

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-DRF-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 (G3-1801-511-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4S-LD5-15-DRF-L850-CD2-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 5000K LED AND FROSTED ACRYLIC LENS
Light Source: -
Ballast/Driver: -

Summary

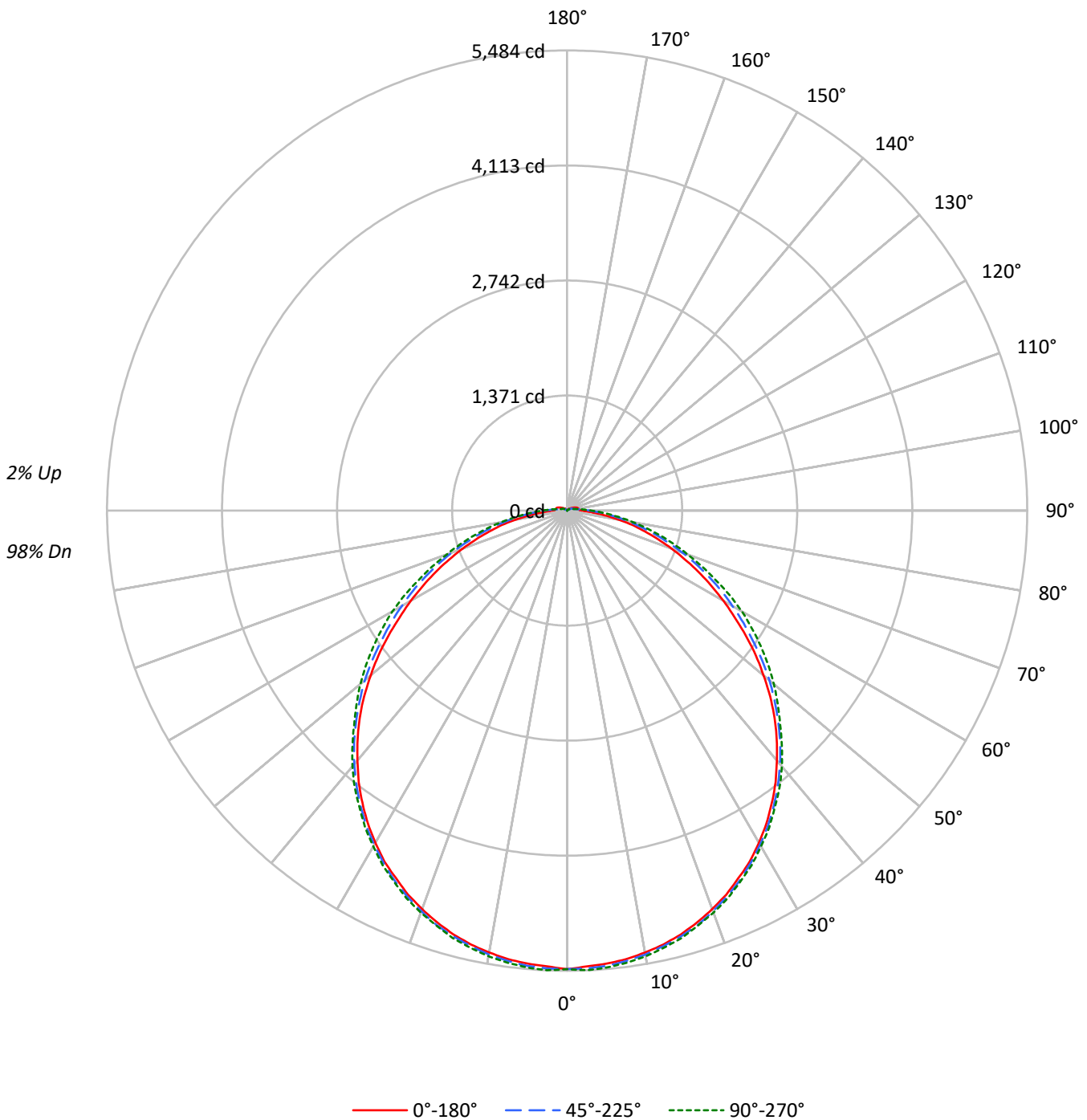
Lumens per Lamp: N/A
Luminaire Lumens: 15932.9 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	81
2	98	89	82	77	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	64	86	77	69	63	73	67	61	70	65	60	67	63	59	56
4	82	69	61	54	79	68	60	53	65	58	52	63	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	45	54	48	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	39	36
7	64	51	42	36	62	50	41	36	48	41	35	46	40	35	45	39	34	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	41	35	31	29
9	56	42	34	29	54	42	34	29	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26072	26072	26072
5°	25686	25530	25664
10°	25370	24935	25108
15°	25029	24323	24534
20°	24591	23665	23883
25°	24091	22959	23198
30°	23557	22163	22468
35°	22857	21308	21637
40°	21997	20345	20771
45°	21075	19232	19672
50°	19848	18039	18724
55°	18459	16594	17614
60°	16995	15190	16394
65°	15493	13737	14702
70°	13895	12093	13041
75°	12195	10301	11370
80°	10158	8456	9555
85°	7543	6567	7522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.4	3.2
10°-20°	1481.1	9.3
20°-30°	2239.7	14.1
30°-40°	2682.7	16.8
40°-50°	2740.1	17.2
50°-60°	2425.9	15.2
60°-70°	1838.9	11.5
70°-80°	1133.5	7.1
80°-90°	501.4	3.1
90°-100°	180.1	1.1
100°-110°	96.6	0.6
110°-120°	57.6	0.4
120°-130°	26.6	0.2
130°-140°	8.2	0.1
140°-150°	1.6	0.0
150°-160°	0.7	0.0
160°-170°	0.6	0.0
170°-180°	0.2	0.0
0°-30°	4238.2	26.6
0°-40°	6920.9	43.4
0°-60°	12086.9	75.9
0°-90°	15560.7	97.7
90°-120°	334.3	2.1
90°-150°	370.7	2.3
90°-180°	372.0	2.3
0°-180°	15932.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5464	5464	5464	5464	5464	
5°	5419	5430	5446	5461	5466	515
15°	5230	5234	5251	5263	5274	1475
25°	4832	4846	4865	4880	4880	2228
35°	4254	4268	4294	4324	4315	2659
45°	3498	3517	3557	3598	3588	2692
55°	2599	2651	2702	2786	2815	2326
65°	1725	1770	1864	1936	1947	1710
75°	958	1003	1076	1133	1148	1020
85°	327	391	460	500	500	333
90°	172	216	267	290	289	99
95°	141	141	155	170	169	114
105°	126	108	80	73	74	131
115°	83	67	53	45	47	83
125°	44	36	24	22	26	40
135°	19	16	5	5	9	16
145°	6	4	1	0	0	4
155°	2	2	2	1	0	1
165°	3	3	2	1	1	1
175°	3	3	3	2	1	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5464.2	5464.2	5464.2	5464.2	5464.2
2.5°	5437.3	5443.8	5461.0	5478.1	5483.5
5°	5419.0	5429.8	5445.9	5461.0	5466.3
7.5°	5392.2	5400.8	5414.7	5429.8	5434.1
10°	5347.0	5356.7	5371.7	5385.7	5393.2
12.5°	5296.5	5300.8	5314.8	5330.9	5335.2
15°	5229.8	5234.1	5251.3	5263.2	5273.9
17.5°	5147.1	5151.4	5177.2	5182.5	5183.6
20°	5054.6	5061.1	5081.5	5091.2	5098.7
22.5°	4953.6	4962.2	4978.3	4990.1	5000.9
25°	4832.1	4846.1	4865.4	4880.5	4880.5
27.5°	4714.9	4717.1	4735.3	4751.5	4762.2
30°	4571.9	4574.1	4598.8	4617.1	4621.4
32.5°	4420.4	4429.0	4454.8	4474.1	4479.5
35°	4253.7	4267.7	4293.5	4323.6	4315.0
37.5°	4080.7	4088.2	4124.7	4149.5	4159.1
40°	3887.2	3908.7	3946.3	3973.2	3980.7
42.5°	3698.0	3717.3	3758.2	3784.0	3787.2
45°	3498.0	3517.4	3557.1	3598.0	3588.3
47.5°	3281.9	3312.0	3351.8	3394.8	3402.3
50°	3056.2	3100.3	3148.6	3184.1	3216.4
52.5°	2834.7	2870.2	2926.1	2989.5	3019.6
55°	2599.3	2650.9	2701.5	2786.4	2815.4
57.5°	2366.1	2428.4	2490.8	2584.3	2610.1
60°	2151.1	2200.5	2275.8	2367.1	2404.8
62.5°	1931.8	1988.7	2072.6	2156.4	2182.2
65°	1725.4	1770.5	1864.0	1936.1	1946.8
67.5°	1517.9	1571.6	1659.8	1735.0	1739.3
70°	1324.4	1372.8	1457.7	1521.1	1527.6
72.5°	1137.3	1186.8	1258.8	1323.3	1336.2
75°	957.8	1003.0	1076.1	1133.0	1148.1
77.5°	798.7	832.0	896.5	961.0	966.4
80°	621.3	660.0	740.7	794.4	803.0
82.5°	473.0	519.2	591.2	639.6	641.8
85°	326.8	391.3	460.1	499.9	499.9
87.5°	225.7	293.5	354.7	381.6	384.8
90°	172.0	216.1	266.6	290.2	289.2
92.5°	149.4	169.8	202.1	221.4	218.2
95°	140.8	140.8	154.8	169.8	168.8
97.5°	136.5	127.9	122.5	132.2	131.1
100°	135.4	120.4	101.0	105.3	106.4
102.5°	132.2	113.9	88.1	87.1	88.1
105°	125.8	107.5	79.5	73.1	74.2
107.5°	117.2	98.9	73.1	64.5	65.6
110°	106.4	88.1	66.6	58.0	58.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	95.7	77.4	60.2	51.6	52.7
115°	82.8	66.6	52.7	45.1	47.3
117.5°	72.0	58.0	46.2	38.7	41.9
120°	61.3	50.5	37.6	32.2	36.5
122.5°	51.6	43.0	30.1	26.9	31.2
125°	44.1	35.5	23.6	21.5	25.8
127.5°	36.5	30.1	17.2	17.2	20.4
130°	30.1	24.7	10.7	12.9	16.1
132.5°	24.7	20.4	7.5	8.6	11.8
135°	19.3	16.1	5.4	5.4	8.6
137.5°	16.1	11.8	3.2	2.1	4.3
140°	11.8	8.6	2.1	0.0	1.1
142.5°	9.7	6.4	1.1	0.0	0.0
145°	6.4	4.3	1.1	0.0	0.0
147.5°	4.3	2.1	1.1	1.1	0.0
150°	2.1	2.1	1.1	1.1	0.0
152.5°	2.1	2.1	1.1	1.1	0.0
155°	2.1	2.1	2.1	1.1	0.0
157.5°	2.1	2.1	2.1	1.1	0.0
160°	2.1	2.1	2.1	1.1	1.1
162.5°	3.2	3.2	2.1	1.1	1.1
165°	3.2	3.2	2.1	1.1	1.1
167.5°	3.2	3.2	2.1	2.1	1.1
170°	3.2	3.2	2.1	1.1	1.1
172.5°	3.2	3.2	2.1	2.1	1.1
175°	3.2	3.2	3.2	2.1	1.1
177.5°	3.2	3.2	3.2	2.1	1.1
180°	3.2	3.2	3.2	3.2	3.2

(END OF REPORT)