

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: P1007780

Luminaire Tested: S125IP-B1090UB2750-4F0-XX-W2A-4_4000K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007780
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_4000K
Description: Define 5 Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

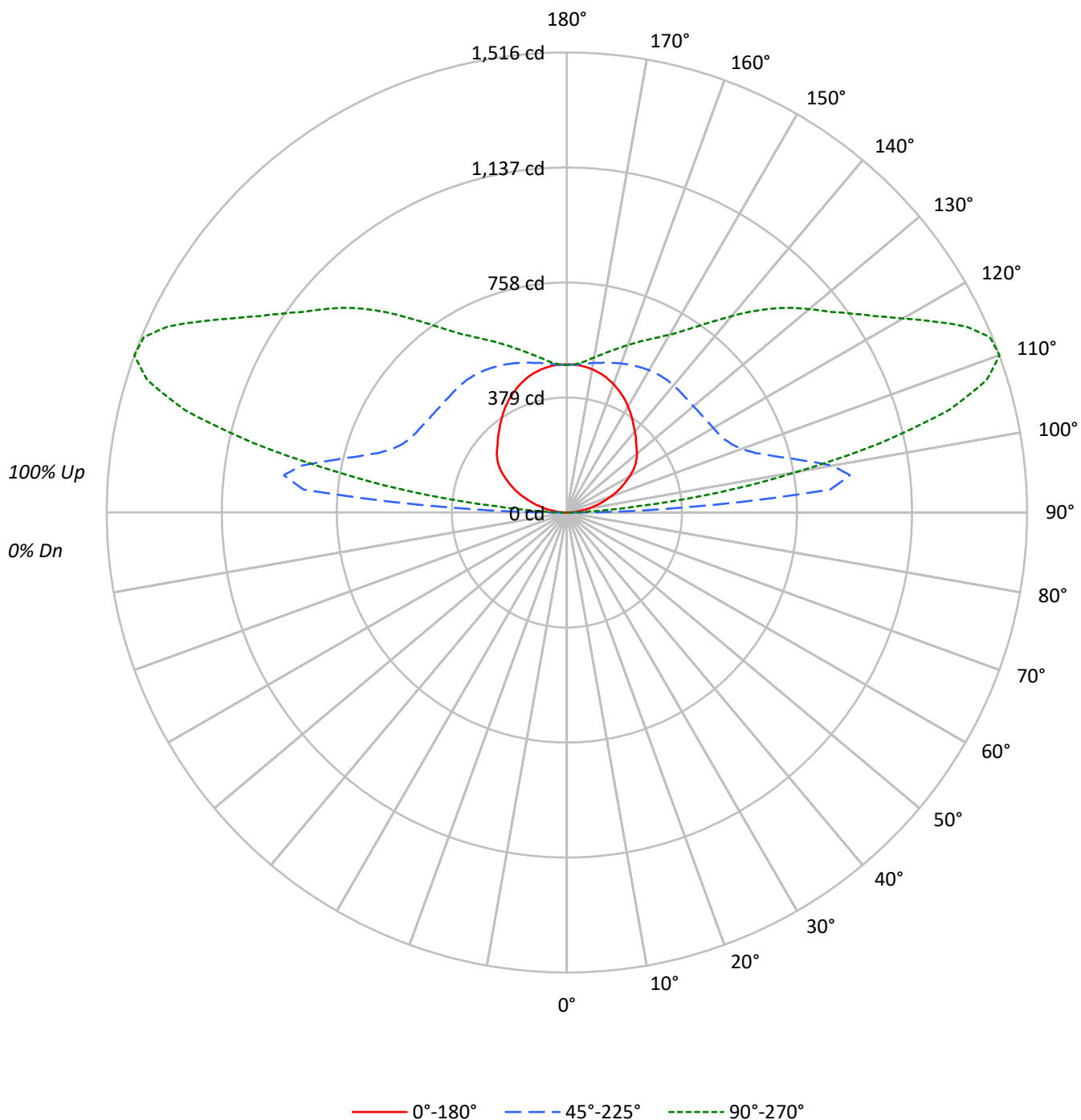
Lumens per Lamp: N/A
Luminaire Lumens: 3663.0 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

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_4000K

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°	354.6	9.7
100°-110°	764.6	20.9
110°-120°	712.8	19.5
120°-130°	577.3	15.8
130°-140°	463.6	12.7
140°-150°	349.6	9.5
150°-160°	246.2	6.7
160°-170°	145.1	4.0
170°-180°	47.2	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°	1832.0	50.0
90°-150°	3222.5	88.0
90°-180°	3661.0	99.9
0°-180°	3663.0	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	16	21	23	2
95°	32	96	871	395	231	34
105°	111	155	712	1403	1302	117
115°	198	239	572	1233	1450	195
125°	275	322	548	981	1143	244
135°	322	388	544	822	949	250
145°	375	430	546	681	749	235
155°	428	461	533	602	628	197
165°	468	481	511	542	550	132
175°	486	486	490	496	494	46
180°	487	487	487	487	487	

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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	2.0	3.9	5.9	7.9	9.8	10.8	12.8	13.8	15.7	16.7
92.5°	14.7	17.7	27.5	42.3	62.9	98.3	165.1	277.1	399.0	392.1	316.4
95°	32.4	33.4	41.3	52.1	73.7	117.9	223.1	439.3	710.5	870.7	852.0
97.5°	50.1	51.1	57.0	67.8	87.5	119.9	192.6	358.7	651.5	940.5	1064.3
100°	68.8	70.8	74.7	85.5	104.2	133.6	190.6	318.4	566.0	887.4	1133.1
102.5°	89.4	90.4	93.4	105.2	121.9	150.4	199.5	301.7	501.2	794.0	1091.8
105°	111.0	111.0	116.0	125.8	141.5	169.0	212.3	299.7	463.8	712.5	994.5
107.5°	131.7	133.6	138.6	146.4	163.1	187.7	230.0	306.6	444.2	651.5	902.1
110°	154.3	156.3	160.2	169.0	183.8	209.3	249.6	317.4	436.3	611.3	825.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	176.9	178.9	181.8	190.6	205.4	230.0	268.3	331.2	436.3	587.7	768.5
115°	198.5	200.5	203.4	212.3	227.0	251.6	287.9	344.9	439.3	571.9	730.2
117.5°	218.2	221.1	224.1	232.9	249.6	273.2	307.6	360.7	444.2	563.1	704.6
120°	237.8	240.8	244.7	253.5	270.2	294.8	329.2	376.4	452.1	557.2	684.0
122.5°	258.5	260.4	263.4	272.2	290.9	315.5	349.8	394.1	458.9	552.3	666.3
125°	275.2	277.1	282.0	290.9	309.6	335.1	367.5	409.8	466.8	548.4	650.6
127.5°	288.9	291.9	297.8	308.6	328.2	353.8	385.2	424.5	475.6	546.4	635.8
130°	301.7	304.6	312.5	325.3	345.9	371.5	401.9	439.3	483.5	544.4	621.1
132.5°	311.5	315.5	325.3	340.0	361.6	387.2	417.7	452.1	492.3	544.4	609.3
135°	322.3	326.3	338.1	353.8	374.4	400.9	431.4	463.8	500.2	544.4	600.4
137.5°	336.1	339.0	349.8	365.6	386.2	413.7	441.2	472.7	508.1	545.4	591.6
140°	347.9	350.8	362.6	378.3	397.0	423.6	452.1	481.5	513.0	546.4	585.7
142.5°	361.6	363.6	374.4	390.1	407.8	432.4	458.9	486.4	515.9	547.4	580.8
145°	375.4	377.4	387.2	400.9	418.6	441.2	466.8	491.4	517.9	546.4	575.9
147.5°	390.1	391.1	400.0	412.7	428.5	449.1	471.7	494.3	518.9	544.4	571.0
150°	402.9	404.9	411.8	424.5	438.3	455.0	476.6	497.3	518.9	541.5	565.1
152.5°	416.7	417.7	423.6	434.4	447.1	461.9	481.5	499.2	517.9	537.5	558.2
155°	428.5	428.5	434.4	444.2	454.0	467.8	484.5	500.2	515.9	532.6	550.3
157.5°	439.3	439.3	444.2	453.0	461.9	472.7	487.4	501.2	514.0	527.7	543.4
160°	450.1	449.1	453.0	459.9	467.8	476.6	489.4	501.2	511.0	522.8	534.6
162.5°	458.9	457.9	461.9	467.8	473.7	480.5	491.4	500.2	508.1	516.9	526.7
165°	467.8	465.8	468.8	473.7	477.6	483.5	491.4	499.2	505.1	511.0	518.9
167.5°	473.7	472.7	474.7	477.6	480.5	484.5	491.4	497.3	500.2	505.1	511.0
170°	479.6	478.6	479.6	481.5	483.5	486.4	491.4	495.3	497.3	500.2	504.1
172.5°	483.5	481.5	482.5	484.5	485.5	486.4	490.4	493.3	493.3	494.3	497.3
175°	486.4	484.5	485.5	486.4	486.4	486.4	489.4	491.4	490.4	490.4	491.4
177.5°	488.4	486.4	486.4	487.4	486.4	486.4	488.4	489.4	487.4	487.4	488.4
180°	487.4	487.4	487.4	487.4	487.4	487.4	487.4	487.4	487.4	487.4	487.4

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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°	17.7	18.7	19.7	21.6	21.6	21.6	22.6	22.6
92.5°	213.2	153.3	114.0	95.3	79.6	76.7	74.7	72.7
95°	706.6	557.2	436.3	353.8	284.0	254.5	246.7	230.9
97.5°	1013.2	894.3	772.4	654.5	595.5	544.4	517.9	506.1
100°	1208.7	1160.6	1059.4	957.2	889.4	818.6	782.2	766.5
102.5°	1274.6	1323.7	1288.3	1227.4	1153.7	1108.5	1068.2	1057.4
105°	1230.4	1365.0	1408.2	1397.4	1366.0	1333.5	1313.9	1302.1
107.5°	1140.0	1317.8	1422.0	1465.2	1474.1	1469.2	1459.3	1449.5
110°	1037.7	1224.5	1363.0	1446.6	1490.8	1509.5	1516.3	1516.3

TEST NUMBER: P1007780

CATALOG NUMBER: S125IP-B1090UB2750-4F0-XX-W2A-4_4000K

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	957.2	1132.1	1272.6	1374.8	1444.6	1480.0	1499.6	1508.5
115°	892.3	1044.6	1179.3	1286.4	1363.0	1410.2	1437.7	1450.5
117.5°	847.1	981.7	1099.7	1200.9	1278.5	1327.7	1355.2	1363.0
120°	811.7	929.7	1037.7	1124.2	1197.0	1244.1	1270.7	1278.5
122.5°	785.2	892.3	985.7	1065.3	1128.2	1170.4	1197.0	1203.8
125°	759.6	859.9	945.4	1016.1	1071.2	1111.5	1133.1	1142.9
127.5°	733.1	828.4	909.0	975.8	1026.0	1062.3	1083.0	1086.9
130°	708.5	795.0	871.7	935.5	984.7	1017.1	1036.8	1042.7
132.5°	684.0	763.6	831.4	892.3	941.4	973.9	991.6	998.4
135°	663.3	731.1	794.0	850.1	893.3	925.7	943.4	949.3
137.5°	644.7	701.7	755.7	804.8	844.2	874.6	891.3	898.2
140°	629.9	676.1	721.3	762.6	798.9	824.5	839.2	844.2
142.5°	617.1	654.5	691.8	726.2	755.7	776.3	790.1	794.0
145°	606.3	636.8	667.3	693.8	717.4	734.1	744.9	748.8
147.5°	595.5	621.1	645.6	666.3	685.9	699.7	706.6	708.5
150°	586.7	608.3	627.0	644.7	659.4	671.2	675.1	676.1
152.5°	576.9	595.5	612.2	625.0	636.8	645.6	649.6	650.6
155°	567.0	582.8	596.5	607.3	617.1	624.0	627.0	628.0
157.5°	557.2	571.0	581.8	590.6	598.5	604.4	607.3	607.3
160°	547.4	557.2	567.0	573.9	580.8	585.7	587.7	586.7
162.5°	536.6	545.4	553.3	559.2	564.1	568.0	568.0	568.0
165°	526.7	533.6	539.5	544.4	548.4	550.3	550.3	550.3
167.5°	516.9	521.8	526.7	530.7	532.6	534.6	533.6	533.6
170°	509.0	512.0	514.9	516.9	518.9	519.9	519.9	518.9
172.5°	500.2	503.2	505.1	506.1	506.1	508.1	506.1	505.1
175°	494.3	494.3	496.3	496.3	496.3	497.3	495.3	494.3
177.5°	489.4	490.4	490.4	490.4	489.4	490.4	487.4	487.4
180°	487.4	487.4	487.4	487.4	487.4	487.4	487.4	487.4

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