

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: P798327

Luminaire Tested: 4VT3-SL3C3-W-UNV-LOW-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798327
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-3000K
Description: Vaportite LED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

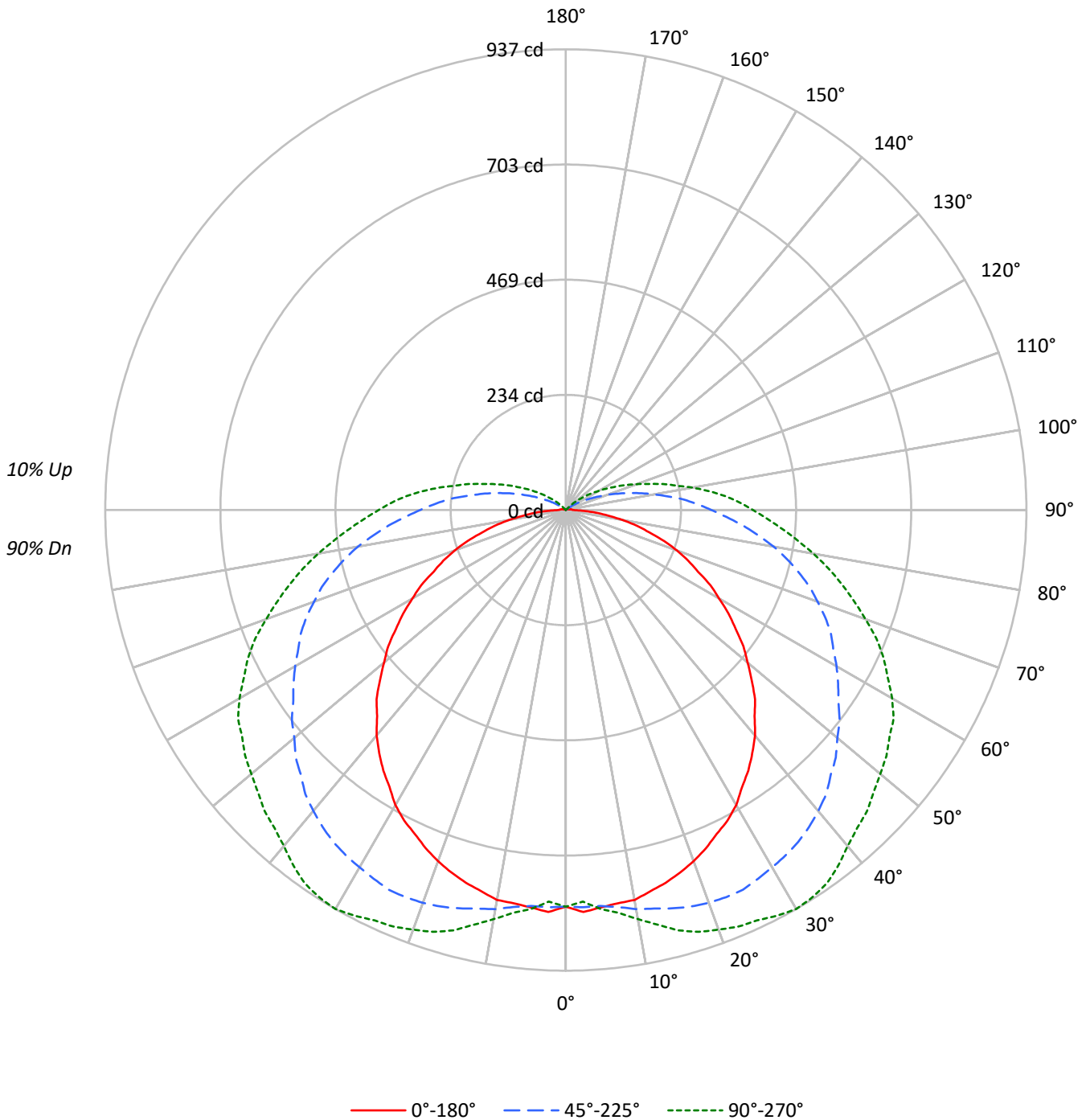
Lumens per Lamp: N/A
Luminaire Lumens: 4121.1 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.67 / 1.66
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 29.3
Input Voltage (V): 120
Input Current (A_{in}): 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°	4342	4342	4342
5°	4383	4368	4400
10°	4401	4505	4617
15°	4373	4673	4932
20°	4352	4870	5202
25°	4316	5061	5468
30°	4307	5215	5824
35°	4251	5416	6087
40°	4207	5612	6268
45°	4144	5801	6595
50°	4042	6035	6991
55°	3959	6350	7543
60°	3877	6845	8248
65°	3777	7577	9084
70°	3783	8574	10203
75°	3658	10202	12073
80°	3626	13321	15853
85°	3699	22329	27288

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 50575 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	1.9
10°-20°	237.3	5.8
20°-30°	387.5	9.4
30°-40°	504.9	12.3
40°-50°	566.8	13.8
50°-60°	579.5	14.1
60°-70°	544.2	13.2
70°-80°	460.0	11.2
80°-90°	340.6	8.3
90°-100°	222.9	5.4
100°-110°	122.9	3.0
110°-120°	55.7	1.4
120°-130°	18.6	0.5
130°-140°	2.3	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°	702.7	17.1
0°-40°	1207.6	29.3
0°-60°	2353.9	57.1
0°-90°	3698.7	89.8
90°-120°	401.5	9.7
90°-150°	422.3	10.2
90°-180°	422.0	10.2
0°-180°	4121.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	807	807	807	807	807	
5°	811	810	808	815	814	77
15°	785	804	839	876	885	222
25°	727	773	852	908	921	336
35°	647	711	824	910	926	405
45°	544	626	762	843	866	418
55°	422	521	677	776	804	378
65°	297	409	595	692	713	297
75°	176	308	491	566	581	188
85°	60	208	362	429	442	60
90°	15	155	296	364	381	11
95°	12	111	242	304	325	9
105°	6	34	133	188	204	7
115°	3	3	56	102	112	3
125°	1	1	12	41	51	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	806.7	806.7	806.7	806.7	806.7	806.7	806.7	806.7	806.7	806.7	806.7
2.5°	818.3	808.5	809.0	807.7	807.7	813.1	811.7	808.0	809.0	807.2	808.5
5°	811.3	806.7	807.2	809.9	809.4	810.4	811.3	809.0	813.1	811.7	808.5
7.5°	806.7	803.0	803.9	800.2	807.7	809.4	809.4	808.0	812.2	813.6	814.1
10°	805.3	798.4	801.1	795.6	803.0	811.3	809.9	815.0	818.3	821.5	824.3
12.5°	794.2	791.4	790.0	794.2	804.4	810.8	806.7	810.4	819.2	825.2	830.3
15°	784.9	783.9	783.5	787.7	792.3	803.5	804.9	814.5	826.6	829.9	838.7
17.5°	773.2	770.5	772.3	775.6	790.5	797.4	803.9	810.8	827.6	834.1	845.7
20°	759.8	758.0	763.9	768.1	782.1	790.5	798.4	809.4	822.0	837.8	850.3
22.5°	744.5	743.6	748.7	757.1	775.1	783.0	788.6	803.9	823.4	836.4	852.2
25°	726.8	726.8	732.4	745.9	767.2	772.8	781.6	795.1	813.1	829.9	852.2
27.5°	712.0	712.0	717.1	730.6	748.2	763.0	774.2	783.9	807.7	826.2	845.7
30°	693.0	695.3	699.5	712.0	733.8	746.8	757.1	776.0	798.8	819.2	839.2
32.5°	667.4	668.3	679.0	694.4	716.6	729.6	743.6	762.5	792.3	804.9	832.7
35°	647.0	647.0	656.8	672.5	701.4	711.0	724.5	746.8	773.2	796.0	824.3
37.5°	623.3	623.8	636.8	658.2	680.9	693.4	706.5	731.0	757.5	781.1	812.7
40°	598.8	602.5	609.0	630.3	657.3	672.5	683.7	711.5	745.4	768.6	798.8
42.5°	568.1	572.3	583.9	605.7	631.7	653.1	666.5	691.1	722.6	753.8	783.9
45°	544.5	546.8	557.9	579.7	609.0	625.6	639.1	670.2	703.2	733.8	762.1
47.5°	512.9	517.9	529.1	553.8	584.8	603.4	614.9	645.6	680.9	710.1	745.0
50°	482.7	486.9	502.7	524.9	559.3	575.1	590.9	621.5	661.4	692.5	720.8
52.5°	455.4	458.6	472.5	499.0	529.1	550.0	562.6	598.3	637.7	668.8	702.3
55°	421.9	429.8	443.7	470.1	504.6	521.2	533.3	570.9	610.9	647.0	676.7
57.5°	392.7	400.6	415.0	442.8	476.2	492.0	511.1	548.2	584.8	622.9	656.8
60°	360.2	368.5	384.8	415.5	448.8	465.1	481.3	521.7	561.2	596.9	635.9
62.5°	331.8	337.9	357.4	382.9	417.2	436.3	454.4	494.3	541.2	577.8	613.6
65°	296.6	309.1	326.7	357.0	390.8	409.4	429.3	470.1	512.0	552.8	595.0
67.5°	269.6	277.1	298.0	326.3	362.5	384.8	402.9	448.8	491.1	531.4	571.3
70°	240.4	247.4	267.9	298.0	336.0	355.6	380.1	423.7	470.6	508.7	544.9
72.5°	209.8	218.2	237.6	268.8	310.5	333.2	354.2	401.0	449.3	484.1	520.3
75°	175.9	188.4	211.2	241.3	284.0	308.2	329.1	378.7	421.9	457.7	490.6
77.5°	147.6	157.4	182.8	220.1	263.2	285.0	307.3	354.6	397.3	430.2	460.9
80°	117.0	130.4	153.2	192.1	235.8	258.6	281.7	326.3	367.2	400.1	429.8
82.5°	86.8	98.9	127.1	167.6	212.1	233.9	253.4	297.1	336.5	369.4	395.0
85°	59.9	71.1	102.6	143.4	185.6	207.5	226.9	271.0	306.8	334.2	361.6
87.5°	33.4	48.3	80.7	119.3	161.1	181.9	199.6	240.9	274.3	303.6	327.2
90°	15.3	30.6	59.4	96.5	135.0	155.0	173.5	210.7	245.1	270.6	296.1
92.5°	13.0	18.6	44.1	77.5	114.7	132.7	151.3	186.1	216.3	245.1	267.9
95°	11.6	12.6	28.7	59.9	92.8	111.0	127.6	161.1	189.8	216.8	241.8
97.5°	10.2	10.2	17.7	42.2	73.8	88.6	104.4	136.9	163.9	189.4	211.2
100°	8.4	8.8	10.2	27.3	53.4	67.8	83.5	111.9	138.8	162.9	182.4
102.5°	7.4	7.4	7.9	16.7	36.6	49.7	63.6	88.6	115.6	136.9	157.8
105°	6.0	6.5	6.5	8.8	24.6	34.3	45.9	70.1	92.4	113.7	132.7
107.5°	5.1	5.1	5.1	5.6	14.9	22.3	31.5	51.1	72.5	92.8	110.5
110°	4.2	4.2	4.2	4.7	7.0	13.0	20.5	36.2	54.8	74.2	89.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	3.3	3.7	3.7	3.7	4.2	6.0	11.6	25.9	39.9	56.6	71.1
115°	2.8	2.8	2.8	2.8	3.3	3.3	4.7	15.3	28.7	41.8	55.7
117.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	7.4	19.1	30.1	41.8
120°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8	10.2	20.9	30.1
122.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	11.6	20.5
125°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	3.7	11.6
127.5°	0.9	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.9	4.2
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°	806.7	806.7	806.7	806.7	806.7	806.7	806.7	806.7	806.7	806.7
2.5°	800.7	804.4	809.0	810.8	807.2	810.4	810.4	805.8	806.3	797.0
5°	804.9	811.7	818.3	814.5	815.0	814.5	819.7	815.9	814.5	814.5
7.5°	815.9	822.0	823.4	827.6	827.1	831.7	827.6	831.3	829.9	826.6
10°	827.6	830.3	834.1	845.2	846.2	844.3	851.3	845.7	846.2	844.8
12.5°	833.1	849.0	849.4	860.5	858.2	865.1	866.1	867.9	868.4	863.7
15°	846.6	857.7	866.5	875.8	875.8	881.4	886.5	886.1	886.5	885.1
17.5°	855.5	872.6	878.6	886.5	889.8	895.8	898.6	903.3	901.9	899.5
20°	861.9	874.9	888.4	896.8	895.4	902.8	910.1	902.8	907.8	908.3
22.5°	860.0	880.5	890.2	900.9	905.1	907.8	913.9	919.4	919.4	917.1
25°	861.4	879.1	894.0	904.7	907.8	914.3	922.2	924.1	926.9	920.8
27.5°	859.1	879.5	895.4	906.9	906.9	920.8	924.1	932.0	934.3	930.1
30°	860.0	878.2	893.0	911.5	915.7	923.2	931.5	937.1	936.2	937.1
32.5°	853.6	874.4	891.6	911.5	918.1	922.2	932.0	932.9	932.0	933.9
35°	842.4	867.9	894.0	904.7	910.1	918.5	920.8	925.5	933.4	926.4
37.5°	835.5	860.5	874.4	891.2	897.2	904.2	909.2	910.1	911.5	911.1
40°	822.4	846.2	858.6	875.8	878.2	889.3	886.1	890.7	894.9	892.1
42.5°	808.5	827.6	844.3	856.4	861.9	864.7	873.5	875.4	880.5	877.2
45°	786.7	807.2	825.2	838.3	842.9	852.2	856.4	859.6	864.7	866.5
47.5°	769.1	789.5	808.0	827.1	826.2	836.9	844.8	843.4	847.6	849.4
50°	745.4	770.5	793.2	806.7	811.3	821.5	824.8	834.1	838.3	835.0
52.5°	726.4	753.8	768.1	790.5	796.0	804.4	813.6	814.5	823.4	822.0
55°	706.9	731.5	754.7	769.1	775.6	786.3	792.8	796.5	800.2	803.9
57.5°	682.3	713.8	733.3	751.5	758.5	765.3	775.1	779.8	787.7	790.5
60°	663.2	695.8	712.0	732.9	739.9	747.8	754.7	758.8	764.9	766.3
62.5°	642.9	672.1	692.1	711.5	718.0	724.5	732.4	739.4	741.7	738.5
65°	619.1	648.9	666.9	686.5	691.6	704.1	701.8	708.8	711.5	713.3
67.5°	596.9	629.8	643.8	655.4	667.4	666.0	675.3	674.8	680.4	684.1
70°	570.4	596.4	609.5	626.6	629.8	634.0	641.5	643.3	646.6	648.4
72.5°	543.1	569.9	581.6	593.7	601.6	601.1	606.2	609.9	614.0	614.5
75°	516.1	533.8	548.2	559.8	565.7	566.7	573.2	572.3	582.0	580.6
77.5°	485.0	504.6	513.9	525.4	530.5	535.6	538.9	541.7	543.1	546.8
80°	448.4	471.5	478.5	491.1	494.8	500.4	501.8	507.8	510.1	511.5
82.5°	417.2	432.6	443.3	455.8	464.2	463.3	469.2	472.9	475.7	475.7
85°	382.4	400.1	409.9	420.9	428.8	430.2	436.3	436.3	440.0	441.9
87.5°	346.3	367.6	375.5	387.6	396.4	395.0	399.2	404.8	406.6	409.9
90°	314.3	331.4	344.4	356.0	363.9	364.9	369.4	374.1	375.0	380.6
92.5°	288.2	302.6	316.6	328.6	331.4	335.1	339.3	346.7	348.1	353.7
95°	258.1	275.7	286.8	298.9	303.6	306.4	311.0	316.6	321.1	325.3
97.5°	230.7	246.5	258.6	267.9	274.3	276.1	282.2	285.9	289.2	293.8
100°	201.4	215.4	228.3	239.0	244.1	245.5	252.0	254.8	257.6	261.8
102.5°	174.5	191.2	198.7	210.3	214.5	216.8	221.4	227.4	227.9	229.3
105°	147.1	163.4	174.0	182.4	187.5	189.4	194.0	200.5	201.0	204.2
107.5°	125.7	139.7	150.4	159.2	164.3	166.2	169.9	172.2	175.4	176.3
110°	104.9	117.5	128.1	135.5	139.7	143.4	147.6	151.3	153.2	153.6



TEST NUMBER: P798327
 CATALOG NUMBER: 4VT3-SL3C3-W-UNV-LOW-3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	84.9	97.0	106.3	115.6	119.3	122.1	126.2	130.9	133.2	133.2
115°	68.3	79.3	89.1	96.5	101.7	103.0	106.8	110.5	112.4	112.4
117.5°	52.5	64.1	72.9	79.3	83.1	84.9	89.6	93.3	94.7	95.6
120°	39.9	49.2	57.6	64.5	66.9	70.1	73.4	76.5	78.4	78.4
122.5°	29.2	37.6	43.6	49.7	53.8	54.8	59.0	62.7	63.6	64.5
125°	20.0	26.9	32.9	38.0	41.3	42.2	45.5	48.7	49.7	50.6
127.5°	10.2	17.2	22.8	27.8	30.1	32.0	34.8	37.6	38.5	39.0
130°	2.8	7.9	13.5	18.1	20.0	21.4	24.6	26.4	28.3	27.8
132.5°	0.0	1.4	4.7	8.8	10.2	12.1	14.9	16.7	17.7	18.6
135°	0.0	0.0	0.5	1.9	2.8	3.7	5.6	7.9	7.9	7.9
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)