

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: P1007900

Luminaire Tested: S125IP-B850UB2750-4F0-XX-W2A-4_4000K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007900
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-B850UB2750-4F0-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

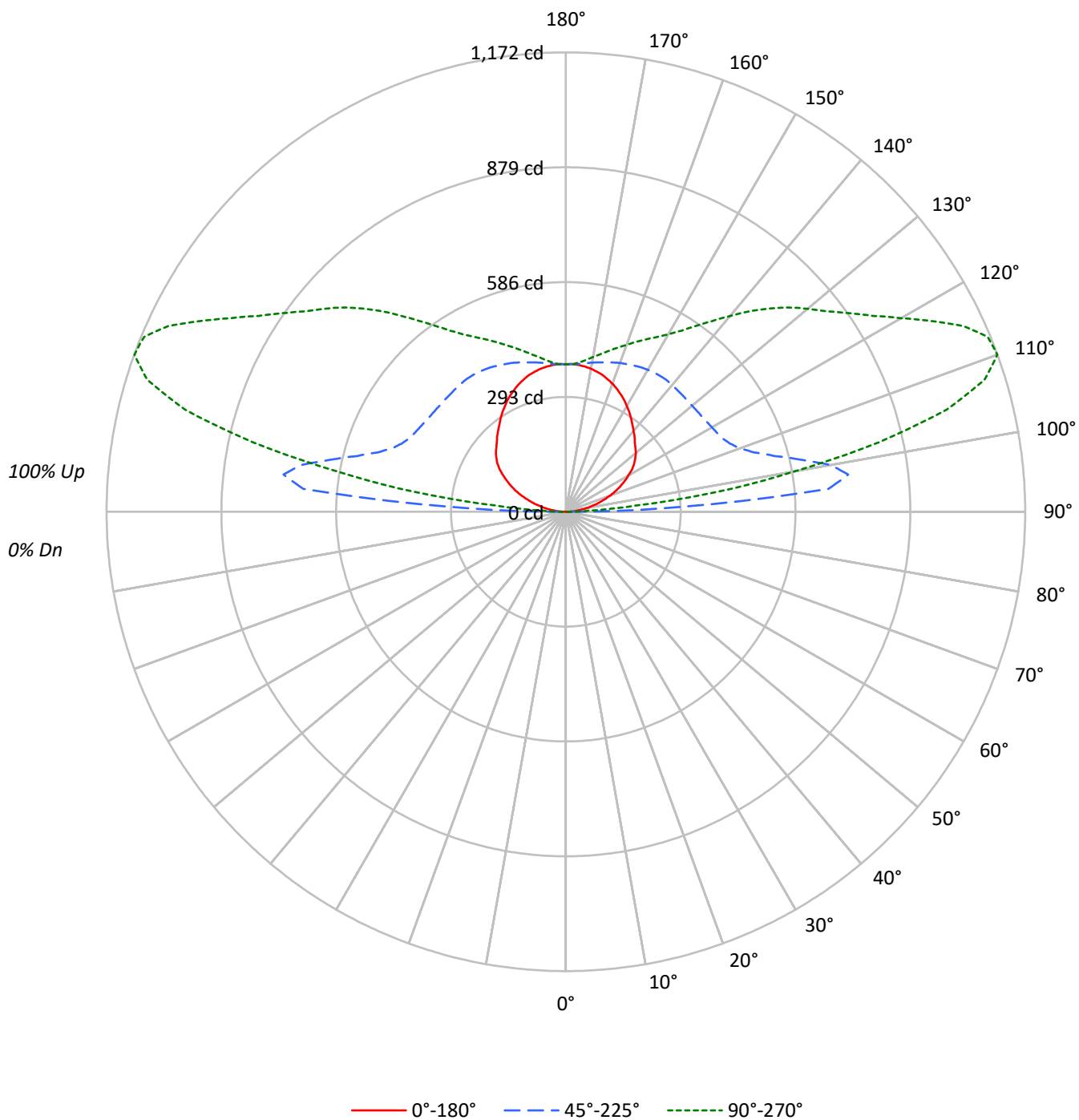
Lumens per Lamp: N/A
Luminaire Lumens: 2830.0 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 21.1
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-B850UB2750-4F0-XX-W2A-4_4000K

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
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°	1.5	0.1
90°-100°	273.9	9.7
100°-110°	590.7	20.9
110°-120°	550.7	19.5
120°-130°	446.0	15.8
130°-140°	358.2	12.7
140°-150°	270.1	9.5
150°-160°	190.2	6.7
160°-170°	112.1	4.0
170°-180°	36.5	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.5	0.1
90°-120°	1415.4	50.0
90°-150°	2489.7	88.0
90°-180°	2829.0	100.0
0°-180°	2830.0	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	7	12	16	18	2
95°	25	74	673	305	178	26
105°	86	120	550	1084	1006	90
115°	153	185	442	952	1121	151
125°	213	249	424	758	883	189
135°	249	300	421	635	733	193
145°	290	332	422	526	578	182
155°	331	356	412	465	485	152
165°	361	371	395	419	425	102
175°	376	376	379	383	382	36
180°	377	377	377	377	377	

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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°	0.8	1.5	3.0	4.6	6.1	7.6	8.4	9.9	10.6	12.1	12.9
92.5°	11.4	13.7	21.3	32.6	48.6	75.9	127.6	214.1	308.3	302.9	244.5
95°	25.1	25.8	31.9	40.2	56.9	91.1	172.3	339.4	548.9	672.7	658.3
97.5°	38.7	39.5	44.0	52.4	67.6	92.6	148.8	277.1	503.4	726.6	822.3
100°	53.1	54.7	57.7	66.1	80.5	103.3	147.3	246.0	437.3	685.6	875.4
102.5°	69.1	69.8	72.1	81.2	94.1	116.2	154.1	233.1	387.2	613.5	843.5
105°	85.8	85.8	89.6	97.2	109.3	130.6	164.0	231.6	358.4	550.4	768.3
107.5°	101.7	103.3	107.1	113.1	126.0	145.0	177.7	236.9	343.2	503.4	697.0
110°	119.2	120.7	123.8	130.6	142.0	161.7	192.8	245.2	337.1	472.2	637.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	136.7	138.2	140.5	147.3	158.7	177.7	207.3	255.9	337.1	454.0	593.7
115°	153.4	154.9	157.2	164.0	175.4	194.4	222.5	266.5	339.4	441.9	564.1
117.5°	168.6	170.8	173.1	179.9	192.8	211.1	237.6	278.6	343.2	435.0	544.4
120°	183.7	186.0	189.1	195.9	208.8	227.8	254.3	290.8	349.2	430.5	528.4
122.5°	199.7	201.2	203.5	210.3	224.7	243.7	270.3	304.5	354.6	426.7	514.8
125°	212.6	214.1	217.9	224.7	239.2	258.9	284.0	316.6	360.6	423.7	502.6
127.5°	223.2	225.5	230.0	238.4	253.6	273.3	297.6	328.0	367.5	422.1	491.2
130°	233.1	235.4	241.4	251.3	267.3	287.0	310.5	339.4	373.5	420.6	479.8
132.5°	240.7	243.7	251.3	262.7	279.4	299.1	322.7	349.2	380.4	420.6	470.7
135°	249.0	252.1	261.2	273.3	289.3	309.8	333.3	358.4	386.5	420.6	463.9
137.5°	259.7	261.9	270.3	282.4	298.4	319.6	340.9	365.2	392.5	421.4	457.1
140°	268.8	271.0	280.2	292.3	306.7	327.2	349.2	372.0	396.3	422.1	452.5
142.5°	279.4	280.9	289.3	301.4	315.1	334.1	354.6	375.8	398.6	422.9	448.7
145°	290.0	291.5	299.1	309.8	323.4	340.9	360.6	379.6	400.1	422.1	444.9
147.5°	301.4	302.2	309.0	318.9	331.0	347.0	364.4	381.9	400.9	420.6	441.1
150°	311.3	312.8	318.1	328.0	338.6	351.5	368.2	384.2	400.9	418.3	436.6
152.5°	321.9	322.7	327.2	335.6	345.5	356.8	372.0	385.7	400.1	415.3	431.2
155°	331.0	331.0	335.6	343.2	350.8	361.4	374.3	386.5	398.6	411.5	425.2
157.5°	339.4	339.4	343.2	350.0	356.8	365.2	376.6	387.2	397.1	407.7	419.9
160°	347.7	347.0	350.0	355.3	361.4	368.2	378.1	387.2	394.8	403.9	413.0
162.5°	354.6	353.8	356.8	361.4	366.0	371.3	379.6	386.5	392.5	399.4	407.0
165°	361.4	359.9	362.2	366.0	369.0	373.5	379.6	385.7	390.2	394.8	400.9
167.5°	366.0	365.2	366.7	369.0	371.3	374.3	379.6	384.2	386.5	390.2	394.8
170°	370.5	369.7	370.5	372.0	373.5	375.8	379.6	382.7	384.2	386.5	389.5
172.5°	373.5	372.0	372.8	374.3	375.1	375.8	378.9	381.1	381.1	381.9	384.2
175°	375.8	374.3	375.1	375.8	375.8	375.8	378.1	379.6	378.9	378.9	379.6
177.5°	377.3	375.8	375.8	376.6	375.8	375.8	377.3	378.1	376.6	376.6	377.3
180°	376.6	376.6	376.6	376.6	376.6	376.6	376.6	376.6	376.6	376.6	376.6

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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°	13.7	14.4	15.2	16.7	16.7	16.7	17.5	17.5
92.5°	164.8	118.4	88.1	73.6	61.5	59.2	57.7	56.2
95°	545.9	430.5	337.1	273.3	219.4	196.6	190.6	178.4
97.5°	782.8	690.9	596.8	505.7	460.1	420.6	400.1	391.0
100°	933.9	896.7	818.5	739.5	687.1	632.4	604.4	592.2
102.5°	984.7	1022.7	995.4	948.3	891.3	856.4	825.3	816.9
105°	950.6	1054.6	1088.0	1079.6	1055.3	1030.3	1015.1	1006.0
107.5°	880.7	1018.1	1098.6	1132.0	1138.9	1135.1	1127.5	1119.9
110°	801.8	946.0	1053.1	1117.6	1151.8	1166.2	1171.5	1171.5

TEST NUMBER: P1007900

CATALOG NUMBER: S125IP-B850UB2750-4F0-XX-W2A-4_4000K

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	739.5	874.6	983.2	1062.2	1116.1	1143.4	1158.6	1165.4
115°	689.4	807.1	911.1	993.8	1053.1	1089.5	1110.8	1120.6
117.5°	654.5	758.5	849.6	927.8	987.8	1025.7	1047.0	1053.1
120°	627.1	718.2	801.8	868.6	924.8	961.2	981.7	987.8
122.5°	606.6	689.4	761.5	823.0	871.6	904.3	924.8	930.1
125°	586.9	664.3	730.4	785.1	827.6	858.7	875.4	883.0
127.5°	566.4	640.0	702.3	753.9	792.6	820.7	836.7	839.7
130°	547.4	614.2	673.4	722.8	760.8	785.8	801.0	805.6
132.5°	528.4	589.9	642.3	689.4	727.4	752.4	766.1	771.4
135°	512.5	564.9	613.5	656.7	690.1	715.2	728.9	733.4
137.5°	498.1	542.1	583.9	621.8	652.2	675.7	688.6	693.9
140°	486.7	522.4	557.3	589.2	617.3	637.0	648.4	652.2
142.5°	476.8	505.7	534.5	561.1	583.9	599.8	610.4	613.5
145°	468.5	492.0	515.5	536.0	554.2	567.2	575.5	578.5
147.5°	460.1	479.8	498.8	514.8	529.9	540.6	545.9	547.4
150°	453.3	470.0	484.4	498.1	509.4	518.6	521.6	522.4
152.5°	445.7	460.1	473.0	482.9	492.0	498.8	501.9	502.6
155°	438.1	450.2	460.9	469.2	476.8	482.1	484.4	485.2
157.5°	430.5	441.1	449.5	456.3	462.4	466.9	469.2	469.2
160°	422.9	430.5	438.1	443.4	448.7	452.5	454.0	453.3
162.5°	414.5	421.4	427.5	432.0	435.8	438.8	438.8	438.8
165°	407.0	412.3	416.8	420.6	423.7	425.2	425.2	425.2
167.5°	399.4	403.2	407.0	410.0	411.5	413.0	412.3	412.3
170°	393.3	395.6	397.8	399.4	400.9	401.6	401.6	400.9
172.5°	386.5	388.7	390.2	391.0	391.0	392.5	391.0	390.2
175°	381.9	381.9	383.4	383.4	383.4	384.2	382.7	381.9
177.5°	378.1	378.9	378.9	378.9	378.1	378.9	376.6	376.6
180°	376.6	376.6	376.6	376.6	376.6	376.6	376.6	376.6

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