

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: P#

Luminaire Tested: **VRVT4S-LD5-18-DR-L850-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1801-511-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4S-LD5-18-DR-L850-CD2-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 5000K LED AND CLEAR ACRYLIC LENS
Light Source: -
Ballast/Driver: -

Summary

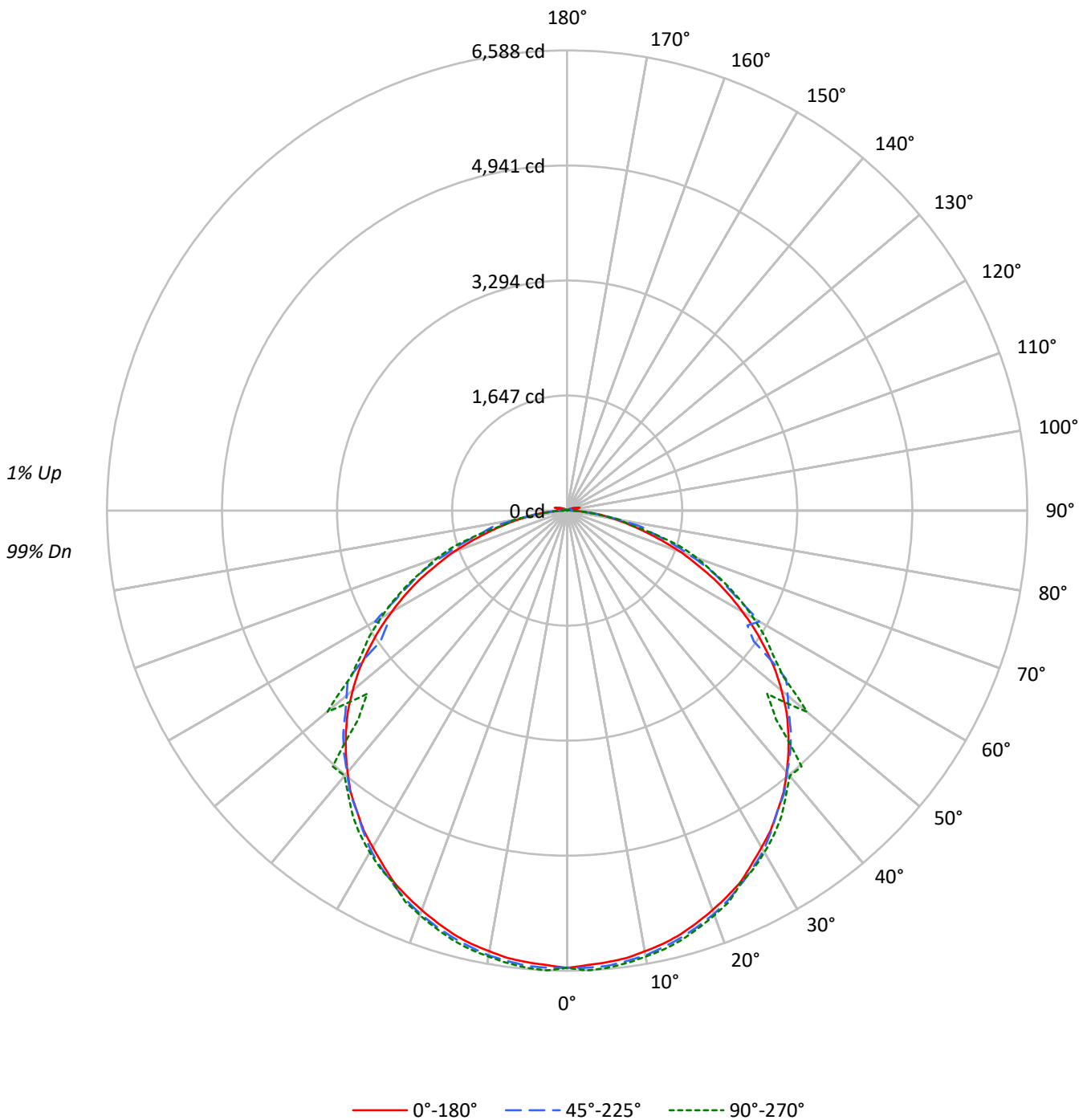
Lumens per Lamp: N/A
Luminaire Lumens: 19335.0 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 137.5
Input Voltage (V): NR
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	78	96	88	82	77	84	79	75	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	35	31	29
9	56	42	34	29	54	42	34	29	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31230	31230	31230
5°	30770	30674	30855
10°	30401	30011	30184
15°	30054	29306	29587
20°	29610	28613	28875
25°	29267	27836	27960
30°	28688	27080	27468
35°	28213	26058	26813
40°	27674	25255	25872
45°	26984	24504	23166
50°	26025	23620	26074
55°	24659	20038	22483
60°	22896	21198	21005
65°	20810	18262	19009
70°	18095	15504	16833
75°	14388	12255	12577
80°	11072	8388	9135
85°	6985	3995	4057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.7	3.2
10°-20°	1785.4	9.2
20°-30°	2717.6	14.1
30°-40°	3310.6	17.1
40°-50°	3457.6	17.9
50°-60°	3163.2	16.4
60°-70°	2415.8	12.5
70°-80°	1317.1	6.8
80°-90°	355.8	1.8
90°-100°	54.4	0.3
100°-110°	66.2	0.3
110°-120°	39.8	0.2
120°-130°	19.0	0.1
130°-140°	6.5	0.0
140°-150°	2.0	0.0
150°-160°	1.0	0.0
160°-170°	1.0	0.0
170°-180°	0.4	0.0
0°-30°	5124.6	26.5
0°-40°	8435.2	43.6
0°-60°	15056.0	77.9
0°-90°	19144.8	99.0
90°-120°	160.4	0.8
90°-150°	187.9	1.0
90°-180°	190.0	1.0
0°-180°	19335.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6545	6545	6545	6545	6545	
5°	6492	6518	6543	6566	6572	617
15°	6280	6304	6327	6350	6360	1772
25°	5870	5889	5899	5915	5882	2700
35°	5251	5279	5251	5318	5347	3288
45°	4479	4499	4532	4765	4226	3452
55°	3472	3493	3262	3618	3594	3103
65°	2318	2388	2478	2486	2517	2287
75°	1130	1216	1280	1278	1270	1223
85°	303	305	280	272	270	330
90°	52	86	82	80	78	39
95°	49	45	47	39	39	58
105°	158	210	27	29	29	158
115°	78	39	52	18	21	80
125°	35	29	14	8	10	33
135°	16	12	6	4	4	13
145°	6	4	2	2	2	4
155°	2	2	2	2	2	1
165°	4	4	4	4	2	1
175°	4	4	4	4	4	0
180°	4	4	4	4	4	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6545.2	6545.2	6545.2	6545.2	6545.2
2.5°	6514.4	6530.8	6551.4	6580.2	6588.5
5°	6491.7	6518.5	6543.2	6565.8	6572.0
7.5°	6462.9	6495.8	6506.1	6534.9	6534.9
10°	6407.3	6444.4	6465.0	6483.5	6483.5
12.5°	6353.8	6380.6	6399.1	6421.7	6432.0
15°	6279.7	6304.4	6327.1	6349.7	6360.0
17.5°	6185.0	6224.2	6238.6	6257.1	6265.3
20°	6086.2	6123.3	6143.9	6160.3	6164.5
22.5°	5981.3	6010.1	6030.7	6036.9	6059.5
25°	5870.1	5888.7	5898.9	5915.4	5882.5
27.5°	5713.7	5748.7	5763.1	5748.7	5781.6
30°	5567.6	5602.6	5619.0	5623.1	5649.9
32.5°	5423.5	5448.2	5440.0	5470.8	5509.9
35°	5250.6	5279.4	5250.6	5318.5	5347.3
37.5°	5088.0	5102.4	5104.5	5172.4	5143.6
40°	4890.4	4908.9	4898.6	4941.9	4958.3
42.5°	4690.8	4707.2	4725.7	4758.7	4968.6
45°	4478.8	4499.3	4532.3	4764.9	4225.6
47.5°	4258.5	4262.6	4305.9	3949.8	3881.9
50°	4007.4	4005.4	4122.7	3750.1	4478.8
52.5°	3756.3	3754.3	3949.8	4126.8	3896.3
55°	3472.3	3492.9	3262.3	3618.4	3593.7
57.5°	3196.5	3215.0	3058.6	3305.6	3359.1
60°	2898.0	2970.1	3175.9	3079.1	3081.2
62.5°	2614.0	2677.8	2768.3	2799.2	2811.6
65°	2317.6	2387.6	2478.1	2486.4	2517.2
67.5°	2002.7	2103.5	2212.6	2198.2	2227.0
70°	1724.8	1601.3	1868.9	1881.2	1971.8
72.5°	1412.0	1560.2	1580.7	1317.3	1696.0
75°	1130.0	1216.4	1280.2	1278.2	1269.9
77.5°	895.3	953.0	1107.3	996.2	901.5
80°	677.2	693.6	734.8	730.7	767.7
82.5°	510.4	485.7	500.2	494.0	436.3
85°	302.6	304.6	279.9	271.7	269.6
87.5°	125.6	140.0	135.8	129.7	140.0
90°	51.5	86.4	82.3	80.3	78.2
92.5°	57.6	61.7	57.6	49.4	43.2
95°	49.4	45.3	47.3	39.1	39.1
97.5°	67.9	37.0	37.0	32.9	30.9
100°	135.8	32.9	35.0	28.8	28.8
102.5°	181.1	35.0	30.9	28.8	30.9
105°	158.5	209.9	26.8	28.8	28.8
107.5°	133.8	123.5	24.7	26.8	28.8
110°	113.2	76.2	20.6	24.7	26.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.6	53.5	18.5	20.6	24.7
115°	78.2	39.1	51.5	18.5	20.6
117.5°	65.9	41.2	55.6	16.5	18.5
120°	53.5	84.4	28.8	14.4	14.4
122.5°	43.2	39.1	20.6	10.3	12.3
125°	35.0	28.8	14.4	8.2	10.3
127.5°	28.8	22.6	10.3	6.2	8.2
130°	24.7	20.6	6.2	6.2	6.2
132.5°	20.6	16.5	6.2	4.1	6.2
135°	16.5	12.3	6.2	4.1	4.1
137.5°	12.3	10.3	4.1	4.1	4.1
140°	10.3	6.2	2.1	2.1	2.1
142.5°	8.2	6.2	2.1	2.1	2.1
145°	6.2	4.1	2.1	2.1	2.1
147.5°	4.1	2.1	2.1	2.1	2.1
150°	2.1	2.1	2.1	2.1	2.1
152.5°	2.1	2.1	2.1	2.1	2.1
155°	2.1	2.1	2.1	2.1	2.1
157.5°	2.1	2.1	2.1	2.1	2.1
160°	2.1	2.1	2.1	2.1	2.1
162.5°	4.1	4.1	4.1	4.1	2.1
165°	4.1	4.1	4.1	4.1	2.1
167.5°	4.1	4.1	4.1	4.1	2.1
170°	4.1	4.1	4.1	4.1	2.1
172.5°	4.1	4.1	4.1	4.1	4.1
175°	4.1	4.1	4.1	4.1	4.1
177.5°	4.1	4.1	4.1	4.1	4.1
180°	4.1	4.1	4.1	4.1	4.1

(END OF REPORT)