

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: P236630

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236630
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-L850-CD3-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
12 BOARDS WITH CLEAR ACRYLIC LENS
Light Source: (672) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31770.0 lumens
Efficiency: N/A
Efficacy: 136.7 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

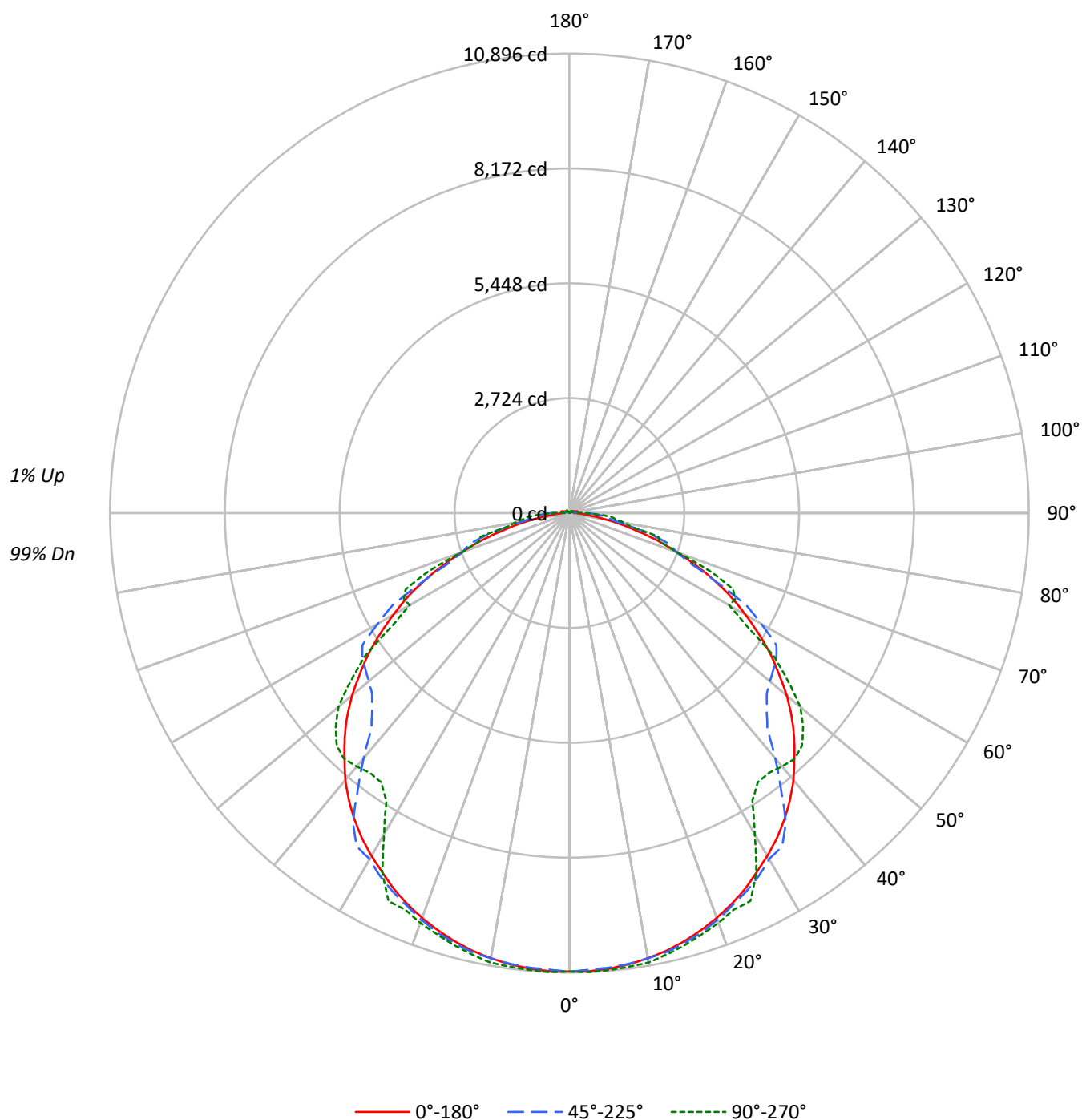
Input Watts (W): 232.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101			99
1	108	103	99	95	105	101	97	94	97	93	90	92	90	87	89	86	84			82
2	98	90	83	78	96	88	82	76	84	79	74	81	76	73	78	74	71			68
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	69	64	60			58
4	82	70	61	55	80	69	60	54	66	59	53	63	57	52	61	56	51			49
5	75	63	54	47	73	61	53	47	59	52	46	57	50	45	55	49	45			42
6	70	56	47	41	68	55	47	41	53	46	40	51	45	40	50	44	39			37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35			33
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31			29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	38	32	28			26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26			24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27236	27236	27236
5°	27128	26710	26790
10°	26976	26290	26409
15°	26828	25894	25834
20°	26641	25394	25345
25°	26461	24917	25233
30°	26229	24413	22329
35°	26055	23825	20405
40°	25729	21078	21359
45°	25182	19331	22291
50°	24454	19303	21661
55°	23389	20081	19255
60°	21861	19214	15477
65°	19946	15511	16768
70°	17102	12446	11949
75°	13463	11176	11183
80°	9625	7272	7981
85°	6128	6563	7595



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1032.5	3.2
10°-20°	2981.8	9.4
20°-30°	4561.3	14.4
30°-40°	5335.7	16.8
40°-50°	5668.7	17.8
50°-60°	5222.4	16.4
60°-70°	3733.9	11.8
70°-80°	2023.5	6.4
80°-90°	761.1	2.4
90°-100°	176.5	0.6
100°-110°	105.4	0.3
110°-120°	69.3	0.2
120°-130°	52.3	0.2
130°-140°	30.3	0.1
140°-150°	9.2	0.0
150°-160°	3.2	0.0
160°-170°	2.2	0.0
170°-180°	0.8	0.0
0°-30°	8575.5	27.0
0°-40°	13911.2	43.8
0°-60°	24802.3	78.1
0°-90°	31320.8	98.6
90°-120°	351.2	1.1
90°-150°	443.0	1.4
90°-180°	449.0	1.4
0°-180°	31770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10872	10872	10872	10872	10872	
5°	10845	10847	10819	10857	10878	1031
15°	10512	10536	10553	10597	10602	2968
25°	9844	9872	9908	10015	10151	4535
35°	8882	8893	8950	7772	7794	5554
45°	7539	7574	6617	7477	7802	5809
55°	5819	5623	5994	6148	5920	5182
65°	3802	3444	3810	4014	4285	3748
75°	1706	1778	2071	1981	2190	1846
85°	361	492	783	872	989	405
90°	116	289	415	366	380	76
95°	144	136	109	118	118	131
105°	160	122	85	80	78	167
115°	77	77	67	60	60	79
125°	36	32	69	73	59	34
135°	18	15	41	43	93	14
145°	9	8	8	17	18	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	



TEST NUMBER: P236630

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10872.3	10872.3	10872.3	10872.3	10872.3
2.5°	10874.4	10875.5	10840.1	10874.4	10896.3
5°	10845.3	10847.4	10819.3	10856.7	10877.5
7.5°	10791.2	10805.8	10779.8	10830.7	10850.5
10°	10718.4	10729.9	10722.6	10799.5	10821.4
12.5°	10630.0	10638.3	10664.3	10700.7	10716.3
15°	10512.5	10536.4	10553.1	10596.7	10601.9
17.5°	10373.1	10410.6	10424.1	10452.2	10467.8
20°	10214.0	10257.7	10262.9	10313.9	10337.8
22.5°	10038.2	10075.7	10077.8	10149.5	10177.6
25°	9843.8	9871.8	9908.2	10015.4	10150.6
27.5°	9606.6	9647.2	9714.8	9812.6	9604.6
30°	9385.1	9423.6	9475.6	9142.8	8789.2
32.5°	9150.1	9164.6	9381.0	8457.4	8076.8
35°	8881.7	8893.2	8950.4	7772.1	7793.9
37.5°	8590.5	8576.0	8235.9	7538.0	7765.8
40°	8268.1	8276.5	7595.2	7463.2	7846.9
42.5°	7896.9	7934.3	6946.3	7531.8	7906.2
45°	7539.1	7574.4	6616.6	7476.7	7802.2
47.5°	7151.2	7228.1	6346.2	7498.5	7517.2
50°	6727.9	6905.7	6207.9	7109.6	7148.0
52.5°	6257.8	6357.6	6098.7	6672.8	6532.3
55°	5818.9	5623.4	5993.6	6147.5	5919.8
57.5°	5322.8	4933.8	5819.9	5441.4	4984.8
60°	4821.5	4345.2	5246.9	4550.1	4373.3
62.5°	4334.8	3866.8	4721.7	3936.5	4429.4
65°	3802.3	3443.5	3809.6	4014.5	4284.9
67.5°	3249.0	3014.0	3092.0	3795.0	3624.5
70°	2723.8	2563.6	2691.6	2933.9	2707.2
72.5°	2214.2	2182.0	2512.7	2385.8	2251.6
75°	1705.6	1778.4	2070.7	1981.2	2190.3
77.5°	1277.1	1378.0	1517.4	1698.3	1501.8
80°	896.5	1037.9	1111.8	1096.2	1306.3
82.5°	568.9	685.4	913.1	1005.7	1106.6
85°	360.9	491.9	783.1	871.5	989.1
87.5°	222.6	401.4	621.9	652.1	584.5
90°	116.5	289.1	415.0	366.1	379.6
92.5°	98.8	216.3	216.3	184.1	169.5
95°	143.5	136.2	109.2	117.5	117.5
97.5°	190.3	106.1	96.7	110.2	115.4
100°	193.4	106.1	90.5	91.5	92.6
102.5°	182.0	121.7	85.3	82.2	79.0
105°	160.2	121.7	85.3	80.1	78.0
107.5°	135.2	111.3	80.1	81.1	81.1
110°	112.3	97.8	78.0	72.8	73.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.6	86.3	73.8	66.6	67.6
115°	77.0	77.0	66.6	60.3	60.3
117.5°	63.4	67.6	68.6	54.1	54.1
120°	52.0	55.1	72.8	49.9	51.0
122.5°	43.7	42.6	88.4	66.6	48.9
125°	36.4	32.2	68.6	72.8	59.3
127.5°	30.2	25.0	85.3	90.5	83.2
130°	25.0	20.8	45.8	68.6	81.1
132.5°	20.8	16.6	44.7	105.0	69.7
135°	17.7	14.6	40.6	42.6	92.6
137.5°	14.6	11.4	19.8	45.8	36.4
140°	12.5	10.4	14.6	57.2	57.2
142.5°	10.4	9.4	10.4	20.8	35.4
145°	9.4	8.3	8.3	16.6	17.7
147.5°	8.3	7.3	7.3	15.6	15.6
150°	7.3	7.3	7.3	10.4	13.5
152.5°	7.3	7.3	7.3	6.2	6.2
155°	7.3	7.3	7.3	5.2	3.1
157.5°	7.3	7.3	8.3	6.2	3.1
160°	8.3	8.3	8.3	6.2	4.2
162.5°	8.3	8.3	8.3	6.2	4.2
165°	8.3	8.3	9.4	7.3	4.2
167.5°	8.3	9.4	9.4	7.3	5.2
170°	8.3	9.4	9.4	7.3	5.2
172.5°	8.3	9.4	9.4	7.3	5.2
175°	9.4	9.4	9.4	8.3	6.2
177.5°	9.4	9.4	9.4	8.3	6.2
180°	8.3	8.3	8.3	8.3	8.3

(END OF REPORT)