

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-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-LD5-12-DR-L850-CD2-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 5000K LED AND CLEAR ACRYLIC LENS
Light Source: -
Ballast/Driver: -

Summary

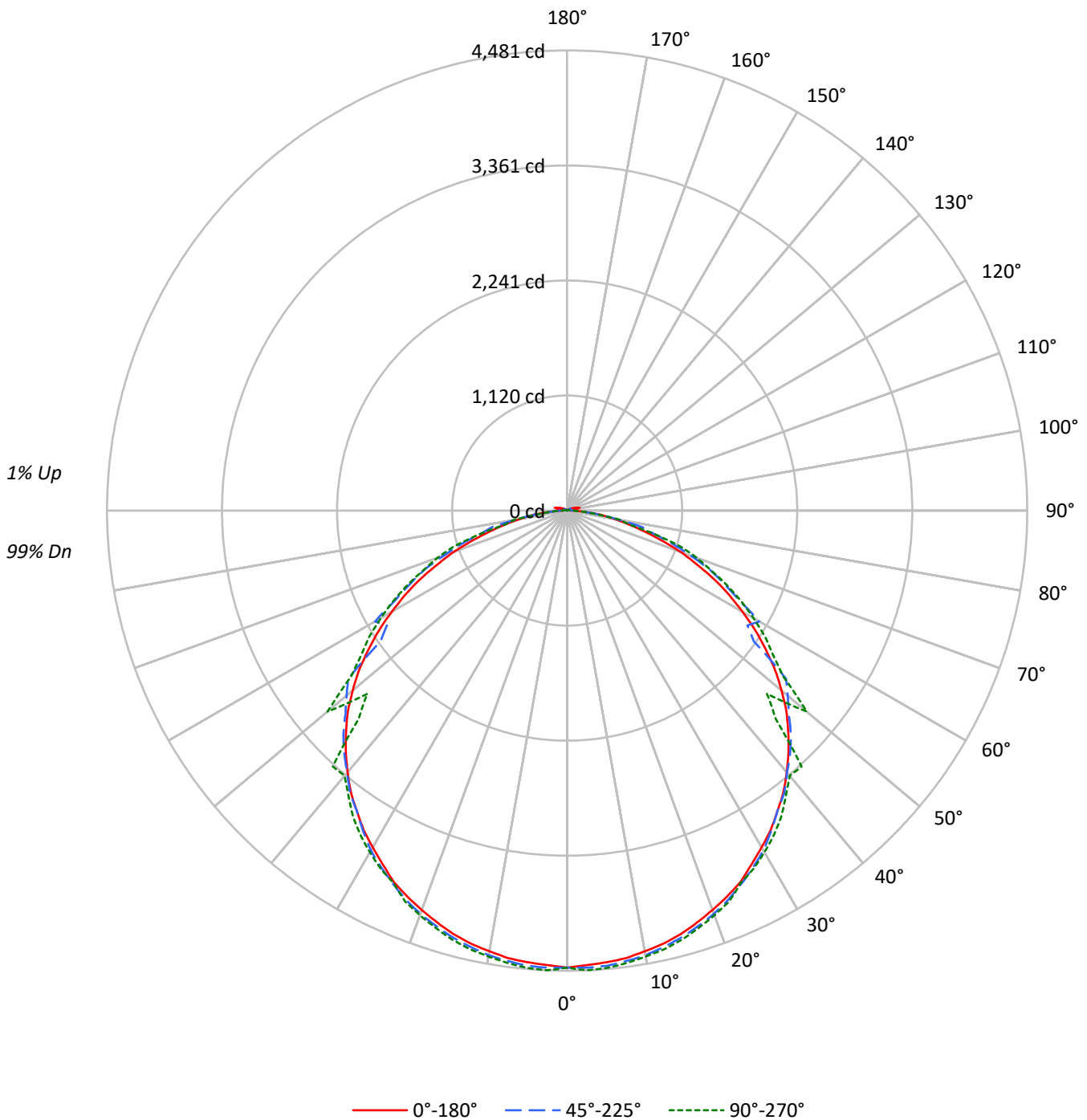
Lumens per Lamp: N/A
Luminaire Lumens: 13149.0 lumens
Efficiency: N/A
Efficacy: 156.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

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	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°	21239	21239	21239
5°	20926	20860	20983
10°	20674	20409	20527
15°	20439	19930	20121
20°	20137	19459	19637
25°	19903	18931	19015
30°	19509	18416	18680
35°	19187	17721	18235
40°	18820	17175	17595
45°	18350	16664	15755
50°	17699	16063	17731
55°	16770	13628	15290
60°	15570	14416	14285
65°	14152	12420	12928
70°	12306	10544	11447
75°	9785	8334	8553
80°	7529	5704	6213
85°	4750	2718	2760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.8	3.2
10°-20°	1214.2	9.2
20°-30°	1848.1	14.1
30°-40°	2251.4	17.1
40°-50°	2351.4	17.9
50°-60°	2151.2	16.4
60°-70°	1642.9	12.5
70°-80°	895.7	6.8
80°-90°	242.0	1.8
90°-100°	37.0	0.3
100°-110°	45.0	0.3
110°-120°	27.1	0.2
120°-130°	12.9	0.1
130°-140°	4.4	0.0
140°-150°	1.3	0.0
150°-160°	0.6	0.0
160°-170°	0.7	0.0
170°-180°	0.3	0.0
0°-30°	3485.1	26.5
0°-40°	5736.4	43.6
0°-60°	10239.0	77.9
0°-90°	13019.6	99.0
90°-120°	109.1	0.8
90°-150°	127.8	1.0
90°-180°	129.0	1.0
0°-180°	13149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4451	4451	4451	4451	4451	
5°	4415	4433	4450	4465	4469	420
15°	4271	4287	4303	4318	4325	1205
25°	3992	4005	4012	4023	4000	1836
35°	3571	3590	3571	3617	3636	2236
45°	3046	3060	3082	3240	2874	2348
55°	2361	2375	2219	2461	2444	2110
65°	1576	1624	1685	1691	1712	1555
75°	768	827	871	869	864	832
85°	206	207	190	185	183	225
90°	35	59	56	55	53	27
95°	34	31	32	27	27	40
105°	108	143	18	20	20	108
115°	53	27	35	13	14	54
125°	24	20	10	6	7	22
135°	11	8	4	3	3	9
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°	4451.2	4451.2	4451.2	4451.2	4451.2
2.5°	4430.2	4441.4	4455.4	4475.0	4480.6
5°	4414.8	4433.0	4449.8	4465.2	4469.4
7.5°	4395.2	4417.6	4424.6	4444.2	4444.2
10°	4357.4	4382.6	4396.6	4409.2	4409.2
12.5°	4321.0	4339.2	4351.8	4367.2	4374.2
15°	4270.6	4287.4	4302.8	4318.2	4325.2
17.5°	4206.2	4232.8	4242.6	4255.2	4260.8
20°	4139.0	4164.2	4178.2	4189.4	4192.2
22.5°	4067.6	4087.2	4101.2	4105.4	4120.8
25°	3992.1	4004.7	4011.7	4022.8	4000.5
27.5°	3885.7	3909.5	3919.3	3909.5	3931.9
30°	3786.3	3810.1	3821.3	3824.1	3842.3
32.5°	3688.3	3705.1	3699.5	3720.5	3747.1
35°	3570.7	3590.3	3570.7	3616.9	3636.5
37.5°	3460.2	3470.0	3471.4	3517.5	3497.9
40°	3325.8	3338.4	3331.4	3360.8	3372.0
42.5°	3190.0	3201.2	3213.8	3236.2	3379.0
45°	3045.8	3059.8	3082.2	3240.4	2873.7
47.5°	2896.1	2898.9	2928.3	2686.1	2639.9
50°	2725.3	2723.9	2803.7	2550.3	3045.8
52.5°	2554.5	2553.1	2686.1	2806.5	2649.7
55°	2361.4	2375.4	2218.6	2460.7	2443.9
57.5°	2173.8	2186.4	2080.0	2248.0	2284.4
60°	1970.8	2019.8	2159.8	2094.0	2095.4
62.5°	1777.7	1821.1	1882.6	1903.6	1912.0
65°	1576.1	1623.7	1685.3	1690.9	1711.9
67.5°	1361.9	1430.5	1504.7	1494.9	1514.5
70°	1173.0	1089.0	1271.0	1279.4	1340.9
72.5°	960.2	1061.0	1075.0	895.8	1153.4
75°	768.5	827.2	870.6	869.2	863.6
77.5°	608.9	648.1	753.1	677.5	613.1
80°	460.5	471.7	499.7	496.9	522.1
82.5°	347.1	330.3	340.1	335.9	296.7
85°	205.8	207.2	190.4	184.8	183.4
87.5°	85.4	95.2	92.4	88.2	95.2
90°	35.0	58.8	56.0	54.6	53.2
92.5°	39.2	42.0	39.2	33.6	29.4
95°	33.6	30.8	32.2	26.6	26.6
97.5°	46.2	25.2	25.2	22.4	21.0
100°	92.4	22.4	23.8	19.6	19.6
102.5°	123.2	23.8	21.0	19.6	21.0
105°	107.8	142.8	18.2	19.6	19.6
107.5°	91.0	84.0	16.8	18.2	19.6
110°	77.0	51.8	14.0	16.8	18.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.0	36.4	12.6	14.0	16.8
115°	53.2	26.6	35.0	12.6	14.0
117.5°	44.8	28.0	37.8	11.2	12.6
120°	36.4	57.4	19.6	9.8	9.8
122.5°	29.4	26.6	14.0	7.0	8.4
125°	23.8	19.6	9.8	5.6	7.0
127.5°	19.6	15.4	7.0	4.2	5.6
130°	16.8	14.0	4.2	4.2	4.2
132.5°	14.0	11.2	4.2	2.8	4.2
135°	11.2	8.4	4.2	2.8	2.8
137.5°	8.4	7.0	2.8	2.8	2.8
140°	7.0	4.2	1.4	1.4	1.4
142.5°	5.6	4.2	1.4	1.4	1.4
145°	4.2	2.8	1.4	1.4	1.4
147.5°	2.8	1.4	1.4	1.4	1.4
150°	1.4	1.4	1.4	1.4	1.4
152.5°	1.4	1.4	1.4	1.4	1.4
155°	1.4	1.4	1.4	1.4	1.4
157.5°	1.4	1.4	1.4	1.4	1.4
160°	1.4	1.4	1.4	1.4	1.4
162.5°	2.8	2.8	2.8	2.8	1.4
165°	2.8	2.8	2.8	2.8	1.4
167.5°	2.8	2.8	2.8	2.8	1.4
170°	2.8	2.8	2.8	2.8	1.4
172.5°	2.8	2.8	2.8	2.8	2.8
175°	2.8	2.8	2.8	2.8	2.8
177.5°	2.8	2.8	2.8	2.8	2.8
180°	2.8	2.8	2.8	2.8	2.8

(END OF REPORT)