

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P571640

Luminaire Tested: **2ST2L20SC3-4000K**

Issue Date: 3/18/2022

Test Information

Test Method: LM-79-08
Report Number: P571640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P579285)
Test Lab: INNOVATION CENTER
Issue Date: 3/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2ST2L20SC3-4000K
Description: 2 FOOT ST2 STIPLIGHT WITH 4000K, 80CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

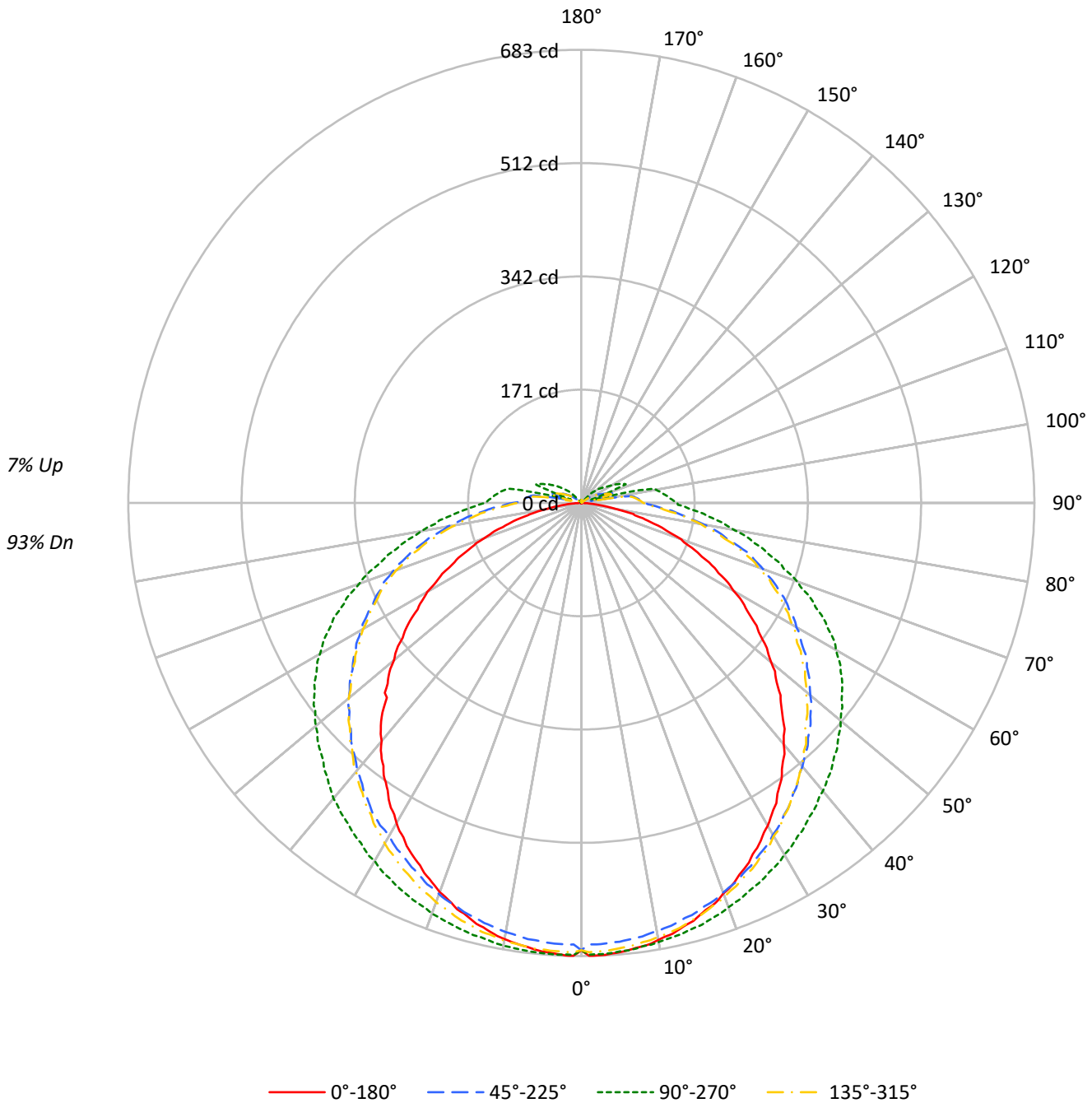
Lumens per Lamp: N/A
Luminaire Lumens: 2471.0 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 2' x H: 0.11')
CIE Type: Direct

Input Watts (W): 18.6
Input Voltage (V): NR
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: 25 FT



TEST NUMBER: P571640
CATALOG NUMBER: 2ST2L20SC3-4000K

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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	117	117	117	117	114	114	114	114	107	107	107	102	102	102	96	96	96	93
1	105	99	94	90	102	96	92	88	91	87	84	86	83	80	81	79	76	74
2	95	85	78	71	91	83	76	70	78	72	67	74	69	65	70	66	62	60
3	86	74	65	58	83	72	64	57	68	61	55	64	58	53	61	56	52	49
4	78	65	56	49	75	63	55	48	60	52	46	57	50	45	54	48	44	41
5	72	58	48	41	69	56	48	41	53	46	40	51	44	39	48	42	38	35
6	66	52	43	36	64	51	42	35	48	40	35	46	39	34	44	38	33	31
7	61	47	38	31	59	46	37	31	44	36	30	42	35	30	40	34	29	27
8	57	43	34	28	55	42	33	28	40	32	27	38	31	26	36	30	26	24
9	53	39	31	25	51	38	30	25	37	29	24	35	28	24	34	28	23	21
10	50	36	28	22	48	35	28	22	34	27	22	32	26	21	31	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12441	12441	12441	12441
5°	12529	12167	12512	12217
10°	12409	11817	12389	11916
15°	12279	11514	12215	11627
20°	12059	11221	12022	11391
25°	11873	10975	11768	11166
30°	11616	10741	11512	10932
35°	11307	10553	11160	10789
40°	10942	10403	10795	10681
45°	10526	10266	10263	10464
50°	10066	10154	9940	10405
55°	9639	10096	9514	10315
60°	8941	9953	9035	10218
65°	8313	9707	8246	10020
70°	7528	9242	7345	9511
75°	6126	8656	6275	9014
80°	4430	8008	4447	8391
85°	2314	7467	2419	7762



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	2.6
10°-20°	183.7	7.4
20°-30°	281.4	11.4
30°-40°	346.8	14.0
40°-50°	374.4	15.2
50°-60°	364.8	14.8
60°-70°	319.4	12.9
70°-80°	237.5	9.6
80°-90°	137.7	5.6
90°-100°	79.1	3.2
100°-110°	29.1	1.2
110°-120°	30.0	1.2
120°-130°	15.9	0.6
130°-140°	4.3	0.2
140°-150°	0.9	0.0
150°-160°	1.0	0.0
160°-170°	0.9	0.0
170°-180°	0.4	0.0
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0°-30°	528.9	21.4
0°-40°	875.7	35.4
0°-60°	1614.9	65.4
0°-90°	2309.5	93.5
90°-120°	138.2	5.6
90°-150°	159.2	6.4
90°-180°	162.0	6.6
0°-180°	2471.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	674	674	674	674	674	
5°	680	678	679	681	680	65
15°	652	663	649	669	652	184
25°	598	632	593	643	598	275
35°	521	590	514	604	521	326
45°	425	540	415	550	425	329
55°	323	480	319	491	323	287
65°	212	399	211	412	212	210
75°	103	290	106	302	103	112
85°	18	185	18	192	18	22
90°	1	145	2	145	1	1
95°	0	128	1	131	0	1
105°	0	19	0	19	0	0
115°	0	68	1	67	0	0
125°	0	41	0	44	0	0
135°	0	20	1	18	0	0
145°	1	1	1	1	1	1
155°	2	2	2	2	2	1
165°	4	3	3	3	4	1
175°	4	4	4	4	4	0
180°	4	4	4	4	4	



TEST NUMBER: P571640
 CATALOG NUMBER: 2ST2L20SC3-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	674.2	674.2	674.2	674.2	674.2	674.2	674.2	674.2	674.2	674.2	674.2
1°	682.6	650.4	665.5	684.4	681.0	669.5	677.3	676.7	682.6	650.4	665.5
2°	682.4	650.1	665.8	684.0	680.4	668.6	676.5	676.5	682.4	650.1	666.1
3°	682.1	649.8	665.2	683.8	680.7	667.8	676.2	675.9	681.0	649.6	665.5
4°	680.7	649.0	663.8	683.2	679.8	667.5	675.1	674.8	679.3	648.4	665.2
5°	679.6	647.8	663.8	682.4	678.2	666.6	673.4	673.1	678.7	647.3	664.1
6°	677.9	647.0	662.2	681.0	678.2	664.7	672.5	672.3	676.5	646.7	662.7
7°	675.7	645.0	661.0	679.8	676.7	664.1	670.9	670.3	673.9	644.5	662.2
8°	674.5	643.4	659.7	678.7	674.5	662.2	668.4	667.2	672.5	642.0	660.2
9°	672.3	641.4	657.1	676.7	674.2	660.2	667.2	665.2	670.0	640.5	657.9
10°	668.6	638.6	655.4	675.7	672.0	659.1	664.4	663.6	667.5	637.7	656.8
11°	665.8	636.9	653.2	673.9	670.0	657.1	662.4	659.9	665.0	634.7	654.3
12°	663.6	633.3	651.5	671.4	668.6	654.6	659.9	655.7	660.8	630.4	651.8
13°	659.1	629.3	648.4	670.0	667.2	652.6	657.7	654.0	656.5	628.5	649.8
14°	654.9	627.4	644.8	667.0	664.4	650.4	653.7	649.6	653.7	626.5	646.4
15°	652.1	623.1	643.1	663.6	662.7	647.6	650.4	644.8	648.7	622.3	643.9
16°	646.7	620.6	639.7	661.6	661.0	644.8	647.6	642.0	643.6	617.5	641.4
17°	641.4	616.9	635.5	658.3	657.4	642.5	643.6	637.5	640.5	614.4	637.2
18°	638.3	612.2	633.3	654.3	655.1	638.9	639.1	631.6	633.8	610.8	634.4
19°	633.3	607.7	629.9	653.5	652.3	636.3	636.3	628.2	628.5	605.2	631.6
20°	626.2	604.3	624.8	649.2	648.7	633.0	631.6	623.7	624.3	600.4	627.4
21°	622.0	598.7	620.9	645.9	645.3	629.3	626.5	616.4	617.3	597.0	622.6
22°	616.7	593.4	617.8	643.4	643.1	626.5	623.1	612.2	611.4	592.0	620.1
23°	608.8	589.8	612.8	638.6	638.6	622.3	617.5	606.8	606.0	585.3	614.7
24°	603.8	583.0	607.4	634.7	635.2	618.7	612.8	600.1	598.1	581.6	609.1
25°	597.9	577.1	604.1	631.8	632.4	615.3	608.8	596.2	592.6	575.4	605.7
26°	589.2	573.2	598.1	626.2	628.8	610.5	603.5	588.0	586.6	568.1	600.4
27°	583.6	565.9	593.1	621.7	624.3	608.6	597.0	581.3	580.2	563.9	594.8
28°	576.6	559.4	589.2	618.7	621.2	604.6	593.1	576.3	570.9	557.7	591.4
29°	567.6	555.0	584.4	612.8	617.8	601.0	587.5	567.8	565.6	549.9	586.1
30°	562.2	548.5	577.7	608.0	612.2	595.1	579.9	560.8	557.2	544.9	579.6
31°	553.6	540.6	573.2	601.8	608.8	592.0	576.0	555.2	547.7	538.4	575.2
32°	545.7	535.3	568.1	598.1	604.1	586.9	568.7	545.9	541.7	530.2	572.9
33°	539.5	530.2	560.8	593.7	599.0	581.3	561.4	538.9	533.0	526.9	567.6
34°	528.8	519.8	556.4	588.9	595.9	577.9	556.9	532.5	522.3	517.6	563.3
35°	521.0	514.2	550.2	583.9	590.3	572.6	549.9	522.7	514.2	510.3	556.1
36°	514.0	506.9	542.9	578.8	584.7	566.5	541.5	514.8	507.2	505.0	549.6
37°	502.4	497.4	538.1	574.6	581.6	563.1	537.0	506.4	496.0	495.7	545.1
38°	494.0	491.8	531.4	569.2	576.6	558.0	530.5	500.2	489.0	488.1	537.0
39°	486.7	483.6	523.5	562.5	570.1	553.0	523.2	489.5	480.3	482.5	530.8
40°	474.9	473.5	518.8	558.9	566.5	549.3	518.2	481.1	468.5	472.4	526.0
41°	465.1	467.9	511.7	552.4	561.7	542.6	509.5	474.4	461.2	464.3	517.9
42°	458.1	459.8	505.8	545.4	556.1	537.0	501.9	463.2	451.9	458.4	511.1
43°	445.7	453.3	500.5	541.2	552.4	532.8	497.1	454.7	441.8	448.3	506.1
44°	435.4	445.2	492.1	535.0	545.7	525.2	487.9	447.7	429.2	440.4	499.6



TEST NUMBER: P571640
 CATALOG NUMBER: 2ST2L20SC3-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	425.2	434.5	486.1	527.5	539.5	519.0	476.9	434.5	414.6	429.5	491.2
46°	417.4	428.3	480.6	522.9	535.6	511.7	471.6	428.1	411.8	422.7	483.9
47°	404.5	419.1	472.1	516.8	528.5	507.2	465.9	421.0	399.2	414.6	479.2
48°	394.4	408.7	465.4	509.2	522.1	501.0	458.6	409.5	391.5	408.1	470.5
49°	386.8	402.2	459.5	503.0	517.9	496.6	449.1	400.2	381.4	397.2	465.4
50°	373.3	393.0	450.8	498.5	510.3	488.7	443.2	393.5	368.6	388.5	457.8
51°	362.9	382.0	443.0	491.5	503.9	482.5	436.2	384.0	360.7	380.1	449.1
52°	355.1	373.3	437.6	483.6	499.4	477.2	428.1	372.5	350.9	373.1	443.2
53°	341.6	366.0	428.6	478.6	491.5	471.6	422.4	366.3	337.4	362.1	435.6
54°	330.7	355.1	420.5	471.6	485.6	463.4	412.9	356.5	329.2	355.7	426.1
55°	322.8	348.1	415.1	463.2	480.3	458.1	405.0	345.2	318.6	346.4	420.5
56°	309.0	339.4	407.6	458.4	474.1	451.9	399.4	338.3	307.9	335.4	413.5
57°	297.8	330.1	397.7	451.1	466.2	443.8	387.9	329.2	294.4	321.7	405.6
58°	289.7	318.9	390.2	442.4	460.6	436.8	382.0	317.7	286.9	319.5	400.0
59°	279.0	312.2	384.6	436.8	451.3	431.7	376.4	311.0	276.2	308.5	390.7
60°	265.0	302.6	374.5	429.5	443.2	422.4	366.9	302.1	267.8	299.8	382.6
61°	256.8	295.9	368.3	423.3	437.6	415.5	359.3	290.5	254.6	293.0	377.0
62°	245.9	285.2	360.7	412.6	428.3	409.3	353.1	283.8	243.7	282.1	367.4
63°	232.1	275.9	350.9	404.2	417.1	398.6	343.3	275.4	235.5	272.8	359.6
64°	223.7	269.2	345.0	392.4	409.8	390.2	336.5	264.1	221.7	266.4	349.5
65°	212.5	258.2	336.5	385.4	399.4	383.2	330.4	258.0	210.8	257.1	343.8
66°	199.0	249.2	325.9	375.9	386.8	373.6	319.7	248.4	202.9	246.2	336.3
67°	190.6	242.5	319.5	365.2	378.9	361.5	311.3	239.7	188.9	239.7	325.9
68°	179.6	231.6	310.2	357.3	368.3	353.9	305.1	228.5	178.2	231.0	322.0
69°	165.9	223.1	298.9	344.4	354.5	343.6	293.4	221.7	169.8	219.8	311.3
70°	160.3	216.4	291.9	333.2	346.1	330.4	283.5	213.0	156.4	213.3	302.1
71°	146.5	205.7	282.1	325.0	335.1	322.3	276.8	206.3	145.7	204.9	295.3
72°	135.6	197.3	272.8	311.0	320.9	311.0	266.7	195.6	137.5	194.2	283.5
73°	127.4	191.2	267.8	299.5	314.9	296.4	254.6	187.2	124.1	188.1	274.0
74°	114.0	182.5	252.4	291.1	300.9	288.0	246.7	181.0	113.7	179.6	266.7
75°	103.3	172.3	241.7	276.8	289.7	277.0	236.1	171.2	105.8	169.5	254.6
76°	95.7	163.9	227.7	265.8	281.5	263.0	222.9	162.8	96.0	161.1	243.9
77°	82.8	157.2	219.5	257.4	267.5	254.9	214.7	156.4	83.1	154.9	236.1
78°	80.3	145.7	211.1	242.8	259.3	243.7	204.1	145.7	75.8	146.8	222.9
79°	66.0	136.4	200.7	231.8	247.6	233.0	190.6	136.4	66.5	140.0	211.9
80°	54.5	129.1	187.8	224.0	234.1	224.9	183.0	127.1	54.7	128.8	204.1
81°	45.8	116.8	176.3	213.0	223.4	211.6	172.1	120.1	48.3	120.1	190.9
82°	39.3	107.2	162.5	199.6	215.8	201.3	158.6	108.1	40.1	113.1	180.8
83°	31.4	99.9	154.7	191.7	202.7	194.0	153.3	100.8	30.3	101.3	172.6
84°	22.5	87.9	144.6	184.1	192.3	181.6	140.4	91.2	25.0	92.1	162.2
85°	17.7	81.1	137.2	173.5	185.0	170.9	128.0	80.0	18.5	84.8	148.7
86°	11.0	72.1	124.9	161.1	172.6	163.6	121.2	70.7	11.8	73.5	140.9
87°	6.7	61.5	115.4	151.3	162.8	151.0	111.4	63.7	9.2	65.1	130.8
88°	4.5	55.6	108.3	139.8	155.8	142.3	102.4	53.6	4.8	58.7	119.0
89°	2.0	48.3	100.2	134.2	145.7	135.6	97.4	46.6	2.5	49.1	112.3



TEST NUMBER: P571640
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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	1.1	45.5	96.3	131.3	144.6	128.3	93.7	43.8	1.7	43.2	103.0
91°	0.9	43.5	94.1	129.1	140.4	126.3	91.2	42.1	1.4	41.5	93.5
92°	1.1	40.7	92.1	125.8	137.2	123.8	89.3	40.1	0.9	38.5	90.9
93°	1.1	38.7	88.2	123.0	133.6	122.1	86.4	38.7	1.1	37.1	88.2
94°	0.9	37.3	86.2	119.8	131.3	118.7	83.9	36.2	1.1	35.3	86.2
95°	0.5	25.6	83.9	117.9	128.5	116.8	82.5	23.9	0.9	28.9	84.8
96°	0.9	15.1	81.1	115.1	125.2	114.3	79.4	17.9	0.9	17.7	81.4
97°	0.9	13.5	79.7	111.7	123.0	111.1	76.9	14.9	0.9	15.7	78.6
98°	0.9	14.3	75.2	109.7	120.4	109.2	72.7	17.1	0.9	16.0	77.2
99°	0.5	20.5	52.5	106.4	116.8	106.7	50.5	20.5	0.9	19.9	71.3
100°	0.5	20.2	33.4	103.3	114.5	103.0	24.1	19.7	0.5	19.4	55.6
101°	0.5	19.1	16.5	93.5	111.7	99.6	19.4	18.5	0.5	18.3	40.4
102°	0.5	17.9	15.7	64.3	96.3	82.5	17.4	17.4	0.9	17.4	22.2
103°	0.5	16.5	14.3	36.2	78.6	52.2	16.3	16.3	0.9	16.5	20.2
104°	0.5	15.7	15.1	16.5	45.2	25.2	17.4	15.1	0.9	15.7	19.4
105°	0.5	14.3	27.5	13.8	19.4	17.1	32.0	14.6	0.5	14.3	22.7
106°	0.5	13.8	40.1	13.2	17.1	16.5	46.9	13.5	0.5	13.5	34.3
107°	0.3	12.6	48.8	12.6	16.3	15.4	46.0	12.4	0.5	12.1	44.0
108°	0.5	11.2	46.6	15.4	16.0	14.6	44.6	11.8	0.5	11.2	45.5
109°	0.3	10.4	45.2	26.1	15.7	20.2	42.7	10.7	0.5	10.1	43.5
110°	0.5	9.6	42.4	44.4	26.1	39.9	41.0	9.2	0.5	8.7	42.1
111°	0.5	7.6	39.6	65.7	43.5	53.9	37.6	8.4	0.5	5.6	39.6
112°	0.5	5.3	37.6	65.1	58.1	64.3	35.1	5.0	0.3	3.7	38.2
113°	0.5	2.5	34.8	62.6	72.7	62.8	33.4	2.3	0.5	2.3	36.8
114°	0.5	1.7	32.8	60.3	70.2	59.8	31.2	2.0	0.5	2.0	35.3
115°	0.3	1.7	31.4	58.4	68.5	57.3	29.5	1.7	0.9	1.7	33.1
116°	0.3	1.4	30.0	55.0	65.7	53.9	28.9	1.4	0.5	1.4	31.7
117°	0.3	0.9	28.1	51.9	62.0	51.6	27.5	1.1	0.5	0.9	30.3
118°	0.5	0.9	27.2	49.4	60.1	48.8	26.1	0.9	0.5	0.9	27.8
119°	0.3	0.9	25.6	46.0	56.4	46.6	24.7	0.9	0.5	0.9	27.0
120°	0.3	0.9	23.3	44.0	52.8	44.0	23.6	0.9	0.5	0.9	24.7
121°	0.5	0.9	21.9	41.3	50.2	41.0	21.6	0.9	0.5	0.9	23.0
122°	0.5	0.5	20.8	39.9	47.4	39.3	20.2	0.9	0.5	0.9	21.6
123°	0.3	0.5	18.5	37.9	44.6	37.9	18.8	0.3	0.5	0.9	19.7
124°	0.3	0.5	17.1	35.7	43.2	35.7	16.5	0.9	0.9	0.9	17.7
125°	0.3	0.5	16.0	34.3	41.3	33.9	15.1	0.5	0.5	0.5	16.9
126°	0.5	0.3	11.8	32.3	38.5	32.6	11.5	0.9	0.5	0.5	12.9
127°	0.5	0.9	7.0	30.3	37.3	30.6	5.6	0.5	0.5	0.5	8.4
128°	0.3	0.5	3.9	28.9	34.8	28.6	3.9	0.5	0.5	0.5	5.3
129°	0.5	0.5	2.3	26.4	33.7	27.5	2.5	0.5	0.5	0.9	2.8
130°	0.5	0.5	2.0	24.1	31.2	25.2	2.0	0.5	0.5	0.9	2.8
131°	0.5	0.9	2.0	22.7	28.9	23.0	2.0	0.9	0.9	0.5	2.3
132°	0.5	0.5	1.4	20.2	25.8	21.6	1.7	0.9	0.9	0.9	1.7
133°	0.5	0.5	1.1	18.3	25.2	19.7	1.4	1.1	0.9	0.9	1.4
134°	0.5	0.9	0.9	13.5	22.5	14.3	1.1	0.5	0.5	0.9	1.4



TEST NUMBER: P571640
 CATALOG NUMBER: 2ST2L20SC3-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.5	0.5	0.9	10.4	19.7	10.4	0.9	0.9	0.9	0.9	1.1
136°	0.9	0.5	1.1	3.7	15.7	5.0	0.9	0.9	0.5	0.9	1.1
137°	0.5	0.5	0.9	2.5	7.8	3.1	0.9	0.9	0.9	0.9	1.1
138°	0.9	0.9	0.9	2.3	4.2	2.8	0.9	0.9	0.9	0.9	1.1
139°	0.9	0.9	0.9	2.3	3.1	2.3	1.1	0.9	0.9	1.1	0.9
140°	0.9	0.9	1.1	1.7	2.5	2.0	1.4	1.1	1.1	0.9	1.1
141°	0.9	1.1	1.1	1.4	2.3	1.7	1.1	1.1	1.1	1.4	1.4
142°	1.1	1.1	1.1	1.4	2.3	1.7	1.1	1.1	0.9	1.4	1.4
143°	1.1	1.1	1.1	1.1	1.7	1.4	1.1	1.1	1.1	1.1	1.4
144°	1.1	1.4	1.4	1.4	1.4	1.4	1.1	1.1	1.4	1.4	1.4
145°	1.4	1.1	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
146°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.7	1.7	1.4
147°	1.4	1.4	1.4	1.4	1.7	1.4	1.7	1.4	1.4	1.4	1.4
148°	1.7	1.7	1.7	1.7	1.7	1.4	1.4	1.4	1.7	1.4	1.4
149°	1.7	1.7	2.0	2.0	2.0	1.7	1.4	1.4	1.7	1.7	1.7
150°	2.0	2.0	1.7	1.7	1.7	1.7	1.7	2.0	1.7	1.7	1.7
151°	2.0	2.0	1.7	2.0	2.0	1.7	2.0	2.0	2.0	1.7	1.7
152°	1.7	2.0	2.0	2.0	2.0	1.7	2.0	2.0	2.0	2.0	2.0
153°	2.3	2.3	2.0	2.0	2.3	2.0	2.0	1.7	2.0	2.0	2.0
154°	2.3	2.3	2.3	2.0	2.3	2.0	1.7	2.0	2.0	2.0	2.3
155°	2.3	2.5	2.5	2.0	2.3	2.0	2.0	2.3	2.3	2.3	2.0
156°	2.3	2.3	2.5	2.5	2.3	2.3	2.0	2.3	2.3	2.3	2.0
157°	2.5	2.5	2.5	2.5	2.5	2.0	2.3	2.5	2.3	2.3	2.3
158°	2.5	2.8	2.5	2.5	2.8	2.3	2.5	2.3	2.5	2.5	2.3
159°	2.8	2.8	2.5	2.8	2.8	2.5	2.5	2.5	2.5	2.5	2.5
160°	2.8	2.8	3.1	2.5	2.8	2.3	2.5	2.5	2.8	2.5	2.5
161°	2.8	3.1	2.8	3.1	2.8	2.5	2.8	2.5	2.8	2.8	2.5
162°	3.1	3.1	3.1	3.1	3.1	2.5	2.8	2.5	2.8	2.5	2.5
163°	3.1	3.1	3.4	3.1	3.1	2.8	2.8	3.1	2.8	2.8	2.8
164°	3.4	3.4	3.7	3.4	3.4	3.1	3.1	2.8	3.1	3.1	2.5
165°	3.7	3.4	3.7	3.7	3.1	2.8	3.1	3.1	3.1	3.1	3.1
166°	3.4	3.7	3.7	3.7	3.4	3.1	3.1	3.4	3.1	3.1	2.8
167°	3.7	3.7	3.9	3.7	3.7	3.1	3.7	3.4	3.1	3.4	3.4
168°	3.7	3.7	3.9	3.9	3.7	3.1	3.7	3.4	3.4	3.4	3.4
169°	3.9	4.2	4.2	4.2	3.9	3.4	3.4	3.7	3.7	3.4	3.4
170°	3.9	3.9	4.5	4.2	3.9	3.7	3.9	3.7	3.9	3.7	3.4
171°	4.2	4.2	4.5	4.2	4.2	3.9	3.7	3.7	3.7	3.9	3.7
172°	4.2	3.9	4.2	4.2	3.9	4.2	3.9	3.9	3.7	3.7	3.7
173°	4.5	4.5	4.5	4.5	3.9	4.2	3.9	4.2	3.9	3.9	3.9
174°	4.2	4.5	4.5	4.5	4.2	4.2	4.2	3.9	3.9	3.9	3.9
175°	4.5	4.5	4.5	4.5	4.5	4.2	4.2	4.2	3.9	4.2	4.2
176°	4.2	4.5	4.2	4.2	4.2	4.2	4.2	4.2	3.9	4.2	3.9
177°	4.5	4.5	4.5	4.5	4.5	4.2	3.9	3.9	4.2	4.2	3.9
178°	4.2	4.2	4.5	4.5	4.5	3.9	4.2	4.2	4.2	4.2	3.9
179°	4.5	4.5	4.2	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.2



TEST NUMBER: P571640
CATALOG NUMBER: 2ST2L20SC3-4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4



TEST NUMBER: P571640
 CATALOG NUMBER: 2ST2L20SC3-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	674.2	674.2	674.2	674.2	674.2	674.2
1°	684.6	681.5	669.5	677.1	677.3	682.6
2°	685.2	681.0	669.5	677.1	677.3	682.4
3°	684.6	681.8	669.8	676.5	677.1	682.1
4°	684.6	681.5	669.2	676.5	676.7	680.7
5°	684.4	681.0	668.6	675.3	675.3	679.6
6°	683.2	680.7	668.6	675.3	673.9	677.9
7°	682.1	680.1	667.5	673.9	672.8	675.7
8°	680.7	679.0	666.6	672.3	670.6	674.5
9°	680.1	678.2	665.2	671.1	668.0	672.3
10°	678.2	677.6	664.7	669.8	667.0	668.6
11°	676.2	676.2	663.0	667.2	664.1	665.8
12°	675.1	673.9	660.8	665.0	660.5	663.6
13°	673.1	672.0	659.9	663.6	657.9	659.1
14°	670.6	671.4	657.4	660.5	655.1	654.9
15°	668.9	669.2	654.9	656.8	650.9	652.1
16°	666.6	667.5	653.5	654.9	647.6	646.7
17°	664.4	665.0	651.2	651.2	643.9	641.4
18°	661.9	663.0	647.8	647.0	639.4	638.3
19°	658.5	660.5	647.0	643.6	636.3	633.3
20°	655.1	658.5	643.4	640.5	630.4	626.2
21°	651.5	654.6	640.3	635.5	625.1	622.0
22°	649.6	652.3	638.3	631.8	621.2	616.7
23°	645.0	650.1	633.8	628.5	614.4	608.8
24°	640.3	646.2	629.9	622.9	609.1	603.8
25°	637.5	643.4	627.9	617.5	604.3	597.9
26°	633.5	640.0	623.1	613.9	596.2	589.2
27°	628.2	635.5	618.7	608.6	590.6	583.6
28°	625.4	633.0	615.5	602.4	585.5	576.6
29°	621.5	628.5	611.1	598.5	577.1	567.6
30°	616.4	623.1	606.3	592.6	570.4	562.2
31°	613.6	620.9	601.0	585.5	564.8	553.6
32°	607.7	616.1	597.3	580.7	557.2	545.7
33°	602.7	610.8	593.4	575.2	552.1	539.5
34°	599.0	607.7	588.0	567.0	542.0	528.8
35°	592.6	603.5	585.0	562.2	533.9	521.0
36°	587.2	597.9	578.5	556.1	523.8	514.0
37°	583.3	594.2	573.2	547.9	517.6	502.4
38°	576.8	590.3	570.1	542.6	508.9	494.0
39°	571.5	585.0	566.5	535.8	498.0	486.7
40°	567.0	581.6	558.3	528.3	491.5	474.9
41°	560.3	574.9	554.4	523.2	482.8	465.1
42°	555.0	569.2	547.4	514.5	471.9	458.1
43°	550.4	562.5	542.6	506.9	464.8	445.7
44°	542.6	558.3	537.2	501.9	456.4	435.4



TEST NUMBER: P571640
 CATALOG NUMBER: 2ST2L20SC3-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	537.0	549.9	530.0	492.6	445.5	425.2
46°	532.5	545.1	524.3	485.6	438.2	417.4
47°	525.7	540.6	519.6	480.0	429.2	404.5
48°	517.9	535.0	513.4	470.7	419.1	394.4
49°	513.4	527.5	505.3	463.7	407.6	386.8
50°	505.8	522.9	500.8	457.8	400.8	373.3
51°	498.5	516.8	494.0	448.0	391.3	362.9
52°	493.7	508.9	485.9	440.4	379.5	355.1
53°	486.1	505.5	481.4	434.5	371.9	341.6
54°	478.0	497.7	474.4	426.4	362.9	330.7
55°	472.7	490.7	465.9	416.8	351.2	322.8
56°	466.2	485.6	461.2	410.9	343.8	309.0
57°	457.2	476.9	454.5	403.1	334.6	297.8
58°	451.7	470.2	445.7	393.3	323.1	289.7
59°	445.2	464.3	442.4	387.4	315.8	279.0
60°	437.3	455.0	433.7	379.8	306.5	265.0
61°	432.3	447.1	425.8	370.0	299.8	256.8
62°	421.3	440.1	420.5	362.1	288.6	245.9
63°	412.6	429.2	410.4	356.5	278.5	232.1
64°	401.7	419.6	401.7	346.4	269.8	223.7
65°	394.4	412.3	394.9	338.5	262.7	212.5
66°	384.8	400.2	383.7	332.4	251.5	199.0
67°	372.5	388.8	373.9	323.9	242.8	190.6
68°	364.6	381.4	366.6	313.0	235.8	179.6
69°	354.5	368.0	353.4	306.2	224.5	165.9
70°	340.8	356.2	342.7	297.3	215.8	160.3
71°	332.1	347.5	334.6	285.2	208.9	146.5
72°	321.1	335.7	323.9	277.9	198.2	135.6
73°	309.6	321.4	309.3	268.3	188.9	127.4
74°	301.2	310.2	300.6	255.4	182.7	114.0
75°	286.9	301.7	289.4	247.6	172.1	103.3
76°	275.9	287.4	275.1	237.2	163.4	95.7
77°	267.5	278.7	266.7	223.4	157.2	82.8
78°	253.2	267.5	255.4	215.3	148.7	80.3
79°	241.7	254.0	241.7	204.3	137.8	66.0
80°	233.2	245.3	233.6	193.4	130.5	54.5
81°	219.5	234.4	222.6	185.3	121.6	45.8
82°	208.5	220.9	208.9	171.5	109.5	39.3
83°	200.7	215.6	201.0	160.8	101.6	31.4
84°	187.5	202.4	190.9	153.0	92.3	22.5
85°	177.4	192.3	181.0	139.5	85.0	17.7
86°	169.8	182.2	168.7	131.9	73.5	11.0
87°	160.0	172.3	161.7	122.4	64.6	6.7
88°	147.9	162.2	152.1	111.4	54.5	4.5
89°	140.9	154.9	144.8	105.0	49.1	2.0



TEST NUMBER: P571640
 CATALOG NUMBER: 2ST2L20SC3-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	131.9	145.1	133.1	96.3	43.5	1.1
91°	126.9	141.8	128.0	91.8	41.8	0.9
92°	124.9	139.8	124.6	89.3	39.0	1.1
93°	120.7	135.9	122.7	87.6	37.3	1.1
94°	118.4	133.3	119.6	84.5	33.1	0.9
95°	116.8	131.3	116.2	82.0	24.1	0.5
96°	114.5	128.0	114.3	80.3	14.6	0.9
97°	112.0	124.9	111.7	78.1	13.2	0.9
98°	110.0	122.7	108.1	69.0	16.0	0.9
99°	106.7	119.0	106.4	55.3	19.4	0.5
100°	101.6	115.9	103.3	31.7	18.3	0.5
101°	91.2	111.7	91.2	17.7	17.9	0.5
102°	57.0	94.1	74.9	16.5	17.1	0.5
103°	37.3	61.8	42.1	15.4	16.0	0.5
104°	22.5	40.7	17.9	22.7	15.1	0.5
105°	18.5	19.4	15.7	33.1	14.0	0.5
106°	18.5	17.7	14.6	47.4	14.0	0.5
107°	17.7	17.1	13.8	46.6	12.4	0.3
108°	17.1	16.5	15.7	46.0	10.7	0.5
109°	22.5	22.2	32.0	42.7	9.8	0.3
110°	36.8	33.9	50.2	40.7	8.4	0.5
111°	54.1	52.8	62.6	39.6	4.8	0.5
112°	64.6	73.5	63.2	37.6	3.1	0.5
113°	62.6	73.5	60.6	35.7	2.3	0.5
114°	60.6	70.7	58.7	34.3	1.4	0.5
115°	58.1	67.4	56.7	32.0	1.4	0.3
116°	56.4	65.7	53.9	30.3	1.1	0.3
117°	53.6	62.6	52.2	28.9	1.1	0.3
118°	51.6	60.3	50.2	26.4	0.9	0.5
119°	49.7	58.7	47.7	25.0	0.9	0.3
120°	47.4	55.6	45.8	23.9	0.9	0.3
121°	45.2	52.8	43.8	21.6	0.9	0.5
122°	43.2	50.5	41.0	19.9	0.9	0.5
123°	41.0	47.7	39.3	18.5	0.5	0.3
124°	38.2	45.2	37.1	16.9	0.5	0.3
125°	36.8	43.5	35.3	12.9	0.9	0.3
126°	33.9	40.7	33.7	9.8	0.5	0.5
127°	31.7	37.9	30.9	5.0	0.5	0.5
128°	30.0	36.5	28.6	2.8	0.5	0.3
129°	28.1	32.8	27.0	2.3	0.5	0.5
130°	25.6	30.9	24.4	2.0	0.5	0.5
131°	23.9	29.2	22.2	1.7	0.3	0.5
132°	21.6	26.6	20.5	1.4	0.9	0.5
133°	17.7	23.9	15.1	1.4	0.9	0.5
134°	14.3	22.2	9.8	1.1	0.5	0.5



TEST NUMBER: P571640
 CATALOG NUMBER: 2ST2L20SC3-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	8.4	17.7	6.4	0.9	0.5	0.5
136°	4.2	10.4	3.1	0.9	0.9	0.9
137°	3.1	6.4	2.5	0.9	0.9	0.5
138°	2.8	3.9	2.8	0.9	1.1	0.9
139°	2.3	3.1	2.5	0.9	1.1	0.9
140°	2.0	2.5	1.7	1.1	0.9	0.9
141°	1.7	2.3	1.4	0.9	1.1	0.9
142°	1.4	2.0	1.4	1.1	1.1	1.1
143°	1.1	1.7	1.4	1.1	1.1	1.1
144°	1.4	1.4	1.4	1.4	1.4	1.1
145°	1.4	1.1	1.1	1.4	1.1	1.4
146°	1.4	1.7	1.4	1.4	1.7	1.4
147°	1.4	1.4	1.7	1.7	1.7	1.4
148°	1.4	1.7	2.0	1.7	1.4	1.7
149°	1.4	1.7	1.7	1.7	1.7	1.7
150°	1.7	2.0	1.7	2.0	2.0	2.0
151°	2.0	1.7	2.0	2.0	2.0	2.0
152°	2.0	2.0	2.0	2.3	2.0	1.7
153°	2.0	1.7	2.0	2.3	2.3	2.3
154°	2.0	2.3	2.3	2.0	2.0	2.3
155°	2.0	2.3	2.3	2.3	2.3	2.3
156°	2.0	2.5	2.3	2.5	2.5	2.3
157°	2.3	2.5	2.8	2.5	2.5	2.5
158°	2.5	2.3	2.3	2.5	2.8	2.5
159°	2.5	2.5	2.3	2.5	2.8	2.8
160°	2.3	2.5	2.8	2.8	2.8	2.8
161°	2.8	2.8	2.8	2.8	2.8	2.8
162°	2.5	2.5	2.8	3.1	3.1	3.1
163°	2.8	3.1	3.1	3.1	3.1	3.1
164°	2.8	2.8	3.1	3.1	3.4	3.4
165°	2.5	3.1	3.4	3.4	3.4	3.7
166°	3.1	3.1	3.4	3.4	3.7	3.4
167°	3.1	3.4	3.4	3.7	3.7	3.7
168°	3.4	3.4	3.7	3.7	3.9	3.7
169°	3.7	3.7	3.9	3.9	3.9	3.9
170°	3.7	3.7	3.7	3.7	3.9	3.9
171°	3.7	3.9	3.9	3.7	3.9	4.2
172°	3.7	4.2	3.9	3.9	3.9	4.2
173°	3.9	4.2	3.9	4.2	3.9	4.5
174°	3.9	4.2	4.2	4.2	4.2	4.2
175°	4.2	4.2	4.2	4.2	4.2	4.5
176°	4.2	4.2	3.9	4.2	4.5	4.2
177°	3.9	4.2	4.5	4.2	4.2	4.5
178°	4.2	4.5	4.5	4.5	4.2	4.2
179°	4.5	4.5	4.2	4.2	4.5	4.5



TEST NUMBER: P571640
CATALOG NUMBER: 2ST2L20SC3-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	4.4	4.4	4.4	4.4	4.4	4.4

(END OF REPORT)