

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: METALUX

Report Number: P798328

Luminaire Tested: 4VT3-SL3C3-W-UNV-LOW-3500K

Issue Date: 3/16/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P798328  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P233292)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 4VT3-SL3C3-W-UNV-LOW-3500K  
Description: Vaportite LED Selectable  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

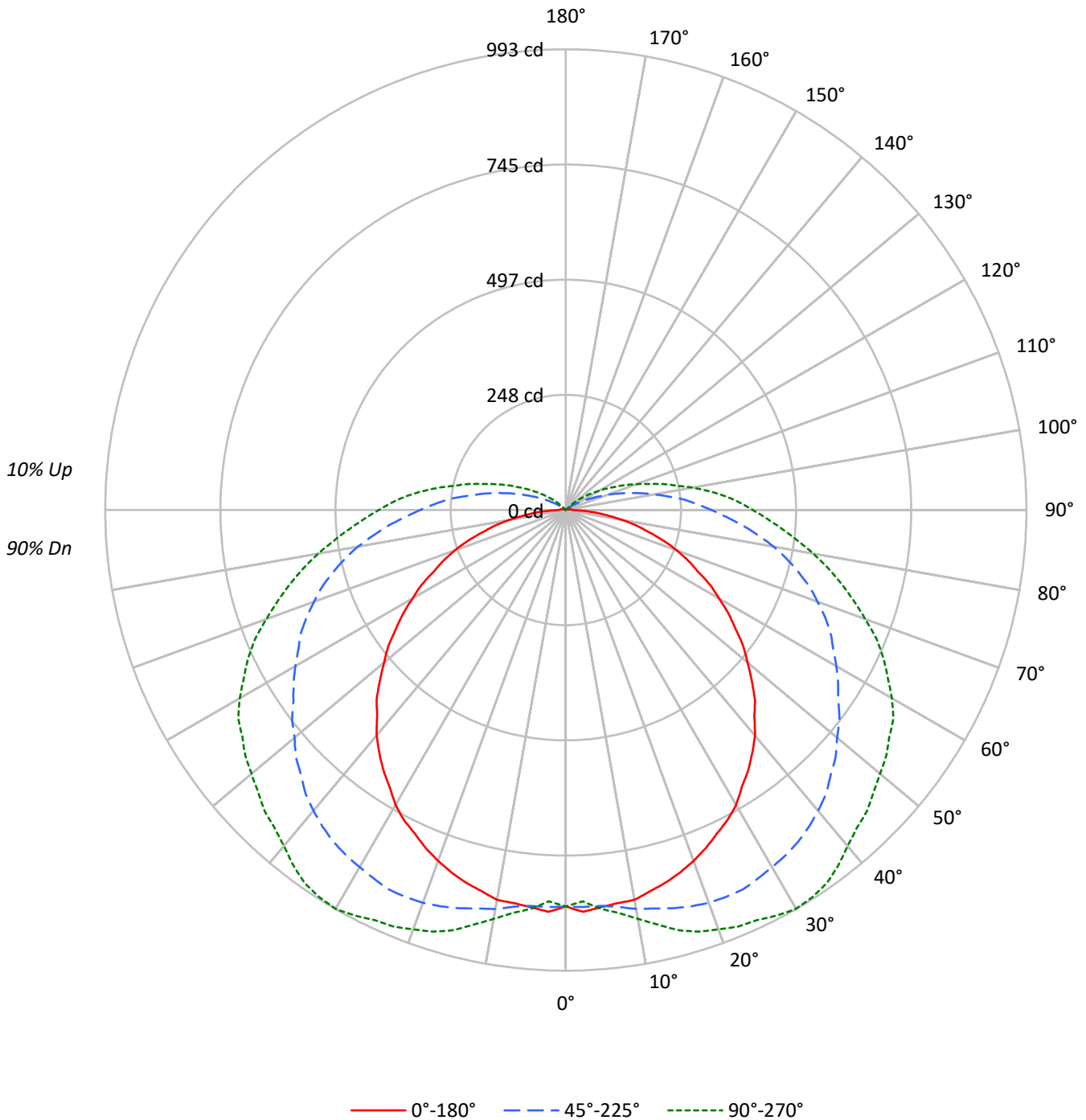
Lumens per Lamp: N/A  
Luminaire Lumens: 4365.5 lumens  
Efficiency: N/A  
Efficacy: 153.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.67 / 1.66  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 28.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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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### 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	50	30	10	0
RCR																					
0	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	93	93	93	90
1	103	96	91	86	99	93	88	83	87	83	79	81	78	74	76	73	70	76	73	70	67
2	92	82	74	67	88	79	72	65	74	67	62	69	64	59	64	60	56	64	60	56	53
3	83	71	61	54	79	68	60	53	64	56	50	59	53	48	55	50	46	55	50	46	43
4	75	62	52	44	72	60	51	44	56	48	42	52	46	40	49	43	38	49	43	38	36
5	69	55	45	38	66	53	44	37	50	42	35	46	40	34	43	38	33	43	38	33	30
6	63	49	39	32	61	47	38	32	44	36	31	42	35	29	39	33	28	39	33	28	26
7	58	44	35	28	56	43	34	28	40	32	27	38	31	26	36	29	25	36	29	25	23
8	54	40	31	25	52	39	30	24	37	29	24	34	28	23	33	26	22	33	26	22	20
9	51	36	28	22	49	35	27	22	33	26	21	32	25	20	30	24	20	30	24	20	18
10	47	33	25	20	45	33	25	19	31	24	19	29	23	18	28	22	18	28	22	18	16

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4599	4599	4599
5°	4643	4627	4661
10°	4662	4772	4891
15°	4632	4951	5224
20°	4609	5159	5510
25°	4572	5361	5792
30°	4562	5524	6169
35°	4503	5737	6448
40°	4456	5945	6639
45°	4389	6145	6986
50°	4281	6393	7406
55°	4193	6726	7991
60°	4108	7251	8737
65°	4001	8027	9624
70°	4008	9083	10809
75°	3874	10807	12791
80°	3840	14111	16795
85°	3915	23651	28906

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 87.5°  
 Luminance: 53574 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.5	1.9
10°-20°	251.4	5.8
20°-30°	410.5	9.4
30°-40°	534.9	12.3
40°-50°	600.4	13.8
50°-60°	613.9	14.1
60°-70°	576.5	13.2
70°-80°	487.3	11.2
80°-90°	360.8	8.3
90°-100°	236.1	5.4
100°-110°	130.2	3.0
110°-120°	59.0	1.4
120°-130°	19.7	0.5
130°-140°	2.4	0.1
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	744.3	17.1
0°-40°	1279.2	29.3
0°-60°	2493.5	57.1
0°-90°	3918.1	89.8
90°-120°	425.3	9.7
90°-150°	447.4	10.2
90°-180°	447.0	10.2
0°-180°	4365.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	855	855	855	855	855	
5°	859	858	856	863	863	82
15°	831	851	888	928	938	235
25°	770	819	903	962	975	356
35°	685	753	873	964	981	429
45°	577	663	807	893	918	443
55°	447	552	717	822	852	401
65°	314	434	630	733	756	314
75°	186	326	520	599	615	199
85°	63	220	383	454	468	64
90°	16	164	314	386	403	11
95°	12	118	256	322	345	9
105°	6	36	141	199	216	7
115°	3	3	59	108	119	3
125°	1	1	12	44	54	1
135°	0	0	0	3	8	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P798328

CATALOG NUMBER: 4VT3-SL3C3-W-UNV-LOW-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6
2.5°	866.8	856.4	856.9	855.6	855.6	861.4	859.9	855.9	856.9	855.1	856.4
5°	859.4	854.6	855.1	857.9	857.4	858.4	859.4	856.9	861.4	859.9	856.4
7.5°	854.6	850.6	851.6	847.7	855.6	857.4	857.4	855.9	860.4	861.9	862.3
10°	853.1	845.7	848.7	842.7	850.6	859.4	857.9	863.3	866.8	870.2	873.2
12.5°	841.3	838.3	836.8	841.3	852.1	858.9	854.6	858.4	867.8	874.2	879.6
15°	831.4	830.4	829.9	834.4	839.3	851.1	852.6	862.8	875.6	879.1	888.5
17.5°	819.1	816.1	818.1	821.6	837.3	844.7	851.6	858.9	876.6	883.5	895.8
20°	804.8	802.9	809.2	813.7	828.5	837.3	845.7	857.4	870.7	887.5	900.8
22.5°	788.7	787.7	793.1	802.0	821.1	829.4	835.4	851.6	872.2	886.0	902.7
25°	769.9	769.9	775.8	790.1	812.7	818.6	828.0	842.2	861.4	879.1	902.7
27.5°	754.2	754.2	759.6	773.9	792.6	808.3	820.1	830.4	855.6	875.2	895.8
30°	734.1	736.5	741.0	754.2	777.3	791.1	802.0	822.1	846.2	867.8	888.9
32.5°	707.0	708.0	719.3	735.6	759.1	772.9	787.7	807.8	839.3	852.6	882.1
35°	685.4	685.4	695.8	712.4	742.9	753.2	767.5	791.1	819.1	843.2	873.2
37.5°	660.3	660.8	674.6	697.2	721.3	734.6	748.4	774.4	802.4	827.5	860.9
40°	634.3	638.2	645.1	667.7	696.2	712.4	724.2	753.7	789.6	814.2	846.2
42.5°	601.8	606.2	618.5	641.7	669.1	691.8	706.0	732.1	765.5	798.5	830.4
45°	576.7	579.2	591.0	614.1	645.1	662.7	677.0	709.9	744.9	777.3	807.3
47.5°	543.3	548.7	560.5	586.6	619.5	639.2	651.4	683.9	721.3	752.2	789.1
50°	511.3	515.8	532.5	556.0	592.5	609.2	625.9	658.3	700.6	733.6	763.5
52.5°	482.4	485.8	500.5	528.6	560.5	582.6	595.9	633.8	675.6	708.5	743.9
55°	446.9	455.3	470.0	498.0	534.5	552.1	564.9	604.7	647.1	685.4	716.8
57.5°	416.0	424.3	439.6	469.1	504.4	521.2	541.4	580.7	619.5	659.8	695.8
60°	381.6	390.3	407.6	440.1	475.5	492.7	509.8	552.6	594.5	632.3	673.6
62.5°	351.5	357.9	378.6	405.6	442.0	462.2	481.4	523.6	573.3	612.1	649.9
65°	314.2	327.5	346.1	378.1	414.0	433.7	454.8	498.0	542.4	585.6	630.3
67.5°	285.6	293.5	315.7	345.6	384.0	407.6	426.8	475.5	520.2	562.9	605.2
70°	254.7	262.1	283.7	315.7	356.0	376.6	402.7	448.9	498.5	538.9	577.2
72.5°	222.3	231.1	251.7	284.7	329.0	353.0	375.2	424.8	476.0	512.8	551.1
75°	186.3	199.6	223.7	255.7	300.9	326.5	348.6	401.2	446.9	484.8	519.7
77.5°	156.4	166.7	193.7	233.1	278.8	301.9	325.5	375.7	420.9	455.8	488.3
80°	123.9	138.1	162.3	203.5	249.7	273.9	298.4	345.6	389.0	423.8	455.3
82.5°	91.9	104.7	134.7	177.5	224.7	247.8	268.5	314.7	356.4	391.3	418.4
85°	63.4	75.3	108.7	151.9	196.6	219.8	240.4	287.1	325.0	354.0	383.0
87.5°	35.4	51.1	85.5	126.4	170.6	192.7	211.4	255.2	290.5	321.6	346.6
90°	16.3	32.4	63.0	102.3	143.1	164.2	183.8	223.2	259.6	286.6	313.7
92.5°	13.8	19.7	46.7	82.1	121.5	140.6	160.3	197.1	229.2	259.6	283.7
95°	12.3	13.3	30.4	63.4	98.3	117.5	135.2	170.6	201.1	229.7	256.2
97.5°	10.8	10.8	18.7	44.7	78.1	93.9	110.6	145.0	173.6	200.6	223.7
100°	8.9	9.4	10.8	29.0	56.6	71.8	88.5	118.5	147.0	172.6	193.2
102.5°	7.9	7.9	8.4	17.7	38.8	52.6	67.4	93.9	122.5	145.0	167.2
105°	6.4	6.9	6.9	9.4	26.0	36.4	48.7	74.3	97.8	120.5	140.6
107.5°	5.4	5.4	5.4	5.9	15.8	23.6	33.4	54.1	76.7	98.3	117.0
110°	4.4	4.4	4.4	4.9	7.4	13.8	21.7	38.3	58.0	78.6	94.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	3.4	3.9	3.9	3.9	4.4	6.4	12.3	27.5	42.3	60.0	75.3
115°	3.0	3.0	3.0	3.0	3.4	3.4	4.9	16.3	30.4	44.2	59.0
117.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	7.9	20.2	31.9	44.2
120°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	10.8	22.2	31.9
122.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	12.3	21.7
125°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	3.9	12.3
127.5°	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0	4.4
130°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.5
132.5°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6	854.6
2.5°	848.2	852.1	856.9	858.9	855.1	858.4	858.4	853.6	854.1	844.2
5°	852.6	859.9	866.8	862.8	863.3	862.8	868.3	864.3	862.8	862.8
7.5°	864.3	870.7	872.2	876.6	876.1	881.1	876.6	880.6	879.1	875.6
10°	876.6	879.6	883.5	895.4	896.3	894.4	901.8	895.8	896.3	894.9
12.5°	882.5	899.3	899.8	911.5	909.0	916.4	917.4	919.4	919.9	915.0
15°	896.8	908.6	917.9	927.8	927.8	933.7	939.1	938.6	939.1	937.6
17.5°	906.2	924.3	930.7	939.1	942.5	948.9	951.9	956.8	955.4	952.9
20°	913.0	926.8	941.1	949.9	948.5	956.3	964.1	956.3	961.7	962.1
22.5°	911.0	932.7	943.0	954.4	958.8	961.7	968.1	974.0	974.0	971.5
25°	912.5	931.2	947.0	958.3	961.7	968.6	976.9	978.9	981.9	975.4
27.5°	910.0	931.7	948.5	960.7	960.7	975.4	978.9	987.3	989.7	985.3
30°	911.0	930.2	946.0	965.6	970.0	977.9	986.8	992.7	991.7	992.7
32.5°	904.2	926.3	944.5	965.6	972.5	976.9	987.3	988.3	987.3	989.2
35°	892.4	919.4	947.0	958.3	964.1	973.0	975.4	980.4	988.7	981.4
37.5°	885.0	911.5	926.3	944.0	950.4	957.8	963.1	964.1	965.6	965.1
40°	871.2	896.3	909.5	927.8	930.2	942.1	938.6	943.5	948.0	945.0
42.5°	856.4	876.6	894.4	907.2	913.0	915.9	925.3	927.3	932.7	929.2
45°	833.4	855.1	874.2	888.0	892.9	902.7	907.2	910.5	915.9	917.9
47.5°	814.7	836.3	855.9	876.1	875.2	886.5	894.9	893.4	897.8	899.8
50°	789.6	816.1	840.3	854.6	859.4	870.2	873.7	883.5	888.0	884.5
52.5°	769.4	798.5	813.7	837.3	843.2	852.1	861.9	862.8	872.2	870.7
55°	748.9	774.9	799.5	814.7	821.6	832.9	839.8	843.7	847.7	851.6
57.5°	722.7	756.1	776.8	796.0	803.4	810.7	821.1	826.0	834.4	837.3
60°	702.5	737.0	754.2	776.3	783.7	792.1	799.5	803.8	810.2	811.7
62.5°	681.0	711.9	733.1	753.7	760.6	767.5	775.8	783.2	785.7	782.3
65°	655.8	687.4	706.5	727.2	732.6	745.9	743.4	750.8	753.7	755.7
67.5°	632.3	667.2	682.0	694.3	707.0	705.5	715.4	714.9	720.8	724.7
70°	604.2	631.8	645.6	663.7	667.2	671.6	679.5	681.5	684.9	686.9
72.5°	575.3	603.7	616.0	628.9	637.2	636.7	642.2	646.1	650.4	650.9
75°	546.7	565.4	580.7	593.0	599.3	600.3	607.2	606.2	616.5	615.1
77.5°	513.8	534.5	544.3	556.5	562.0	567.4	570.8	573.8	575.3	579.2
80°	475.0	499.5	506.9	520.2	524.1	530.0	531.5	537.9	540.4	541.9
82.5°	442.0	458.2	469.5	482.8	491.7	490.7	497.0	501.0	503.9	503.9
85°	405.1	423.8	434.2	445.9	454.3	455.8	462.2	462.2	466.1	468.1
87.5°	366.8	389.4	397.7	410.5	419.9	418.4	422.8	428.8	430.7	434.2
90°	332.9	351.0	364.8	377.1	385.5	386.5	391.3	396.2	397.2	403.1
92.5°	305.3	320.6	335.4	348.1	351.0	355.0	359.4	367.3	368.8	374.7
95°	273.4	292.0	303.8	316.6	321.6	324.5	329.5	335.4	340.2	344.6
97.5°	244.3	261.1	273.9	283.7	290.5	292.5	298.9	302.9	306.3	311.2
100°	213.4	228.2	241.9	253.2	258.6	260.1	267.0	269.9	272.9	277.3
102.5°	184.8	202.6	210.4	222.8	227.2	229.7	234.5	240.9	241.4	242.9
105°	155.9	173.1	184.3	193.2	198.6	200.6	205.5	212.4	212.9	216.4
107.5°	133.2	148.0	159.3	168.7	174.1	176.1	180.0	182.4	185.8	186.8
110°	111.1	124.4	135.7	143.5	148.0	151.9	156.4	160.3	162.3	162.8





TEST NUMBER: P798328  
 CATALOG NUMBER: 4VT3-SL3C3-W-UNV-LOW-3500K

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	89.9	102.8	112.6	122.5	126.4	129.4	133.7	138.6	141.1	141.1
115°	72.3	84.0	94.4	102.3	107.7	109.2	113.1	117.0	119.0	119.0
117.5°	55.6	67.9	77.2	84.0	88.0	89.9	94.9	98.8	100.3	101.3
120°	42.3	52.1	61.0	68.4	70.8	74.3	77.7	81.1	83.1	83.1
122.5°	30.9	39.8	46.2	52.6	57.0	58.0	62.5	66.4	67.4	68.4
125°	21.2	28.5	34.9	40.3	43.7	44.7	48.2	51.6	52.6	53.6
127.5°	10.8	18.2	24.1	29.5	31.9	33.9	36.8	39.8	40.8	41.3
130°	3.0	8.4	14.3	19.2	21.2	22.7	26.0	28.0	30.0	29.5
132.5°	0.0	1.5	4.9	9.4	10.8	12.8	15.8	17.7	18.7	19.7
135°	0.0	0.0	0.5	2.0	3.0	3.9	5.9	8.4	8.4	8.4
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)