

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-LD5-12-DR-L840-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-LD5-12-DR-L840-CD2-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 4000K LED AND CLEAR ACRYLIC LENS
Light Source: -
Ballast/Driver: -

Summary

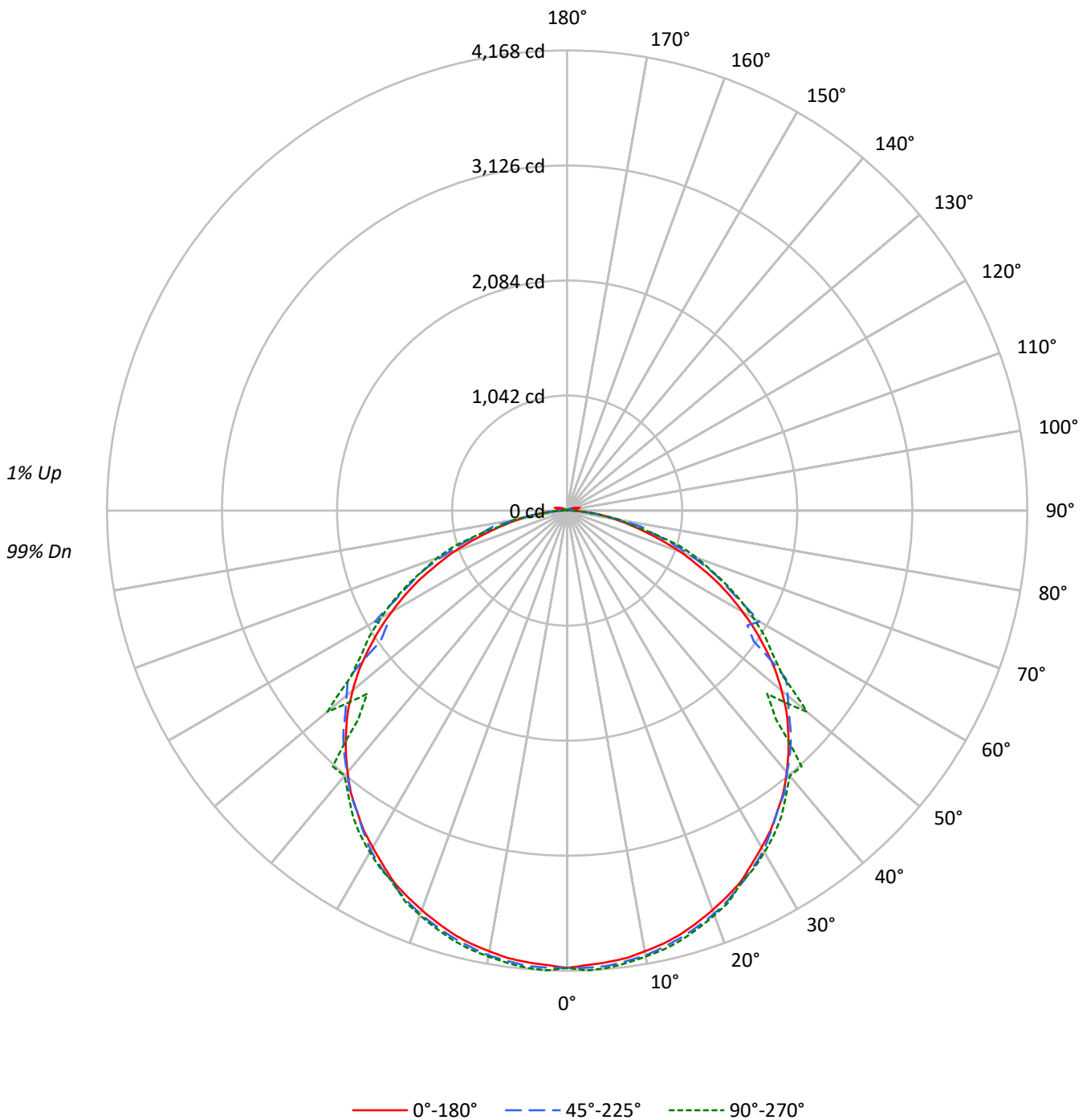
Lumens per Lamp: N/A
Luminaire Lumens: 12232.0 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 83.9
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°	19757	19757	19757
5°	19466	19405	19520
10°	19233	18986	19096
15°	19013	18540	18718
20°	18733	18101	18268
25°	18515	17610	17689
30°	18148	17132	17377
35°	17849	16485	16963
40°	17507	15977	16368
45°	17071	15502	14656
50°	16464	14943	16495
55°	15600	12677	14224
60°	14485	13411	13289
65°	13165	11554	12026
70°	11448	9808	10649
75°	9102	7753	7957
80°	7004	5307	5780
85°	4418	2528	2567



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.3	3.2
10°-20°	1129.5	9.2
20°-30°	1719.2	14.1
30°-40°	2094.4	17.1
40°-50°	2187.4	17.9
50°-60°	2001.2	16.4
60°-70°	1528.3	12.5
70°-80°	833.3	6.8
80°-90°	225.1	1.8
90°-100°	34.4	0.3
100°-110°	41.8	0.3
110°-120°	25.2	0.2
120°-130°	12.0	0.1
130°-140°	4.1	0.0
140°-150°	1.2	0.0
150°-160°	0.6	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	3242.0	26.5
0°-40°	5336.4	43.6
0°-60°	9525.0	77.9
0°-90°	12111.7	99.0
90°-120°	101.5	0.8
90°-150°	118.8	1.0
90°-180°	120.0	1.0
0°-180°	12232.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4141	4141	4141	4141	4141	
5°	4107	4124	4139	4154	4158	391
15°	3973	3988	4003	4017	4024	1121
25°	3714	3725	3732	3742	3722	1708
35°	3322	3340	3322	3365	3383	2080
45°	2833	2846	2867	3014	2673	2184
55°	2197	2210	2064	2289	2274	1963
65°	1466	1510	1568	1573	1592	1447
75°	715	770	810	809	803	774
85°	191	193	177	172	171	209
90°	33	55	52	51	50	25
95°	31	29	30	25	25	37
105°	100	133	17	18	18	100
115°	50	25	33	12	13	50
125°	22	18	9	5	6	21
135°	10	8	4	3	3	8
145°	4	3	1	1	1	3
155°	1	1	1	1	1	1
165°	3	3	3	3	1	1
175°	3	3	3	3	3	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4140.7	4140.7	4140.7	4140.7	4140.7
2.5°	4121.2	4131.6	4144.7	4162.9	4168.1
5°	4106.9	4123.8	4139.4	4153.8	4157.7
7.5°	4088.7	4109.5	4116.0	4134.2	4134.2
10°	4053.5	4076.9	4090.0	4101.7	4101.7
12.5°	4019.7	4036.6	4048.3	4062.6	4069.1
15°	3972.8	3988.4	4002.7	4017.0	4023.6
17.5°	3912.9	3937.6	3946.7	3958.5	3963.7
20°	3850.4	3873.8	3886.8	3897.3	3899.9
22.5°	3784.0	3802.2	3815.2	3819.1	3833.4
25°	3713.7	3725.4	3731.9	3742.3	3721.5
27.5°	3614.7	3636.8	3645.9	3636.8	3657.7
30°	3522.2	3544.4	3554.8	3557.4	3574.3
32.5°	3431.1	3446.7	3441.5	3461.0	3485.8
35°	3321.7	3339.9	3321.7	3364.7	3382.9
37.5°	3218.8	3228.0	3229.3	3272.2	3254.0
40°	3093.8	3105.6	3099.1	3126.4	3136.8
42.5°	2967.5	2978.0	2989.7	3010.5	3143.3
45°	2833.4	2846.4	2867.3	3014.4	2673.3
47.5°	2694.1	2696.7	2724.0	2498.8	2455.8
50°	2535.2	2533.9	2608.2	2372.5	2833.4
52.5°	2376.4	2375.1	2498.8	2610.8	2464.9
55°	2196.7	2209.7	2063.9	2289.1	2273.5
57.5°	2022.2	2033.9	1935.0	2091.2	2125.1
60°	1833.4	1879.0	2009.2	1948.0	1949.3
62.5°	1653.7	1694.1	1751.4	1770.9	1778.7
65°	1466.2	1510.5	1567.8	1573.0	1592.5
67.5°	1267.0	1330.8	1399.8	1390.7	1408.9
70°	1091.2	1013.1	1182.3	1190.1	1247.4
72.5°	893.3	987.0	1000.0	833.4	1072.9
75°	714.9	769.6	809.9	808.6	803.4
77.5°	566.4	602.9	700.5	630.2	570.3
80°	428.4	438.8	464.9	462.3	485.7
82.5°	322.9	307.3	316.4	312.5	276.0
85°	191.4	192.7	177.1	171.9	170.6
87.5°	79.4	88.5	85.9	82.0	88.5
90°	32.6	54.7	52.1	50.8	49.5
92.5°	36.5	39.1	36.5	31.3	27.3
95°	31.3	28.6	29.9	24.7	24.7
97.5°	43.0	23.4	23.4	20.8	19.5
100°	85.9	20.8	22.1	18.2	18.2
102.5°	114.6	22.1	19.5	18.2	19.5
105°	100.3	132.8	16.9	18.2	18.2
107.5°	84.6	78.1	15.6	16.9	18.2
110°	71.6	48.2	13.0	15.6	16.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	58.6	33.9	11.7	13.0	15.6
115°	49.5	24.7	32.6	11.7	13.0
117.5°	41.7	26.0	35.2	10.4	11.7
120°	33.9	53.4	18.2	9.1	9.1
122.5°	27.3	24.7	13.0	6.5	7.8
125°	22.1	18.2	9.1	5.2	6.5
127.5°	18.2	14.3	6.5	3.9	5.2
130°	15.6	13.0	3.9	3.9	3.9
132.5°	13.0	10.4	3.9	2.6	3.9
135°	10.4	7.8	3.9	2.6	2.6
137.5°	7.8	6.5	2.6	2.6	2.6
140°	6.5	3.9	1.3	1.3	1.3
142.5°	5.2	3.9	1.3	1.3	1.3
145°	3.9	2.6	1.3	1.3	1.3
147.5°	2.6	1.3	1.3	1.3	1.3
150°	1.3	1.3	1.3	1.3	1.3
152.5°	1.3	1.3	1.3	1.3	1.3
155°	1.3	1.3	1.3	1.3	1.3
157.5°	1.3	1.3	1.3	1.3	1.3
160°	1.3	1.3	1.3	1.3	1.3
162.5°	2.6	2.6	2.6	2.6	1.3
165°	2.6	2.6	2.6	2.6	1.3
167.5°	2.6	2.6	2.6	2.6	1.3
170°	2.6	2.6	2.6	2.6	1.3
172.5°	2.6	2.6	2.6	2.6	2.6
175°	2.6	2.6	2.6	2.6	2.6
177.5°	2.6	2.6	2.6	2.6	2.6
180°	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)