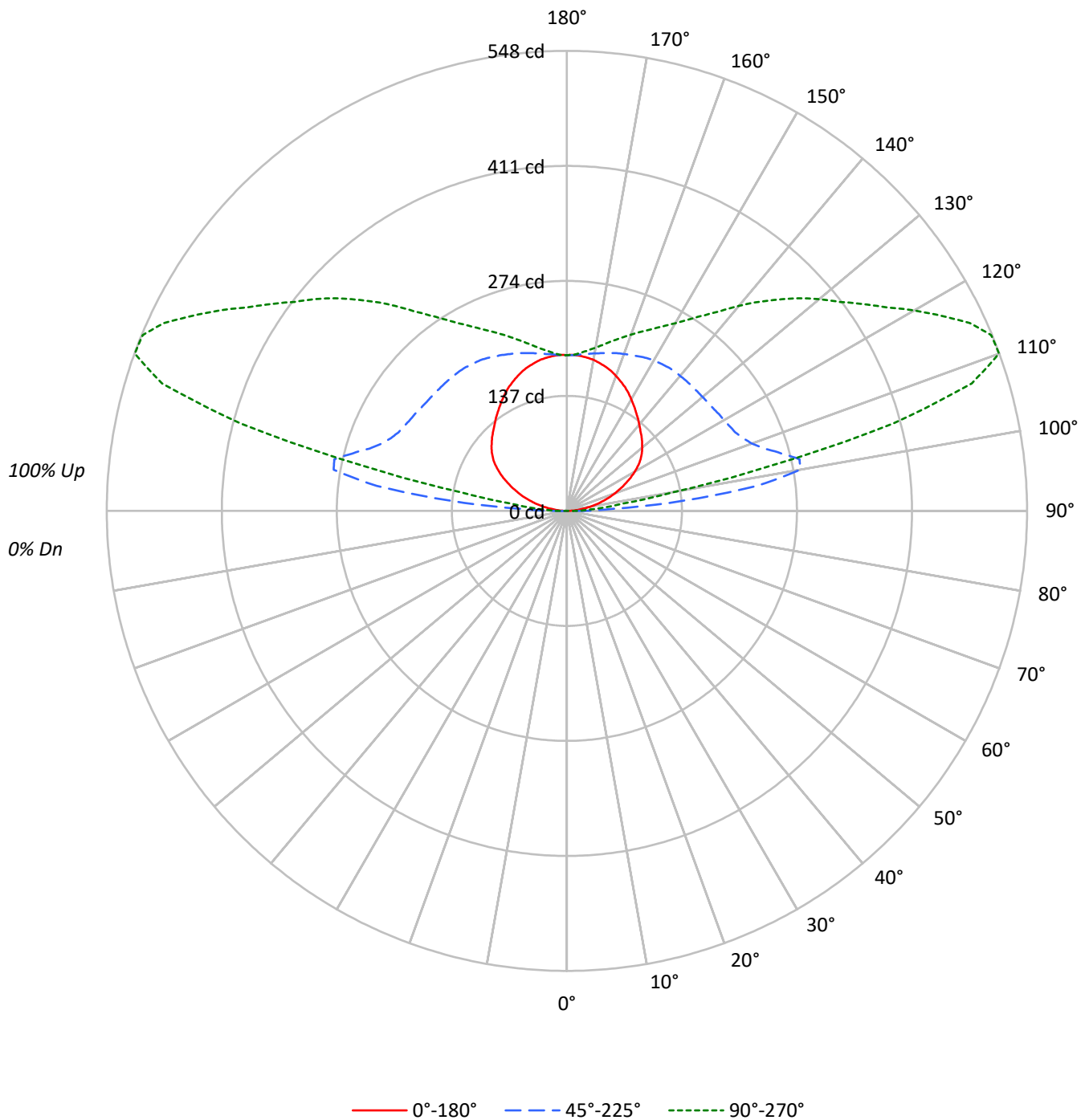
Lumens per Lamp: N/A
Luminaire Lumens: 1294.0 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 9.3
Input Voltage (V):
Input Current (A_{in}): 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: P1007359

CATALOG NUMBER: S122IP-B330UB2750-4F0-XX-W2A-4_3500K

Luminous Intensity Polar Plot



TEST NUMBER: P1007359

CATALOG NUMBER: S122IP-B330UB2750-4F0-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: P1007359

CATALOG NUMBER: S122IP-B330UB2750-4F0-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°	1.2	0.1
90°-100°	72.4	5.6
100°-110°	254.9	19.7
110°-120°	267.7	20.7
120°-130°	220.2	17.0
130°-140°	176.9	13.7
140°-150°	133.6	10.3
150°-160°	93.9	7.3
160°-170°	55.3	4.3
170°-180°	18.0	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°	594.9	46.0
90°-150°	1125.6	87.0
90°-180°	1293.0	99.9
0°-180°	1294.0	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	31	140	53	41	13
105°	44	66	264	473	402	46
115°	77	97	221	457	529	76
125°	107	127	213	370	430	95
135°	126	150	210	311	356	97
145°	144	165	209	260	284	90
155°	163	176	203	230	239	75
165°	178	183	195	206	210	50
175°	185	185	187	189	189	18
180°	186	186	186	186	186	



TEST NUMBER: P1007359

CATALOG NUMBER: S122IP-B330UB2750-4F0-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°	0.4	1.4	2.9	3.6	4.3	5.4	7.1	9.6	11.8	12.1	11.8
92.5°	5.4	7.5	10.4	12.1	15.0	18.9	28.6	42.1	54.3	55.0	46.1
95°	12.5	13.9	17.5	20.7	26.4	35.0	51.4	82.5	123.9	139.9	122.5
97.5°	18.6	20.7	24.6	29.3	35.7	45.3	66.4	109.6	176.4	228.1	229.9
100°	27.5	28.6	31.8	37.5	44.6	54.6	73.5	117.1	194.2	282.0	333.4
102.5°	35.7	36.4	39.6	45.3	52.8	62.8	80.0	117.5	187.4	283.8	372.0
105°	43.6	45.0	47.5	52.8	60.7	70.7	87.5	119.2	178.1	264.5	359.5
107.5°	52.1	53.2	55.7	60.7	68.5	78.5	95.0	123.2	173.1	246.7	333.1
110°	60.7	62.1	64.3	68.9	76.4	86.8	102.5	128.2	171.7	234.5	308.4

TEST NUMBER: P1007359

CATALOG NUMBER: S122IP-B330UB2750-4F0-XX-W2A-4_3500K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	68.5	70.0	72.5	76.8	83.9	94.6	109.6	133.5	172.1	226.7	291.3
115°	76.8	78.5	80.7	85.0	92.1	101.7	117.1	138.9	173.5	221.3	277.7
117.5°	85.3	86.8	88.9	92.8	99.6	109.6	123.9	144.6	175.6	218.5	268.5
120°	93.2	94.6	96.7	100.0	107.1	117.1	131.0	150.3	177.8	216.0	261.3
122.5°	100.7	101.7	103.9	107.5	114.6	125.0	137.8	155.3	180.3	214.6	255.3
125°	107.1	108.2	110.3	114.6	121.7	131.7	144.6	160.7	182.8	212.8	249.5
127.5°	112.5	113.9	116.7	121.4	128.2	138.5	151.0	165.6	185.3	211.7	244.2
130°	117.1	118.5	122.1	127.1	134.2	144.2	156.7	170.3	188.1	211.0	238.8
132.5°	121.4	123.2	127.1	132.4	139.9	149.9	161.7	174.9	191.0	210.6	234.5
135°	125.7	127.1	131.4	136.7	144.9	154.9	166.4	178.9	193.1	210.3	230.6
137.5°	129.6	131.4	135.7	141.4	149.6	158.9	170.3	182.1	195.3	210.3	227.8
140°	134.2	135.7	139.9	145.7	153.5	162.8	173.5	184.6	196.7	209.9	225.3
142.5°	138.9	139.9	143.9	149.6	157.1	165.6	176.0	186.7	197.8	209.9	222.8
145°	143.5	144.9	148.5	153.9	161.0	168.9	178.5	188.5	198.5	209.2	220.6
147.5°	148.5	149.6	153.2	158.2	164.2	171.4	180.6	189.6	198.8	208.1	218.5
150°	153.5	154.6	157.4	162.1	167.4	173.9	182.1	190.3	198.5	207.1	215.6
152.5°	158.5	158.9	161.7	165.6	170.6	176.4	183.5	190.6	197.8	205.3	213.1
155°	163.1	163.5	165.6	169.6	173.5	178.9	184.9	191.0	197.1	203.1	209.9
157.5°	167.1	167.4	169.2	172.8	176.0	180.6	186.0	191.0	195.6	201.0	207.1
160°	171.0	171.4	172.8	175.6	178.5	182.4	186.7	191.0	194.6	198.8	203.8
162.5°	174.9	174.6	176.0	178.1	180.6	183.5	187.1	190.6	193.5	197.1	201.0
165°	177.8	177.4	178.1	180.3	182.1	184.2	187.4	189.9	192.1	194.6	197.8
167.5°	180.3	179.9	180.6	182.1	183.5	184.9	187.4	189.6	190.6	192.4	194.6
170°	182.8	182.1	182.4	183.5	184.2	185.3	187.1	188.9	189.6	190.6	192.1
172.5°	184.2	183.9	183.5	184.6	184.9	185.6	186.7	187.8	188.1	188.5	189.6
175°	185.3	184.9	184.6	185.3	185.3	185.6	186.4	187.1	186.7	187.1	187.4
177.5°	186.0	185.3	184.9	185.6	185.6	185.6	186.0	186.7	186.0	185.6	186.0
180°	185.6	185.6	185.6	185.6	185.6	185.6	185.6	185.6	185.6	185.6	185.6

TEST NUMBER: P1007359

CATALOG NUMBER: S122IP-B330UB2750-4F0-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°	11.4	10.7	11.4	11.8	11.8	11.8	11.8	11.8
92.5°	36.1	30.7	26.8	23.9	23.6	22.1	22.5	21.8
95°	93.5	71.8	56.8	48.9	44.3	41.4	40.3	40.7
97.5°	191.4	152.8	116.7	95.3	81.4	74.3	70.3	68.2
100°	325.9	281.7	232.8	189.6	159.9	144.6	134.2	127.8
102.5°	414.1	412.7	380.2	333.8	301.0	272.0	258.5	249.2
105°	433.8	474.1	478.7	467.0	444.8	422.7	407.3	402.3
107.5°	412.7	472.7	507.7	521.9	521.6	518.4	513.7	505.5
110°	383.8	447.7	493.4	522.7	538.0	544.8	548.0	547.6

TEST NUMBER: P1007359

CATALOG NUMBER: S122IP-B330UB2750-4F0-XX-W2A-4_3500K

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	357.4	418.0	467.7	502.3	525.1	537.6	544.4	546.9
115°	336.7	391.6	438.4	475.2	500.5	516.9	526.2	529.4
117.5°	319.5	368.8	412.3	447.3	473.4	490.9	500.5	503.0
120°	307.4	351.6	389.5	422.0	447.0	463.7	474.1	477.7
122.5°	297.7	337.4	372.7	401.3	423.0	439.5	448.4	451.2
125°	288.5	325.2	356.6	383.4	404.1	417.7	426.6	429.5
127.5°	279.2	313.1	343.1	368.1	386.3	399.1	407.0	409.1
130°	270.3	301.0	329.2	352.7	370.2	382.3	389.5	392.3
132.5°	261.7	289.5	314.9	336.7	353.8	365.9	372.4	374.9
135°	253.8	277.4	301.0	320.9	336.3	348.1	354.5	355.9
137.5°	247.4	267.8	287.0	304.9	319.5	329.9	335.6	337.7
140°	241.3	258.5	274.9	290.6	302.0	311.3	316.7	318.8
142.5°	236.3	250.3	263.8	276.3	287.0	295.2	299.9	299.9
145°	231.7	243.5	254.5	264.9	273.5	279.5	283.1	284.2
147.5°	228.1	237.8	246.7	254.5	262.0	267.0	269.5	270.3
150°	224.2	232.1	239.5	246.0	251.3	255.6	257.8	258.1
152.5°	220.3	227.4	233.5	238.8	242.8	246.3	247.8	247.8
155°	216.7	222.4	227.8	231.7	235.6	238.1	239.5	238.8
157.5°	212.4	217.4	222.1	225.3	228.1	230.3	231.0	231.0
160°	208.5	212.4	216.3	218.8	221.3	223.1	223.5	223.5
162.5°	204.6	207.8	211.0	212.8	215.3	216.3	216.7	216.3
165°	200.6	203.1	205.6	207.1	208.5	209.9	209.9	209.6
167.5°	196.7	198.8	200.6	202.1	202.8	203.5	203.5	203.1
170°	193.9	194.9	196.4	197.1	197.4	198.5	198.1	197.4
172.5°	190.6	191.4	192.4	192.8	193.1	193.5	193.1	192.8
175°	188.5	188.9	189.2	189.6	189.6	189.9	189.6	188.9
177.5°	186.7	186.7	187.1	187.1	187.1	187.1	186.7	186.0
180°	185.6	185.6	185.6	185.6	185.6	185.6	185.6	185.6

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