

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: P236628

Luminaire Tested: **VRVT4LED-LD5-30-DR-UNV-L835-CD3-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-14)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4LED-LD5-30-DR-UNV-L835-CD3-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
12 BOARDS WITH CLEAR ACRYLIC LENS
Light Source: (672) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29937.0 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.19 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

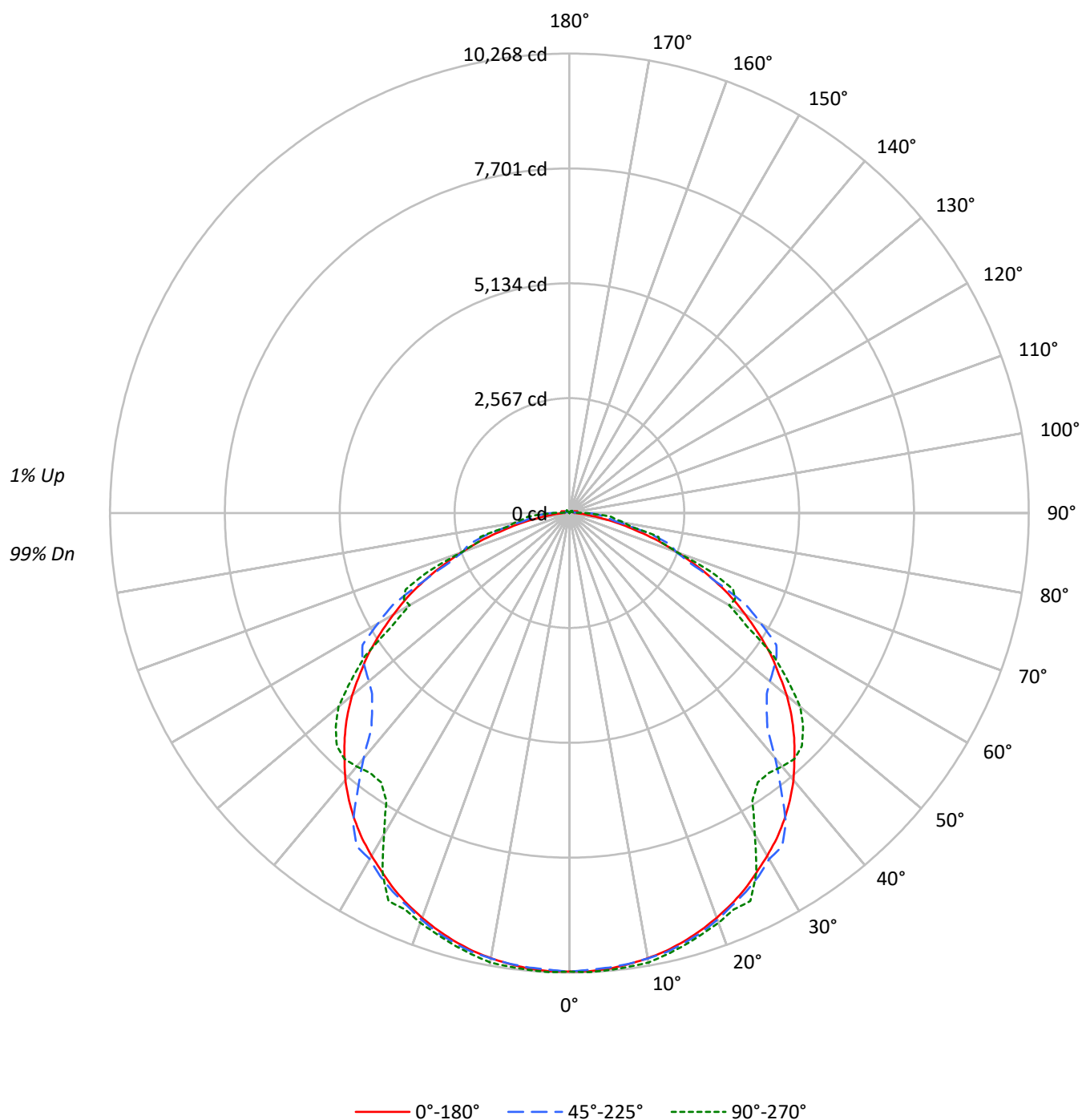
Input Watts (W): 232.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	97	93	90	92	90	87	89	86	84
2	98	90	83	78	96	88	82	76	84	79	74	81	76	73	78	74	71
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	69	64	60
4	82	70	61	55	80	69	60	54	66	59	53	63	57	52	61	56	51
5	75	63	54	47	73	61	53	47	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	47	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	29	40	33	28	38	32	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25665	25665	25665
5°	25563	25169	25245
10°	25420	24773	24885
15°	25280	24400	24343
20°	25104	23929	23882
25°	24934	23479	23777
30°	24716	23004	21041
35°	24552	22451	19228
40°	24245	19862	20127
45°	23729	18216	21005
50°	23043	18190	20412
55°	22040	18922	18144
60°	20600	18105	14584
65°	18795	14616	15801
70°	16116	11728	11260
75°	12686	10531	10538
80°	9070	6852	7521
85°	5775	6184	7156



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	972.9	3.2
10°-20°	2809.7	9.4
20°-30°	4298.1	14.4
30°-40°	5027.8	16.8
40°-50°	5341.6	17.8
50°-60°	4921.1	16.4
60°-70°	3518.4	11.8
70°-80°	1906.8	6.4
80°-90°	717.2	2.4
90°-100°	166.3	0.6
100°-110°	99.3	0.3
110°-120°	65.3	0.2
120°-130°	49.3	0.2
130°-140°	28.6	0.1
140°-150°	8.6	0.0
150°-160°	3.1	0.0
160°-170°	2.0	0.0
170°-180°	0.8	0.0
0°-30°	8080.7	27.0
0°-40°	13108.6	43.8
0°-60°	23371.3	78.1
0°-90°	29513.7	98.6
90°-120°	330.9	1.1
90°-150°	417.4	1.4
90°-180°	423.0	1.4
0°-180°	29937.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10245	10245	10245	10245	10245	
5°	10220	10222	10195	10230	10250	972
15°	9906	9928	9944	9985	9990	2797
25°	9276	9302	9337	9438	9565	4273
35°	8369	8380	8434	7324	7344	5233
45°	7104	7137	6235	7045	7352	5474
55°	5483	5299	5648	5793	5578	4883
65°	3583	3245	3590	3783	4038	3532
75°	1607	1676	1951	1867	2064	1740
85°	340	464	738	821	932	382
90°	110	272	391	345	358	72
95°	135	128	103	111	111	123
105°	151	115	80	76	74	157
115°	72	72	63	57	57	74
125°	34	30	65	69	56	32
135°	17	14	38	40	87	13
145°	9	8	8	16	17	6
155°	7	7	7	5	3	3
165°	8	8	9	7	4	2
175°	9	9	9	8	6	1
180°	8	8	8	8	8	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10245.1	10245.1	10245.1	10245.1	10245.1
2.5°	10247.0	10248.0	10214.7	10247.0	10267.6
5°	10219.6	10221.5	10195.1	10230.4	10250.0
7.5°	10168.6	10182.3	10157.8	10205.9	10224.5
10°	10100.0	10110.8	10103.9	10176.5	10197.0
12.5°	10016.7	10024.6	10049.1	10083.4	10098.1
15°	9906.0	9928.5	9944.2	9985.3	9990.2
17.5°	9774.6	9809.9	9822.7	9849.1	9863.8
20°	9624.7	9665.9	9670.8	9718.8	9741.3
22.5°	9459.1	9494.4	9496.3	9563.9	9590.4
25°	9275.8	9302.3	9336.6	9437.5	9564.9
27.5°	9052.4	9090.6	9154.3	9246.4	9050.4
30°	8843.6	8879.9	8928.9	8615.3	8282.1
32.5°	8622.2	8635.9	8839.7	7969.5	7610.8
35°	8369.3	8380.1	8434.0	7323.6	7344.2
37.5°	8094.9	8081.2	7760.7	7103.1	7317.8
40°	7791.1	7798.9	7157.0	7032.6	7394.2
42.5°	7441.2	7476.5	6545.5	7097.3	7450.1
45°	7104.1	7137.4	6234.8	7045.3	7352.1
47.5°	6738.6	6811.1	5980.0	7065.9	7083.5
50°	6339.7	6507.3	5849.7	6699.4	6735.6
52.5°	5896.7	5990.8	5746.8	6287.8	6155.5
55°	5483.2	5298.9	5647.8	5792.9	5578.2
57.5°	5015.7	4649.2	5484.2	5127.4	4697.2
60°	4543.3	4094.5	4944.2	4287.6	4121.0
62.5°	4084.7	3643.7	4449.3	3709.3	4173.9
65°	3582.9	3244.8	3589.8	3782.8	4037.7
67.5°	3061.6	2840.1	2913.6	3576.1	3415.3
70°	2566.7	2415.7	2536.3	2764.6	2551.0
72.5°	2086.4	2056.1	2367.7	2248.1	2121.7
75°	1607.2	1675.8	1951.2	1866.9	2063.9
77.5°	1203.5	1298.5	1429.8	1600.4	1415.1
80°	844.8	978.1	1047.6	1032.9	1230.9
82.5°	536.1	645.8	860.5	947.7	1042.7
85°	340.1	463.5	737.9	821.3	932.0
87.5°	209.7	378.3	586.0	614.5	550.8
90°	109.8	272.4	391.0	345.0	357.7
92.5°	93.1	203.8	203.8	173.5	159.7
95°	135.2	128.4	102.9	110.7	110.7
97.5°	179.3	100.0	91.1	103.9	108.8
100°	182.3	100.0	85.3	86.2	87.2
102.5°	171.5	114.7	80.4	77.4	74.5
105°	150.9	114.7	80.4	75.5	73.5
107.5°	127.4	104.9	75.5	76.4	76.4
110°	105.8	92.1	73.5	68.6	69.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	87.2	81.3	69.6	62.7	63.7
115°	72.5	72.5	62.7	56.8	56.8
117.5°	59.8	63.7	64.7	51.0	51.0
120°	49.0	51.9	68.6	47.0	48.0
122.5°	41.2	40.2	83.3	62.7	46.1
125°	34.3	30.4	64.7	68.6	55.9
127.5°	28.4	23.5	80.4	85.3	78.4
130°	23.5	19.6	43.1	64.7	76.4
132.5°	19.6	15.7	42.1	99.0	65.7
135°	16.7	13.7	38.2	40.2	87.2
137.5°	13.7	10.8	18.6	43.1	34.3
140°	11.8	9.8	13.7	53.9	53.9
142.5°	9.8	8.8	9.8	19.6	33.3
145°	8.8	7.8	7.8	15.7	16.7
147.5°	7.8	6.9	6.9	14.7	14.7
150°	6.9	6.9	6.9	9.8	12.7
152.5°	6.9	6.9	6.9	5.9	5.9
155°	6.9	6.9	6.9	4.9	2.9
157.5°	6.9	6.9	7.8	5.9	2.9
160°	7.8	7.8	7.8	5.9	3.9
162.5°	7.8	7.8	7.8	5.9	3.9
165°	7.8	7.8	8.8	6.9	3.9
167.5°	7.8	8.8	8.8	6.9	4.9
170°	7.8	8.8	8.8	6.9	4.9
172.5°	7.8	8.8	8.8	6.9	4.9
175°	8.8	8.8	8.8	7.8	5.9
177.5°	8.8	8.8	8.8	7.8	5.9
180°	7.8	7.8	7.8	7.8	7.8

(END OF REPORT)