

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: P1007781

Luminaire Tested: S125IP-B1090UB2750-4F0-XX-W2A-4_5000K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125IP-B1090UB2750-4F0-XX-W2A-4_5000K
Description: Define 5 Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

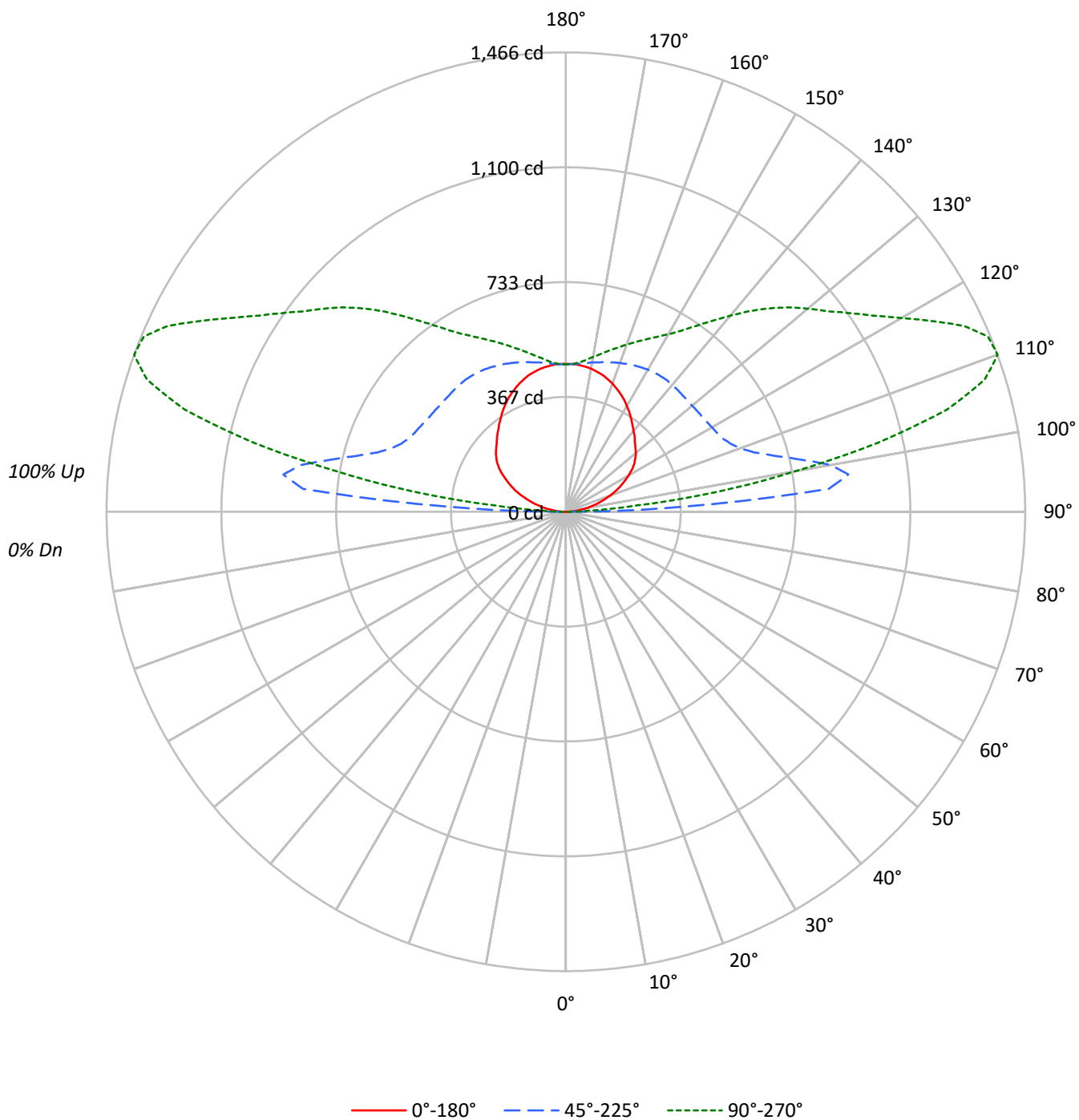
Lumens per Lamp: N/A
Luminaire Lumens: 3542.0 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

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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CATALOG NUMBER: S125IP-B1090UB2750-4F0-XX-W2A-4_5000K

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°	1.9	0.1
90°-100°	342.8	9.7
100°-110°	739.3	20.9
110°-120°	689.3	19.5
120°-130°	558.3	15.8
130°-140°	448.3	12.7
140°-150°	338.1	9.5
150°-160°	238.1	6.7
160°-170°	140.3	4.0
170°-180°	45.6	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.9	0.1
90°-120°	1771.4	50.0
90°-150°	3116.1	88.0
90°-180°	3540.0	99.9
0°-180°	3542.0	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	9	15	20	22	2
95°	31	93	842	382	223	33
105°	107	150	689	1356	1259	113
115°	192	231	553	1192	1403	189
125°	266	312	530	948	1105	236
135°	312	375	526	795	918	242
145°	363	416	528	658	724	228
155°	414	446	515	582	607	191
165°	452	465	494	524	532	127
175°	470	470	474	480	478	45
180°	471	471	471	471	471	



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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°	1.0	1.9	3.8	5.7	7.6	9.5	10.5	12.4	13.3	15.2	16.2
92.5°	14.3	17.1	26.6	40.9	60.8	95.0	159.6	268.0	385.8	379.2	306.0
95°	31.4	32.3	39.9	50.4	71.3	114.0	215.7	424.8	687.0	841.9	823.9
97.5°	48.5	49.4	55.1	65.6	84.6	115.9	186.3	346.8	630.0	909.4	1029.1
100°	66.5	68.4	72.2	82.7	100.7	129.2	184.3	307.9	547.3	858.1	1095.6
102.5°	86.5	87.4	90.3	101.7	117.8	145.4	192.9	291.7	484.6	767.8	1055.7
105°	107.4	107.4	112.1	121.6	136.8	163.4	205.3	289.8	448.5	688.9	961.7
107.5°	127.3	129.2	134.0	141.6	157.7	181.5	222.4	296.5	429.5	630.0	872.3
110°	149.2	151.1	154.9	163.4	177.7	202.4	241.4	306.9	421.9	591.1	798.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	171.0	172.9	175.8	184.3	198.6	222.4	259.4	320.2	421.9	568.3	743.1
115°	192.0	193.9	196.7	205.3	219.5	243.3	278.4	333.5	424.8	553.0	706.0
117.5°	211.0	213.8	216.7	225.2	241.4	264.2	297.4	348.7	429.5	544.5	681.3
120°	230.0	232.8	236.6	245.2	261.3	285.1	318.3	363.9	437.1	538.8	661.4
122.5°	249.9	251.8	254.7	263.2	281.3	305.0	338.3	381.1	443.8	534.0	644.3
125°	266.1	268.0	272.7	281.3	299.3	324.0	355.4	396.3	451.4	530.2	629.1
127.5°	279.4	282.2	287.9	298.4	317.4	342.1	372.5	410.5	459.9	528.3	614.8
130°	291.7	294.6	302.2	314.5	334.5	359.2	388.7	424.8	467.5	526.4	600.6
132.5°	301.2	305.0	314.5	328.8	349.7	374.4	403.9	437.1	476.1	526.4	589.2
135°	311.7	315.5	326.9	342.1	362.0	387.7	417.2	448.5	483.7	526.4	580.6
137.5°	325.0	327.8	338.3	353.5	373.5	400.1	426.7	457.1	491.3	527.4	572.1
140°	336.4	339.2	350.6	365.8	383.9	409.6	437.1	465.6	496.0	528.3	566.4
142.5°	349.7	351.6	362.0	377.3	394.4	418.1	443.8	470.4	498.9	529.3	561.6
145°	363.0	364.9	374.4	387.7	404.8	426.7	451.4	475.1	500.8	528.3	556.8
147.5°	377.3	378.2	386.8	399.1	414.3	434.3	456.1	478.0	501.7	526.4	552.1
150°	389.6	391.5	398.2	410.5	423.8	440.0	460.9	480.8	501.7	523.6	546.4
152.5°	402.9	403.9	409.6	420.0	432.4	446.6	465.6	482.7	500.8	519.8	539.7
155°	414.3	414.3	420.0	429.5	439.0	452.3	468.5	483.7	498.9	515.0	532.1
157.5°	424.8	424.8	429.5	438.1	446.6	457.1	471.3	484.6	497.0	510.3	525.5
160°	435.2	434.3	438.1	444.7	452.3	460.9	473.2	484.6	494.1	505.5	516.9
162.5°	443.8	442.8	446.6	452.3	458.0	464.7	475.1	483.7	491.3	499.8	509.3
165°	452.3	450.4	453.3	458.0	461.8	467.5	475.1	482.7	488.4	494.1	501.7
167.5°	458.0	457.1	459.0	461.8	464.7	468.5	475.1	480.8	483.7	488.4	494.1
170°	463.7	462.8	463.7	465.6	467.5	470.4	475.1	478.9	480.8	483.7	487.5
172.5°	467.5	465.6	466.6	468.5	469.4	470.4	474.2	477.0	477.0	478.0	480.8
175°	470.4	468.5	469.4	470.4	470.4	470.4	473.2	475.1	474.2	474.2	475.1
177.5°	472.3	470.4	470.4	471.3	470.4	470.4	472.3	473.2	471.3	471.3	472.3
180°	471.3	471.3	471.3	471.3	471.3	471.3	471.3	471.3	471.3	471.3	471.3

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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°	17.1	18.1	19.0	20.9	20.9	20.9	21.9	21.9
92.5°	206.2	148.2	110.2	92.2	77.0	74.1	72.2	70.3
95°	683.2	538.8	421.9	342.1	274.6	246.1	238.5	223.3
97.5°	979.7	864.7	746.9	632.9	575.9	526.4	500.8	489.4
100°	1168.8	1122.3	1024.4	925.5	860.0	791.6	756.4	741.2
102.5°	1232.5	1280.0	1245.8	1186.9	1115.6	1071.9	1032.9	1022.5
105°	1189.7	1319.9	1361.7	1351.3	1320.9	1289.5	1270.5	1259.1
107.5°	1102.3	1274.3	1375.0	1416.8	1425.4	1420.6	1411.1	1401.6
110°	1003.5	1184.0	1318.0	1398.8	1441.5	1459.6	1466.2	1466.2

TEST NUMBER: P1007781

CATALOG NUMBER: S125IP-B1090UB2750-4F0-XX-W2A-4_5000K

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	925.5	1094.7	1230.6	1329.4	1396.9	1431.1	1450.1	1458.6
115°	862.8	1010.1	1140.3	1243.9	1318.0	1363.6	1390.2	1402.6
117.5°	819.1	949.3	1063.3	1161.2	1236.3	1283.8	1310.4	1318.0
120°	784.9	898.9	1003.5	1087.1	1157.4	1203.0	1228.7	1236.3
122.5°	759.3	862.8	953.1	1030.1	1090.9	1131.8	1157.4	1164.1
125°	734.5	831.5	914.1	982.6	1035.8	1074.7	1095.6	1105.1
127.5°	708.9	801.1	879.0	943.6	992.1	1027.2	1047.2	1051.0
130°	685.1	768.8	842.9	904.6	952.2	983.5	1002.5	1008.2
132.5°	661.4	738.3	803.9	862.8	910.3	941.7	958.8	965.5
135°	641.4	707.0	767.8	822.0	863.8	895.1	912.2	917.9
137.5°	623.4	678.5	730.7	778.3	816.3	845.7	861.9	868.5
140°	609.1	653.8	697.5	737.4	772.6	797.3	811.5	816.3
142.5°	596.8	632.9	669.0	702.2	730.7	750.7	764.0	767.8
145°	586.3	615.8	645.2	670.9	693.7	709.8	720.3	724.1
147.5°	575.9	600.6	624.3	644.3	663.3	676.6	683.2	685.1
150°	567.3	588.2	606.3	623.4	637.6	649.0	652.8	653.8
152.5°	557.8	575.9	592.0	604.4	615.8	624.3	628.1	629.1
155°	548.3	563.5	576.8	587.3	596.8	603.4	606.3	607.2
157.5°	538.8	552.1	562.6	571.1	578.7	584.4	587.3	587.3
160°	529.3	538.8	548.3	554.9	561.6	566.4	568.3	567.3
162.5°	518.8	527.4	535.0	540.7	545.4	549.2	549.2	549.2
165°	509.3	516.0	521.7	526.4	530.2	532.1	532.1	532.1
167.5°	499.8	504.6	509.3	513.1	515.0	516.9	516.0	516.0
170°	492.2	495.1	497.9	499.8	501.7	502.7	502.7	501.7
172.5°	483.7	486.5	488.4	489.4	489.4	491.3	489.4	488.4
175°	478.0	478.0	479.9	479.9	479.9	480.8	478.9	478.0
177.5°	473.2	474.2	474.2	474.2	473.2	474.2	471.3	471.3
180°	471.3	471.3	471.3	471.3	471.3	471.3	471.3	471.3

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