

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: P236633

Luminaire Tested: **VRVT4LED-LD5-30-DRF-UNV-L850-CD3-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-15)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4LED-LD5-30-DRF-UNV-L850-CD3-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
12 BOARDS WITH FROSTED ACYLIC LENS
Light Source: (672) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30923.0 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.21 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

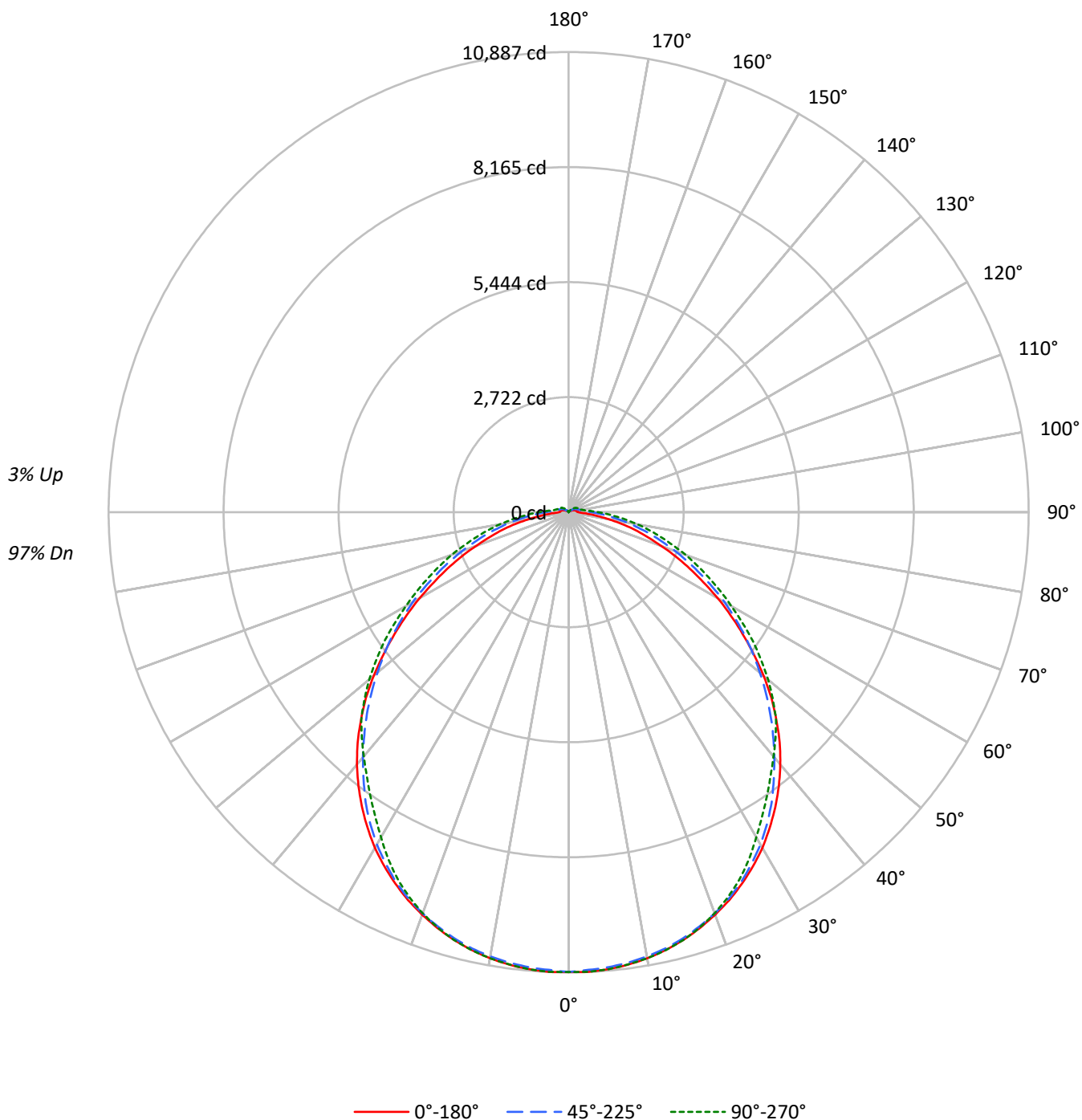
Input Watts (W): 232.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	118	118	118	118	115	115	115	115	109	109	109		104	104	104		99
1	108	103	98	94	105	100	96	93	95	92	89		91	88	86		87
2	98	90	83	77	95	87	81	76	83	78	74		80	75	71		76
3	89	79	71	64	87	77	69	63	74	67	62		70	65	60		67
4	82	70	61	54	79	68	60	54	65	58	53		63	57	52		60
5	75	63	54	47	73	61	53	47	59	51	46		56	50	45		54
6	70	56	47	41	68	55	47	41	53	46	40		51	45	40		49
7	65	51	42	36	63	50	42	36	48	41	36		47	40	35		45
8	60	47	38	32	58	46	38	32	44	37	32		43	36	31		41
9	56	43	35	29	55	42	34	29	41	34	29		39	33	28		38
10	53	40	32	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27250	27250	27250
5°	27145	26678	26731
10°	26970	26161	26152
15°	26745	25615	25534
20°	26431	25005	24758
25°	26074	24286	23805
30°	25624	23389	22556
35°	24999	22296	21426
40°	24250	21023	20529
45°	23219	19717	19824
50°	21871	18371	18673
55°	20224	17049	17312
60°	18484	15610	15749
65°	16606	13973	14322
70°	14607	12392	12968
75°	12831	10749	11496
80°	10450	9136	10084
85°	7770	7486	8489



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1029.8	3.3
10°-20°	2951.2	9.5
20°-30°	4439.8	14.4
30°-40°	5231.7	16.9
40°-50°	5287.8	17.1
50°-60°	4596.2	14.9
60°-70°	3395.7	11.0
70°-80°	2087.4	6.8
80°-90°	952.3	3.1
90°-100°	392.6	1.3
100°-110°	242.7	0.8
110°-120°	163.5	0.5
120°-130°	93.8	0.3
130°-140°	42.4	0.1
140°-150°	11.7	0.0
150°-160°	2.3	0.0
160°-170°	1.5	0.0
170°-180°	0.6	0.0
0°-30°	8420.8	27.2
0°-40°	13652.6	44.2
0°-60°	23536.6	76.1
0°-90°	29971.9	96.9
90°-120°	798.7	2.6
90°-150°	946.7	3.1
90°-180°	951.0	3.1
0°-180°	30923.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10878	10878	10878	10878	10878	
5°	10852	10843	10806	10836	10853	1032
15°	10480	10461	10439	10466	10479	2956
25°	9700	9688	9657	9610	9576	4469
35°	8522	8513	8376	8219	8184	5327
45°	6951	6929	6748	6833	6939	5356
55°	5031	5026	5089	5283	5323	4502
65°	3166	3197	3432	3636	3660	3143
75°	1626	1719	1992	2205	2252	1721
85°	458	603	893	1074	1106	484
90°	224	340	551	673	695	130
95°	199	261	368	424	435	160
105°	161	180	240	270	276	169
115°	97	105	175	215	229	98
125°	50	42	107	153	172	46
135°	24	20	45	87	103	19
145°	11	8	5	29	40	7
155°	7	7	5	2	0	3
165°	8	8	6	3	1	2
175°	9	8	7	4	3	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10878.2	10878.2	10878.2	10878.2	10878.2
2.5°	10886.6	10876.2	10838.7	10866.8	10882.4
5°	10852.2	10842.9	10806.5	10835.6	10853.3
7.5°	10798.2	10783.6	10750.3	10781.5	10789.8
10°	10716.0	10700.4	10670.2	10700.4	10716.0
12.5°	10611.0	10595.4	10571.4	10597.4	10613.0
15°	10479.9	10461.2	10439.4	10466.4	10478.9
17.5°	10317.7	10305.2	10280.3	10309.4	10308.3
20°	10133.6	10123.2	10105.5	10115.9	10098.3
22.5°	9935.0	9915.2	9897.5	9877.8	9855.9
25°	9699.9	9688.5	9657.3	9610.5	9576.2
27.5°	9446.2	9437.9	9374.4	9294.3	9250.7
30°	9168.5	9151.9	9078.0	8954.3	8878.4
32.5°	8856.5	8847.2	8741.1	8601.7	8521.6
35°	8521.6	8513.3	8376.0	8219.0	8183.6
37.5°	8169.1	8155.6	7969.4	7859.2	7849.8
40°	7792.6	7766.6	7575.3	7507.7	7542.0
42.5°	7395.3	7367.3	7161.3	7175.9	7243.5
45°	6951.3	6929.4	6748.5	6832.7	6938.8
47.5°	6509.3	6477.0	6329.3	6474.9	6555.0
50°	6017.4	5981.0	5908.2	6111.0	6161.9
52.5°	5518.2	5502.6	5497.4	5701.2	5731.4
55°	5031.4	5026.2	5088.6	5283.1	5322.6
57.5°	4547.9	4546.8	4665.4	4848.4	4878.6
60°	4076.7	4084.0	4262.9	4428.3	4450.1
62.5°	3595.2	3634.7	3834.4	4011.2	4046.6
65°	3165.7	3196.9	3432.0	3635.8	3659.7
67.5°	2745.6	2796.5	3039.9	3242.7	3288.4
70°	2326.4	2416.9	2680.0	2879.7	2938.0
72.5°	1958.3	2040.5	2324.4	2550.0	2570.8
75°	1625.5	1719.1	1991.6	2204.8	2251.6
77.5°	1293.7	1391.5	1683.7	1908.4	1938.5
80°	973.4	1096.1	1396.7	1610.9	1650.5
82.5°	691.6	832.0	1127.3	1332.2	1366.5
85°	457.6	603.2	893.3	1074.3	1105.5
87.5°	289.1	444.1	698.9	858.0	888.1
90°	223.6	340.1	551.2	672.9	694.7
92.5°	209.0	289.1	443.0	529.4	545.0
95°	198.6	261.0	368.2	424.3	434.7
97.5°	192.4	238.2	320.3	357.8	363.0
100°	185.1	218.4	288.1	317.2	321.4
102.5°	174.7	198.6	261.0	291.2	293.3
105°	161.2	179.9	240.2	270.4	275.6
107.5°	144.6	161.2	223.6	254.8	263.1
110°	129.0	142.5	207.0	241.3	250.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	112.3	123.8	191.4	228.8	239.2
115°	96.7	105.0	174.7	215.3	228.8
117.5°	84.2	86.3	158.1	200.7	215.3
120°	70.7	69.7	141.4	185.1	200.7
122.5°	59.3	55.1	123.8	170.6	187.2
125°	49.9	41.6	107.1	152.9	171.6
127.5°	41.6	33.3	90.5	137.3	155.0
130°	35.4	28.1	73.8	120.6	137.3
132.5°	29.1	22.9	59.3	104.0	119.6
135°	23.9	19.8	44.7	87.4	103.0
137.5°	19.8	15.6	31.2	70.7	85.3
140°	16.6	13.5	19.8	56.2	69.7
142.5°	13.5	10.4	10.4	41.6	54.1
145°	11.4	8.3	5.2	29.1	39.5
147.5°	9.4	7.3	4.2	16.6	26.0
150°	7.3	6.2	4.2	7.3	13.5
152.5°	7.3	6.2	5.2	2.1	3.1
155°	7.3	7.3	5.2	2.1	0.0
157.5°	7.3	7.3	5.2	2.1	0.0
160°	8.3	7.3	5.2	2.1	1.0
162.5°	8.3	7.3	6.2	3.1	1.0
165°	8.3	8.3	6.2	3.1	1.0
167.5°	8.3	8.3	6.2	3.1	2.1
170°	8.3	8.3	6.2	3.1	2.1
172.5°	8.3	8.3	6.2	4.2	2.1
175°	9.4	8.3	7.3	4.2	3.1
177.5°	9.4	8.3	6.2	4.2	3.1
180°	6.2	6.2	6.2	6.2	6.2

(END OF REPORT)