

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: P236612

Luminaire Tested: **VRVT4LED-LD5-18-DR-UNV-L850-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4LED-LD5-18-DR-UNV-L850-CD2-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
8 BOARDS WITH CLEAR ACRYLIC LENS
Light Source: (448) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19092.0 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.15 / 1.26
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

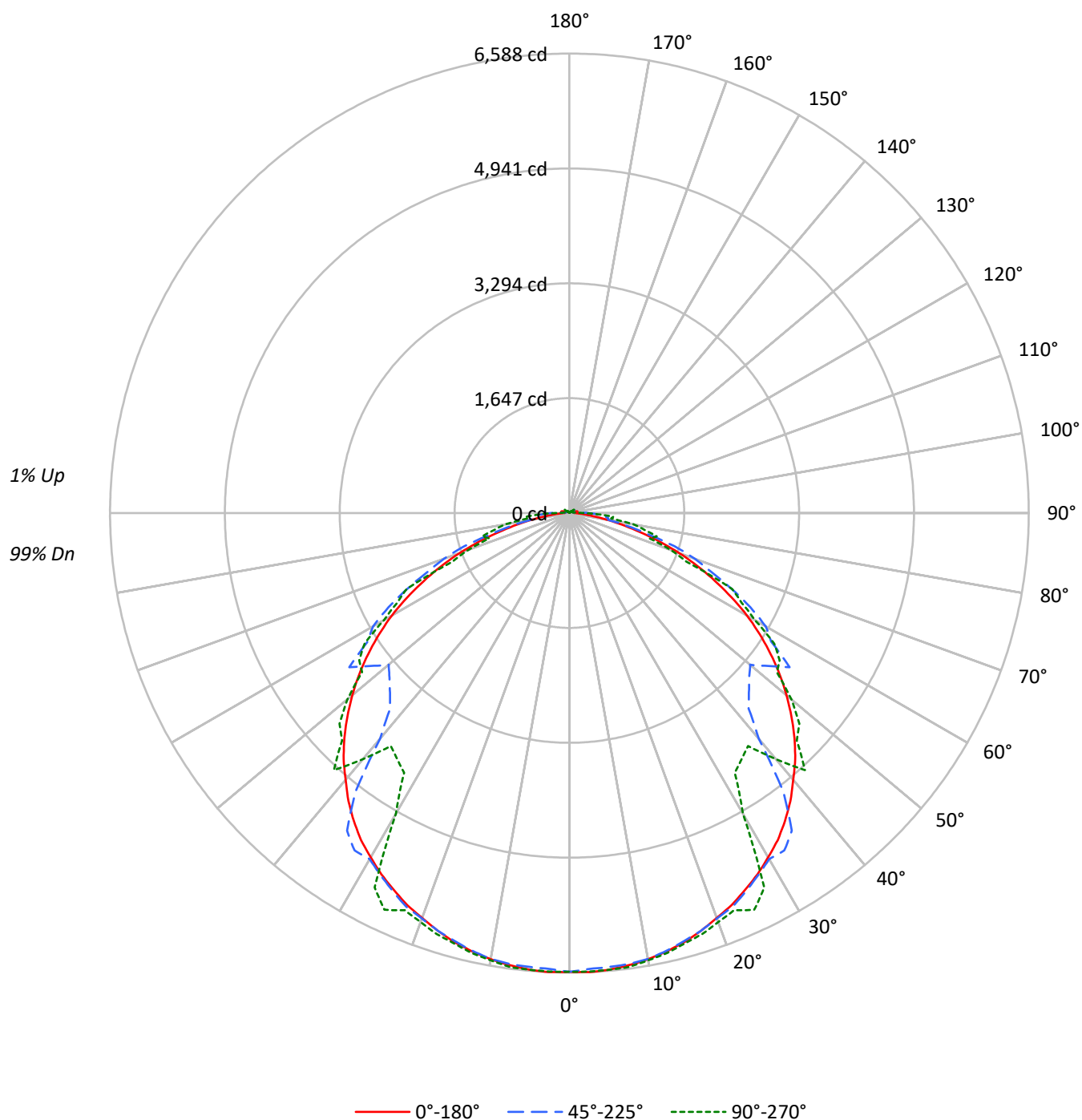
Input Watts (W): 133.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16476	16476	16476
5°	16436	16126	16188
10°	16351	15916	15888
15°	16251	15589	15568
20°	16113	15304	15301
25°	16024	15054	15600
30°	15931	14761	12651
35°	15810	14800	11270
40°	15534	11721	12529
45°	15254	10635	13178
50°	14769	10523	12594
55°	14167	12910	11968
60°	13340	11909	10876
65°	12079	10438	10073
70°	10507	8820	6821
75°	8185	6203	6627
80°	5839	3673	5713
85°	3584	4227	4839



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	624.2	3.3
10°-20°	1800.4	9.4
20°-30°	2769.0	14.5
30°-40°	3142.3	16.5
40°-50°	3338.2	17.5
50°-60°	3158.5	16.5
60°-70°	2296.6	12.0
70°-80°	1201.2	6.3
80°-90°	483.5	2.5
90°-100°	108.1	0.6
100°-110°	64.6	0.3
110°-120°	43.1	0.2
120°-130°	34.1	0.2
130°-140°	17.7	0.1
140°-150°	6.3	0.0
150°-160°	2.2	0.0
160°-170°	1.6	0.0
170°-180°	0.6	0.0
0°-30°	5193.5	27.2
0°-40°	8335.8	43.7
0°-60°	14832.4	77.7
0°-90°	18813.7	98.5
90°-120°	215.8	1.1
90°-150°	273.9	1.4
90°-180°	278.0	1.5
0°-180°	19092.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6577	6577	6577	6577	6577	
5°	6571	6555	6532	6564	6573	625
15°	6368	6379	6353	6380	6389	1797
25°	5961	5958	5986	6066	6275	2750
35°	5389	5360	5560	4276	4305	3368
45°	4567	4555	3640	4819	4612	3515
55°	3525	3369	3853	3571	3680	3145
65°	2303	1910	2564	2487	2574	2281
75°	1037	1152	1149	915	1298	1124
85°	211	324	504	555	630	246
90°	67	184	266	246	204	45
95°	97	89	70	67	68	83
105°	97	73	53	50	47	101
115°	45	51	40	34	35	46
125°	21	19	28	86	81	19
135°	10	8	17	40	23	8
145°	6	5	5	20	19	4
155°	5	5	5	4	3	2
165°	6	6	6	5	3	2
175°	7	6	7	6	5	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6577.0	6577.0	6577.0	6577.0	6577.0
2.5°	6588.4	6573.8	6541.6	6567.6	6578.0
5°	6570.7	6555.1	6532.2	6564.5	6572.8
7.5°	6538.5	6526.0	6521.8	6562.4	6564.5
10°	6496.9	6484.4	6491.7	6509.4	6510.4
12.5°	6437.6	6441.8	6429.3	6452.2	6461.5
15°	6367.9	6379.4	6353.4	6380.4	6388.7
17.5°	6278.5	6288.9	6278.5	6321.1	6328.4
20°	6177.6	6191.1	6184.9	6228.6	6241.0
22.5°	6081.9	6081.9	6110.0	6153.7	6165.1
25°	5961.3	5958.2	5986.2	6066.3	6275.4
27.5°	5839.6	5821.9	5856.2	6094.4	6050.7
30°	5700.2	5688.8	5729.4	5698.2	4979.5
32.5°	5559.8	5526.6	5736.6	4713.3	4413.8
35°	5389.3	5360.2	5559.8	4276.5	4304.6
37.5°	5205.2	5192.7	5040.9	4151.7	4209.9
40°	4992.0	4980.6	4223.4	4053.9	4603.0
42.5°	4792.3	4779.8	3803.3	4313.9	5000.3
45°	4566.6	4555.2	3640.0	4819.4	4612.4
47.5°	4319.1	4436.6	3497.5	4382.6	4471.0
50°	4063.3	4204.7	3384.2	4195.4	4155.8
52.5°	3801.2	3917.7	3599.4	3903.1	3748.2
55°	3524.6	3368.6	3853.2	3571.4	3679.5
57.5°	3236.5	2808.0	3428.9	3423.7	3484.0
60°	2942.2	2385.8	3252.1	3211.5	3073.2
62.5°	2623.9	2151.8	2924.5	2795.5	2786.2
65°	2302.6	1910.5	2563.6	2486.6	2574.0
67.5°	1988.5	1656.7	2194.4	2290.1	1812.7
70°	1673.4	1425.8	1907.4	1472.6	1545.4
72.5°	1349.9	1228.2	1577.7	1378.0	1205.4
75°	1036.9	1152.3	1149.2	915.2	1297.9
77.5°	769.6	1022.3	859.0	977.6	1099.3
80°	543.9	739.4	561.6	703.0	935.0
82.5°	354.6	456.6	560.6	710.3	603.2
85°	211.1	324.5	504.4	555.4	630.2
87.5°	133.1	237.1	382.7	410.8	405.6
90°	66.6	184.1	266.2	246.5	203.8
92.5°	61.4	136.2	132.1	117.5	105.0
95°	96.7	89.4	69.7	66.6	67.6
97.5°	118.6	68.6	54.1	54.1	54.1
100°	115.4	70.7	52.0	49.9	46.8
102.5°	110.2	85.3	52.0	48.9	47.8
105°	96.7	72.8	53.0	49.9	46.8
107.5°	81.1	63.4	51.0	52.0	51.0
110°	67.6	57.2	48.9	46.8	45.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	55.1	55.1	45.8	39.5	43.7
115°	44.7	51.0	39.5	34.3	35.4
117.5°	37.4	37.4	47.8	31.2	30.2
120°	30.2	31.2	77.0	29.1	28.1
122.5°	25.0	27.0	46.8	57.2	30.2
125°	20.8	18.7	28.1	86.3	81.1
127.5°	17.7	13.5	26.0	43.7	77.0
130°	14.6	11.4	39.5	22.9	32.2
132.5°	12.5	9.4	44.7	21.8	19.8
135°	10.4	8.3	16.6	39.5	22.9
137.5°	8.3	7.3	14.6	66.6	45.8
140°	7.3	6.2	15.6	15.6	34.3
142.5°	7.3	5.2	7.3	15.6	13.5
145°	6.2	5.2	5.2	19.8	18.7
147.5°	5.2	5.2	5.2	13.5	19.8
150°	5.2	5.2	5.2	5.2	8.3
152.5°	5.2	5.2	5.2	4.2	3.1
155°	5.2	5.2	5.2	4.2	3.1
157.5°	5.2	5.2	5.2	4.2	3.1
160°	6.2	5.2	6.2	4.2	3.1
162.5°	6.2	6.2	6.2	5.2	3.1
165°	6.2	6.2	6.2	5.2	3.1
167.5°	6.2	6.2	6.2	5.2	4.2
170°	6.2	6.2	6.2	5.2	4.2
172.5°	6.2	6.2	7.3	6.2	4.2
175°	7.3	6.2	7.3	6.2	5.2
177.5°	7.3	6.2	7.3	6.2	5.2
180°	6.2	6.2	6.2	6.2	6.2

(END OF REPORT)