

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-LD5-15-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-LD5-15-DR-L840-CD2-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 4000K LED AND CLEAR ACRYLIC LENS
Light Source: -
Ballast/Driver: -

Summary

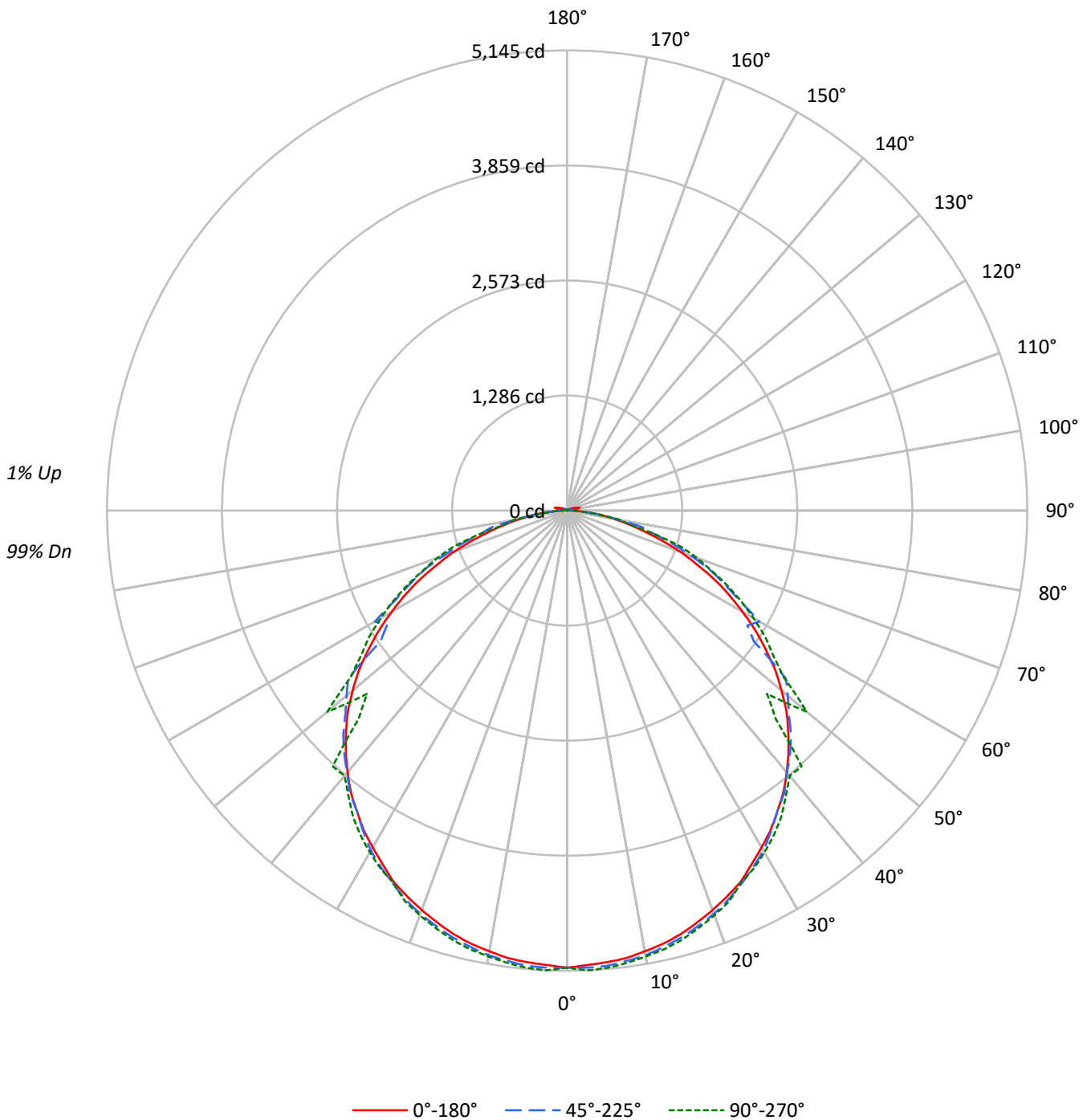
Lumens per Lamp: N/A
Luminaire Lumens: 15098.0 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 108.3
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°	24387	24387	24387
5°	24028	23952	24093
10°	23739	23434	23570
15°	23468	22884	23103
20°	23122	22343	22548
25°	22853	21736	21833
30°	22401	21146	21449
35°	22031	20347	20938
40°	21609	19721	20203
45°	21071	19134	18090
50°	20322	18443	20360
55°	19255	15647	17556
60°	17879	16553	16402
65°	16250	14261	14844
70°	14130	12107	13144
75°	11235	9570	9821
80°	8646	6550	7134
85°	5454	3120	3167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.4	3.2
10°-20°	1394.1	9.2
20°-30°	2122.1	14.1
30°-40°	2585.1	17.1
40°-50°	2699.9	17.9
50°-60°	2470.0	16.4
60°-70°	1886.4	12.5
70°-80°	1028.5	6.8
80°-90°	277.9	1.8
90°-100°	42.5	0.3
100°-110°	51.7	0.3
110°-120°	31.1	0.2
120°-130°	14.8	0.1
130°-140°	5.1	0.0
140°-150°	1.5	0.0
150°-160°	0.7	0.0
160°-170°	0.8	0.0
170°-180°	0.3	0.0
0°-30°	4001.6	26.5
0°-40°	6586.7	43.6
0°-60°	11756.7	77.9
0°-90°	14949.5	99.0
90°-120°	125.3	0.8
90°-150°	146.7	1.0
90°-180°	149.0	1.0
0°-180°	15098.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5111	5111	5111	5111	5111	
5°	5069	5090	5109	5127	5132	482
15°	4904	4923	4941	4958	4966	1383
25°	4584	4598	4606	4619	4593	2108
35°	4100	4122	4100	4153	4176	2568
45°	3497	3513	3539	3721	3300	2695
55°	2711	2727	2547	2826	2806	2423
65°	1810	1864	1935	1942	1966	1786
75°	882	950	1000	998	992	955
85°	236	238	219	212	210	258
90°	40	68	64	63	61	31
95°	39	35	37	30	30	45
105°	124	164	21	22	22	124
115°	61	30	40	14	16	62
125°	27	22	11	6	8	26
135°	13	10	5	3	3	10
145°	5	3	2	2	2	3
155°	2	2	2	2	2	1
165°	3	3	3	3	2	1
175°	3	3	3	3	3	0
180°	3	3	3	3	3	



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CATALOG NUMBER: VRVT4S-LD5-15-DR-L840-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5110.9	5110.9	5110.9	5110.9	5110.9
2.5°	5086.8	5099.7	5115.8	5138.3	5144.7
5°	5069.2	5090.0	5109.3	5127.0	5131.8
7.5°	5046.7	5072.4	5080.4	5102.9	5102.9
10°	5003.3	5032.2	5048.3	5062.7	5062.7
12.5°	4961.5	4982.4	4996.8	5014.5	5022.5
15°	4903.6	4922.9	4940.6	4958.3	4966.3
17.5°	4829.7	4860.2	4871.5	4885.9	4892.4
20°	4752.5	4781.5	4797.5	4810.4	4813.6
22.5°	4670.6	4693.1	4709.1	4714.0	4731.6
25°	4583.8	4598.2	4606.3	4619.1	4593.4
27.5°	4461.6	4488.9	4500.2	4488.9	4514.7
30°	4347.5	4374.8	4387.7	4390.9	4411.8
32.5°	4235.0	4254.3	4247.9	4272.0	4302.5
35°	4100.0	4122.5	4100.0	4153.0	4175.5
37.5°	3973.0	3984.3	3985.9	4038.9	4016.4
40°	3818.7	3833.2	3825.2	3858.9	3871.8
42.5°	3662.8	3675.7	3690.2	3715.9	3879.8
45°	3497.3	3513.4	3539.1	3720.7	3299.6
47.5°	3325.3	3328.5	3362.3	3084.2	3031.2
50°	3129.2	3127.6	3219.2	2928.3	3497.3
52.5°	2933.2	2931.6	3084.2	3222.5	3042.5
55°	2711.4	2727.4	2547.4	2825.5	2806.2
57.5°	2496.0	2510.5	2388.3	2581.2	2623.0
60°	2263.0	2319.2	2479.9	2404.4	2406.0
62.5°	2041.2	2091.0	2161.7	2185.8	2195.5
65°	1809.7	1864.4	1935.1	1941.5	1965.6
67.5°	1563.8	1642.6	1727.8	1716.5	1739.0
70°	1346.8	1250.4	1459.4	1469.0	1539.7
72.5°	1102.5	1218.3	1234.3	1028.6	1324.3
75°	882.4	949.9	999.7	998.1	991.7
77.5°	699.1	744.1	864.7	777.9	704.0
80°	528.8	541.6	573.8	570.6	599.5
82.5°	398.6	379.3	390.6	385.7	340.7
85°	236.3	237.9	218.6	212.2	210.5
87.5°	98.0	109.3	106.1	101.3	109.3
90°	40.2	67.5	64.3	62.7	61.1
92.5°	45.0	48.2	45.0	38.6	33.8
95°	38.6	35.4	37.0	30.5	30.5
97.5°	53.0	28.9	28.9	25.7	24.1
100°	106.1	25.7	27.3	22.5	22.5
102.5°	141.4	27.3	24.1	22.5	24.1
105°	123.8	163.9	20.9	22.5	22.5
107.5°	104.5	96.4	19.3	20.9	22.5
110°	88.4	59.5	16.1	19.3	20.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	72.3	41.8	14.5	16.1	19.3
115°	61.1	30.5	40.2	14.5	16.1
117.5°	51.4	32.1	43.4	12.9	14.5
120°	41.8	65.9	22.5	11.3	11.3
122.5°	33.8	30.5	16.1	8.0	9.6
125°	27.3	22.5	11.3	6.4	8.0
127.5°	22.5	17.7	8.0	4.8	6.4
130°	19.3	16.1	4.8	4.8	4.8
132.5°	16.1	12.9	4.8	3.2	4.8
135°	12.9	9.6	4.8	3.2	3.2
137.5°	9.6	8.0	3.2	3.2	3.2
140°	8.0	4.8	1.6	1.6	1.6
142.5°	6.4	4.8	1.6	1.6	1.6
145°	4.8	3.2	1.6	1.6	1.6
147.5°	3.2	1.6	1.6	1.6	1.6
150°	1.6	1.6	1.6	1.6	1.6
152.5°	1.6	1.6	1.6	1.6	1.6
155°	1.6	1.6	1.6	1.6	1.6
157.5°	1.6	1.6	1.6	1.6	1.6
160°	1.6	1.6	1.6	1.6	1.6
162.5°	3.2	3.2	3.2	3.2	1.6
165°	3.2	3.2	3.2	3.2	1.6
167.5°	3.2	3.2	3.2	3.2	1.6
170°	3.2	3.2	3.2	3.2	1.6
172.5°	3.2	3.2	3.2	3.2	3.2
175°	3.2	3.2	3.2	3.2	3.2
177.5°	3.2	3.2	3.2	3.2	3.2
180°	3.2	3.2	3.2	3.2	3.2

(END OF REPORT)