

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

Summary

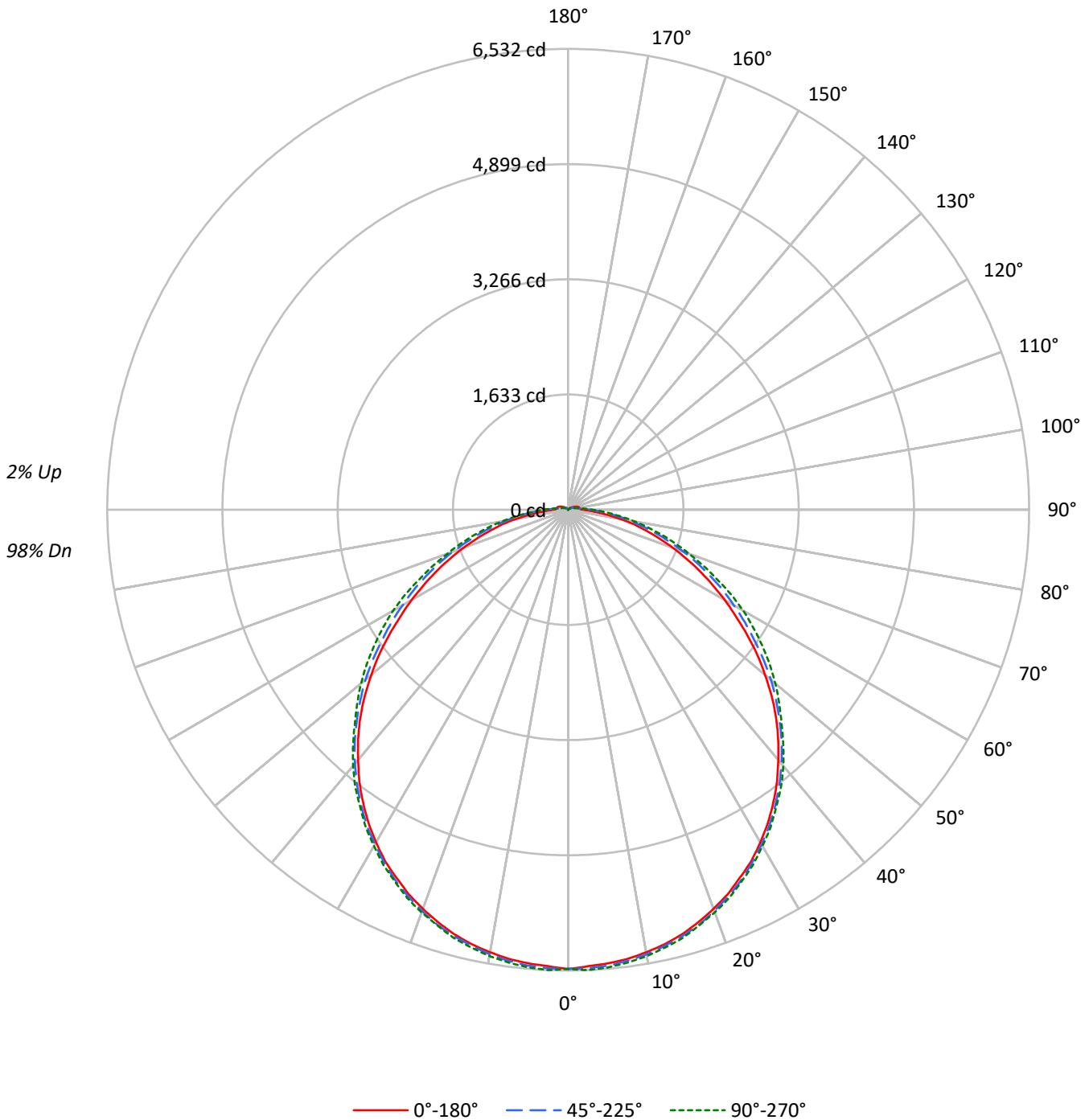
Lumens per Lamp: N/A
Luminaire Lumens: 18980.0 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 1.08' x L: 2.08' x H: 0.25')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31058	31058	31058
5°	30598	30413	30572
10°	30222	29704	29910
15°	29816	28975	29226
20°	29294	28191	28450
25°	28699	27350	27634
30°	28063	26402	26765
35°	27228	25383	25775
40°	26203	24236	24743
45°	25105	22910	23434
50°	23643	21489	22305
55°	21989	19767	20982
60°	20244	18095	19529
65°	18455	16364	17513
70°	16552	14406	15534
75°	14528	12271	13544
80°	12102	10072	11383
85°	8986	7823	8960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.3	3.2
10°-20°	1764.3	9.3
20°-30°	2668.1	14.1
30°-40°	3195.8	16.8
40°-50°	3264.1	17.2
50°-60°	2889.9	15.2
60°-70°	2190.5	11.5
70°-80°	1350.3	7.1
80°-90°	597.3	3.1
90°-100°	214.6	1.1
100°-110°	115.1	0.6
110°-120°	68.6	0.4
120°-130°	31.7	0.2
130°-140°	9.8	0.1
140°-150°	1.9	0.0
150°-160°	0.8	0.0
160°-170°	0.7	0.0
170°-180°	0.3	0.0
0°-30°	5048.7	26.6
0°-40°	8244.4	43.4
0°-60°	14398.4	75.9
0°-90°	18536.5	97.7
90°-120°	398.3	2.1
90°-150°	441.7	2.3
90°-180°	444.0	2.3
0°-180°	18980.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6509	6509	6509	6509	6509	
5°	6455	6468	6487	6505	6512	614
15°	6230	6235	6256	6270	6282	1757
25°	5756	5773	5796	5814	5814	2655
35°	5067	5084	5115	5150	5140	3168
45°	4167	4190	4237	4286	4274	3207
55°	3096	3158	3218	3319	3354	2770
65°	2055	2109	2220	2306	2319	2037
75°	1141	1195	1282	1350	1368	1215
85°	389	466	548	596	596	396
90°	205	257	318	346	344	117
95°	168	168	184	202	201	136
105°	150	128	95	87	88	156
115°	99	79	63	54	56	99
125°	52	42	28	26	31	48
135°	23	19	6	6	10	19
145°	8	5	1	0	0	5
155°	3	3	3	1	0	1
165°	4	4	3	1	1	1
175°	4	4	4	3	1	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°	6509.1	6509.1	6509.1	6509.1	6509.1
2.5°	6477.1	6484.8	6505.3	6525.8	6532.2
5°	6455.4	6468.2	6487.4	6505.3	6511.7
7.5°	6423.3	6433.6	6450.2	6468.2	6473.3
10°	6369.6	6381.1	6399.0	6415.7	6424.6
12.5°	6309.4	6314.5	6331.1	6350.3	6355.5
15°	6230.0	6235.1	6255.6	6269.7	6282.5
17.5°	6131.4	6136.5	6167.2	6173.6	6174.9
20°	6021.2	6028.9	6053.3	6064.8	6073.7
22.5°	5900.9	5911.1	5930.3	5944.4	5957.2
25°	5756.2	5772.8	5795.9	5813.8	5813.8
27.5°	5616.6	5619.1	5640.9	5660.1	5672.9
30°	5446.3	5448.8	5478.3	5500.0	5505.2
32.5°	5265.7	5275.9	5306.7	5329.7	5336.1
35°	5067.2	5083.9	5114.6	5150.5	5140.2
37.5°	4861.0	4870.0	4913.5	4943.0	4954.5
40°	4630.5	4656.2	4701.0	4733.0	4741.9
42.5°	4405.2	4428.2	4476.9	4507.6	4511.4
45°	4167.0	4190.0	4237.4	4286.1	4274.5
47.5°	3909.6	3945.4	3992.8	4044.0	4053.0
50°	3640.7	3693.2	3750.8	3793.0	3831.5
52.5°	3376.9	3419.1	3485.7	3561.3	3597.1
55°	3096.4	3157.9	3218.1	3319.2	3353.8
57.5°	2818.5	2892.8	2967.1	3078.5	3109.2
60°	2562.4	2621.3	2711.0	2819.8	2864.6
62.5°	2301.2	2369.1	2468.9	2568.8	2599.6
65°	2055.3	2109.1	2220.5	2306.3	2319.1
67.5°	1808.2	1872.2	1977.2	2066.8	2072.0
70°	1577.7	1635.3	1736.5	1812.0	1819.7
72.5°	1354.8	1413.7	1499.5	1576.4	1591.7
75°	1141.0	1194.8	1281.9	1349.7	1367.6
77.5°	951.5	991.2	1068.0	1144.8	1151.2
80°	740.2	786.3	882.3	946.3	956.6
82.5°	563.5	618.5	704.3	761.9	764.5
85°	389.3	466.1	548.1	595.5	595.5
87.5°	268.9	349.6	422.6	454.6	458.4
90°	204.9	257.4	317.6	345.8	344.5
92.5°	178.0	202.3	240.7	263.8	260.0
95°	167.8	167.8	184.4	202.3	201.0
97.5°	162.6	152.4	146.0	157.5	156.2
100°	161.4	143.4	120.4	125.5	126.8
102.5°	157.5	135.7	105.0	103.7	105.0
105°	149.8	128.1	94.8	87.1	88.4
107.5°	139.6	117.8	87.1	76.8	78.1
110°	126.8	105.0	79.4	69.2	69.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	114.0	92.2	71.7	61.5	62.7
115°	98.6	79.4	62.7	53.8	56.3
117.5°	85.8	69.2	55.1	46.1	49.9
120°	73.0	60.2	44.8	38.4	43.5
122.5°	61.5	51.2	35.9	32.0	37.1
125°	52.5	42.3	28.2	25.6	30.7
127.5°	43.5	35.9	20.5	20.5	24.3
130°	35.9	29.5	12.8	15.4	19.2
132.5°	29.5	24.3	9.0	10.2	14.1
135°	23.1	19.2	6.4	6.4	10.2
137.5°	19.2	14.1	3.8	2.6	5.1
140°	14.1	10.2	2.6	0.0	1.3
142.5°	11.5	7.7	1.3	0.0	0.0
145°	7.7	5.1	1.3	0.0	0.0
147.5°	5.1	2.6	1.3	1.3	0.0
150°	2.6	2.6	1.3	1.3	0.0
152.5°	2.6	2.6	1.3	1.3	0.0
155°	2.6	2.6	2.6	1.3	0.0
157.5°	2.6	2.6	2.6	1.3	0.0
160°	2.6	2.6	2.6	1.3	1.3
162.5°	3.8	3.8	2.6	1.3	1.3
165°	3.8	3.8	2.6	1.3	1.3
167.5°	3.8	3.8	2.6	2.6	1.3
170°	3.8	3.8	2.6	1.3	1.3
172.5°	3.8	3.8	2.6	2.6	1.3
175°	3.8	3.8	3.8	2.6	1.3
177.5°	3.8	3.8	3.8	2.6	1.3
180°	3.8	3.8	3.8	3.8	3.8

(END OF REPORT)