

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: P236610

Luminaire Tested: **VRVT4LED-LD5-18-DR-UNV-L835-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4LED-LD5-18-DR-UNV-L835-CD2-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
8 BOARDS WITH CLEAR ACRYLIC LENS
Light Source: (448) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17991.0 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.15 / 1.26
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

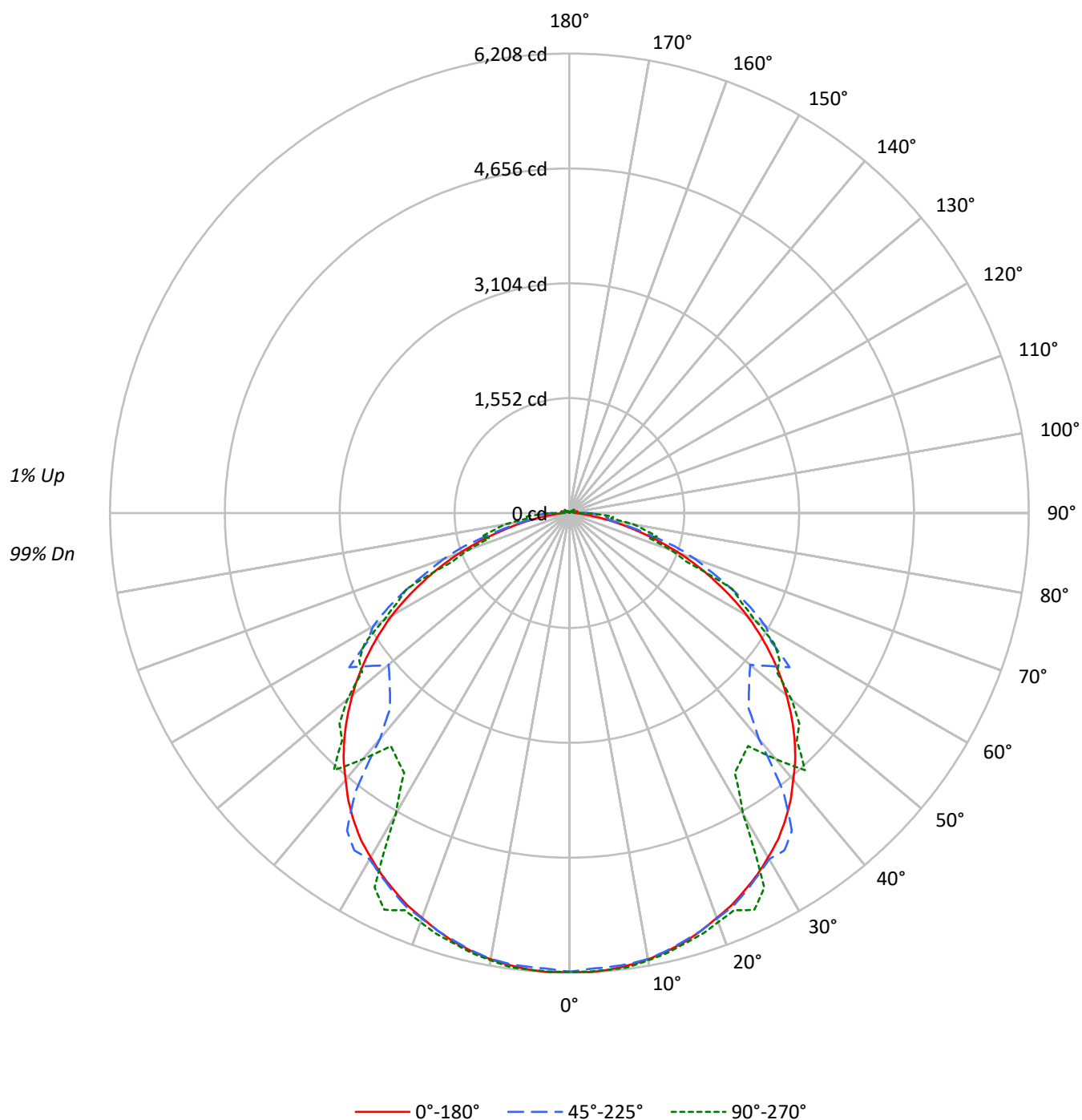
Input Watts (W): 133.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101			99
1	108	103	99	95	105	101	97	93	96	93	90	92	90	87	88	86	84			82
2	98	90	83	77	96	88	82	76	84	79	74	81	76	72	77	74	71			68
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	68	64	60			57
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	52	46	57	50	45	55	49	45			42
6	70	56	47	41	68	55	47	41	53	46	40	51	45	40	50	44	39			37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35			33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31			29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	38	32	28			26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25			24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15526	15526	15526
5°	15488	15196	15255
10°	15408	14998	14972
15°	15314	14690	14670
20°	15184	14421	14418
25°	15100	14186	14700
30°	15012	13910	11921
35°	14898	13946	10620
40°	14639	11045	11807
45°	14374	10022	12418
50°	13917	9916	11868
55°	13350	12165	11278
60°	12571	11222	10249
65°	11382	9836	9492
70°	9901	8311	6428
75°	7713	5845	6245
80°	5503	3461	5383
85°	3377	3983	4560



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.2	3.3
10°-20°	1696.5	9.4
20°-30°	2609.3	14.5
30°-40°	2961.1	16.5
40°-50°	3145.7	17.5
50°-60°	2976.3	16.5
60°-70°	2164.2	12.0
70°-80°	1131.9	6.3
80°-90°	455.6	2.5
90°-100°	101.9	0.6
100°-110°	60.9	0.3
110°-120°	40.6	0.2
120°-130°	32.1	0.2
130°-140°	16.7	0.1
140°-150°	5.9	0.0
150°-160°	2.1	0.0
160°-170°	1.5	0.0
170°-180°	0.6	0.0
0°-30°	4894.0	27.2
0°-40°	7855.1	43.7
0°-60°	13977.1	77.7
0°-90°	17728.7	98.5
90°-120°	203.4	1.1
90°-150°	258.1	1.4
90°-180°	262.0	1.5
0°-180°	17991.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6198	6198	6198	6198	6198	
5°	6192	6177	6156	6186	6194	589
15°	6001	6012	5987	6012	6020	1693
25°	5618	5615	5641	5716	5914	2591
35°	5078	5051	5239	4030	4056	3174
45°	4303	4292	3430	4541	4346	3312
55°	3321	3174	3631	3365	3467	2964
65°	2170	1800	2416	2343	2426	2149
75°	977	1086	1083	862	1223	1059
85°	199	306	475	523	594	232
90°	63	174	251	232	192	42
95°	91	84	66	63	64	78
105°	91	69	50	47	44	95
115°	42	48	37	32	33	44
125°	20	18	26	81	76	18
135°	10	8	16	37	22	8
145°	6	5	5	19	18	4
155°	5	5	5	4	3	2
165°	6	6	6	5	3	2
175°	7	6	7	6	5	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6197.7	6197.7	6197.7	6197.7	6197.7
2.5°	6208.5	6194.7	6164.4	6188.9	6198.7
5°	6191.8	6177.1	6155.5	6185.9	6193.8
7.5°	6161.4	6149.7	6145.7	6184.0	6185.9
10°	6122.2	6110.5	6117.3	6134.0	6135.0
12.5°	6066.4	6070.3	6058.5	6080.1	6088.9
15°	6000.7	6011.5	5987.0	6012.5	6020.3
17.5°	5916.4	5926.2	5916.4	5956.6	5963.5
20°	5821.4	5834.1	5828.2	5869.4	5881.1
22.5°	5731.2	5731.2	5757.7	5798.8	5809.6
25°	5617.5	5614.6	5641.0	5716.5	5913.5
27.5°	5502.8	5486.2	5518.5	5743.0	5701.8
30°	5371.5	5360.7	5399.0	5369.6	4692.4
32.5°	5239.2	5207.9	5405.8	4441.5	4159.2
35°	5078.5	5051.1	5239.2	4029.9	4056.3
37.5°	4905.0	4893.3	4750.2	3912.3	3967.1
40°	4704.1	4693.3	3979.9	3820.1	4337.6
42.5°	4516.0	4504.2	3584.0	4065.1	4712.0
45°	4303.3	4292.5	3430.1	4541.4	4346.4
47.5°	4070.0	4180.8	3295.8	4129.8	4213.1
50°	3829.0	3962.2	3189.0	3953.4	3916.2
52.5°	3582.0	3691.8	3391.9	3678.0	3532.0
55°	3321.3	3174.3	3631.0	3365.4	3467.3
57.5°	3049.8	2646.1	3231.1	3226.2	3283.1
60°	2772.5	2248.2	3064.5	3026.3	2896.0
62.5°	2472.6	2027.7	2755.8	2634.3	2625.5
65°	2169.8	1800.3	2415.8	2343.2	2425.6
67.5°	1873.8	1561.2	2067.9	2158.0	1708.2
70°	1576.9	1343.6	1797.4	1387.7	1456.3
72.5°	1272.1	1157.4	1486.7	1298.5	1135.8
75°	977.1	1085.9	1082.9	862.4	1223.1
77.5°	725.2	963.4	809.5	921.2	1035.9
80°	512.6	696.8	529.2	662.5	881.0
82.5°	334.2	430.2	528.2	669.4	568.4
85°	198.9	305.8	475.3	523.3	593.9
87.5°	125.4	223.4	360.6	387.1	382.2
90°	62.7	173.5	250.9	232.3	192.1
92.5°	57.8	128.4	124.5	110.7	99.0
95°	91.1	84.3	65.7	62.7	63.7
97.5°	111.7	64.7	51.0	51.0	51.0
100°	108.8	66.6	49.0	47.0	44.1
102.5°	103.9	80.4	49.0	46.1	45.1
105°	91.1	68.6	50.0	47.0	44.1
107.5°	76.4	59.8	48.0	49.0	48.0
110°	63.7	53.9	46.1	44.1	43.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	51.9	51.9	43.1	37.2	41.2
115°	42.1	48.0	37.2	32.3	33.3
117.5°	35.3	35.3	45.1	29.4	28.4
120°	28.4	29.4	72.5	27.4	26.5
122.5°	23.5	25.5	44.1	53.9	28.4
125°	19.6	17.6	26.5	81.3	76.4
127.5°	16.7	12.7	24.5	41.2	72.5
130°	13.7	10.8	37.2	21.6	30.4
132.5°	11.8	8.8	42.1	20.6	18.6
135°	9.8	7.8	15.7	37.2	21.6
137.5°	7.8	6.9	13.7	62.7	43.1
140°	6.9	5.9	14.7	14.7	32.3
142.5°	6.9	4.9	6.9	14.7	12.7
145°	5.9	4.9	4.9	18.6	17.6
147.5°	4.9	4.9	4.9	12.7	18.6
150°	4.9	4.9	4.9	4.9	7.8
152.5°	4.9	4.9	4.9	3.9	2.9
155°	4.9	4.9	4.9	3.9	2.9
157.5°	4.9	4.9	4.9	3.9	2.9
160°	5.9	4.9	5.9	3.9	2.9
162.5°	5.9	5.9	5.9	4.9	2.9
165°	5.9	5.9	5.9	4.9	2.9
167.5°	5.9	5.9	5.9	4.9	3.9
170°	5.9	5.9	5.9	4.9	3.9
172.5°	5.9	5.9	6.9	5.9	3.9
175°	6.9	5.9	6.9	5.9	4.9
177.5°	6.9	5.9	6.9	5.9	4.9
180°	5.9	5.9	5.9	5.9	5.9

(END OF REPORT)