

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-PCF-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 (G3-1801-511-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: VRVT4S-LD5-12-PCF-L850-CD2-U  
Description: VRVT4S VAPORTIGHT FIXTURE WITH 5000K LED AND FROSTED POLYCARBONATE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

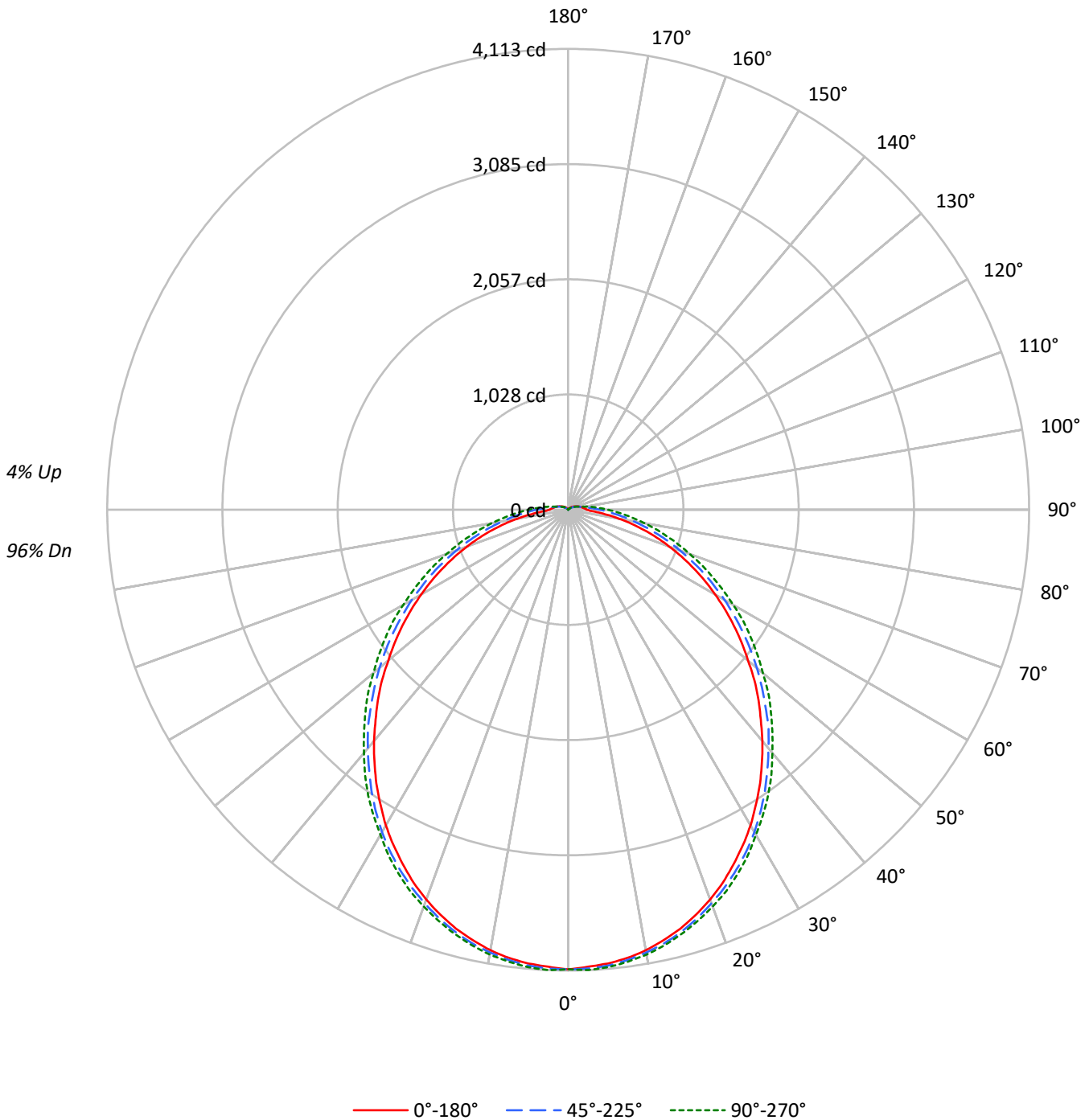
Lumens per Lamp: N/A  
Luminaire Lumens: 11705.0 lumens  
Efficiency: N/A  
Efficacy: 139.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32  
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')  
CIE Type: Direct

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



TEST NUMBER: P#  
CATALOG NUMBER: VRVT4S-LD5-12-PCF-L850-CD2-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: VRVT4S-LD5-12-PCF-L850-CD2-U

**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	109	109	109	104	104	104	99	99	99	96
1	107	102	97	93	104	99	95	91	94	91	88	90	87	85	86	83	81	79
2	97	89	82	76	94	87	80	75	82	77	72	79	74	70	75	71	68	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	53	79	67	59	53	65	57	52	62	56	51	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	41
6	69	56	47	40	67	55	46	40	52	45	39	50	44	39	48	43	38	36
7	64	51	42	36	62	50	41	35	48	40	35	46	39	34	44	38	34	32
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	30	28
9	56	42	34	29	54	42	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	26	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	19574	19574	19574
5°	19271	19149	19243
10°	18947	18634	18769
15°	18519	18065	18233
20°	18017	17413	17653
25°	17404	16743	17035
30°	16766	16013	16285
35°	16029	15189	15600
40°	15249	14337	14788
45°	14472	13458	14024
50°	13598	12599	13198
55°	12822	11684	12445
60°	11966	10755	11584
65°	11066	9801	10721
70°	10051	8793	9829
75°	8915	7754	9013
80°	7504	6771	8208
85°	5911	5905	7574



TEST NUMBER: P#

CATALOG NUMBER: VRVT4S-LD5-12-PCF-L850-CD2-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	387.5	3.3
10°-20°	1098.5	9.4
20°-30°	1631.5	13.9
30°-40°	1909.5	16.3
40°-50°	1918.9	16.4
50°-60°	1701.2	14.5
60°-70°	1319.9	11.3
70°-80°	861.0	7.4
80°-90°	449.7	3.8
90°-100°	215.1	1.8
100°-110°	112.0	1.0
110°-120°	60.9	0.5
120°-130°	28.7	0.2
130°-140°	8.8	0.1
140°-150°	1.2	0.0
150°-160°	0.3	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	3117.5	26.6
0°-40°	5027.0	42.9
0°-60°	8647.1	73.9
0°-90°	11277.6	96.3
90°-120°	388.0	3.3
90°-150°	426.8	3.6
90°-180°	427.0	3.6
0°-180°	11705.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4102	4102	4102	4102	4102	
5°	4066	4071	4085	4094	4099	386
15°	3870	3879	3900	3913	3919	1090
25°	3491	3512	3548	3576	3584	1608
35°	2983	3014	3060	3098	3111	1865
45°	2402	2434	2489	2537	2558	1851
55°	1806	1839	1902	1967	1989	1615
65°	1232	1266	1330	1401	1420	1222
75°	700	733	810	885	910	743
85°	256	328	414	486	503	254
90°	166	213	283	337	350	93
95°	144	153	191	230	240	113
105°	105	100	103	104	110	112
115°	71	59	60	57	61	72
125°	44	36	25	26	32	40
135°	23	17	4	5	10	18
145°	6	4	0	0	0	4
155°	2	2	0	0	0	1
165°	2	2	1	0	0	0
175°	3	2	1	0	0	0
180°	1	1	1	1	1	



TEST NUMBER: P#

CATALOG NUMBER: VRVT4S-LD5-12-PCF-L850-CD2-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4102.2	4102.2	4102.2	4102.2	4102.2
2.5°	4083.0	4088.2	4099.5	4110.9	4112.6
5°	4065.6	4070.8	4084.7	4094.3	4098.7
7.5°	4036.0	4041.2	4054.3	4067.3	4069.1
10°	3993.3	4000.3	4014.2	4029.0	4031.6
12.5°	3934.9	3946.3	3963.7	3976.7	3980.2
15°	3869.6	3879.2	3900.1	3913.2	3919.3
17.5°	3791.2	3803.4	3825.2	3840.9	3847.8
20°	3703.3	3715.5	3739.0	3766.0	3768.6
22.5°	3604.0	3623.1	3648.4	3674.5	3685.0
25°	3490.8	3512.5	3548.2	3576.1	3583.9
27.5°	3375.8	3396.7	3440.2	3469.0	3475.1
30°	3253.9	3276.5	3322.7	3345.3	3349.7
32.5°	3118.0	3144.1	3193.8	3225.1	3233.0
35°	2983.0	3013.5	3060.5	3098.0	3111.0
37.5°	2840.2	2874.1	2919.4	2967.3	2977.8
40°	2694.7	2730.4	2780.9	2825.4	2834.1
42.5°	2543.2	2582.4	2645.1	2680.8	2697.3
45°	2402.1	2434.3	2489.2	2537.1	2558.0
47.5°	2253.1	2285.4	2342.8	2399.5	2423.0
50°	2093.8	2137.3	2199.1	2254.0	2267.1
52.5°	1952.7	1994.5	2048.5	2109.4	2129.5
55°	1805.5	1838.6	1902.1	1966.6	1989.2
57.5°	1659.2	1694.9	1753.2	1818.5	1852.5
60°	1514.6	1548.5	1611.3	1679.2	1699.2
62.5°	1374.4	1409.2	1465.8	1539.8	1559.9
65°	1232.4	1266.4	1329.9	1401.4	1419.6
67.5°	1094.8	1127.0	1192.3	1268.1	1290.7
70°	958.0	999.8	1059.9	1130.5	1151.4
72.5°	829.1	865.7	934.5	1005.9	1030.3
75°	700.2	733.3	810.0	884.9	910.1
77.5°	579.2	621.9	696.8	778.6	798.7
80°	459.0	504.3	593.1	671.5	689.8
82.5°	350.1	408.5	499.1	576.6	587.9
85°	256.1	327.5	413.7	486.0	503.4
87.5°	192.5	262.2	346.6	406.7	422.4
90°	165.5	213.4	283.1	337.1	350.1
92.5°	154.2	177.7	232.5	280.4	289.2
95°	143.7	153.3	190.7	229.9	239.5
97.5°	133.3	136.7	160.3	188.1	196.0
100°	123.7	124.5	135.0	155.0	160.3
102.5°	114.1	111.5	115.8	126.3	130.6
105°	105.4	100.2	102.8	104.5	109.7
107.5°	96.7	88.8	90.6	88.8	91.4
110°	88.0	77.5	79.3	76.6	79.3



TEST NUMBER: P#

CATALOG NUMBER: VRVT4S-LD5-12-PCF-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	79.3	67.9	69.7	66.2	69.7
115°	71.4	59.2	60.1	56.6	61.0
117.5°	64.5	53.1	50.5	47.9	53.1
120°	56.6	46.2	41.8	40.1	46.2
122.5°	50.5	40.9	33.1	33.1	39.2
125°	43.5	35.7	25.3	26.1	32.2
127.5°	38.3	30.5	18.3	20.9	26.1
130°	33.1	26.1	11.3	15.7	20.9
132.5°	27.0	20.9	7.0	10.5	14.8
135°	22.6	17.4	4.4	5.2	9.6
137.5°	18.3	13.1	1.7	0.9	4.4
140°	13.9	9.6	0.9	0.0	0.0
142.5°	9.6	6.1	0.0	0.0	0.0
145°	6.1	3.5	0.0	0.0	0.0
147.5°	3.5	1.7	0.0	0.0	0.0
150°	1.7	0.9	0.0	0.0	0.0
152.5°	1.7	0.9	0.0	0.0	0.0
155°	1.7	1.7	0.0	0.0	0.0
157.5°	1.7	1.7	0.9	0.0	0.0
160°	1.7	1.7	0.9	0.0	0.0
162.5°	1.7	1.7	0.9	0.0	0.0
165°	1.7	1.7	0.9	0.0	0.0
167.5°	1.7	1.7	0.9	0.0	0.0
170°	1.7	1.7	0.9	0.0	0.0
172.5°	1.7	1.7	0.9	0.0	0.0
175°	2.6	1.7	0.9	0.0	0.0
177.5°	2.6	1.7	0.9	0.0	0.0
180°	0.9	0.9	0.9	0.9	0.9

(END OF REPORT)