

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: P236621

Luminaire Tested: **VRVT4LED-LD5-24-DR-UNV-L850-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4LED-LD5-24-DR-UNV-L850-CD2-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
10 BOARDS WITH CLEAR ACRYLIC LENS
Light Source: (560) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24975.0 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.17 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

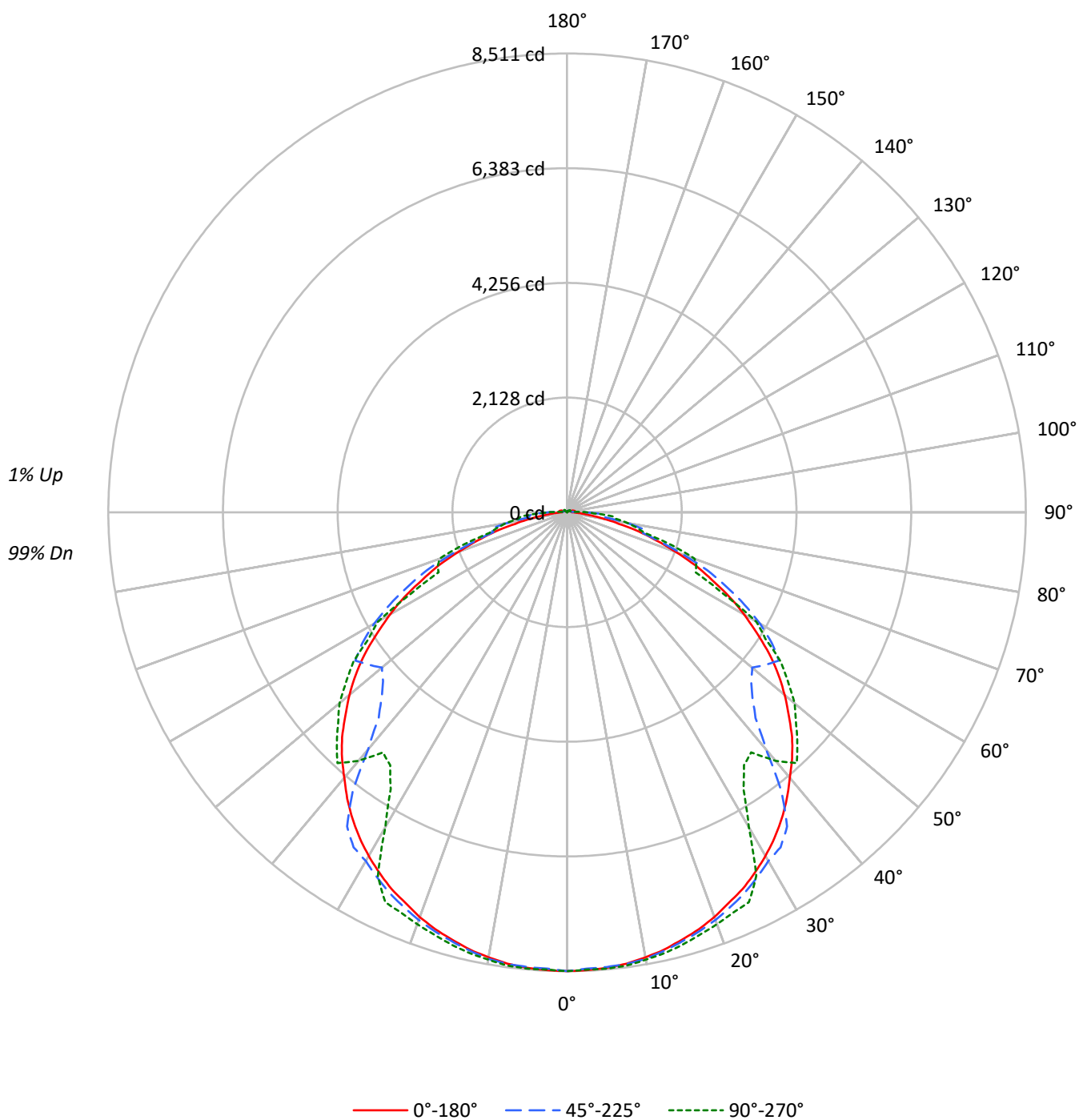
Input Watts (W): 179.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		110	110	110		105	105	105		101	101	101
1	108	103	99	95	105	101	97	93		96	93	90		92	89	87		88	86	84
2	98	90	83	77	95	88	81	76		84	79	74		80	76	72		77	74	70
3	89	79	71	64	87	77	69	63		74	67	62		71	65	61		68	63	59
4	82	70	61	54	79	68	60	54		66	58	53		63	57	52		61	55	51
5	75	62	53	47	73	61	53	46		59	51	46		57	50	45		55	49	44
6	69	56	47	41	67	55	47	40		53	45	40		51	44	39		49	44	39
7	64	51	42	36	63	50	42	36		48	41	35		47	40	35		45	39	35
8	60	46	38	32	58	46	37	32		44	37	31		43	36	31		41	35	31
9	56	43	34	29	54	42	34	29		41	33	28		39	33	28		38	32	28
10	52	39	31	26	51	39	31	26		38	31	26		36	30	26		36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21320	21320	21320
5°	21215	20897	20920
10°	21092	20617	20561
15°	20949	20221	20224
20°	20836	19911	19929
25°	20721	19592	19837
30°	20571	19244	17130
35°	20363	18939	14987
40°	20011	15932	16371
45°	19718	14197	17258
50°	19154	13939	16704
55°	18415	16060	15750
60°	17198	15139	14347
65°	15560	13275	10297
70°	13445	10594	11114
75°	10894	7634	7641
80°	7548	7272	6984
85°	4680	5944	6541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	807.0	3.2
10°-20°	2332.4	9.3
20°-30°	3585.4	14.4
30°-40°	4113.1	16.5
40°-50°	4376.7	17.5
50°-60°	4090.9	16.4
60°-70°	2970.6	11.9
70°-80°	1663.2	6.7
80°-90°	664.8	2.7
90°-100°	158.4	0.6
100°-110°	85.9	0.3
110°-120°	54.9	0.2
120°-130°	39.9	0.2
130°-140°	21.1	0.1
140°-150°	6.5	0.0
150°-160°	2.2	0.0
160°-170°	1.5	0.0
170°-180°	0.6	0.0
0°-30°	6724.8	26.9
0°-40°	10837.9	43.4
0°-60°	19305.6	77.3
0°-90°	24604.0	98.5
90°-120°	299.2	1.2
90°-150°	366.7	1.5
90°-180°	371.0	1.5
0°-180°	24975.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8511	8511	8511	8511	8511	
5°	8482	8468	8465	8490	8494	807
15°	8209	8256	8241	8286	8300	2320
25°	7709	7736	7791	7889	7980	3551
35°	6941	6955	7115	5808	5724	4338
45°	5903	5969	4859	6027	6040	4539
55°	4581	4451	4794	4841	4842	4076
65°	2966	2543	3260	2883	2631	2948
75°	1380	1499	1414	1770	1497	1455
85°	276	416	709	835	852	316
90°	92	244	343	381	358	60
95°	116	122	103	105	104	103
105°	119	98	73	71	67	125
115°	56	59	52	50	52	58
125°	26	24	68	68	64	24
135°	11	9	36	25	45	9
145°	6	5	5	9	10	4
155°	5	5	5	4	2	2
165°	6	6	6	5	2	2
175°	7	7	7	6	4	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	8510.6	8510.6	8510.6	8510.6	8510.6	8510.6	8510.6	8510.6	8510.6	8510.6	8510.6
2.5°	8499.2	8495.0	8495.0	8496.1	8488.8	8484.6	8484.6	8465.9	8456.5	8462.8	8472.1
5°	8481.5	8488.8	8484.6	8483.6	8471.1	8468.0	8463.8	8446.1	8436.8	8450.3	8464.9
7.5°	8445.1	8445.1	8444.1	8444.1	8438.9	8435.7	8439.9	8431.6	8425.3	8434.7	8450.3
10°	8380.6	8387.9	8384.8	8390.0	8382.7	8385.8	8383.7	8377.5	8385.8	8397.3	8408.7
12.5°	8310.9	8310.9	8310.9	8326.5	8328.6	8333.8	8339.0	8325.5	8317.2	8315.1	8329.7
15°	8209.0	8208.0	8232.9	8248.5	8251.6	8255.8	8246.4	8232.9	8230.8	8238.1	8241.2
17.5°	8112.3	8111.2	8121.6	8133.1	8145.6	8138.3	8127.9	8128.9	8128.9	8130.0	8149.7
20°	7988.5	7980.2	8017.6	8018.7	8004.1	8002.0	8006.2	8012.4	8012.4	8028.0	8046.8
22.5°	7838.8	7854.4	7874.1	7877.2	7874.1	7874.1	7864.8	7888.7	7887.6	7896.0	7922.0
25°	7708.7	7711.9	7704.6	7710.8	7722.3	7735.8	7717.1	7736.8	7749.3	7762.8	7790.9
27.5°	7540.3	7540.3	7530.9	7552.7	7556.9	7563.1	7557.9	7580.8	7595.4	7607.9	7634.9
30°	7360.3	7355.1	7354.1	7382.2	7371.8	7397.8	7386.3	7393.6	7421.7	7426.9	7469.5
32.5°	7161.7	7147.1	7154.4	7178.3	7180.4	7190.8	7172.1	7190.8	7223.1	7268.8	7367.6
35°	6941.2	6935.0	6941.2	6946.4	6961.0	6954.7	6953.7	6990.1	7027.5	7147.1	7114.9
37.5°	6697.8	6690.6	6714.5	6717.6	6735.3	6720.7	6731.1	6774.8	6888.2	6886.1	6540.8
40°	6430.5	6475.3	6457.6	6468.0	6478.4	6486.7	6500.2	6583.4	6657.3	6325.5	5741.0
42.5°	6179.9	6180.9	6199.7	6214.2	6225.7	6234.0	6258.9	6356.7	6168.5	5560.0	5173.1
45°	5903.2	5901.2	5911.6	5915.7	5945.9	5968.8	6053.0	6004.1	5465.4	4987.0	4859.1
47.5°	5576.7	5584.0	5621.4	5640.1	5648.4	5735.8	5750.4	5456.0	4818.5	4617.8	4632.3
50°	5269.9	5301.1	5297.9	5320.8	5403.0	5448.8	5366.6	4705.1	4355.7	4384.8	4482.6
52.5°	4940.2	4957.9	4944.3	4989.1	5074.3	5033.8	4786.2	4177.8	4095.7	4170.5	4643.8
55°	4581.4	4560.6	4614.6	4655.2	4659.4	4451.4	4082.1	3816.9	3842.9	4097.7	4793.5
57.5°	4175.7	4201.7	4226.7	4301.6	4160.1	3804.5	3562.1	3529.9	3588.1	4365.0	4498.2
60°	3793.0	3807.6	3855.4	3911.6	3506.0	3258.4	3182.5	3214.8	3577.7	4226.7	4134.1
62.5°	3402.0	3432.1	3463.3	3437.3	2914.2	2878.8	2886.1	2952.7	3694.2	3777.4	3711.9
65°	2966.2	3010.9	3061.9	2886.1	2536.6	2542.9	2551.2	2858.0	3353.1	3304.2	3260.5
67.5°	2584.5	2599.1	2629.2	2309.9	2199.7	2208.0	2236.1	2894.4	2948.5	2902.7	2822.7
70°	2141.4	2186.2	2183.0	1858.5	1876.2	1879.3	1994.8	2557.4	2489.8	2439.9	2291.2
72.5°	1738.9	1777.4	1668.2	1534.1	1540.3	1601.7	2003.1	2070.7	1989.6	1873.1	1807.6
75°	1380.1	1377.0	1225.2	1192.9	1235.6	1498.7	1702.5	1541.3	1484.1	1489.3	1414.4
77.5°	980.8	1027.6	899.6	905.9	1047.3	1251.2	1201.2	1134.7	1189.8	1135.7	1457.1
80°	703.1	704.1	641.7	660.4	860.1	844.5	843.5	870.5	867.4	1101.4	1111.8
82.5°	451.4	441.0	436.8	437.9	606.3	600.1	605.3	626.1	820.6	780.0	705.1
85°	275.6	274.6	266.2	346.3	396.3	416.0	428.5	610.5	528.3	612.6	709.3
87.5°	170.6	176.8	172.6	252.7	291.2	360.9	410.8	392.1	508.6	472.2	588.7
90°	91.5	96.7	117.5	174.7	257.9	244.4	279.8	317.2	393.1	389.0	343.2
92.5°	83.2	87.4	112.3	153.9	181.0	193.4	209.0	211.1	208.0	215.3	211.1
95°	116.5	114.4	117.5	125.8	124.8	121.7	124.8	120.6	113.4	107.1	103.0
97.5°	146.6	139.4	125.8	105.0	90.5	89.4	89.4	87.4	80.1	77.0	74.9
100°	145.6	141.4	127.9	114.4	95.7	87.4	82.2	77.0	74.9	72.8	71.8
102.5°	136.2	132.1	122.7	113.4	107.1	99.8	90.5	79.0	74.9	73.8	72.8
105°	118.6	116.5	110.2	103.0	98.8	97.8	94.6	86.3	77.0	73.8	72.8
107.5°	101.9	99.8	95.7	90.5	88.4	87.4	86.3	84.2	78.0	71.8	69.7
110°	84.2	82.2	79.0	75.9	77.0	74.9	74.9	73.8	71.8	68.6	64.5



TEST NUMBER: P236621

CATALOG NUMBER: VRVT4LED-LD5-24-DR-UNV-L850-CD2-WL-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	69.7	67.6	64.5	64.5	65.5	66.6	65.5	64.5	63.4	60.3	59.3
115°	56.2	55.1	53.0	53.0	55.1	59.3	62.4	64.5	59.3	54.1	52.0
117.5°	45.8	45.8	43.7	42.6	46.8	51.0	53.0	58.2	63.4	61.4	53.0
120°	37.4	37.4	36.4	34.3	36.4	40.6	45.8	56.2	54.1	59.3	65.5
122.5°	31.2	31.2	29.1	28.1	28.1	31.2	32.2	42.6	62.4	56.2	55.1
125°	26.0	25.0	25.0	22.9	22.9	23.9	27.0	29.1	36.4	62.4	67.6
127.5°	20.8	20.8	19.8	18.7	17.7	17.7	19.8	29.1	28.1	30.2	48.9
130°	17.7	17.7	16.6	15.6	14.6	13.5	13.5	20.8	35.4	31.2	28.1
132.5°	14.6	13.5	13.5	12.5	11.4	11.4	10.4	11.4	20.8	37.4	36.4
135°	11.4	11.4	10.4	10.4	9.4	9.4	8.3	8.3	10.4	17.7	36.4
137.5°	9.4	9.4	9.4	8.3	8.3	8.3	7.3	7.3	7.3	9.4	14.6
140°	8.3	8.3	8.3	7.3	7.3	6.2	6.2	6.2	5.2	6.2	8.3
142.5°	7.3	7.3	7.3	6.2	6.2	6.2	6.2	5.2	5.2	5.2	6.2
145°	6.2	6.2	6.2	6.2	6.2	5.2	5.2	5.2	4.2	4.2	5.2
147.5°	6.2	6.2	6.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
150°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
152.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
155°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
157.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
160°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	5.2	6.2
162.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
165°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
167.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
170°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	7.3
172.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	7.3
175°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	6.2	7.3
177.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	6.2	7.3
180°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	8510.6	8510.6	8510.6	8510.6	8510.6	8510.6	8510.6	8510.6	8510.6	8510.6
2.5°	8465.9	8473.2	8466.9	8484.6	8488.8	8489.8	8498.1	8499.2	8495.0	8489.8
5°	8461.7	8478.4	8470.1	8488.8	8489.8	8492.9	8501.3	8503.3	8499.2	8494.0
7.5°	8450.3	8465.9	8463.8	8476.3	8483.6	8475.3	8486.7	8492.9	8486.7	8479.4
10°	8396.2	8404.5	8400.4	8418.1	8421.2	8419.1	8432.6	8436.8	8435.7	8425.3
12.5°	8329.7	8343.2	8347.3	8354.6	8354.6	8355.7	8368.1	8373.3	8380.6	8374.4
15°	8248.5	8254.8	8269.3	8283.9	8286.0	8292.2	8291.2	8313.0	8299.5	8299.5
17.5°	8159.1	8167.4	8173.6	8189.2	8201.7	8200.7	8201.7	8215.2	8220.4	8212.1
20°	8054.0	8058.2	8075.9	8093.6	8098.8	8107.1	8119.6	8128.9	8134.1	8128.9
22.5°	7948.0	7962.5	7967.7	7988.5	7993.7	8006.2	8026.0	8043.6	8054.0	8037.4
25°	7811.7	7814.8	7850.2	7866.8	7888.7	7902.2	7950.0	7992.7	8003.1	7980.2
27.5°	7665.1	7686.9	7777.4	7798.2	7778.4	7775.3	7747.2	7717.1	7559.0	7602.7
30°	7554.8	7582.9	7521.5	7342.7	7315.6	7177.3	7027.5	6810.2	6754.0	6742.6
32.5°	7368.7	7177.3	6870.5	6533.5	6434.7	6310.9	6211.1	6130.0	6078.0	6085.3
35°	6828.9	6408.7	6031.2	5864.8	5807.6	5769.1	5711.9	5717.1	5734.8	5724.4
37.5°	6074.9	5697.3	5580.8	5530.9	5519.5	5529.9	5540.3	5565.2	5597.5	5611.0
40°	5421.7	5303.1	5325.0	5352.0	5395.7	5462.3	5591.2	5757.6	5930.3	6014.5
42.5°	5075.4	5103.5	5203.3	5445.6	5677.6	5886.6	6085.3	6239.2	6297.4	6307.8
45°	4869.5	5024.4	5492.4	5923.0	6027.0	6067.6	6133.1	6116.5	6088.4	6040.5
47.5°	4781.0	5382.2	5738.9	5835.6	5779.5	5746.2	5757.6	5725.4	5768.0	5757.6
50°	5126.3	5486.2	5473.7	5436.3	5481.0	5510.1	5559.0	5528.8	5537.2	5512.2
52.5°	5169.0	5164.8	5165.9	5253.2	5223.1	5185.6	5188.7	5230.3	5240.7	5163.8
55°	4853.9	4899.6	4873.6	4865.3	4841.4	4780.0	4715.5	4743.6	4824.7	4842.4
57.5°	4535.6	4469.0	4486.7	4395.2	4484.6	4579.3	4436.8	4375.4	4342.2	4360.9
60°	4124.8	4033.3	4177.8	4040.5	4014.5	4052.0	4164.3	4227.7	4091.5	4054.1
62.5°	3649.5	3759.7	3681.7	3727.5	3605.8	3426.9	3182.5	3182.5	3237.6	3255.3
65°	3284.4	3274.0	2924.6	2822.7	2883.0	2939.1	2924.6	2716.6	2673.9	2631.3
67.5°	2748.8	2404.6	2532.5	2383.8	2347.4	2320.3	2366.1	2465.9	2584.5	2593.9
70°	2094.6	2151.8	2019.8	2246.5	2413.9	2582.4	2657.3	2641.7	2576.2	2517.9
72.5°	1728.5	1877.3	2285.0	2222.6	2168.5	2178.9	2134.2	2110.2	2075.9	2055.1
75°	1784.7	1821.1	1789.9	1760.8	1770.1	1752.5	1684.9	1598.5	1523.7	1496.6
77.5°	1387.4	1449.8	1352.0	1211.6	1205.4	1249.1	1281.3	1332.3	1355.2	1330.2
80°	978.7	919.4	1043.2	1139.9	1173.2	1212.7	1153.4	1130.5	1130.5	1143.0
82.5°	835.1	944.4	904.8	848.7	849.7	862.2	862.2	889.2	938.1	909.0
85°	632.3	703.1	843.5	852.8	835.1	853.9	880.9	879.9	862.2	851.8
87.5°	615.7	614.7	599.1	526.3	520.0	537.7	537.7	528.3	526.3	520.0
90°	354.7	353.6	352.6	369.2	380.7	368.2	358.8	352.6	354.7	357.8
92.5°	205.9	209.0	209.0	214.2	207.0	197.6	192.4	185.1	182.0	174.7
95°	101.9	104.0	106.1	104.0	105.0	105.0	104.0	105.0	103.0	104.0
97.5°	75.9	77.0	78.0	80.1	82.2	82.2	84.2	84.2	84.2	85.3
100°	70.7	70.7	70.7	70.7	71.8	71.8	72.8	72.8	73.8	73.8
102.5°	72.8	71.8	70.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
105°	72.8	71.8	71.8	70.7	70.7	69.7	68.6	67.6	67.6	66.6
107.5°	69.7	71.8	72.8	72.8	72.8	71.8	70.7	69.7	68.6	69.7
110°	62.4	62.4	64.5	64.5	65.5	66.6	67.6	67.6	67.6	67.6



TEST NUMBER: P236621

CATALOG NUMBER: VRVT4LED-LD5-24-DR-UNV-L850-CD2-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	58.2	56.2	56.2	57.2	58.2	58.2	59.3	59.3	59.3	59.3
115°	51.0	48.9	48.9	48.9	49.9	51.0	51.0	52.0	52.0	52.0
117.5°	46.8	43.7	42.6	42.6	42.6	42.6	43.7	43.7	43.7	44.7
120°	63.4	52.0	42.6	38.5	37.4	37.4	37.4	37.4	37.4	37.4
122.5°	60.3	67.6	67.6	56.2	55.1	49.9	45.8	42.6	38.5	38.5
125°	53.0	55.1	56.2	62.4	67.6	68.6	73.8	69.7	66.6	64.5
127.5°	68.6	77.0	53.0	52.0	52.0	53.0	55.1	55.1	57.2	61.4
130°	34.3	55.1	67.6	68.6	73.8	82.2	60.3	49.9	48.9	49.9
132.5°	28.1	26.0	32.2	49.9	57.2	60.3	65.5	69.7	66.6	67.6
135°	46.8	37.4	28.1	25.0	25.0	25.0	30.2	33.3	39.5	44.7
137.5°	27.0	43.7	51.0	42.6	39.5	34.3	29.1	25.0	23.9	23.9
140°	11.4	17.7	28.1	42.6	47.8	49.9	53.0	49.9	47.8	43.7
142.5°	8.3	10.4	11.4	14.6	17.7	20.8	25.0	34.3	37.4	38.5
145°	6.2	8.3	8.3	9.4	9.4	10.4	10.4	10.4	10.4	10.4
147.5°	5.2	6.2	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
150°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
152.5°	5.2	5.2	4.2	4.2	4.2	4.2	3.1	3.1	3.1	2.1
155°	5.2	5.2	5.2	4.2	4.2	4.2	3.1	2.1	2.1	2.1
157.5°	5.2	5.2	5.2	4.2	4.2	4.2	3.1	2.1	2.1	2.1
160°	6.2	6.2	5.2	4.2	4.2	4.2	3.1	2.1	2.1	2.1
162.5°	6.2	6.2	5.2	5.2	4.2	4.2	3.1	3.1	2.1	2.1
165°	6.2	6.2	6.2	5.2	5.2	4.2	4.2	3.1	3.1	2.1
167.5°	7.3	6.2	6.2	5.2	5.2	5.2	4.2	3.1	3.1	3.1
170°	7.3	7.3	6.2	6.2	5.2	5.2	4.2	4.2	3.1	3.1
172.5°	7.3	7.3	6.2	6.2	5.2	5.2	5.2	4.2	4.2	4.2
175°	7.3	7.3	6.2	6.2	6.2	6.2	5.2	4.2	4.2	4.2
177.5°	7.3	7.3	6.2	6.2	6.2	6.2	5.2	4.2	4.2	4.2
180°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2

(END OF REPORT)