

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-DR-L840-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-LD5-18-DR-L840-CD2-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 4000K LED AND CLEAR ACRYLIC LENS
Light Source: -
Ballast/Driver: -

Summary

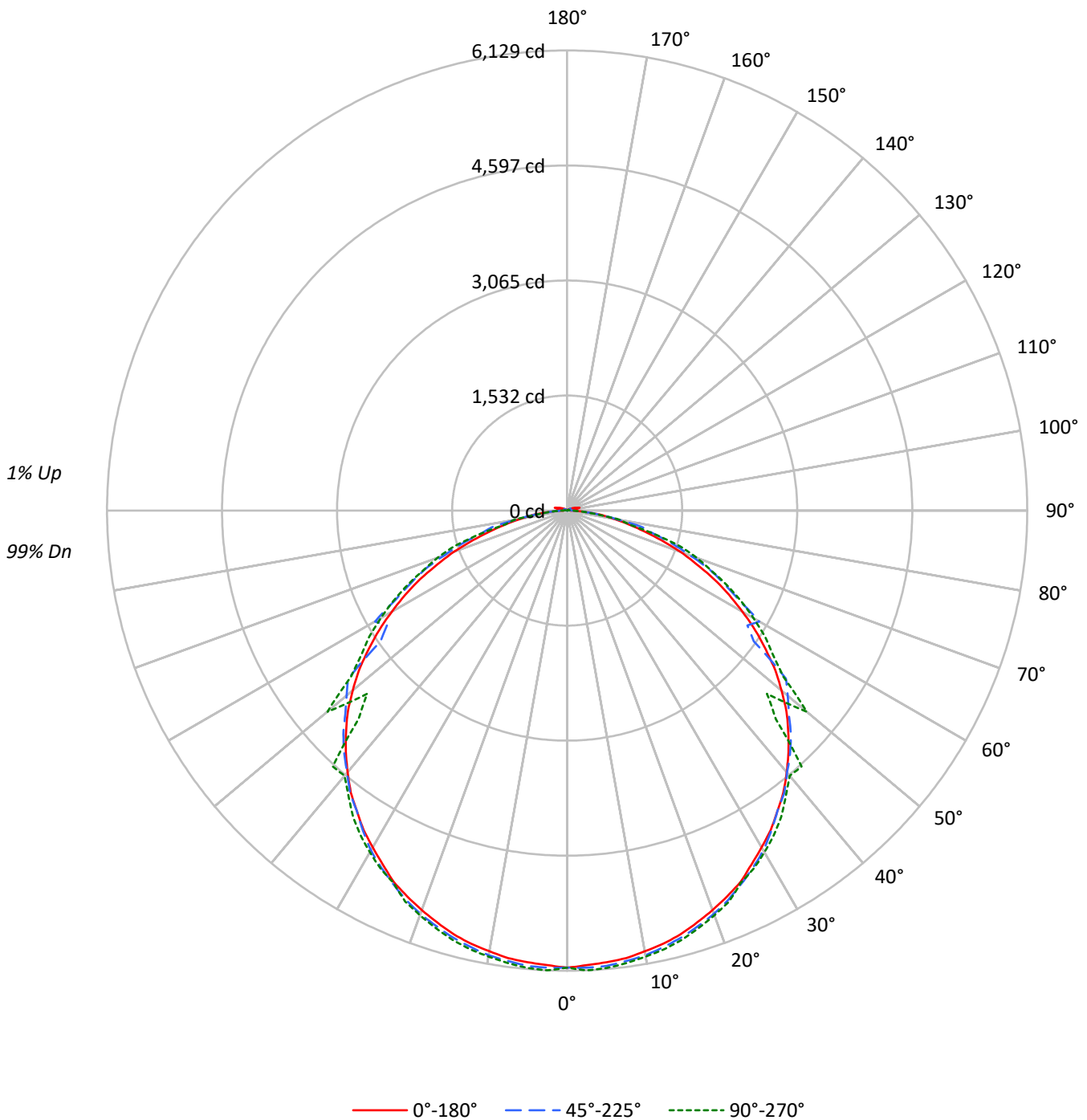
Lumens per Lamp: N/A
Luminaire Lumens: 17985.9 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

Input Watts (W): 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	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°	29052	29052	29052
5°	28623	28534	28702
10°	28280	27917	28078
15°	27957	27261	27523
20°	27545	26617	26861
25°	27225	25894	26009
30°	26686	25191	25552
35°	26245	24240	24943
40°	25743	23493	24068
45°	25101	22795	21550
50°	24209	21971	24254
55°	22938	18640	20915
60°	21298	19719	19540
65°	19358	16988	17683
70°	16833	14423	15658
75°	13383	11400	11699
80°	10298	7803	8499
85°	6498	3717	3774



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.3	3.2
10°-20°	1660.8	9.2
20°-30°	2528.0	14.1
30°-40°	3079.6	17.1
40°-50°	3216.4	17.9
50°-60°	2942.5	16.4
60°-70°	2247.2	12.5
70°-80°	1225.2	6.8
80°-90°	331.0	1.8
90°-100°	50.7	0.3
100°-110°	61.5	0.3
110°-120°	37.0	0.2
120°-130°	17.6	0.1
130°-140°	6.0	0.0
140°-150°	1.8	0.0
150°-160°	0.9	0.0
160°-170°	0.9	0.0
170°-180°	0.4	0.0
0°-30°	4767.1	26.5
0°-40°	7846.7	43.6
0°-60°	14005.5	77.9
0°-90°	17809.0	99.0
90°-120°	149.3	0.8
90°-150°	174.7	1.0
90°-180°	177.0	1.0
0°-180°	17985.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6089	6089	6089	6089	6089	
5°	6039	6064	6087	6108	6114	574
15°	5842	5865	5886	5907	5916	1648
25°	5461	5478	5487	5503	5472	2511
35°	4884	4911	4884	4947	4974	3059
45°	4166	4185	4216	4432	3931	3211
55°	3230	3249	3035	3366	3343	2887
65°	2156	2221	2305	2313	2342	2127
75°	1051	1132	1191	1189	1181	1137
85°	282	283	260	253	251	307
90°	48	80	77	75	73	36
95°	46	42	44	36	36	54
105°	147	195	25	27	27	147
115°	73	36	48	17	19	74
125°	32	27	13	8	10	31
135°	15	12	6	4	4	12
145°	6	4	2	2	2	4
155°	2	2	2	2	2	1
165°	4	4	4	4	2	1
175°	4	4	4	4	4	0
180°	4	4	4	4	4	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6088.6	6088.6	6088.6	6088.6	6088.6
2.5°	6059.9	6075.2	6094.3	6121.1	6128.8
5°	6038.8	6063.7	6086.7	6107.7	6113.5
7.5°	6012.0	6042.6	6052.2	6079.0	6079.0
10°	5960.3	5994.8	6013.9	6031.1	6031.1
12.5°	5910.5	5935.4	5952.6	5973.7	5983.3
15°	5841.6	5864.6	5885.6	5906.7	5916.3
17.5°	5753.5	5789.9	5803.3	5820.5	5828.2
20°	5661.6	5696.1	5715.2	5730.5	5734.4
22.5°	5564.0	5590.8	5609.9	5615.7	5636.7
25°	5460.6	5477.8	5487.4	5502.7	5472.1
27.5°	5315.1	5347.6	5361.0	5347.6	5378.2
30°	5179.1	5211.7	5227.0	5230.8	5255.7
32.5°	5045.1	5068.1	5060.4	5089.1	5125.5
35°	4884.3	4911.1	4884.3	4947.4	4974.3
37.5°	4733.0	4746.4	4748.3	4811.5	4784.7
40°	4549.2	4566.4	4556.9	4597.1	4612.4
42.5°	4363.5	4378.8	4396.0	4426.7	4622.0
45°	4166.3	4185.4	4216.1	4432.4	3930.8
47.5°	3961.4	3965.2	4005.4	3674.2	3611.0
50°	3727.8	3725.9	3835.0	3488.5	4166.3
52.5°	3494.2	3492.3	3674.2	3838.9	3624.4
55°	3230.0	3249.2	3034.7	3366.0	3343.0
57.5°	2973.4	2990.7	2845.2	3074.9	3124.7
60°	2695.8	2762.8	2954.3	2864.3	2866.2
62.5°	2431.6	2491.0	2575.2	2603.9	2615.4
65°	2155.9	2221.0	2305.2	2312.9	2341.6
67.5°	1863.0	1956.8	2058.2	2044.8	2071.6
70°	1604.5	1489.6	1738.5	1750.0	1834.2
72.5°	1313.4	1451.3	1470.4	1225.4	1577.7
75°	1051.1	1131.6	1190.9	1189.0	1181.3
77.5°	832.9	886.5	1030.1	926.7	838.6
80°	629.9	645.2	683.5	679.7	714.2
82.5°	474.8	451.9	465.3	459.5	405.9
85°	281.5	283.4	260.4	252.7	250.8
87.5°	116.8	130.2	126.4	120.6	130.2
90°	47.9	80.4	76.6	74.7	72.8
92.5°	53.6	57.4	53.6	46.0	40.2
95°	46.0	42.1	44.0	36.4	36.4
97.5°	63.2	34.5	34.5	30.6	28.7
100°	126.4	30.6	32.5	26.8	26.8
102.5°	168.5	32.5	28.7	26.8	28.7
105°	147.4	195.3	24.9	26.8	26.8
107.5°	124.5	114.9	23.0	24.9	26.8
110°	105.3	70.8	19.1	23.0	24.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	86.2	49.8	17.2	19.1	23.0
115°	72.8	36.4	47.9	17.2	19.1
117.5°	61.3	38.3	51.7	15.3	17.2
120°	49.8	78.5	26.8	13.4	13.4
122.5°	40.2	36.4	19.1	9.6	11.5
125°	32.5	26.8	13.4	7.7	9.6
127.5°	26.8	21.1	9.6	5.7	7.7
130°	23.0	19.1	5.7	5.7	5.7
132.5°	19.1	15.3	5.7	3.8	5.7
135°	15.3	11.5	5.7	3.8	3.8
137.5°	11.5	9.6	3.8	3.8	3.8
140°	9.6	5.7	1.9	1.9	1.9
142.5°	7.7	5.7	1.9	1.9	1.9
145°	5.7	3.8	1.9	1.9	1.9
147.5°	3.8	1.9	1.9	1.9	1.9
150°	1.9	1.9	1.9	1.9	1.9
152.5°	1.9	1.9	1.9	1.9	1.9
155°	1.9	1.9	1.9	1.9	1.9
157.5°	1.9	1.9	1.9	1.9	1.9
160°	1.9	1.9	1.9	1.9	1.9
162.5°	3.8	3.8	3.8	3.8	1.9
165°	3.8	3.8	3.8	3.8	1.9
167.5°	3.8	3.8	3.8	3.8	1.9
170°	3.8	3.8	3.8	3.8	1.9
172.5°	3.8	3.8	3.8	3.8	3.8
175°	3.8	3.8	3.8	3.8	3.8
177.5°	3.8	3.8	3.8	3.8	3.8
180°	3.8	3.8	3.8	3.8	3.8

(END OF REPORT)