

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-LD5-18-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-LD5-18-PCF-L850-CD2-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 5000K LED AND FROSTED POLYCARBONATE LENS
Light Source: -
Ballast/Driver: -

Summary

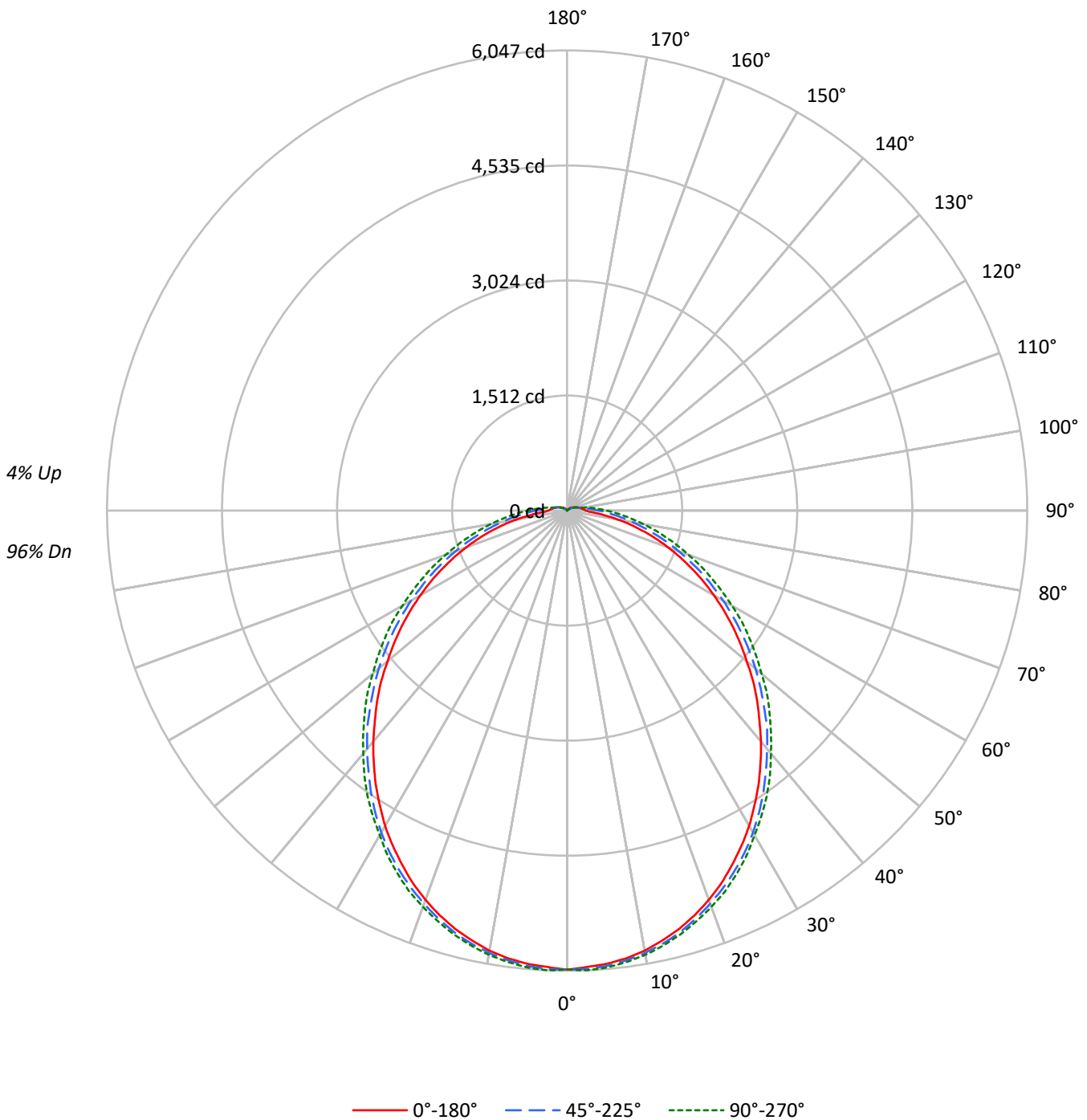
Lumens per Lamp: N/A
Luminaire Lumens: 17210.0 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 137.5
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	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°	28779	28779	28779
5°	28334	28155	28293
10°	27858	27398	27597
15°	27229	26561	26807
20°	26491	25603	25955
25°	25589	24618	25046
30°	24651	23544	23944
35°	23567	22332	22937
40°	22421	21080	21743
45°	21278	19787	20619
50°	19992	18525	19405
55°	18852	17179	18298
60°	17594	15812	17032
65°	16270	14410	15763
70°	14778	12928	14452
75°	13109	11400	13253
80°	11034	9956	12068
85°	8690	8682	11137



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.8	3.3
10°-20°	1615.1	9.4
20°-30°	2398.8	13.9
30°-40°	2807.5	16.3
40°-50°	2821.3	16.4
50°-60°	2501.3	14.5
60°-70°	1940.6	11.3
70°-80°	1265.9	7.4
80°-90°	661.2	3.8
90°-100°	316.2	1.8
100°-110°	164.6	1.0
110°-120°	89.6	0.5
120°-130°	42.2	0.2
130°-140°	12.9	0.1
140°-150°	1.8	0.0
150°-160°	0.4	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	4583.7	26.6
0°-40°	7391.2	42.9
0°-60°	12713.9	73.9
0°-90°	16581.6	96.3
90°-120°	570.5	3.3
90°-150°	627.5	3.6
90°-180°	628.0	3.6
0°-180°	17210.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6032	6032	6032	6032	6032	
5°	5978	5985	6006	6020	6026	567
15°	5690	5704	5734	5754	5762	1603
25°	5132	5164	5217	5258	5270	2364
35°	4386	4431	4500	4555	4574	2741
45°	3532	3579	3660	3730	3761	2722
55°	2655	2703	2797	2892	2925	2374
65°	1812	1862	1955	2060	2087	1796
75°	1030	1078	1191	1301	1338	1093
85°	376	482	608	715	740	373
90°	243	314	416	496	515	137
95°	211	225	280	338	352	167
105°	155	147	151	154	161	164
115°	105	87	88	83	90	105
125°	64	52	37	38	47	59
135°	33	26	6	8	14	26
145°	9	5	0	0	0	6
155°	3	3	0	0	0	1
165°	3	3	1	0	0	1
175°	4	3	1	0	0	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6031.5	6031.5	6031.5	6031.5	6031.5
2.5°	6003.3	6011.0	6027.6	6044.3	6046.8
5°	5977.7	5985.4	6005.8	6019.9	6026.3
7.5°	5934.1	5941.8	5961.0	5980.2	5982.8
10°	5871.4	5881.6	5902.1	5923.9	5927.7
12.5°	5785.6	5802.2	5827.8	5847.1	5852.2
15°	5689.5	5703.6	5734.4	5753.6	5762.5
17.5°	5574.3	5592.2	5624.2	5647.3	5657.5
20°	5445.0	5462.9	5497.5	5537.2	5541.0
22.5°	5299.0	5327.1	5364.3	5402.7	5418.1
25°	5132.5	5164.5	5217.0	5258.0	5269.5
27.5°	4963.5	4994.2	5058.2	5100.5	5109.4
30°	4784.2	4817.5	4885.4	4918.6	4925.0
32.5°	4584.4	4622.8	4695.8	4741.9	4753.5
35°	4385.9	4430.8	4499.9	4555.0	4574.2
37.5°	4175.9	4225.9	4292.4	4362.9	4378.2
40°	3962.1	4014.6	4088.8	4154.1	4167.0
42.5°	3739.2	3796.9	3889.1	3941.6	3965.9
45°	3531.8	3579.2	3659.9	3730.3	3761.0
47.5°	3312.8	3360.2	3444.7	3528.0	3562.5
50°	3078.5	3142.5	3233.4	3314.1	3333.3
52.5°	2871.0	2932.5	3011.9	3101.5	3131.0
55°	2654.6	2703.3	2796.8	2891.5	2924.8
57.5°	2439.5	2492.0	2577.8	2673.8	2723.8
60°	2226.9	2276.8	2369.0	2468.9	2498.4
62.5°	2020.7	2072.0	2155.2	2264.0	2293.5
65°	1812.0	1861.9	1955.4	2060.4	2087.3
67.5°	1609.7	1657.0	1753.1	1864.5	1897.8
70°	1408.6	1470.1	1558.4	1662.2	1692.9
72.5°	1219.1	1272.9	1374.0	1479.1	1514.9
75°	1029.6	1078.2	1190.9	1301.1	1338.2
77.5°	851.6	914.3	1024.5	1144.8	1174.3
80°	674.9	741.4	872.1	987.3	1014.2
82.5°	514.8	600.6	733.8	847.7	864.4
85°	376.5	481.5	608.3	714.6	740.2
87.5°	283.0	385.4	509.7	598.0	621.1
90°	243.3	313.7	416.2	495.6	514.8
92.5°	226.7	261.2	341.9	412.3	425.1
95°	211.3	225.4	280.4	338.1	352.2
97.5°	195.9	201.0	235.6	276.6	288.1
100°	181.8	183.1	198.5	227.9	235.6
102.5°	167.8	163.9	170.3	185.7	192.1
105°	154.9	147.3	151.1	153.7	161.4
107.5°	142.1	130.6	133.2	130.6	134.5
110°	129.3	114.0	116.5	112.7	116.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	116.5	99.9	102.4	97.3	102.4
115°	105.0	87.1	88.4	83.2	89.6
117.5°	94.8	78.1	74.3	70.4	78.1
120°	83.2	67.9	61.5	58.9	67.9
122.5°	74.3	60.2	48.7	48.7	57.6
125°	64.0	52.5	37.1	38.4	47.4
127.5°	56.3	44.8	26.9	30.7	38.4
130°	48.7	38.4	16.6	23.1	30.7
132.5°	39.7	30.7	10.2	15.4	21.8
135°	33.3	25.6	6.4	7.7	14.1
137.5°	26.9	19.2	2.6	1.3	6.4
140°	20.5	14.1	1.3	0.0	0.0
142.5°	14.1	9.0	0.0	0.0	0.0
145°	9.0	5.1	0.0	0.0	0.0
147.5°	5.1	2.6	0.0	0.0	0.0
150°	2.6	1.3	0.0	0.0	0.0
152.5°	2.6	1.3	0.0	0.0	0.0
155°	2.6	2.6	0.0	0.0	0.0
157.5°	2.6	2.6	1.3	0.0	0.0
160°	2.6	2.6	1.3	0.0	0.0
162.5°	2.6	2.6	1.3	0.0	0.0
165°	2.6	2.6	1.3	0.0	0.0
167.5°	2.6	2.6	1.3	0.0	0.0
170°	2.6	2.6	1.3	0.0	0.0
172.5°	2.6	2.6	1.3	0.0	0.0
175°	3.8	2.6	1.3	0.0	0.0
177.5°	3.8	2.6	1.3	0.0	0.0
180°	1.3	1.3	1.3	1.3	1.3

(END OF REPORT)