

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

Summary

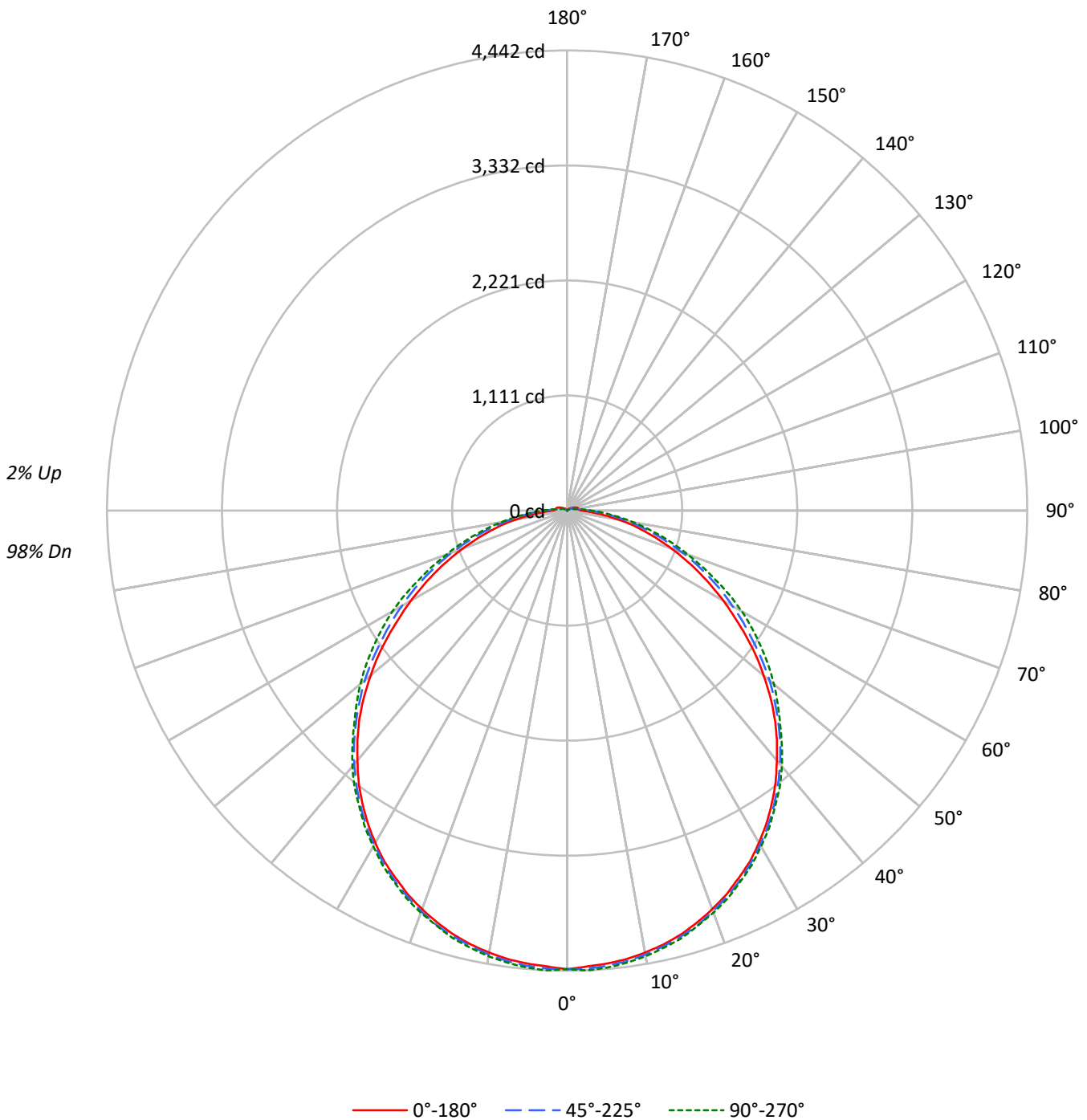
Lumens per Lamp: N/A
Luminaire Lumens: 12908.0 lumens
Efficiency: N/A
Efficacy: 153.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 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	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	100	100	100	100	100	100	98		
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	83	83	83	83	83	83	81		
2	98	89	82	77	95	87	81	75	83	78	73	80	75	71	76	73	69	69	69	69	69	69	69	67		
3	89	78	70	64	86	77	69	63	73	67	61	70	65	60	67	63	59	59	59	59	59	59	59	56		
4	82	69	61	54	79	68	60	53	65	58	52	63	56	51	60	55	50	50	50	50	50	50	50	48		
5	75	62	53	46	73	61	52	46	58	51	45	56	50	45	54	48	44	44	44	44	44	44	44	42		
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	39	39	39	39	39	39	39	36		
7	64	51	42	36	62	50	41	36	48	41	35	46	40	35	45	39	34	34	34	34	34	34	34	32		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	41	35	31	31	31	31	31	31	31	29		
9	56	42	34	29	54	42	34	29	40	33	28	39	33	28	38	32	28	28	28	28	28	28	28	26		
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	29	25	25	25	25	25	25	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21122	21122	21122
5°	20809	20683	20791
10°	20553	20202	20342
15°	20277	19705	19876
20°	19922	19172	19349
25°	19518	18600	18793
30°	19085	17955	18202
35°	18517	17263	17529
40°	17821	16483	16828
45°	17074	15581	15937
50°	16080	14615	15169
55°	14954	13443	14270
60°	13768	12306	13281
65°	12551	11129	11911
70°	11256	9797	10564
75°	9880	8345	9211
80°	8230	6849	7742
85°	6112	5319	6094



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.1	3.2
10°-20°	1199.9	9.3
20°-30°	1814.5	14.1
30°-40°	2173.4	16.8
40°-50°	2219.9	17.2
50°-60°	1965.4	15.2
60°-70°	1489.7	11.5
70°-80°	918.3	7.1
80°-90°	406.2	3.1
90°-100°	146.0	1.1
100°-110°	78.2	0.6
110°-120°	46.7	0.4
120°-130°	21.5	0.2
130°-140°	6.7	0.1
140°-150°	1.3	0.0
150°-160°	0.6	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	3433.5	26.6
0°-40°	5606.9	43.4
0°-60°	9792.2	75.9
0°-90°	12606.4	97.7
90°-120°	270.8	2.1
90°-150°	300.3	2.3
90°-180°	302.0	2.3
0°-180°	12908.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4427	4427	4427	4427	4427	
5°	4390	4399	4412	4424	4428	417
15°	4237	4240	4254	4264	4273	1195
25°	3915	3926	3942	3954	3954	1805
35°	3446	3458	3478	3503	3496	2154
45°	2834	2850	2882	2915	2907	2181
55°	2106	2148	2189	2257	2281	1884
65°	1398	1434	1510	1568	1577	1386
75°	776	812	872	918	930	826
85°	265	317	373	405	405	270
90°	139	175	216	235	234	80
95°	114	114	125	138	137	93
105°	102	87	64	59	60	106
115°	67	54	43	37	38	67
125°	36	29	19	17	21	33
135°	16	13	4	4	7	13
145°	5	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°	4426.8	4426.8	4426.8	4426.8	4426.8
2.5°	4405.0	4410.2	4424.1	4438.1	4442.4
5°	4390.2	4398.9	4412.0	4424.1	4428.5
7.5°	4368.4	4375.4	4386.7	4398.9	4402.4
10°	4331.8	4339.7	4351.9	4363.2	4369.3
12.5°	4290.9	4294.4	4305.7	4318.8	4322.3
15°	4236.9	4240.4	4254.3	4263.9	4272.6
17.5°	4169.8	4173.3	4194.2	4198.6	4199.5
20°	4094.9	4100.2	4116.7	4124.6	4130.7
22.5°	4013.1	4020.1	4033.1	4042.7	4051.4
25°	3914.7	3926.0	3941.7	3953.9	3953.9
27.5°	3819.7	3821.5	3836.3	3849.4	3858.1
30°	3703.9	3705.7	3725.7	3740.5	3744.0
32.5°	3581.1	3588.1	3609.0	3624.7	3629.0
35°	3446.1	3457.5	3478.4	3502.7	3495.8
37.5°	3305.9	3312.0	3341.6	3361.7	3369.5
40°	3149.2	3166.6	3197.1	3218.8	3224.9
42.5°	2995.9	3011.6	3044.6	3065.6	3068.2
45°	2833.9	2849.6	2881.8	2914.9	2907.0
47.5°	2658.8	2683.2	2715.5	2750.3	2756.4
50°	2476.0	2511.7	2550.9	2579.6	2605.7
52.5°	2296.6	2325.3	2370.6	2422.0	2446.3
55°	2105.8	2147.6	2188.6	2257.4	2280.9
57.5°	1916.8	1967.4	2017.9	2093.6	2114.5
60°	1742.7	1782.7	1843.7	1917.7	1948.2
62.5°	1565.0	1611.2	1679.1	1747.0	1767.9
65°	1397.8	1434.4	1510.1	1568.5	1577.2
67.5°	1229.7	1273.2	1344.7	1405.6	1409.1
70°	1072.9	1112.1	1180.9	1232.3	1237.5
72.5°	921.4	961.5	1019.8	1072.1	1082.5
75°	776.0	812.5	871.8	917.9	930.1
77.5°	647.1	674.1	726.3	778.6	782.9
80°	503.4	534.7	600.0	643.6	650.6
82.5°	383.2	420.6	479.0	518.2	519.9
85°	264.8	317.0	372.7	405.0	405.0
87.5°	182.9	237.8	287.4	309.2	311.8
90°	139.3	175.0	216.0	235.1	234.3
92.5°	121.1	137.6	163.7	179.4	176.8
95°	114.1	114.1	125.4	137.6	136.7
97.5°	110.6	103.6	99.3	107.1	106.2
100°	109.7	97.5	81.9	85.3	86.2
102.5°	107.1	92.3	71.4	70.5	71.4
105°	101.9	87.1	64.4	59.2	60.1
107.5°	94.9	80.1	59.2	52.3	53.1
110°	86.2	71.4	54.0	47.0	47.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	77.5	62.7	48.8	41.8	42.7
115°	67.1	54.0	42.7	36.6	38.3
117.5°	58.3	47.0	37.4	31.4	34.0
120°	49.6	40.9	30.5	26.1	29.6
122.5°	41.8	34.8	24.4	21.8	25.3
125°	35.7	28.7	19.2	17.4	20.9
127.5°	29.6	24.4	13.9	13.9	16.5
130°	24.4	20.0	8.7	10.5	13.1
132.5°	20.0	16.5	6.1	7.0	9.6
135°	15.7	13.1	4.4	4.4	7.0
137.5°	13.1	9.6	2.6	1.7	3.5
140°	9.6	7.0	1.7	0.0	0.9
142.5°	7.8	5.2	0.9	0.0	0.0
145°	5.2	3.5	0.9	0.0	0.0
147.5°	3.5	1.7	0.9	0.9	0.0
150°	1.7	1.7	0.9	0.9	0.0
152.5°	1.7	1.7	0.9	0.9	0.0
155°	1.7	1.7	1.7	0.9	0.0
157.5°	1.7	1.7	1.7	0.9	0.0
160°	1.7	1.7	1.7	0.9	0.9
162.5°	2.6	2.6	1.7	0.9	0.9
165°	2.6	2.6	1.7	0.9	0.9
167.5°	2.6	2.6	1.7	1.7	0.9
170°	2.6	2.6	1.7	0.9	0.9
172.5°	2.6	2.6	1.7	1.7	0.9
175°	2.6	2.6	2.6	1.7	0.9
177.5°	2.6	2.6	2.6	1.7	0.9
180°	2.6	2.6	2.6	2.6	2.6

(END OF REPORT)