

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: P1007541

Luminaire Tested: S123IP-B365UB2750-4F0-XX-W2A-4_5000K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007541
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_5000K
Description: Define 3 Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

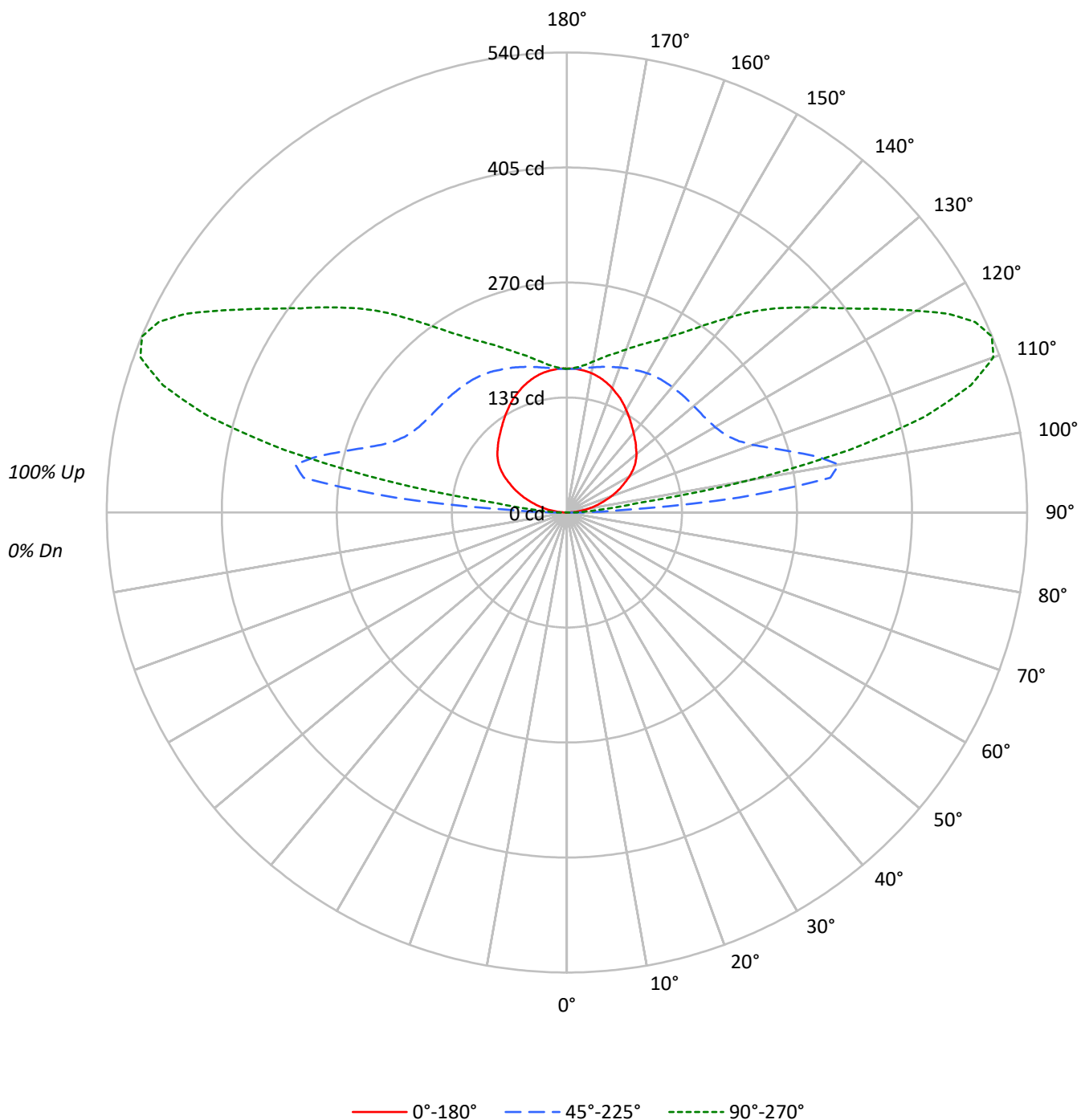
Lumens per Lamp: N/A
Luminaire Lumens: 1271.0 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

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



TEST NUMBER: P1007541

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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°	0.9	0.1
90°-100°	91.6	7.2
100°-110°	268.2	21.1
110°-120°	261.9	20.6
120°-130°	208.6	16.4
130°-140°	164.6	12.9
140°-150°	122.8	9.7
150°-160°	85.6	6.7
160°-170°	50.3	4.0
170°-180°	16.4	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.9	0.1
90°-120°	621.8	48.9
90°-150°	1117.8	87.9
90°-180°	1270.0	99.9
0°-180°	1271.0	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	8	10	10	1
95°	12	38	203	59	40	12
105°	40	59	275	481	435	42
115°	70	87	210	461	529	69
125°	97	115	196	355	417	87
135°	114	136	194	293	338	88
145°	130	149	191	240	264	82
155°	148	160	185	210	219	68
165°	162	166	177	188	191	46
175°	168	169	170	172	172	16
180°	169	169	169	169	169	

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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	3.1	3.8	4.4	5.5	6.5	7.5	8.5	8.2
92.5°	5.1	7.5	10.9	14.0	17.4	23.6	34.5	52.6	70.4	63.6	47.5
95°	11.6	12.6	16.4	22.2	31.1	44.4	73.5	124.4	180.5	202.7	164.4
97.5°	18.5	18.8	21.9	27.0	35.9	50.6	79.3	138.4	232.8	311.7	322.3
100°	25.3	25.6	28.0	32.8	41.0	54.3	78.3	128.9	218.7	323.7	391.0
102.5°	32.5	33.2	35.2	39.6	46.8	58.8	79.6	120.7	198.2	301.5	394.4
105°	39.6	40.7	42.7	46.8	53.3	63.9	82.4	117.6	182.2	274.8	372.9
107.5°	47.2	48.2	50.2	54.3	60.5	70.4	86.8	116.9	170.6	251.2	342.1
110°	55.4	56.4	58.1	61.9	67.7	77.2	92.6	118.6	164.4	231.7	313.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	62.9	63.9	65.6	69.4	75.2	84.4	98.4	122.0	161.0	218.7	288.5
115°	70.1	71.4	73.5	76.9	82.7	91.9	104.9	125.8	160.6	210.2	269.3
117.5°	77.2	79.0	80.7	83.7	90.2	98.8	111.8	130.6	161.0	204.4	256.7
120°	84.8	85.8	87.5	90.9	97.4	106.0	118.3	136.0	162.4	200.6	247.1
122.5°	91.3	92.3	94.0	97.8	103.9	113.1	125.1	141.2	164.7	198.2	239.3
125°	97.4	98.1	100.1	103.9	110.4	119.6	131.6	146.6	167.1	196.2	232.8
127.5°	102.2	103.2	105.6	109.4	116.6	125.8	137.4	151.1	169.9	195.2	226.6
130°	106.6	107.7	110.7	114.8	122.0	131.2	142.5	155.5	172.6	194.1	221.8
132.5°	110.1	111.4	114.8	120.0	127.1	136.0	147.0	159.6	174.7	193.8	217.4
135°	114.2	115.5	119.3	124.4	131.6	140.8	151.4	163.0	176.7	193.5	213.6
137.5°	117.9	119.3	123.0	128.5	135.7	144.2	154.5	165.8	178.1	192.8	210.2
140°	121.7	123.4	126.8	132.3	139.1	147.7	157.6	167.8	179.4	192.4	207.1
142.5°	125.8	127.1	130.9	135.7	142.5	150.4	160.0	169.9	180.5	191.7	204.4
145°	130.2	131.2	134.3	139.5	145.3	153.1	162.0	171.2	180.8	191.1	202.0
147.5°	134.7	135.3	138.4	142.9	148.7	155.5	163.7	172.3	180.8	190.0	199.6
150°	139.1	139.5	142.2	146.6	151.4	157.6	165.4	172.6	180.8	188.7	197.2
152.5°	143.6	143.6	146.3	150.0	154.1	160.0	166.5	173.3	179.8	187.0	194.5
155°	148.0	148.0	150.0	153.5	157.2	162.0	167.8	173.3	179.1	184.9	191.7
157.5°	151.4	151.8	153.5	156.5	160.0	163.7	168.5	173.6	178.1	183.2	188.7
160°	155.5	155.5	156.9	159.6	162.0	165.4	169.5	173.6	177.4	181.1	185.6
162.5°	158.6	158.6	159.6	161.7	163.7	166.5	169.9	173.3	176.0	179.1	182.5
165°	161.7	161.3	162.0	163.7	165.1	167.5	170.2	172.6	174.7	177.0	179.8
167.5°	164.1	163.7	164.1	165.4	166.5	168.2	170.2	172.3	173.3	175.0	177.0
170°	166.1	165.4	165.8	166.8	167.5	168.2	169.9	171.2	171.9	172.9	174.7
172.5°	167.5	167.1	167.1	167.8	168.2	168.5	169.9	170.9	170.9	171.2	172.3
175°	168.5	168.2	167.8	168.5	168.5	168.8	169.5	170.2	169.9	169.9	170.6
177.5°	169.2	168.8	168.5	168.8	168.8	168.8	169.2	169.9	169.2	168.8	169.2
180°	168.8	168.8	168.8	168.8	168.8	168.8	168.8	168.8	168.8	168.8	168.8

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CATALOG NUMBER: S123IP-B365UB2750-4F0-XX-W2A-4_5000K

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°	8.5	8.9	9.2	9.9	9.6	9.9	10.3	9.9
92.5°	33.8	26.3	22.9	20.5	19.8	18.5	18.8	18.1
95°	123.0	83.4	65.3	53.0	46.5	43.4	41.0	39.6
97.5°	282.7	213.3	168.2	129.2	106.3	93.3	85.1	81.3
100°	403.0	375.3	335.3	286.8	252.2	227.3	214.0	214.3
102.5°	443.0	448.8	429.6	403.3	378.4	359.9	349.3	339.4
105°	444.3	478.5	485.0	476.1	460.4	447.4	436.5	434.8
107.5°	423.8	477.5	504.1	513.4	511.3	505.2	500.7	497.0
110°	391.7	454.6	497.6	521.6	531.1	533.9	533.2	532.5

TEST NUMBER: P1007541

CATALOG NUMBER: S123IP-B365UB2750-4F0-XX-W2A-4_5000K

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	359.9	424.5	474.1	506.5	526.0	535.9	539.3	539.7
115°	332.6	392.0	442.3	479.5	505.2	520.2	527.0	528.7
117.5°	311.4	364.0	410.1	448.8	475.4	492.2	502.4	504.8
120°	295.3	341.4	382.5	417.0	444.0	463.1	471.3	473.4
122.5°	282.7	323.3	360.6	392.0	415.3	432.0	441.3	444.0
125°	271.7	309.0	341.8	369.1	391.0	406.0	414.6	417.0
127.5°	261.8	295.6	325.7	351.0	370.8	383.8	391.7	393.7
130°	252.6	283.3	311.0	334.3	352.4	364.7	371.9	374.6
132.5°	244.0	271.7	297.0	318.9	335.6	347.9	354.1	355.8
135°	236.5	260.8	283.0	302.5	319.2	329.5	335.6	338.0
137.5°	229.3	249.8	269.7	287.1	301.5	312.1	317.2	319.2
140°	223.2	240.6	257.0	271.7	284.7	294.3	299.8	299.4
142.5°	217.4	231.7	245.4	257.7	268.3	276.5	281.3	281.0
145°	212.9	224.2	235.2	245.1	253.6	260.8	263.5	264.2
147.5°	209.2	218.4	227.6	234.8	241.6	246.8	249.5	249.8
150°	205.1	212.9	220.1	226.6	231.7	235.5	237.5	237.5
152.5°	201.3	207.8	214.0	219.1	222.8	226.3	227.3	227.3
155°	197.6	203.0	208.2	212.3	215.3	218.1	218.7	219.1
157.5°	193.5	198.2	202.3	205.8	208.5	210.5	211.2	211.2
160°	190.0	193.8	197.2	199.6	202.0	204.0	204.0	203.7
162.5°	185.9	189.0	192.1	194.1	195.5	197.2	197.2	196.9
165°	182.5	184.6	187.0	188.7	190.0	191.4	191.1	191.1
167.5°	179.4	181.1	182.5	183.9	184.6	185.6	185.3	185.3
170°	176.4	177.4	178.8	179.4	179.8	180.5	180.1	180.1
172.5°	173.6	174.3	175.3	175.7	175.7	176.4	175.7	175.3
175°	171.2	171.6	172.3	172.3	172.3	172.6	172.3	171.9
177.5°	169.5	169.9	170.2	170.2	169.9	170.2	169.5	169.5
180°	168.8	168.8	168.8	168.8	168.8	168.8	168.8	168.8

(END OF REPORT)