

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: P1007477

Luminaire Tested: S123IP-B1025UB2750-4F0-XX-W2A-4_2700K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007477
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_2700K
Description: Define 3 Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

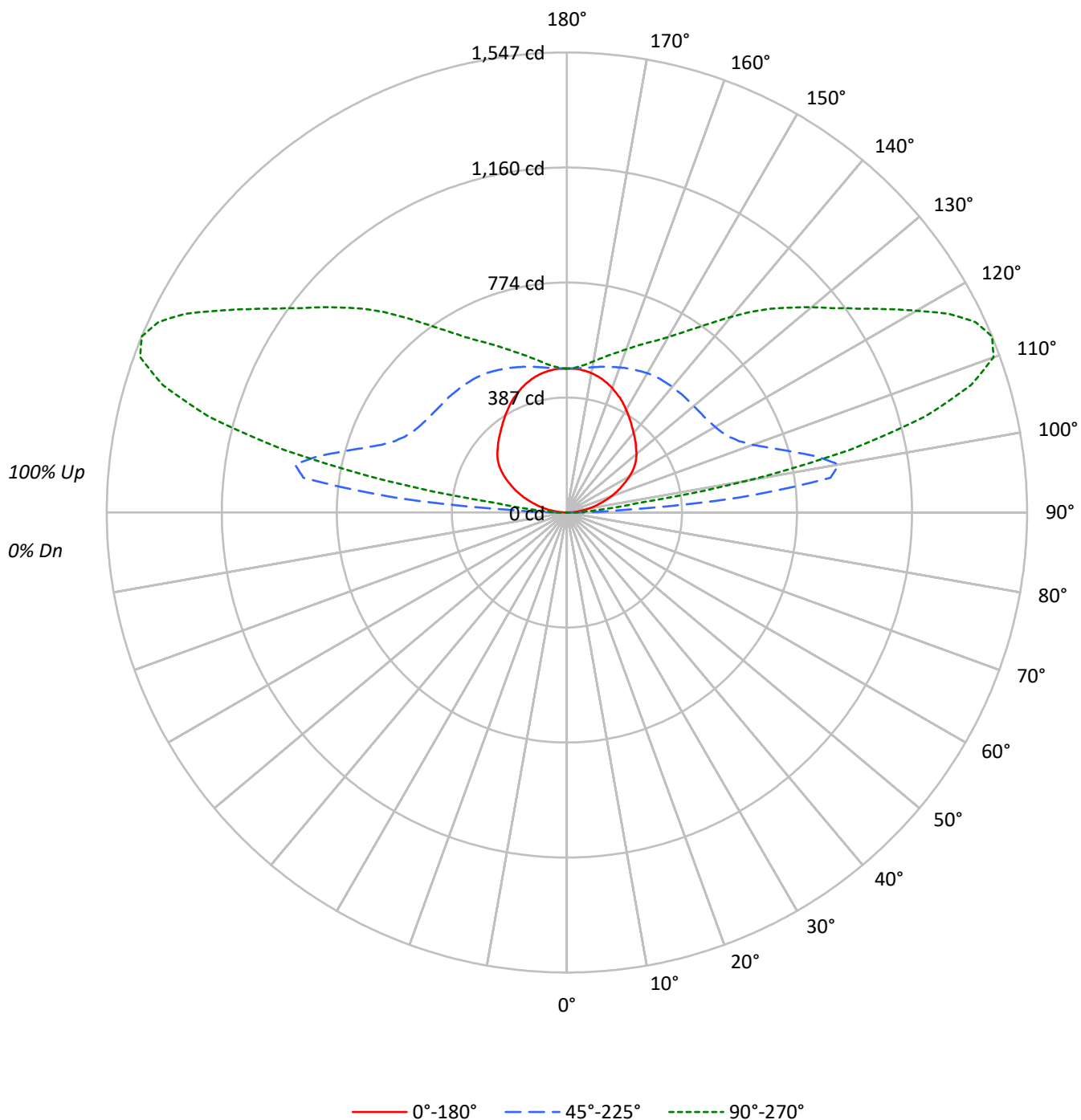
Lumens per Lamp: N/A
Luminaire Lumens: 3643.0 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 28.5
Input Voltage (V): 120
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

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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°	2.7	0.1
90°-100°	262.6	7.2
100°-110°	768.8	21.1
110°-120°	750.8	20.6
120°-130°	597.9	16.4
130°-140°	471.8	12.9
140°-150°	351.9	9.7
150°-160°	245.4	6.7
160°-170°	144.1	4.0
170°-180°	46.9	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.7	0.1
90°-120°	1782.3	48.9
90°-150°	3203.9	87.9
90°-180°	3640.0	99.9
0°-180°	3643.0	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	12	24	27	28	3
95°	33	108	581	169	114	35
105°	114	168	788	1377	1246	121
115°	201	250	602	1321	1516	199
125°	279	330	562	1019	1195	248
135°	327	390	554	839	969	253
145°	373	428	548	688	757	234
155°	424	458	530	602	628	195
165°	463	477	508	538	548	131
175°	483	483	487	494	493	46
180°	484	484	484	484	484	

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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°	2.0	3.9	5.9	8.8	10.8	12.7	15.7	18.6	21.6	24.5	23.5
92.5°	14.7	21.6	31.3	40.2	50.0	67.6	98.9	150.9	201.8	182.2	136.2
95°	33.3	36.2	47.0	63.7	89.1	127.4	210.6	356.6	517.3	580.9	471.2
97.5°	52.9	53.9	62.7	77.4	102.9	145.0	227.3	396.8	667.1	893.4	923.8
100°	72.5	73.5	80.3	94.0	117.6	155.8	224.3	369.3	627.0	927.7	1120.7
102.5°	93.1	95.0	100.9	113.6	134.2	168.5	228.3	345.8	568.2	864.1	1130.5
105°	113.6	116.6	122.5	134.2	152.8	183.2	236.1	337.0	522.2	787.6	1068.8
107.5°	135.2	138.1	144.0	155.8	173.4	201.8	248.8	335.0	488.8	720.0	980.6
110°	158.7	161.6	166.5	177.3	194.0	221.4	265.5	339.9	471.2	664.2	898.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	180.3	183.2	188.1	198.9	215.5	242.0	282.1	349.7	461.4	627.0	826.8
115°	200.8	204.7	210.6	220.4	237.1	263.5	300.8	360.5	460.4	602.5	772.0
117.5°	221.4	226.3	231.2	240.0	258.6	283.1	320.3	374.2	461.4	585.8	735.7
120°	243.0	245.9	250.8	260.6	279.2	303.7	339.0	389.9	465.3	575.1	708.3
122.5°	261.6	264.5	269.4	280.2	297.8	324.3	358.6	404.6	472.2	568.2	685.8
125°	279.2	281.2	287.0	297.8	316.4	342.9	377.2	420.3	479.1	562.3	667.1
127.5°	292.9	295.9	302.7	313.5	334.1	360.5	393.8	433.0	486.9	559.4	649.5
130°	305.7	308.6	317.4	329.2	349.7	376.2	408.5	445.7	494.7	556.4	635.8
132.5°	315.4	319.4	329.2	343.9	364.4	389.9	421.3	457.5	500.6	555.5	623.1
135°	327.2	331.1	341.9	356.6	377.2	403.6	434.0	467.3	506.5	554.5	612.3
137.5°	338.0	341.9	352.7	368.4	388.9	413.4	442.8	475.1	510.4	552.5	602.5
140°	348.8	353.7	363.5	379.1	398.7	423.2	451.6	481.0	514.3	551.5	593.7
142.5°	360.5	364.4	375.2	388.9	408.5	431.0	458.5	486.9	517.3	549.6	585.8
145°	373.2	376.2	385.0	399.7	416.4	438.9	464.4	490.8	518.2	547.6	579.0
147.5°	386.0	387.9	396.8	409.5	426.2	445.7	469.3	493.7	518.2	544.7	572.1
150°	398.7	399.7	407.5	420.3	434.0	451.6	474.2	494.7	518.2	540.8	565.3
152.5°	411.5	411.5	419.3	430.1	441.8	458.5	477.1	496.7	515.3	535.9	557.4
155°	424.2	424.2	430.1	439.9	450.6	464.4	481.0	496.7	513.3	530.0	549.6
157.5°	434.0	435.0	439.9	448.7	458.5	469.3	483.0	497.7	510.4	525.1	540.8
160°	445.7	445.7	449.7	457.5	464.4	474.2	485.9	497.7	508.4	519.2	532.0
162.5°	454.6	454.6	457.5	463.4	469.3	477.1	486.9	496.7	504.5	513.3	523.1
165°	463.4	462.4	464.4	469.3	473.2	480.0	487.9	494.7	500.6	507.5	515.3
167.5°	470.2	469.3	470.2	474.2	477.1	482.0	487.9	493.7	496.7	501.6	507.5
170°	476.1	474.2	475.1	478.1	480.0	482.0	486.9	490.8	492.8	495.7	500.6
172.5°	480.0	479.1	479.1	481.0	482.0	483.0	486.9	489.8	489.8	490.8	493.7
175°	483.0	482.0	481.0	483.0	483.0	483.9	485.9	487.9	486.9	486.9	488.8
177.5°	484.9	483.9	483.0	483.9	483.9	483.9	484.9	486.9	484.9	483.9	484.9
180°	483.9	483.9	483.9	483.9	483.9	483.9	483.9	483.9	483.9	483.9	483.9

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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°	24.5	25.5	26.5	28.4	27.4	28.4	29.4	28.4
92.5°	97.0	75.4	65.6	58.8	56.8	52.9	53.9	51.9
95°	352.7	239.0	187.1	151.8	133.2	124.4	117.6	113.6
97.5°	810.2	611.3	482.0	370.3	304.7	267.4	243.9	233.2
100°	1155.0	1075.7	961.0	821.9	723.0	651.5	613.3	614.2
102.5°	1269.6	1286.3	1231.4	1156.0	1084.5	1031.6	1001.2	972.8
105°	1273.6	1371.5	1390.1	1364.7	1319.6	1282.4	1251.0	1246.1
107.5°	1214.8	1368.6	1445.0	1471.4	1465.6	1447.9	1435.2	1424.4
110°	1122.7	1302.9	1426.4	1495.0	1522.4	1530.2	1528.3	1526.3

TEST NUMBER: P1007477

CATALOG NUMBER: S123IP-B1025UB2750-4F0-XX-W2A-4_2700K

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1031.6	1216.7	1358.8	1451.8	1507.7	1536.1	1545.9	1546.9
115°	953.2	1123.7	1267.7	1374.5	1447.9	1491.0	1510.6	1515.5
117.5°	892.5	1043.3	1175.6	1286.3	1362.7	1410.7	1440.1	1447.0
120°	846.4	978.7	1096.2	1195.2	1272.6	1327.4	1350.9	1356.8
122.5°	810.2	926.8	1033.5	1123.7	1190.3	1238.3	1264.7	1272.6
125°	778.8	885.6	979.7	1058.0	1120.7	1163.8	1188.3	1195.2
127.5°	750.4	847.4	933.6	1006.1	1062.9	1100.2	1122.7	1128.6
130°	724.0	812.1	891.5	958.1	1010.0	1045.3	1065.9	1073.7
132.5°	699.5	778.8	851.3	914.0	962.0	997.3	1014.9	1019.8
135°	677.9	747.5	811.2	867.0	915.0	944.4	962.0	968.9
137.5°	657.3	716.1	772.9	822.9	864.1	894.4	909.1	915.0
140°	639.7	689.7	736.7	778.8	816.1	843.5	859.2	858.2
142.5°	623.1	664.2	703.4	738.7	769.0	792.5	806.3	805.3
145°	610.3	642.7	674.0	702.4	726.9	747.5	755.3	757.3
147.5°	599.5	626.0	652.5	673.0	692.6	707.3	715.1	716.1
150°	587.8	610.3	630.9	649.5	664.2	675.0	680.9	680.9
152.5°	577.0	595.6	613.3	628.0	638.7	648.5	651.5	651.5
155°	566.2	581.9	596.6	608.4	617.2	625.0	627.0	628.0
157.5°	554.5	568.2	580.0	589.8	597.6	603.5	605.4	605.4
160°	544.7	555.5	565.3	572.1	579.0	584.9	584.9	583.9
162.5°	532.9	541.7	550.6	556.4	560.4	565.3	565.3	564.3
165°	523.1	529.0	535.9	540.8	544.7	548.6	547.6	547.6
167.5°	514.3	519.2	523.1	527.1	529.0	532.0	531.0	531.0
170°	505.5	508.4	512.4	514.3	515.3	517.3	516.3	516.3
172.5°	497.7	499.6	502.6	503.5	503.5	505.5	503.5	502.6
175°	490.8	491.8	493.7	493.7	493.7	494.7	493.7	492.8
177.5°	485.9	486.9	487.9	487.9	486.9	487.9	485.9	485.9
180°	483.9	483.9	483.9	483.9	483.9	483.9	483.9	483.9

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