

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: P1007419

Luminaire Tested: S122IP-B725UB2750-4F0-XX-W2A-4_3500K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122IP-B725UB2750-4F0-XX-W2A-4_3500K
Description: Define 2 Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

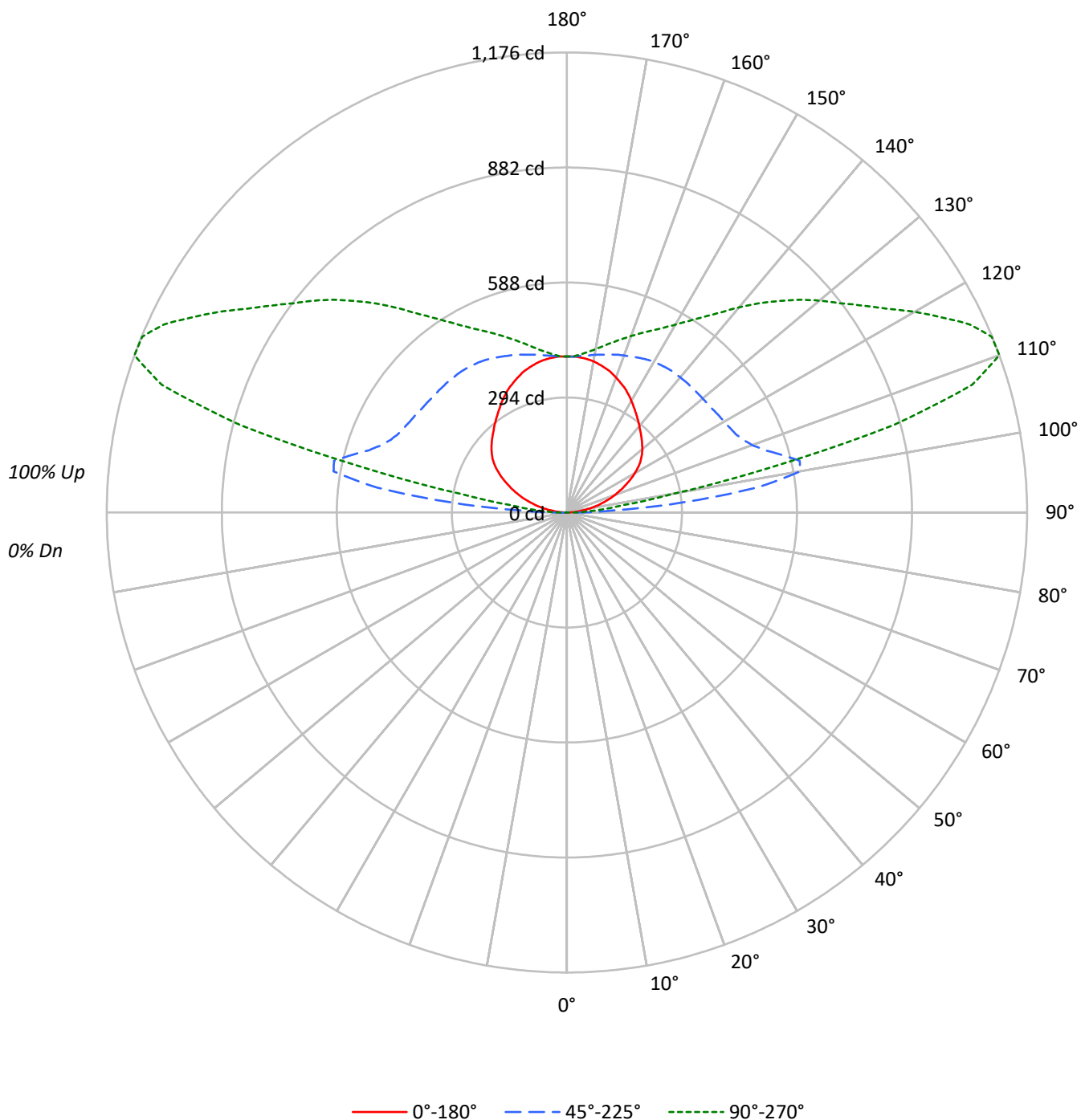
Lumens per Lamp: N/A
Luminaire Lumens: 2779.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

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

TEST NUMBER: P1007419

CATALOG NUMBER: S122IP-B725UB2750-4F0-XX-W2A-4_3500K

Luminous Intensity Polar Plot



TEST NUMBER: P1007419

CATALOG NUMBER: S122IP-B725UB2750-4F0-XX-W2A-4_3500K

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

TEST NUMBER: P1007419

CATALOG NUMBER: S122IP-B725UB2750-4F0-XX-W2A-4_3500K

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°	2.6	0.1
90°-100°	155.4	5.6
100°-110°	547.3	19.7
110°-120°	574.8	20.7
120°-130°	472.9	17.0
130°-140°	379.9	13.7
140°-150°	287.0	10.3
150°-160°	201.7	7.3
160°-170°	118.8	4.3
170°-180°	38.6	1.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.6	0.1
90°-120°	1277.5	46.0
90°-150°	2417.3	87.0
90°-180°	2776.0	99.9
0°-180°	2779.0	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	10	26	25	25	2
95°	27	66	300	113	87	28
105°	94	141	568	1015	864	99
115°	165	208	475	981	1137	163
125°	230	272	457	795	922	204
135°	270	322	452	668	764	208
145°	308	354	449	558	610	193
155°	350	378	436	493	513	161
165°	382	393	418	443	450	108
175°	398	398	402	407	406	38
180°	399	399	399	399	399	



TEST NUMBER: P1007419

CATALOG NUMBER: S122IP-B725UB2750-4F0-XX-W2A-4_3500K

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	3.1	6.1	7.7	9.2	11.5	15.3	20.7	25.3	26.1	25.3
92.5°	11.5	16.1	22.2	26.1	32.2	40.6	61.3	90.5	116.5	118.1	98.9
95°	26.8	29.9	37.6	44.5	56.7	75.1	110.4	177.1	266.0	300.5	263.0
97.5°	39.9	44.5	52.9	62.9	76.7	97.4	142.6	235.4	378.7	489.9	493.8
100°	59.0	61.3	68.2	80.5	95.8	117.3	157.9	251.5	417.1	605.7	716.1
102.5°	76.7	78.2	85.1	97.4	113.5	134.9	171.7	252.2	402.5	609.5	798.9
105°	93.5	96.6	102.0	113.5	130.3	151.8	187.8	256.1	382.6	568.1	772.1
107.5°	111.9	114.2	119.6	130.3	147.2	168.7	203.9	264.5	371.8	529.8	715.3
110°	130.3	133.4	138.0	148.0	164.1	186.3	220.0	275.2	368.8	503.7	662.4

TEST NUMBER: P1007419

CATALOG NUMBER: S122IP-B725UB2750-4F0-XX-W2A-4_3500K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	147.2	150.3	155.6	164.8	180.2	203.2	235.4	286.7	369.5	486.9	625.6
115°	164.8	168.7	173.3	182.5	197.8	218.5	251.5	298.2	372.6	475.4	596.5
117.5°	183.2	186.3	190.9	199.3	213.9	235.4	266.0	310.5	377.2	469.2	576.6
120°	200.1	203.2	207.8	214.7	230.0	251.5	281.4	322.8	381.8	463.9	561.2
122.5°	216.2	218.5	223.1	230.8	246.1	268.3	295.9	333.5	387.2	460.8	548.2
125°	230.0	232.3	236.9	246.1	261.4	282.9	310.5	345.0	392.5	457.0	535.9
127.5°	241.5	244.6	250.7	260.7	275.2	297.5	324.3	355.7	397.9	454.7	524.4
130°	251.5	254.5	262.2	272.9	288.3	309.7	336.6	365.7	404.0	453.1	512.9
132.5°	260.7	264.5	272.9	284.4	300.5	322.0	347.3	375.7	410.2	452.4	503.7
135°	269.9	272.9	282.1	293.6	311.3	332.7	357.3	384.1	414.8	451.6	495.3
137.5°	278.3	282.1	291.3	303.6	321.2	341.2	365.7	391.0	419.4	451.6	489.2
140°	288.3	291.3	300.5	312.8	329.7	349.6	372.6	396.4	422.5	450.8	483.8
142.5°	298.2	300.5	309.0	321.2	337.3	355.7	378.0	401.0	424.8	450.8	478.4
145°	308.2	311.3	318.9	330.4	345.8	362.6	383.3	404.8	426.3	449.3	473.8
147.5°	318.9	321.2	328.9	339.6	352.7	368.0	387.9	407.1	427.1	447.0	469.2
150°	329.7	332.0	338.1	348.1	359.6	373.4	391.0	408.6	426.3	444.7	463.1
152.5°	340.4	341.2	347.3	355.7	366.5	378.7	394.1	409.4	424.8	440.9	457.7
155°	350.4	351.1	355.7	364.2	372.6	384.1	397.1	410.2	423.2	436.3	450.8
157.5°	358.8	359.6	363.4	371.1	378.0	387.9	399.4	410.2	420.2	431.7	444.7
160°	367.2	368.0	371.1	377.2	383.3	391.8	401.0	410.2	417.9	427.1	437.8
162.5°	375.7	374.9	378.0	382.6	387.9	394.1	401.7	409.4	415.6	423.2	431.7
165°	381.8	381.0	382.6	387.2	391.0	395.6	402.5	407.9	412.5	417.9	424.8
167.5°	387.2	386.4	387.9	391.0	394.1	397.1	402.5	407.1	409.4	413.3	417.9
170°	392.5	391.0	391.8	394.1	395.6	397.9	401.7	405.6	407.1	409.4	412.5
172.5°	395.6	394.8	394.1	396.4	397.1	398.7	401.0	403.3	404.0	404.8	407.1
175°	397.9	397.1	396.4	397.9	397.9	398.7	400.2	401.7	401.0	401.7	402.5
177.5°	399.4	397.9	397.1	398.7	398.7	398.7	399.4	401.0	399.4	398.7	399.4
180°	398.7	398.7	398.7	398.7	398.7	398.7	398.7	398.7	398.7	398.7	398.7

TEST NUMBER: P1007419

CATALOG NUMBER: S122IP-B725UB2750-4F0-XX-W2A-4_3500K

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	23.0	24.5	25.3	25.3	25.3	25.3	25.3
92.5°	77.4	65.9	57.5	51.4	50.6	47.5	48.3	46.8
95°	200.9	154.1	121.9	105.0	95.1	88.9	86.6	87.4
97.5°	410.9	328.1	250.7	204.7	174.8	159.5	151.0	146.4
100°	700.0	604.9	499.9	407.1	343.5	310.5	288.3	274.5
102.5°	889.4	886.3	816.5	716.9	646.3	584.2	555.1	535.2
105°	931.5	1018.2	1028.1	1002.8	955.3	907.8	874.8	864.1
107.5°	886.3	1015.1	1090.2	1120.9	1120.1	1113.2	1103.3	1085.6
110°	824.2	961.4	1059.6	1122.4	1155.4	1170.0	1176.9	1176.1

TEST NUMBER: P1007419

CATALOG NUMBER: S122IP-B725UB2750-4F0-XX-W2A-4_3500K

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	767.5	897.8	1004.4	1078.7	1127.8	1154.6	1169.2	1174.6
115°	723.0	841.1	941.5	1020.5	1074.9	1110.2	1130.1	1137.0
117.5°	686.2	792.0	885.5	960.7	1016.6	1054.2	1074.9	1080.3
120°	660.1	755.2	836.5	906.2	959.9	995.9	1018.2	1025.8
122.5°	639.4	724.5	800.4	861.8	908.5	943.8	963.0	969.1
125°	619.5	698.5	765.9	823.4	867.9	897.0	916.2	922.3
127.5°	599.6	672.4	736.8	790.5	829.6	857.2	874.0	878.6
130°	580.4	646.3	706.9	757.5	795.1	821.1	836.5	842.6
132.5°	562.0	621.8	676.2	723.0	759.8	785.9	799.7	805.0
135°	545.1	595.7	646.3	689.3	722.2	747.5	761.3	764.4
137.5°	531.3	575.0	616.4	654.8	686.2	708.4	720.7	725.3
140°	518.3	555.1	590.4	624.1	648.6	668.6	680.1	684.7
142.5°	507.6	537.5	566.6	593.4	616.4	634.1	644.0	644.0
145°	497.6	522.9	546.7	568.9	587.3	600.3	608.0	610.3
147.5°	489.9	510.6	529.8	546.7	562.8	573.5	578.9	580.4
150°	481.5	498.4	514.5	528.3	539.8	549.0	553.6	554.3
152.5°	473.1	488.4	501.4	512.9	521.4	529.0	532.1	532.1
155°	465.4	477.7	489.2	497.6	506.0	511.4	514.5	512.9
157.5°	456.2	466.9	476.9	483.8	489.9	494.5	496.1	496.1
160°	447.8	456.2	464.6	470.0	475.4	479.2	480.0	480.0
162.5°	439.3	446.2	453.1	457.0	462.3	464.6	465.4	464.6
165°	430.9	436.3	441.6	444.7	447.8	450.8	450.8	450.1
167.5°	422.5	427.1	430.9	434.0	435.5	437.0	437.0	436.3
170°	416.3	418.6	421.7	423.2	424.0	426.3	425.5	424.0
172.5°	409.4	410.9	413.3	414.0	414.8	415.6	414.8	414.0
175°	404.8	405.6	406.3	407.1	407.1	407.9	407.1	405.6
177.5°	401.0	401.0	401.7	401.7	401.7	401.7	401.0	399.4
180°	398.7	398.7	398.7	398.7	398.7	398.7	398.7	398.7

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