

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: P236619

Luminaire Tested: **VRVT4LED-LD5-24-DR-UNV-L835-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236619
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-L835-CD2-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
10 BOARDS WITH CLEAR ACRYLIC LENS
Light Source: (560) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23534.0 lumens
Efficiency: N/A
Efficacy: 131.3 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

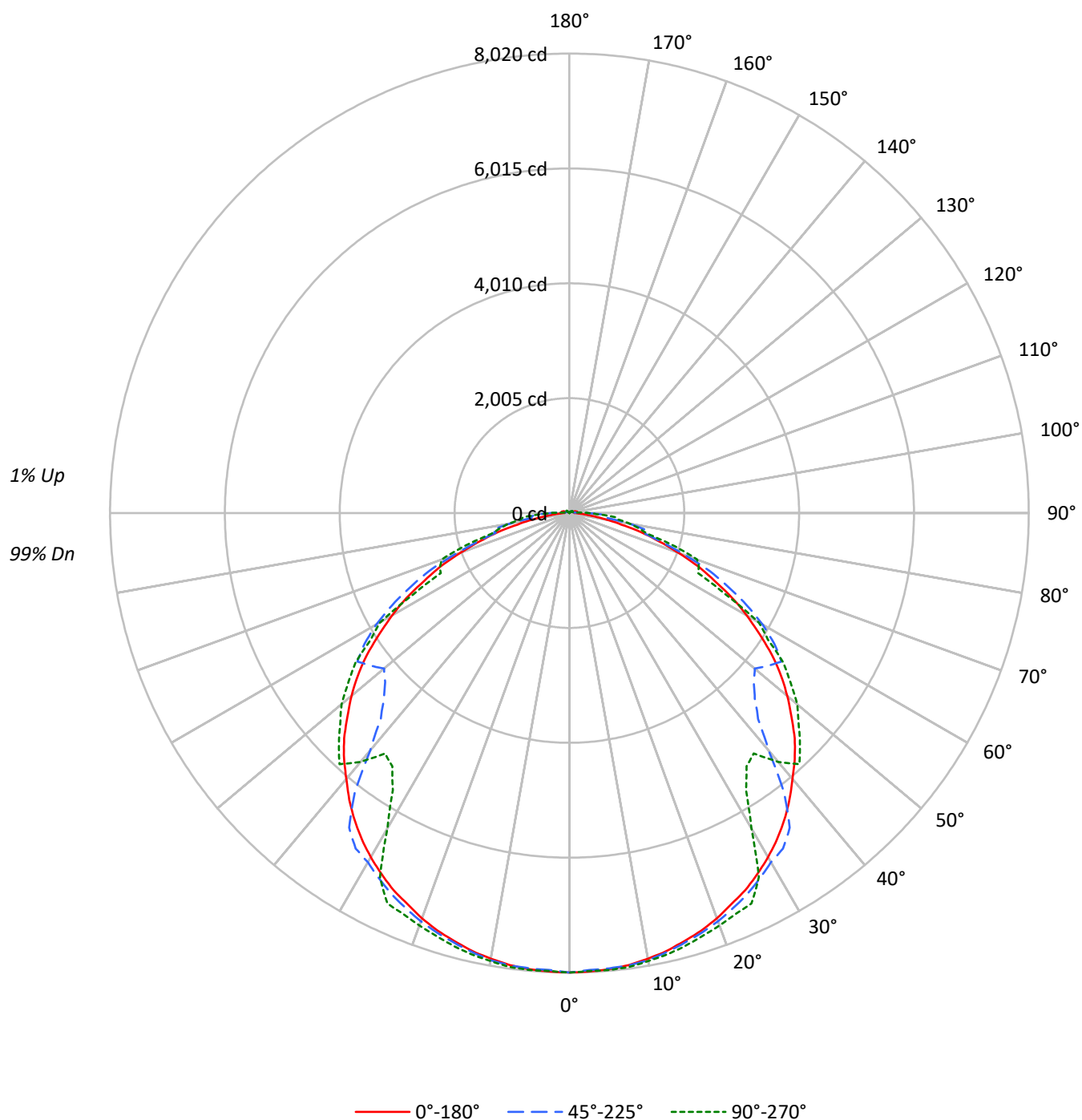
Input Watts (W): 179.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20090	20090	20090
5°	19991	19692	19713
10°	19875	19427	19375
15°	19741	19055	19057
20°	19634	18762	18780
25°	19526	18462	18693
30°	19384	18134	16141
35°	19188	17847	14122
40°	18856	15013	15427
45°	18580	13377	16262
50°	18049	13134	15741
55°	17352	15134	14842
60°	16206	14265	13520
65°	14662	12509	9703
70°	12670	9983	10472
75°	10265	7193	7201
80°	7113	6853	6581
85°	4410	5602	6163



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	760.5	3.2
10°-20°	2197.8	9.3
20°-30°	3378.5	14.4
30°-40°	3875.8	16.5
40°-50°	4124.2	17.5
50°-60°	3854.9	16.4
60°-70°	2799.2	11.9
70°-80°	1567.2	6.7
80°-90°	626.4	2.7
90°-100°	149.2	0.6
100°-110°	80.9	0.3
110°-120°	51.8	0.2
120°-130°	37.6	0.2
130°-140°	19.9	0.1
140°-150°	6.1	0.0
150°-160°	2.1	0.0
160°-170°	1.5	0.0
170°-180°	0.6	0.0
0°-30°	6336.8	26.9
0°-40°	10212.6	43.4
0°-60°	18191.7	77.3
0°-90°	23184.4	98.5
90°-120°	281.9	1.2
90°-150°	345.5	1.5
90°-180°	350.0	1.5
0°-180°	23534.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8020	8020	8020	8020	8020	
5°	7992	7979	7976	8000	8004	760
15°	7735	7780	7766	7808	7821	2186
25°	7264	7290	7341	7434	7520	3346
35°	6541	6554	6704	5472	5394	4088
45°	5563	5624	4579	5679	5692	4277
55°	4317	4194	4517	4562	4563	3841
65°	2795	2396	3072	2717	2480	2778
75°	1300	1412	1333	1668	1410	1371
85°	260	392	668	787	803	298
90°	86	230	323	359	337	56
95°	110	115	97	99	98	97
105°	112	92	69	67	63	118
115°	53	56	49	47	49	55
125°	24	22	64	64	61	22
135°	11	9	34	24	42	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°	8019.6	8019.6	8019.6	8019.6	8019.6	8019.6	8019.6	8019.6	8019.6	8019.6	8019.6
2.5°	8008.8	8004.9	8004.9	8005.9	7999.0	7995.1	7995.1	7977.4	7968.6	7974.5	7983.3
5°	7992.1	7999.0	7995.1	7994.1	7982.3	7979.4	7975.5	7958.8	7950.0	7962.7	7976.5
7.5°	7957.8	7957.8	7956.9	7956.9	7952.0	7949.0	7952.9	7945.1	7939.2	7948.0	7962.7
10°	7897.1	7903.9	7901.0	7905.9	7899.0	7902.0	7900.0	7894.1	7902.0	7912.8	7923.5
12.5°	7831.4	7831.4	7831.4	7846.1	7848.1	7853.0	7857.9	7845.1	7837.3	7835.3	7849.1
15°	7735.4	7734.4	7757.9	7772.6	7775.5	7779.5	7770.6	7757.9	7755.9	7762.8	7765.7
17.5°	7644.2	7643.2	7653.0	7663.8	7675.6	7668.7	7658.9	7659.9	7659.9	7660.9	7679.5
20°	7527.6	7519.8	7555.0	7556.0	7542.3	7540.3	7544.3	7550.1	7550.1	7564.8	7582.5
22.5°	7386.5	7401.2	7419.8	7422.7	7419.8	7419.8	7411.0	7433.5	7432.5	7440.4	7464.9
25°	7264.0	7266.9	7260.1	7265.9	7276.7	7289.5	7271.8	7290.4	7302.2	7314.9	7341.4
27.5°	7105.2	7105.2	7096.4	7117.0	7120.9	7126.8	7121.9	7143.4	7157.1	7168.9	7194.4
30°	6935.7	6930.8	6929.8	6956.2	6946.4	6970.9	6960.2	6967.0	6993.5	6998.4	7038.6
32.5°	6748.5	6734.8	6741.6	6764.2	6766.1	6775.9	6758.3	6775.9	6806.3	6849.4	6942.5
35°	6540.7	6534.8	6540.7	6545.6	6559.3	6553.5	6552.5	6586.8	6622.1	6734.8	6704.4
37.5°	6311.4	6304.5	6327.1	6330.0	6346.7	6332.9	6342.7	6383.9	6490.7	6488.8	6163.4
40°	6059.5	6101.7	6085.0	6094.8	6104.6	6112.4	6125.2	6203.6	6273.2	5960.5	5409.8
42.5°	5823.3	5824.3	5842.0	5855.7	5866.5	5874.3	5897.8	5989.9	5812.6	5239.2	4874.7
45°	5562.6	5560.7	5570.5	5574.4	5602.8	5624.4	5703.8	5657.7	5150.1	4699.2	4578.7
47.5°	5254.9	5261.8	5297.1	5314.7	5322.5	5404.9	5418.6	5141.2	4540.5	4351.3	4365.0
50°	4965.8	4995.2	4992.3	5013.8	5091.2	5134.4	5056.9	4433.6	4104.4	4131.8	4223.9
52.5°	4655.1	4671.8	4659.1	4701.2	4781.6	4743.3	4510.1	3936.8	3859.4	3929.9	4375.8
55°	4317.0	4297.4	4348.4	4386.6	4390.5	4194.5	3846.6	3596.7	3621.2	3861.3	4517.0
57.5°	3934.8	3959.3	3982.8	4053.4	3920.1	3584.9	3356.6	3326.2	3381.1	4113.2	4238.6
60°	3574.2	3587.9	3633.0	3685.9	3303.7	3070.4	2998.9	3029.3	3371.3	3982.8	3895.6
62.5°	3205.7	3234.1	3263.5	3239.0	2746.0	2712.7	2719.6	2782.3	3481.1	3559.5	3497.7
65°	2795.0	2837.2	2885.2	2719.6	2390.3	2396.2	2404.0	2693.1	3159.6	3113.6	3072.4
67.5°	2435.4	2449.1	2477.5	2176.6	2072.8	2080.6	2107.1	2727.4	2778.4	2735.3	2659.8
70°	2017.9	2060.0	2057.1	1751.3	1768.0	1770.9	1879.7	2409.9	2346.2	2299.1	2159.0
72.5°	1638.6	1674.9	1572.0	1445.5	1451.4	1509.2	1887.5	1951.2	1874.8	1765.0	1703.3
75°	1300.5	1297.6	1154.5	1124.1	1164.3	1412.2	1604.3	1452.4	1398.5	1403.4	1332.8
77.5°	924.2	968.3	847.7	853.6	986.9	1179.0	1131.9	1069.2	1121.2	1070.2	1373.0
80°	662.5	663.5	604.7	622.3	810.5	795.8	794.8	820.3	817.3	1037.9	1047.7
82.5°	425.3	415.5	411.6	412.6	571.4	565.5	570.4	590.0	773.2	735.0	664.5
85°	259.7	258.7	250.9	326.3	373.4	392.0	403.8	575.3	497.9	577.2	668.4
87.5°	160.7	166.6	162.7	238.1	274.4	340.1	387.1	369.5	479.2	444.9	554.7
90°	86.2	91.1	110.7	164.6	243.0	230.3	263.6	298.9	370.5	366.5	323.4
92.5°	78.4	82.3	105.8	145.0	170.5	182.3	197.0	198.9	196.0	202.9	198.9
95°	109.8	107.8	110.7	118.6	117.6	114.7	117.6	113.7	106.8	100.9	97.0
97.5°	138.2	131.3	118.6	99.0	85.3	84.3	84.3	82.3	75.5	72.5	70.6
100°	137.2	133.3	120.5	107.8	90.2	82.3	77.4	72.5	70.6	68.6	67.6
102.5°	128.4	124.5	115.6	106.8	100.9	94.1	85.3	74.5	70.6	69.6	68.6
105°	111.7	109.8	103.9	97.0	93.1	92.1	89.2	81.3	72.5	69.6	68.6
107.5°	96.0	94.1	90.2	85.3	83.3	82.3	81.3	79.4	73.5	67.6	65.7
110°	79.4	77.4	74.5	71.5	72.5	70.6	70.6	69.6	67.6	64.7	60.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	65.7	63.7	60.8	60.8	61.7	62.7	61.7	60.8	59.8	56.8	55.9
115°	52.9	51.9	50.0	50.0	51.9	55.9	58.8	60.8	55.9	51.0	49.0
117.5°	43.1	43.1	41.2	40.2	44.1	48.0	50.0	54.9	59.8	57.8	50.0
120°	35.3	35.3	34.3	32.3	34.3	38.2	43.1	52.9	51.0	55.9	61.7
122.5°	29.4	29.4	27.4	26.5	26.5	29.4	30.4	40.2	58.8	52.9	51.9
125°	24.5	23.5	23.5	21.6	21.6	22.5	25.5	27.4	34.3	58.8	63.7
127.5°	19.6	19.6	18.6	17.6	16.7	16.7	18.6	27.4	26.5	28.4	46.1
130°	16.7	16.7	15.7	14.7	13.7	12.7	12.7	19.6	33.3	29.4	26.5
132.5°	13.7	12.7	12.7	11.8	10.8	10.8	9.8	10.8	19.6	35.3	34.3
135°	10.8	10.8	9.8	9.8	8.8	8.8	7.8	7.8	9.8	16.7	34.3
137.5°	8.8	8.8	8.8	7.8	7.8	7.8	6.9	6.9	6.9	8.8	13.7
140°	7.8	7.8	7.8	6.9	6.9	5.9	5.9	5.9	4.9	5.9	7.8
142.5°	6.9	6.9	6.9	5.9	5.9	5.9	5.9	4.9	4.9	4.9	5.9
145°	5.9	5.9	5.9	5.9	5.9	4.9	4.9	4.9	3.9	3.9	4.9
147.5°	5.9	5.9	5.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
150°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
152.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
155°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
157.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
160°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	4.9	5.9
162.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
165°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
167.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
170°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.9
172.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.9
175°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	5.9	6.9
177.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	5.9	6.9
180°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	8019.6	8019.6	8019.6	8019.6	8019.6	8019.6	8019.6	8019.6	8019.6	8019.6
2.5°	7977.4	7984.3	7978.4	7995.1	7999.0	8000.0	8007.8	8008.8	8004.9	8000.0
5°	7973.5	7989.2	7981.4	7999.0	8000.0	8002.9	8010.8	8012.7	8008.8	8003.9
7.5°	7962.7	7977.4	7975.5	7987.2	7994.1	7986.3	7997.0	8002.9	7997.0	7990.2
10°	7911.8	7919.6	7915.7	7932.4	7935.3	7933.3	7946.1	7950.0	7949.0	7939.2
12.5°	7849.1	7861.8	7865.7	7872.6	7872.6	7873.6	7885.3	7890.2	7897.1	7891.2
15°	7772.6	7778.5	7792.2	7805.9	7807.9	7813.8	7812.8	7833.4	7820.6	7820.6
17.5°	7688.3	7696.2	7702.0	7716.7	7728.5	7727.5	7728.5	7741.2	7746.1	7738.3
20°	7589.3	7593.3	7609.9	7626.6	7631.5	7639.3	7651.1	7659.9	7664.8	7659.9
22.5°	7489.4	7503.1	7508.0	7527.6	7532.5	7544.3	7562.9	7579.5	7589.3	7573.7
25°	7361.0	7363.9	7397.3	7412.9	7433.5	7446.3	7491.3	7531.5	7541.3	7519.8
27.5°	7222.8	7243.4	7328.7	7348.3	7329.6	7326.7	7300.2	7271.8	7122.8	7164.0
30°	7118.9	7145.4	7087.6	6919.0	6893.5	6763.2	6622.1	6417.2	6364.3	6353.5
32.5°	6943.5	6763.2	6474.1	6156.5	6063.4	5946.8	5852.7	5776.3	5727.3	5734.1
35°	6434.9	6038.9	5683.2	5526.4	5472.5	5436.2	5382.3	5387.2	5403.9	5394.1
37.5°	5724.3	5368.6	5258.8	5211.8	5201.0	5210.8	5220.6	5244.1	5274.5	5287.3
40°	5108.9	4997.2	5017.7	5043.2	5084.4	5147.1	5268.6	5425.4	5588.1	5667.5
42.5°	4782.5	4809.0	4903.1	5131.4	5350.0	5547.0	5734.1	5879.2	5934.1	5943.9
45°	4588.5	4734.5	5175.5	5581.3	5679.3	5717.5	5779.2	5763.5	5737.1	5692.0
47.5°	4505.2	5071.6	5407.8	5498.9	5446.0	5414.7	5425.4	5395.1	5435.2	5425.4
50°	4830.6	5169.7	5157.9	5122.6	5164.8	5192.2	5238.3	5209.8	5217.7	5194.2
52.5°	4870.7	4866.8	4867.8	4950.1	4921.7	4886.4	4889.4	4928.6	4938.4	4865.8
55°	4573.8	4616.9	4592.4	4584.6	4562.0	4504.2	4443.5	4469.9	4546.4	4563.0
57.5°	4273.9	4211.2	4227.8	4141.6	4225.9	4315.1	4180.8	4123.0	4091.6	4109.3
60°	3886.8	3800.6	3936.8	3807.4	3782.9	3818.2	3924.0	3983.8	3855.4	3820.2
62.5°	3438.9	3542.8	3469.3	3512.4	3397.8	3229.2	2998.9	2998.9	3050.8	3067.5
65°	3094.9	3085.1	2755.8	2659.8	2716.6	2769.6	2755.8	2559.8	2519.7	2479.5
67.5°	2590.2	2265.8	2386.4	2246.2	2211.9	2186.4	2229.6	2323.6	2435.4	2444.2
70°	1973.8	2027.7	1903.2	2116.9	2274.6	2433.4	2504.0	2489.3	2427.5	2372.6
72.5°	1628.8	1769.0	2153.1	2094.3	2043.4	2053.2	2011.0	1988.5	1956.1	1936.5
75°	1681.7	1716.0	1686.6	1659.2	1668.0	1651.3	1587.6	1506.3	1435.7	1410.3
77.5°	1307.4	1366.2	1274.0	1141.7	1135.9	1177.0	1207.4	1255.4	1277.0	1253.5
80°	922.2	866.3	983.0	1074.1	1105.5	1142.7	1086.9	1065.3	1065.3	1077.1
82.5°	787.0	889.9	852.6	799.7	800.7	812.4	812.4	837.9	884.0	856.5
85°	595.9	662.5	794.8	803.6	787.0	804.6	830.1	829.1	812.4	802.6
87.5°	580.2	579.2	564.5	495.9	490.0	506.7	506.7	497.9	495.9	490.0
90°	334.2	333.2	332.2	347.9	358.7	346.9	338.1	332.2	334.2	337.1
92.5°	194.0	197.0	197.0	201.9	195.0	186.2	181.3	174.4	171.5	164.6
95°	96.0	98.0	100.0	98.0	99.0	99.0	98.0	99.0	97.0	98.0
97.5°	71.5	72.5	73.5	75.5	77.4	77.4	79.4	79.4	79.4	80.4
100°	66.6	66.6	66.6	66.6	67.6	67.6	68.6	68.6	69.6	69.6
102.5°	68.6	67.6	66.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7
105°	68.6	67.6	67.6	66.6	66.6	65.7	64.7	63.7	63.7	62.7
107.5°	65.7	67.6	68.6	68.6	68.6	67.6	66.6	65.7	64.7	65.7
110°	58.8	58.8	60.8	60.8	61.7	62.7	63.7	63.7	63.7	63.7



TEST NUMBER: P236619

CATALOG NUMBER: VRVT4LED-LD5-24-DR-UNV-L835-CD2-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	54.9	52.9	52.9	53.9	54.9	54.9	55.9	55.9	55.9	55.9
115°	48.0	46.1	46.1	46.1	47.0	48.0	48.0	49.0	49.0	49.0
117.5°	44.1	41.2	40.2	40.2	40.2	40.2	41.2	41.2	41.2	42.1
120°	59.8	49.0	40.2	36.3	35.3	35.3	35.3	35.3	35.3	35.3
122.5°	56.8	63.7	63.7	52.9	51.9	47.0	43.1	40.2	36.3	36.3
125°	50.0	51.9	52.9	58.8	63.7	64.7	69.6	65.7	62.7	60.8
127.5°	64.7	72.5	50.0	49.0	49.0	50.0	51.9	51.9	53.9	57.8
130°	32.3	51.9	63.7	64.7	69.6	77.4	56.8	47.0	46.1	47.0
132.5°	26.5	24.5	30.4	47.0	53.9	56.8	61.7	65.7	62.7	63.7
135°	44.1	35.3	26.5	23.5	23.5	23.5	28.4	31.4	37.2	42.1
137.5°	25.5	41.2	48.0	40.2	37.2	32.3	27.4	23.5	22.5	22.5
140°	10.8	16.7	26.5	40.2	45.1	47.0	50.0	47.0	45.1	41.2
142.5°	7.8	9.8	10.8	13.7	16.7	19.6	23.5	32.3	35.3	36.3
145°	5.9	7.8	7.8	8.8	8.8	9.8	9.8	9.8	9.8	9.8
147.5°	4.9	5.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
150°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
152.5°	4.9	4.9	3.9	3.9	3.9	3.9	2.9	2.9	2.9	2.0
155°	4.9	4.9	4.9	3.9	3.9	3.9	2.9	2.0	2.0	2.0
157.5°	4.9	4.9	4.9	3.9	3.9	3.9	2.9	2.0	2.0	2.0
160°	5.9	5.9	4.9	3.9	3.9	3.9	2.9	2.0	2.0	2.0
162.5°	5.9	5.9	4.9	4.9	3.9	3.9	2.9	2.9	2.0	2.0
165°	5.9	5.9	5.9	4.9	4.9	3.9	3.9	2.9	2.9	2.0
167.5°	6.9	5.9	5.9	4.9	4.9	4.9	3.9	2.9	2.9	2.9
170°	6.9	6.9	5.9	5.9	4.9	4.9	3.9	3.9	2.9	2.9
172.5°	6.9	6.9	5.9	5.9	4.9	4.9	4.9	3.9	3.9	3.9
175°	6.9	6.9	5.9	5.9	5.9	5.9	4.9	3.9	3.9	3.9
177.5°	6.9	6.9	5.9	5.9	5.9	5.9	4.9	3.9	3.9	3.9
180°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9

(END OF REPORT)