

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: P1007779

Luminaire Tested: S125IP-B1090UB2750-4F0-XX-W2A-4_3500K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007779
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_3500K
Description: Define 5 Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

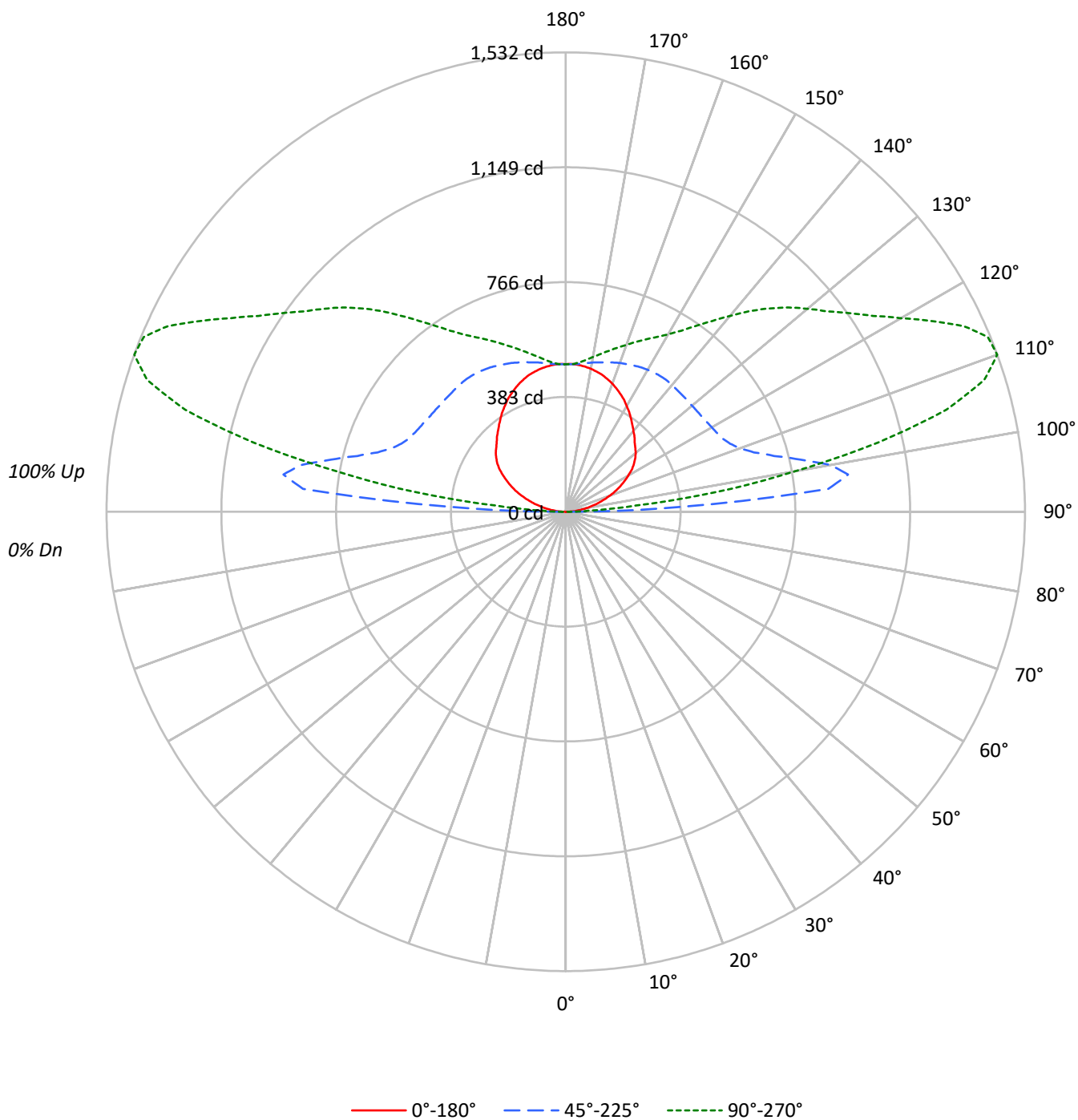
Lumens per Lamp: N/A
Luminaire Lumens: 3700.0 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

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

TEST NUMBER: P1007779

CATALOG NUMBER: S125IP-B1090UB2750-4F0-XX-W2A-4_3500K

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2

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°	2.0	0.1
90°-100°	358.1	9.7
100°-110°	772.3	20.9
110°-120°	720.0	19.5
120°-130°	583.2	15.8
130°-140°	468.3	12.7
140°-150°	353.2	9.5
150°-160°	248.7	6.7
160°-170°	146.6	4.0
170°-180°	47.7	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.0	0.1
90°-120°	1850.5	50.0
90°-150°	3255.1	88.0
90°-180°	3698.0	99.9
0°-180°	3700.0	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°	33	97	880	399	233	34
105°	112	157	720	1417	1315	118
115°	200	242	578	1245	1465	197
125°	278	326	554	991	1154	247
135°	326	392	550	830	959	253
145°	379	434	552	687	756	238
155°	433	466	538	608	634	199
165°	472	485	516	547	556	133
175°	491	491	495	501	499	47
180°	492	492	492	492	492	

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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	4.0	6.0	7.9	9.9	10.9	12.9	13.9	15.9	16.9
92.5°	14.9	17.9	27.8	42.7	63.5	99.3	166.8	279.9	403.0	396.1	319.6
95°	32.8	33.7	41.7	52.6	74.4	119.1	225.3	443.7	717.7	879.5	860.6
97.5°	50.6	51.6	57.6	68.5	88.3	121.1	194.6	362.3	658.1	950.0	1075.0
100°	69.5	71.5	75.4	86.4	105.2	135.0	192.6	321.6	571.8	896.4	1144.5
102.5°	90.3	91.3	94.3	106.2	123.1	151.9	201.5	304.7	506.2	802.1	1102.8
105°	112.2	112.2	117.1	127.1	142.9	170.7	214.4	302.8	468.5	719.7	1004.6
107.5°	133.0	135.0	140.0	147.9	164.8	189.6	232.3	309.7	448.7	658.1	911.2
110°	155.8	157.8	161.8	170.7	185.6	211.4	252.1	320.6	440.7	617.4	833.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	178.7	180.7	183.6	192.6	207.5	232.3	271.0	334.5	440.7	593.6	776.2
115°	200.5	202.5	205.5	214.4	229.3	254.1	290.8	348.4	443.7	577.7	737.5
117.5°	220.4	223.3	226.3	235.3	252.1	276.0	310.7	364.3	448.7	568.8	711.7
120°	240.2	243.2	247.2	256.1	273.0	297.8	332.5	380.2	456.6	562.8	690.9
122.5°	261.1	263.1	266.0	275.0	293.8	318.6	353.4	398.1	463.6	557.9	673.0
125°	277.9	279.9	284.9	293.8	312.7	338.5	371.2	413.9	471.5	553.9	657.1
127.5°	291.8	294.8	300.8	311.7	331.5	357.4	389.1	428.8	480.4	551.9	642.2
130°	304.7	307.7	315.7	328.6	349.4	375.2	406.0	443.7	488.4	549.9	627.4
132.5°	314.7	318.6	328.6	343.5	365.3	391.1	421.9	456.6	497.3	549.9	615.4
135°	325.6	329.6	341.5	357.4	378.2	405.0	435.8	468.5	505.3	549.9	606.5
137.5°	339.5	342.5	353.4	369.3	390.1	417.9	445.7	477.5	513.2	550.9	597.6
140°	351.4	354.4	366.3	382.2	401.0	427.8	456.6	486.4	518.2	551.9	591.6
142.5°	365.3	367.3	378.2	394.1	411.9	436.8	463.6	491.4	521.1	552.9	586.7
145°	379.2	381.2	391.1	405.0	422.9	445.7	471.5	496.3	523.1	551.9	581.7
147.5°	394.1	395.1	404.0	416.9	432.8	453.6	476.5	499.3	524.1	549.9	576.7
150°	407.0	409.0	415.9	428.8	442.7	459.6	481.4	502.3	524.1	546.9	570.8
152.5°	420.9	421.9	427.8	438.7	451.7	466.5	486.4	504.3	523.1	543.0	563.8
155°	432.8	432.8	438.7	448.7	458.6	472.5	489.4	505.3	521.1	538.0	555.9
157.5°	443.7	443.7	448.7	457.6	466.5	477.5	492.4	506.2	519.2	533.0	548.9
160°	454.6	453.6	457.6	464.6	472.5	481.4	494.3	506.2	516.2	528.1	540.0
162.5°	463.6	462.6	466.5	472.5	478.5	485.4	496.3	505.3	513.2	522.1	532.1
165°	472.5	470.5	473.5	478.5	482.4	488.4	496.3	504.3	510.2	516.2	524.1
167.5°	478.5	477.5	479.4	482.4	485.4	489.4	496.3	502.3	505.3	510.2	516.2
170°	484.4	483.4	484.4	486.4	488.4	491.4	496.3	500.3	502.3	505.3	509.2
172.5°	488.4	486.4	487.4	489.4	490.4	491.4	495.3	498.3	498.3	499.3	502.3
175°	491.4	489.4	490.4	491.4	491.4	491.4	494.3	496.3	495.3	495.3	496.3
177.5°	493.3	491.4	491.4	492.4	491.4	491.4	493.3	494.3	492.4	492.4	493.3
180°	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4

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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°	17.9	18.9	19.9	21.8	21.8	21.8	22.8	22.8
92.5°	215.4	154.9	115.1	96.3	80.4	77.4	75.4	73.5
95°	713.7	562.8	440.7	357.4	286.9	257.1	249.2	233.3
97.5°	1023.4	903.3	780.2	661.1	601.5	549.9	523.1	511.2
100°	1221.0	1172.3	1070.1	966.8	898.3	826.9	790.1	774.3
102.5°	1287.5	1337.1	1301.4	1239.8	1165.4	1119.7	1079.0	1068.1
105°	1242.8	1378.8	1422.5	1411.5	1379.8	1347.0	1327.2	1315.3
107.5°	1151.5	1331.1	1436.4	1480.0	1489.0	1484.0	1474.1	1464.2
110°	1048.2	1236.8	1376.8	1461.2	1505.8	1524.7	1531.6	1531.6

TEST NUMBER: P1007779

CATALOG NUMBER: S125IP-B1090UB2750-4F0-XX-W2A-4_3500K

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	966.8	1143.5	1285.5	1388.7	1459.2	1494.9	1514.8	1523.7
115°	901.3	1055.2	1191.2	1299.4	1376.8	1424.4	1452.2	1465.1
117.5°	855.7	991.7	1110.8	1213.0	1291.4	1341.1	1368.9	1376.8
120°	819.9	939.0	1048.2	1135.6	1209.0	1256.7	1283.5	1291.4
122.5°	793.1	901.3	995.6	1076.0	1139.6	1182.2	1209.0	1216.0
125°	767.3	868.6	954.9	1026.4	1082.0	1122.7	1144.5	1154.4
127.5°	740.5	836.8	918.2	985.7	1036.3	1073.0	1093.9	1097.9
130°	715.7	803.0	880.5	945.0	994.6	1027.4	1047.2	1053.2
132.5°	690.9	771.3	839.8	901.3	951.0	983.7	1001.6	1008.5
135°	670.0	738.5	802.1	858.6	902.3	935.1	952.9	958.9
137.5°	651.2	708.7	763.3	813.0	852.7	883.5	900.3	907.3
140°	636.3	682.9	728.6	770.3	807.0	832.8	847.7	852.7
142.5°	623.4	661.1	698.8	733.6	763.3	784.2	798.1	802.1
145°	612.5	643.2	674.0	700.8	724.6	741.5	752.4	756.4
147.5°	601.5	627.4	652.2	673.0	692.9	706.8	713.7	715.7
150°	592.6	614.4	633.3	651.2	666.1	678.0	681.9	682.9
152.5°	582.7	601.5	618.4	631.3	643.2	652.2	656.1	657.1
155°	572.8	588.6	602.5	613.5	623.4	630.3	633.3	634.3
157.5°	562.8	576.7	587.6	596.6	604.5	610.5	613.5	613.5
160°	552.9	562.8	572.8	579.7	586.7	591.6	593.6	592.6
162.5°	542.0	550.9	558.9	564.8	569.8	573.7	573.7	573.7
165°	532.1	539.0	545.0	549.9	553.9	555.9	555.9	555.9
167.5°	522.1	527.1	532.1	536.0	538.0	540.0	539.0	539.0
170°	514.2	517.2	520.1	522.1	524.1	525.1	525.1	524.1
172.5°	505.3	508.2	510.2	511.2	511.2	513.2	511.2	510.2
175°	499.3	499.3	501.3	501.3	501.3	502.3	500.3	499.3
177.5°	494.3	495.3	495.3	495.3	494.3	495.3	492.4	492.4
180°	492.4	492.4	492.4	492.4	492.4	492.4	492.4	492.4

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