

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: P1007328

Luminaire Tested: S122IP-B1080UB2750-4F0-XX-W2A-4_3000K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007328
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-B1080UB2750-4F0-XX-W2A-4_3000K
Description: Define 2 Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

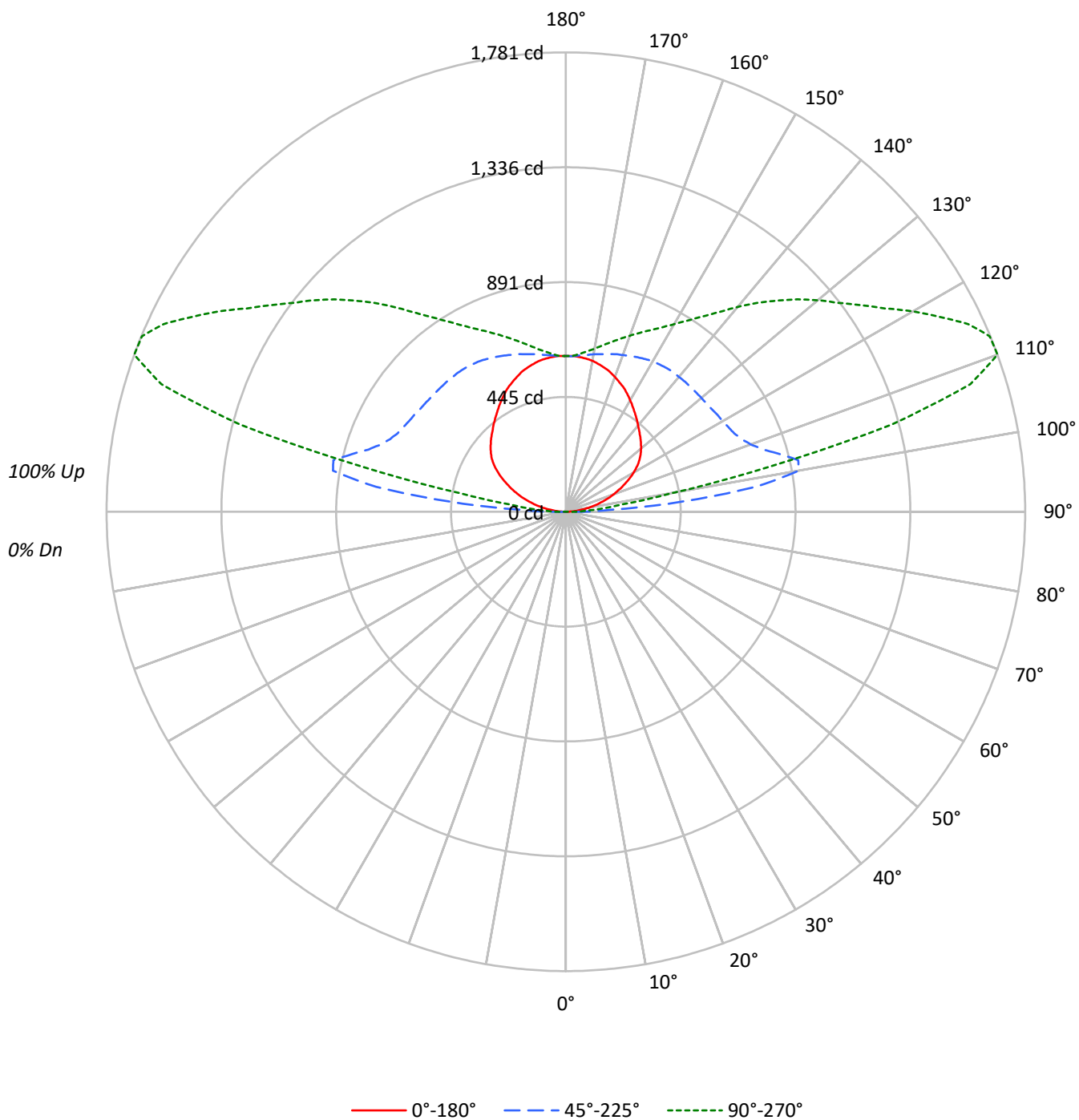
Lumens per Lamp: N/A
Luminaire Lumens: 4208.0 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 35
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: P1007328

CATALOG NUMBER: S122IP-B1080UB2750-4F0-XX-W2A-4_3000K

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

TEST NUMBER: P1007328

CATALOG NUMBER: S122IP-B1080UB2750-4F0-XX-W2A-4_3000K

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°	3.9	0.1
90°-100°	235.3	5.6
100°-110°	828.8	19.7
110°-120°	870.4	20.7
120°-130°	716.1	17.0
130°-140°	575.3	13.7
140°-150°	434.5	10.3
150°-160°	305.5	7.3
160°-170°	179.8	4.3
170°-180°	58.5	1.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.9	0.1
90°-120°	1934.5	46.0
90°-150°	3660.3	87.0
90°-180°	4204.0	99.9
0°-180°	4208.0	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	16	40	38	38	3
95°	41	100	455	172	132	42
105°	142	214	860	1538	1308	150
115°	250	315	720	1485	1722	248
125°	348	412	692	1203	1397	310
135°	409	488	684	1011	1158	316
145°	467	536	680	845	924	293
155°	531	573	661	747	777	244
165°	578	596	633	671	682	163
175°	602	603	608	616	614	57
180°	604	604	604	604	604	

TEST NUMBER: P1007328

CATALOG NUMBER: S122IP-B1080UB2750-4F0-XX-W2A-4_3000K

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°	1.2	4.6	9.3	11.6	13.9	17.4	23.2	31.3	38.3	39.5	38.3
92.5°	17.4	24.4	33.7	39.5	48.8	61.5	92.9	137.0	176.5	178.8	149.8
95°	40.6	45.3	56.9	67.3	85.9	113.8	167.2	268.2	402.8	455.1	398.2
97.5°	60.4	67.3	80.1	95.2	116.1	147.4	215.9	356.4	573.5	741.8	747.6
100°	89.4	92.9	103.3	121.9	145.1	177.6	239.2	380.8	631.6	917.1	1084.3
102.5°	116.1	118.4	128.9	147.4	171.8	204.3	260.1	382.0	609.5	923.0	1209.7
105°	141.6	146.3	154.4	171.8	197.4	229.9	284.4	387.8	579.3	860.3	1169.1
107.5°	169.5	173.0	181.1	197.4	222.9	255.4	308.8	400.5	563.1	802.2	1083.2
110°	197.4	202.0	209.0	224.1	248.4	282.1	333.2	416.8	558.4	762.7	1003.1

TEST NUMBER: P1007328

CATALOG NUMBER: S122IP-B1080UB2750-4F0-XX-W2A-4_3000K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	222.9	227.5	235.7	249.6	272.8	307.7	356.4	434.2	559.6	737.2	947.3
115°	249.6	255.4	262.4	276.3	299.5	330.9	380.8	451.6	564.2	719.8	903.2
117.5°	277.5	282.1	289.1	301.8	323.9	356.4	402.8	470.2	571.2	710.5	873.0
120°	303.0	307.7	314.6	325.1	348.3	380.8	426.1	488.8	578.2	702.4	849.8
122.5°	327.4	330.9	337.8	349.4	372.7	406.3	448.1	505.0	586.3	697.7	830.1
125°	348.3	351.8	358.7	372.7	395.9	428.4	470.2	522.4	594.4	691.9	811.5
127.5°	365.7	370.3	379.6	394.7	416.8	450.4	491.1	538.7	602.5	688.4	794.1
130°	380.8	385.4	397.0	413.3	436.5	469.0	509.7	553.8	611.8	686.1	776.7
132.5°	394.7	400.5	413.3	430.7	455.1	487.6	525.9	568.9	621.1	685.0	762.7
135°	408.7	413.3	427.2	444.6	471.3	503.8	541.0	581.6	628.1	683.8	750.0
137.5°	421.4	427.2	441.2	459.7	486.4	516.6	553.8	592.1	635.0	683.8	740.7
140°	436.5	441.2	455.1	473.7	499.2	529.4	564.2	600.2	639.7	682.6	732.6
142.5°	451.6	455.1	467.9	486.4	510.8	538.7	572.3	607.2	643.2	682.6	724.4
145°	466.7	471.3	483.0	500.4	523.6	549.1	580.5	613.0	645.5	680.3	717.5
147.5°	483.0	486.4	498.0	514.3	534.0	557.3	587.4	616.5	646.6	676.8	710.5
150°	499.2	502.7	512.0	527.1	544.5	565.4	592.1	618.8	645.5	673.3	701.2
152.5°	515.5	516.6	525.9	538.7	554.9	573.5	596.7	619.9	643.2	667.5	693.1
155°	530.6	531.7	538.7	551.4	564.2	581.6	601.4	621.1	640.8	660.6	682.6
157.5°	543.3	544.5	550.3	561.9	572.3	587.4	604.9	621.1	636.2	653.6	673.3
160°	556.1	557.3	561.9	571.2	580.5	593.2	607.2	621.1	632.7	646.6	662.9
162.5°	568.9	567.7	572.3	579.3	587.4	596.7	608.3	619.9	629.2	640.8	653.6
165°	578.2	577.0	579.3	586.3	592.1	599.0	609.5	617.6	624.6	632.7	643.2
167.5°	586.3	585.1	587.4	592.1	596.7	601.4	609.5	616.5	619.9	625.7	632.7
170°	594.4	592.1	593.2	596.7	599.0	602.5	608.3	614.1	616.5	619.9	624.6
172.5°	599.0	597.9	596.7	600.2	601.4	603.7	607.2	610.7	611.8	613.0	616.5
175°	602.5	601.4	600.2	602.5	602.5	603.7	606.0	608.3	607.2	608.3	609.5
177.5°	604.9	602.5	601.4	603.7	603.7	603.7	604.9	607.2	604.9	603.7	604.9
180°	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7

TEST NUMBER: P1007328

CATALOG NUMBER: S122IP-B1080UB2750-4F0-XX-W2A-4_3000K

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°	37.2	34.8	37.2	38.3	38.3	38.3	38.3	38.3
92.5°	117.3	99.8	87.1	77.8	76.6	72.0	73.1	70.8
95°	304.2	233.3	184.6	159.0	144.0	134.7	131.2	132.3
97.5°	622.3	496.9	379.6	310.0	264.7	241.5	228.7	221.7
100°	1059.9	916.0	756.9	616.5	520.1	470.2	436.5	415.6
102.5°	1346.7	1342.1	1236.4	1085.5	978.7	884.6	840.5	810.3
105°	1410.5	1541.7	1556.8	1518.5	1446.5	1374.6	1324.6	1308.4
107.5°	1342.1	1537.1	1650.9	1697.3	1696.1	1685.7	1670.6	1643.9
110°	1248.0	1455.8	1604.4	1699.6	1749.5	1771.6	1782.0	1780.9

TEST NUMBER: P1007328

CATALOG NUMBER: S122IP-B1080UB2750-4F0-XX-W2A-4_3000K

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1162.1	1359.5	1520.8	1633.4	1707.7	1748.4	1770.4	1778.6
115°	1094.8	1273.6	1425.6	1545.2	1627.6	1681.0	1711.2	1721.7
117.5°	1039.0	1199.3	1340.9	1454.7	1539.4	1596.3	1627.6	1635.8
120°	999.6	1143.5	1266.6	1372.2	1453.5	1508.1	1541.7	1553.3
122.5°	968.2	1097.1	1212.0	1304.9	1375.7	1429.1	1458.1	1467.4
125°	938.0	1057.6	1159.8	1246.9	1314.2	1358.3	1387.3	1396.6
127.5°	907.9	1018.1	1115.7	1196.9	1256.1	1297.9	1323.5	1330.4
130°	878.8	978.7	1070.4	1147.0	1203.9	1243.4	1266.6	1275.9
132.5°	851.0	941.5	1024.0	1094.8	1150.5	1190.0	1210.9	1219.0
135°	825.4	902.1	978.7	1043.7	1093.6	1131.9	1152.8	1157.5
137.5°	804.5	870.7	933.4	991.4	1039.0	1072.7	1091.3	1098.3
140°	784.8	840.5	893.9	945.0	982.2	1012.3	1029.8	1036.7
142.5°	768.5	813.8	857.9	898.6	933.4	960.1	975.2	975.2
145°	753.5	791.8	827.8	861.4	889.3	909.0	920.6	924.1
147.5°	741.8	773.2	802.2	827.8	852.1	868.4	876.5	878.8
150°	729.1	754.6	779.0	799.9	817.3	831.2	838.2	839.4
152.5°	716.3	739.5	759.3	776.7	789.4	801.1	805.7	805.7
155°	704.7	723.3	740.7	753.5	766.2	774.3	779.0	776.7
157.5°	690.8	707.0	722.1	732.6	741.8	748.8	751.1	751.1
160°	678.0	690.8	703.5	711.7	719.8	725.6	726.8	726.8
162.5°	665.2	675.7	686.1	691.9	700.0	703.5	704.7	703.5
165°	652.5	660.6	668.7	673.3	678.0	682.6	682.6	681.5
167.5°	639.7	646.6	652.5	657.1	659.4	661.7	661.7	660.6
170°	630.4	633.9	638.5	640.8	642.0	645.5	644.3	642.0
172.5°	619.9	622.3	625.7	626.9	628.1	629.2	628.1	626.9
175°	613.0	614.1	615.3	616.5	616.5	617.6	616.5	614.1
177.5°	607.2	607.2	608.3	608.3	608.3	608.3	607.2	604.9
180°	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7

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