

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: P1007538

Luminaire Tested: S123IP-B365UB2750-4F0-XX-W2A-4_3000K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007538
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-B365UB2750-4F0-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

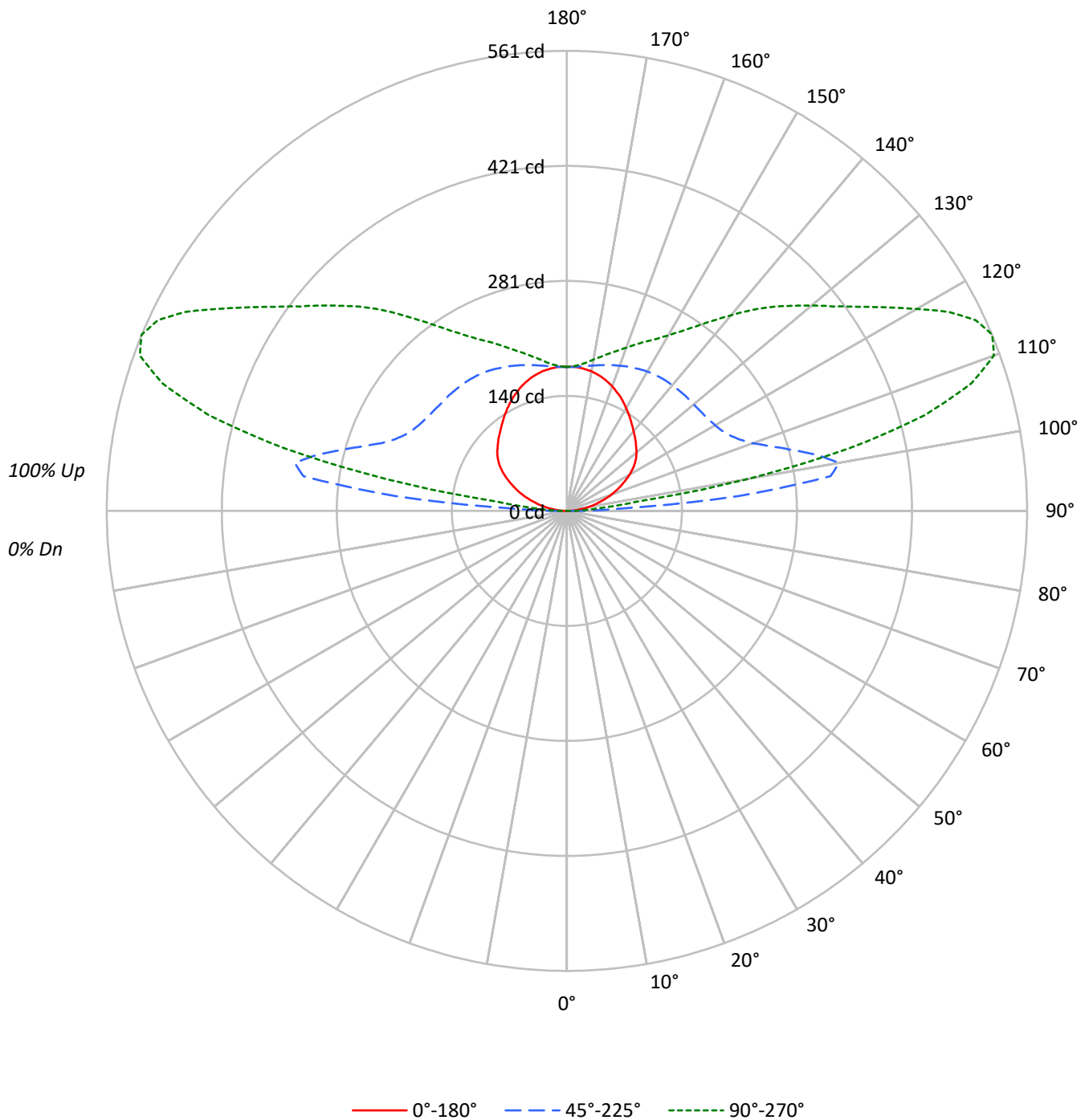
Lumens per Lamp: N/A
Luminaire Lumens: 1322.0 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 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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Luminous Intensity Polar Plot



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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°	1.0	0.1
90°-100°	95.3	7.2
100°-110°	279.0	21.1
110°-120°	272.5	20.6
120°-130°	217.0	16.4
130°-140°	171.2	12.9
140°-150°	127.7	9.7
150°-160°	89.0	6.7
160°-170°	52.3	4.0
170°-180°	17.0	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.0	0.1
90°-120°	646.8	48.9
90°-150°	1162.7	87.9
90°-180°	1321.0	99.9
0°-180°	1322.0	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°	1	4	9	10	10	1
95°	12	39	211	62	41	13
105°	41	61	286	500	452	44
115°	73	91	219	479	550	72
125°	101	120	204	370	434	90
135°	119	142	201	304	352	92
145°	135	155	199	250	275	85
155°	154	166	192	219	228	71
165°	168	173	184	195	199	47
175°	175	175	177	179	179	17
180°	176	176	176	176	176	

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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°	0.7	1.4	2.1	3.2	3.9	4.6	5.7	6.8	7.8	8.9	8.5
92.5°	5.3	7.8	11.4	14.6	18.1	24.5	35.9	54.7	73.2	66.1	49.4
95°	12.1	13.2	17.1	23.1	32.4	46.2	76.4	129.4	187.7	210.8	171.0
97.5°	19.2	19.6	22.8	28.1	37.3	52.6	82.5	144.0	242.1	324.2	335.2
100°	26.3	26.7	29.2	34.1	42.7	56.5	81.4	134.0	227.5	336.7	406.7
102.5°	33.8	34.5	36.6	41.2	48.7	61.1	82.8	125.5	206.2	313.6	410.3
105°	41.2	42.3	44.4	48.7	55.5	66.5	85.7	122.3	189.5	285.8	387.9
107.5°	49.1	50.1	52.3	56.5	62.9	73.2	90.3	121.6	177.4	261.3	355.9
110°	57.6	58.7	60.4	64.3	70.4	80.3	96.3	123.4	171.0	241.0	326.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	65.4	66.5	68.3	72.2	78.2	87.8	102.4	126.9	167.4	227.5	300.0
115°	72.9	74.3	76.4	80.0	86.0	95.6	109.1	130.8	167.1	218.6	280.1
117.5°	80.3	82.1	83.9	87.1	93.9	102.7	116.3	135.8	167.4	212.6	267.0
120°	88.2	89.2	91.0	94.6	101.3	110.2	123.0	141.5	168.9	208.7	257.0
122.5°	94.9	96.0	97.8	101.7	108.1	117.7	130.1	146.8	171.4	206.2	248.9
125°	101.3	102.0	104.2	108.1	114.8	124.4	136.9	152.5	173.8	204.1	242.1
127.5°	106.3	107.4	109.9	113.8	121.2	130.8	142.9	157.1	176.7	203.0	235.7
130°	110.9	112.0	115.2	119.4	126.9	136.5	148.2	161.8	179.5	201.9	230.7
132.5°	114.5	115.9	119.4	124.8	132.2	141.5	152.9	166.0	181.7	201.6	226.1
135°	118.7	120.2	124.1	129.4	136.9	146.5	157.5	169.6	183.8	201.2	222.2
137.5°	122.6	124.1	128.0	133.7	141.1	150.0	160.7	172.4	185.2	200.5	218.6
140°	126.6	128.3	131.9	137.6	144.7	153.6	163.9	174.6	186.6	200.1	215.4
142.5°	130.8	132.2	136.2	141.1	148.2	156.4	166.4	176.7	187.7	199.4	212.6
145°	135.4	136.5	139.7	145.0	151.1	159.3	168.5	178.1	188.1	198.7	210.1
147.5°	140.1	140.8	144.0	148.6	154.6	161.8	170.3	179.2	188.1	197.7	207.6
150°	144.7	145.0	147.9	152.5	157.5	163.9	172.1	179.5	188.1	196.2	205.1
152.5°	149.3	149.3	152.2	156.1	160.3	166.4	173.1	180.2	187.0	194.5	202.3
155°	153.9	153.9	156.1	159.6	163.5	168.5	174.6	180.2	186.3	192.3	199.4
157.5°	157.5	157.8	159.6	162.8	166.4	170.3	175.3	180.6	185.2	190.6	196.2
160°	161.8	161.8	163.2	166.0	168.5	172.1	176.3	180.6	184.5	188.4	193.0
162.5°	165.0	165.0	166.0	168.2	170.3	173.1	176.7	180.2	183.1	186.3	189.8
165°	168.2	167.8	168.5	170.3	171.7	174.2	177.0	179.5	181.7	184.2	187.0
167.5°	170.6	170.3	170.6	172.1	173.1	174.9	177.0	179.2	180.2	182.0	184.2
170°	172.8	172.1	172.4	173.5	174.2	174.9	176.7	178.1	178.8	179.9	181.7
172.5°	174.2	173.8	173.8	174.6	174.9	175.3	176.7	177.8	177.8	178.1	179.2
175°	175.3	174.9	174.6	175.3	175.3	175.6	176.3	177.0	176.7	176.7	177.4
177.5°	176.0	175.6	175.3	175.6	175.6	175.6	176.0	176.7	176.0	175.6	176.0
180°	175.6	175.6	175.6	175.6	175.6	175.6	175.6	175.6	175.6	175.6	175.6

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CATALOG NUMBER: S123IP-B365UB2750-4F0-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°	8.9	9.2	9.6	10.3	10.0	10.3	10.7	10.3
92.5°	35.2	27.4	23.8	21.3	20.6	19.2	19.6	18.8
95°	128.0	86.7	67.9	55.1	48.3	45.1	42.7	41.2
97.5°	294.0	221.8	174.9	134.4	110.6	97.1	88.5	84.6
100°	419.1	390.3	348.8	298.3	262.4	236.4	222.5	222.9
102.5°	460.7	466.8	446.9	419.5	393.5	374.3	363.3	353.0
105°	462.2	497.7	504.5	495.2	478.9	465.4	454.0	452.2
107.5°	440.8	496.6	524.4	534.0	531.8	525.4	520.8	516.9
110°	407.4	472.8	517.6	542.5	552.5	555.3	554.6	553.9

TEST NUMBER: P1007538

CATALOG NUMBER: S123IP-B365UB2750-4F0-XX-W2A-4_3000K

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	374.3	441.5	493.1	526.9	547.1	557.4	561.0	561.3
115°	345.9	407.8	460.0	498.8	525.4	541.1	548.2	550.0
117.5°	323.9	378.6	426.6	466.8	494.5	511.9	522.6	525.1
120°	307.2	355.1	397.8	433.7	461.8	481.7	490.2	492.4
122.5°	294.0	336.3	375.1	407.8	431.9	449.4	459.0	461.8
125°	282.6	321.4	355.5	383.9	406.7	422.3	431.2	433.7
127.5°	272.3	307.5	338.8	365.1	385.7	399.2	407.4	409.5
130°	262.7	294.7	323.5	347.7	366.5	379.3	386.8	389.6
132.5°	253.8	282.6	308.9	331.7	349.1	361.9	368.3	370.1
135°	246.0	271.3	294.4	314.6	332.0	342.7	349.1	351.6
137.5°	238.5	259.9	280.5	298.6	313.6	324.6	329.9	332.0
140°	232.1	250.3	267.3	282.6	296.1	306.1	311.8	311.4
142.5°	226.1	241.0	255.3	268.1	279.1	287.6	292.6	292.2
145°	221.5	233.2	244.6	254.9	263.8	271.3	274.1	274.8
147.5°	217.6	227.2	236.8	244.2	251.3	256.7	259.5	259.9
150°	213.3	221.5	228.9	235.7	241.0	244.9	247.1	247.1
152.5°	209.4	216.1	222.5	227.9	231.8	235.3	236.4	236.4
155°	205.5	211.2	216.5	220.8	224.0	226.8	227.5	227.9
157.5°	201.2	206.2	210.5	214.0	216.9	219.0	219.7	219.7
160°	197.7	201.6	205.1	207.6	210.1	212.2	212.2	211.9
162.5°	193.4	196.6	199.8	201.9	203.3	205.1	205.1	204.8
165°	189.8	192.0	194.5	196.2	197.7	199.1	198.7	198.7
167.5°	186.6	188.4	189.8	191.3	192.0	193.0	192.7	192.7
170°	183.4	184.5	185.9	186.6	187.0	187.7	187.4	187.4
172.5°	180.6	181.3	182.4	182.7	182.7	183.4	182.7	182.4
175°	178.1	178.5	179.2	179.2	179.2	179.5	179.2	178.8
177.5°	176.3	176.7	177.0	177.0	176.7	177.0	176.3	176.3
180°	175.6	175.6	175.6	175.6	175.6	175.6	175.6	175.6

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