

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-L835-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-L835-CD2-U
Description: VRVT4S VAPORTIGHT FIXTURE WITH 3500K LED AND CLEAR ACRYLIC LENS
Light Source: -
Ballast/Driver: -

Summary

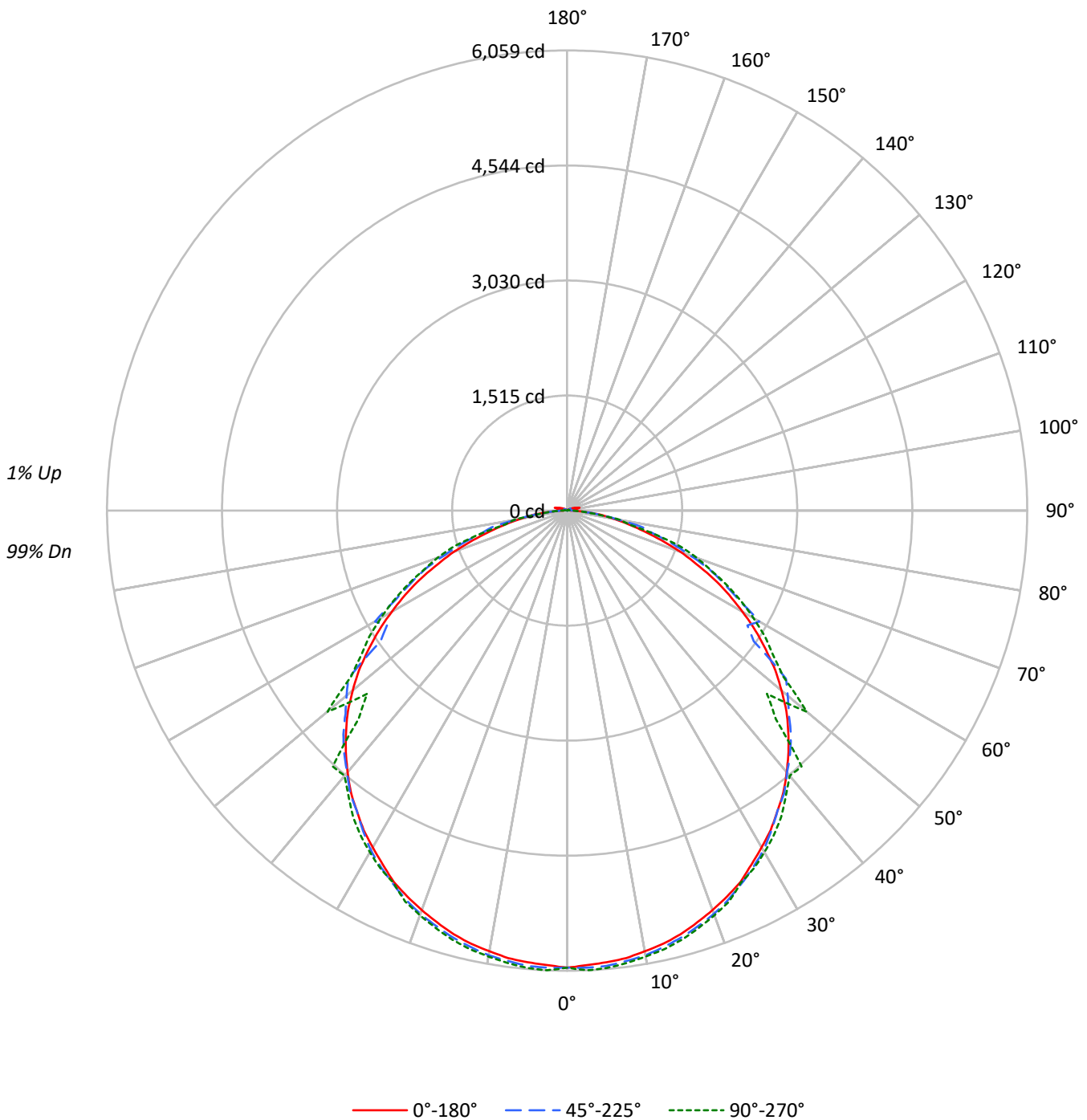
Lumens per Lamp: N/A
Luminaire Lumens: 17780.0 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

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	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°	28719	28719	28719
5°	28295	28207	28373
10°	27956	27597	27757
15°	27637	26949	27208
20°	27229	26312	26553
25°	26913	25597	25711
30°	26380	24902	25259
35°	25944	23962	24657
40°	25448	23224	23792
45°	24814	22533	21303
50°	23932	21720	23977
55°	22675	18427	20675
60°	21054	19494	19316
65°	19136	16793	17481
70°	16640	14258	15479
75°	13230	11270	11565
80°	10181	7714	8401
85°	6421	3674	3730



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.7	3.2
10°-20°	1641.8	9.2
20°-30°	2499.0	14.1
30°-40°	3044.3	17.1
40°-50°	3179.5	17.9
50°-60°	2908.8	16.4
60°-70°	2221.5	12.5
70°-80°	1211.2	6.8
80°-90°	327.2	1.8
90°-100°	50.1	0.3
100°-110°	60.9	0.3
110°-120°	36.6	0.2
120°-130°	17.4	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°	4712.5	26.5
0°-40°	7756.8	43.6
0°-60°	13845.1	77.9
0°-90°	17605.0	99.0
90°-120°	147.6	0.8
90°-150°	172.8	1.0
90°-180°	175.0	1.0
0°-180°	17780.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6019	6019	6019	6019	6019	
5°	5970	5994	6017	6038	6043	568
15°	5775	5797	5818	5839	5848	1629
25°	5398	5415	5424	5440	5409	2483
35°	4828	4855	4828	4891	4917	3024
45°	4119	4138	4168	4382	3886	3174
55°	3193	3212	3000	3327	3305	2854
65°	2131	2196	2279	2286	2315	2103
75°	1039	1119	1177	1175	1168	1124
85°	278	280	257	250	248	304
90°	47	80	76	74	72	36
95°	45	42	44	36	36	54
105°	146	193	25	26	26	146
115°	72	36	47	17	19	73
125°	32	26	13	8	10	30
135°	15	11	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°	6018.8	6018.8	6018.8	6018.8	6018.8
2.5°	5990.5	6005.6	6024.5	6051.0	6058.6
5°	5969.6	5994.2	6017.0	6037.8	6043.4
7.5°	5943.1	5973.4	5982.9	6009.4	6009.4
10°	5892.0	5926.1	5945.0	5962.1	5962.1
12.5°	5842.8	5867.4	5884.5	5905.3	5914.7
15°	5774.7	5797.4	5818.2	5839.0	5848.5
17.5°	5687.6	5723.6	5736.8	5753.9	5761.4
20°	5596.8	5630.8	5649.8	5664.9	5668.7
22.5°	5500.2	5526.7	5545.7	5551.3	5572.2
25°	5398.0	5415.1	5424.5	5439.7	5409.4
27.5°	5254.2	5286.4	5299.6	5286.4	5316.6
30°	5119.8	5152.0	5167.1	5170.9	5195.5
32.5°	4987.3	5010.0	5002.5	5030.8	5066.8
35°	4828.3	4854.8	4828.3	4890.8	4917.3
37.5°	4678.8	4692.0	4693.9	4756.4	4729.9
40°	4497.1	4514.1	4504.7	4544.4	4559.6
42.5°	4313.5	4328.6	4345.7	4376.0	4569.0
45°	4118.6	4137.5	4167.8	4381.6	3885.8
47.5°	3916.0	3919.8	3959.6	3632.1	3569.7
50°	3685.1	3683.2	3791.1	3448.5	4118.6
52.5°	3454.2	3452.3	3632.1	3794.9	3582.9
55°	3193.0	3211.9	3000.0	3327.4	3304.7
57.5°	2939.4	2956.4	2812.6	3039.7	3088.9
60°	2664.9	2731.2	2920.5	2831.5	2833.4
62.5°	2403.8	2462.4	2545.7	2574.1	2585.5
65°	2131.2	2195.6	2278.8	2286.4	2314.8
67.5°	1841.6	1934.4	2034.7	2021.4	2047.9
70°	1586.1	1472.5	1718.6	1729.9	1813.2
72.5°	1298.4	1434.7	1453.6	1211.3	1559.6
75°	1039.1	1118.6	1177.3	1175.4	1167.8
77.5°	823.3	876.3	1018.3	916.1	829.0
80°	622.7	637.8	675.7	671.9	706.0
82.5°	469.4	446.7	459.9	454.3	401.3
85°	278.2	280.1	257.4	249.8	247.9
87.5°	115.5	128.7	124.9	119.2	128.7
90°	47.3	79.5	75.7	73.8	71.9
92.5°	53.0	56.8	53.0	45.4	39.7
95°	45.4	41.6	43.5	36.0	36.0
97.5°	62.5	34.1	34.1	30.3	28.4
100°	124.9	30.3	32.2	26.5	26.5
102.5°	166.6	32.2	28.4	26.5	28.4
105°	145.7	193.1	24.6	26.5	26.5
107.5°	123.0	113.6	22.7	24.6	26.5
110°	104.1	70.0	18.9	22.7	24.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	85.2	49.2	17.0	18.9	22.7
115°	71.9	36.0	47.3	17.0	18.9
117.5°	60.6	37.9	51.1	15.1	17.0
120°	49.2	77.6	26.5	13.2	13.2
122.5°	39.7	36.0	18.9	9.5	11.4
125°	32.2	26.5	13.2	7.6	9.5
127.5°	26.5	20.8	9.5	5.7	7.6
130°	22.7	18.9	5.7	5.7	5.7
132.5°	18.9	15.1	5.7	3.8	5.7
135°	15.1	11.4	5.7	3.8	3.8
137.5°	11.4	9.5	3.8	3.8	3.8
140°	9.5	5.7	1.9	1.9	1.9
142.5°	7.6	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)