

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: P1007481

Luminaire Tested: S123IP-B1025UB2750-4F0-XX-W2A-4_5000K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007481
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-B1025UB2750-4F0-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

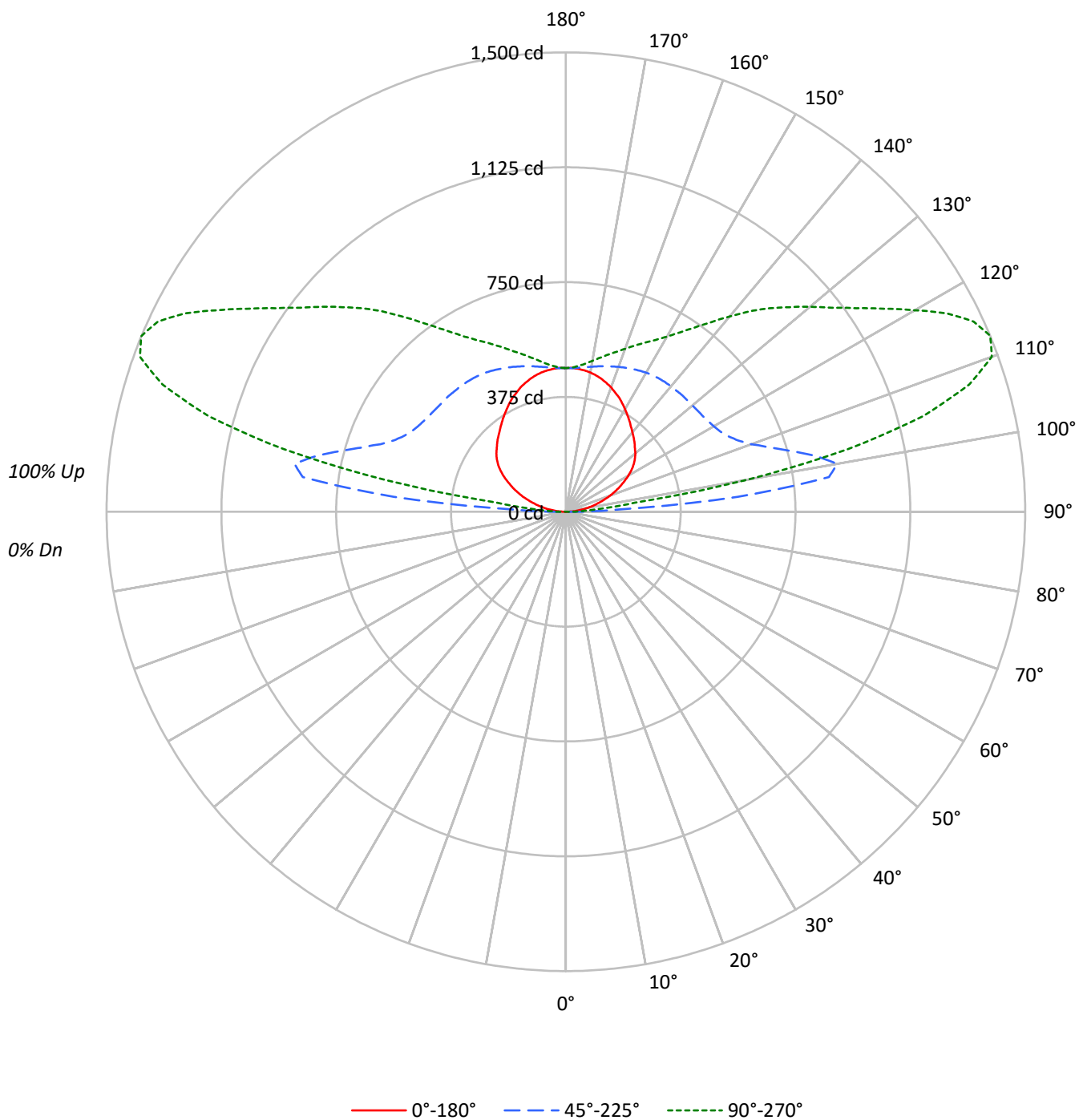
Lumens per Lamp: N/A
Luminaire Lumens: 3533.0 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 28.5
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°	2.6	0.1
90°-100°	254.7	7.2
100°-110°	745.6	21.1
110°-120°	728.1	20.6
120°-130°	579.9	16.4
130°-140°	457.5	12.9
140°-150°	341.3	9.7
150°-160°	238.0	6.7
160°-170°	139.8	4.0
170°-180°	45.5	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.6	0.1
90°-120°	1728.5	48.9
90°-150°	3107.2	87.9
90°-180°	3530.0	99.9
0°-180°	3533.0	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	11	24	27	28	2
95°	32	105	563	164	110	34
105°	110	163	764	1336	1208	117
115°	195	243	584	1281	1470	193
125°	271	320	545	988	1159	241
135°	317	379	538	814	940	245
145°	362	415	531	667	734	227
155°	411	444	514	584	609	189
165°	449	462	492	522	531	127
175°	468	469	472	479	478	44
180°	469	469	469	469	469	

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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°	1.9	3.8	5.7	8.6	10.5	12.4	15.2	18.1	20.9	23.8	22.8
92.5°	14.3	20.9	30.4	39.0	48.5	65.6	96.0	146.3	195.7	176.7	132.1
95°	32.3	35.2	45.6	61.8	86.5	123.5	204.3	345.8	501.6	563.4	457.0
97.5°	51.3	52.3	60.8	75.1	99.8	140.6	220.4	384.8	647.0	866.5	895.9
100°	70.3	71.3	77.9	91.2	114.0	151.1	217.6	358.2	608.0	899.7	1086.9
102.5°	90.3	92.2	97.9	110.2	130.2	163.4	221.4	335.4	551.0	838.0	1096.4
105°	110.2	113.1	118.8	130.2	148.2	177.7	229.0	326.8	506.4	763.9	1036.5
107.5°	131.1	134.0	139.7	151.1	168.2	195.7	241.3	324.9	474.1	698.3	951.0
110°	153.9	156.8	161.5	172.0	188.1	214.7	257.5	329.7	457.0	644.2	871.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	174.8	177.7	182.4	192.9	209.0	234.7	273.6	339.2	447.5	608.0	801.9
115°	194.8	198.6	204.3	213.8	229.9	255.6	291.7	349.6	446.5	584.3	748.7
117.5°	214.7	219.5	224.2	232.8	250.8	274.6	310.7	362.9	447.5	568.1	713.5
120°	235.6	238.5	243.2	252.7	270.8	294.5	328.7	378.1	451.3	557.7	686.9
122.5°	253.7	256.5	261.3	271.7	288.8	314.5	347.7	392.4	457.9	551.0	665.1
125°	270.8	272.7	278.4	288.8	306.9	332.5	365.8	407.6	464.6	545.3	647.0
127.5°	284.1	286.9	293.6	304.0	324.0	349.6	381.9	419.9	472.2	542.5	629.9
130°	296.4	299.3	307.8	319.2	339.2	364.8	396.2	432.3	479.8	539.6	616.6
132.5°	305.9	309.7	319.2	333.5	353.4	378.1	408.5	443.7	485.5	538.7	604.2
135°	317.3	321.1	331.6	345.8	365.8	391.4	420.9	453.2	491.2	537.7	593.8
137.5°	327.8	331.6	342.0	357.2	377.2	400.9	429.4	460.8	495.0	535.8	584.3
140°	338.2	343.0	352.5	367.7	386.7	410.4	438.0	466.5	498.8	534.9	575.7
142.5°	349.6	353.4	363.9	377.2	396.2	418.0	444.6	472.2	501.6	533.0	568.1
145°	362.0	364.8	373.4	387.6	403.8	425.6	450.3	476.0	502.6	531.1	561.5
147.5°	374.3	376.2	384.8	397.1	413.3	432.3	455.1	478.8	502.6	528.2	554.8
150°	386.7	387.6	395.2	407.6	420.9	438.0	459.8	479.8	502.6	524.4	548.2
152.5°	399.0	399.0	406.6	417.1	428.5	444.6	462.7	481.7	499.7	519.7	540.6
155°	411.4	411.4	417.1	426.6	437.0	450.3	466.5	481.7	497.8	514.0	533.0
157.5°	420.9	421.8	426.6	435.1	444.6	455.1	468.4	482.6	495.0	509.2	524.4
160°	432.3	432.3	436.1	443.7	450.3	459.8	471.2	482.6	493.1	503.5	515.9
162.5°	440.8	440.8	443.7	449.4	455.1	462.7	472.2	481.7	489.3	497.8	507.3
165°	449.4	448.4	450.3	455.1	458.9	465.5	473.1	479.8	485.5	492.1	499.7
167.5°	456.0	455.1	456.0	459.8	462.7	467.4	473.1	478.8	481.7	486.4	492.1
170°	461.7	459.8	460.8	463.6	465.5	467.4	472.2	476.0	477.9	480.7	485.5
172.5°	465.5	464.6	464.6	466.5	467.4	468.4	472.2	475.0	475.0	476.0	478.8
175°	468.4	467.4	466.5	468.4	468.4	469.3	471.2	473.1	472.2	472.2	474.1
177.5°	470.3	469.3	468.4	469.3	469.3	469.3	470.3	472.2	470.3	469.3	470.3
180°	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3

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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°	23.8	24.7	25.7	27.6	26.6	27.6	28.5	27.6
92.5°	94.1	73.2	63.7	57.0	55.1	51.3	52.3	50.4
95°	342.0	231.8	181.5	147.3	129.2	120.7	114.0	110.2
97.5°	785.7	592.8	467.4	359.1	295.5	259.4	236.6	226.1
100°	1120.1	1043.2	932.0	797.1	701.2	631.8	594.7	595.7
102.5°	1231.3	1247.4	1194.2	1121.1	1051.7	1000.4	971.0	943.4
105°	1235.1	1330.1	1348.2	1323.5	1279.8	1243.6	1213.2	1208.5
107.5°	1178.1	1327.3	1401.4	1427.0	1421.3	1404.2	1391.9	1381.4
110°	1088.8	1263.6	1383.3	1449.8	1476.4	1484.0	1482.1	1480.2

TEST NUMBER: P1007481

CATALOG NUMBER: S123IP-B1025UB2750-4F0-XX-W2A-4_5000K

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1000.4	1180.0	1317.8	1408.0	1462.2	1489.7	1499.2	1500.2
115°	924.4	1089.7	1229.4	1333.0	1404.2	1446.0	1465.0	1469.8
117.5°	865.5	1011.8	1140.1	1247.4	1321.6	1368.1	1396.6	1403.3
120°	820.9	949.1	1063.1	1159.1	1234.1	1287.4	1310.2	1315.9
122.5°	785.7	898.8	1002.3	1089.7	1154.3	1200.9	1226.5	1234.1
125°	755.3	858.9	950.1	1026.1	1086.9	1128.7	1152.4	1159.1
127.5°	727.8	821.8	905.4	975.7	1030.8	1066.9	1088.8	1094.5
130°	702.1	787.6	864.6	929.2	979.5	1013.7	1033.7	1041.3
132.5°	678.4	755.3	825.6	886.4	933.0	967.2	984.3	989.0
135°	657.5	724.9	786.7	840.8	887.4	915.9	933.0	939.6
137.5°	637.5	694.5	749.6	798.1	838.0	867.4	881.7	887.4
140°	620.4	668.9	714.5	755.3	791.4	818.0	833.2	832.3
142.5°	604.2	644.2	682.2	716.4	745.8	768.6	781.9	781.0
145°	591.9	623.2	653.7	681.2	705.0	724.9	732.5	734.4
147.5°	581.4	607.1	632.8	652.7	671.7	686.0	693.6	694.5
150°	570.0	591.9	611.8	629.9	644.2	654.6	660.3	660.3
152.5°	559.6	577.6	594.7	609.0	619.4	628.9	631.8	631.8
155°	549.1	564.3	578.6	590.0	598.5	606.1	608.0	609.0
157.5°	537.7	551.0	562.4	571.9	579.5	585.2	587.1	587.1
160°	528.2	538.7	548.2	554.8	561.5	567.2	567.2	566.2
162.5°	516.8	525.4	533.9	539.6	543.4	548.2	548.2	547.2
165°	507.3	513.0	519.7	524.4	528.2	532.0	531.1	531.1
167.5°	498.8	503.5	507.3	511.1	513.0	515.9	514.9	514.9
170°	490.2	493.1	496.9	498.8	499.7	501.6	500.7	500.7
172.5°	482.6	484.5	487.4	488.3	488.3	490.2	488.3	487.4
175°	476.0	476.9	478.8	478.8	478.8	479.8	478.8	477.9
177.5°	471.2	472.2	473.1	473.1	472.2	473.1	471.2	471.2
180°	469.3	469.3	469.3	469.3	469.3	469.3	469.3	469.3

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