

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: P236616

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-10)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4LED-LD5-18-PC-UNV-L835-CD2-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
8 BOARDS WITH CLEAR POLY CARBONATE LENS
Light Source: (448) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17625.0 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.13 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

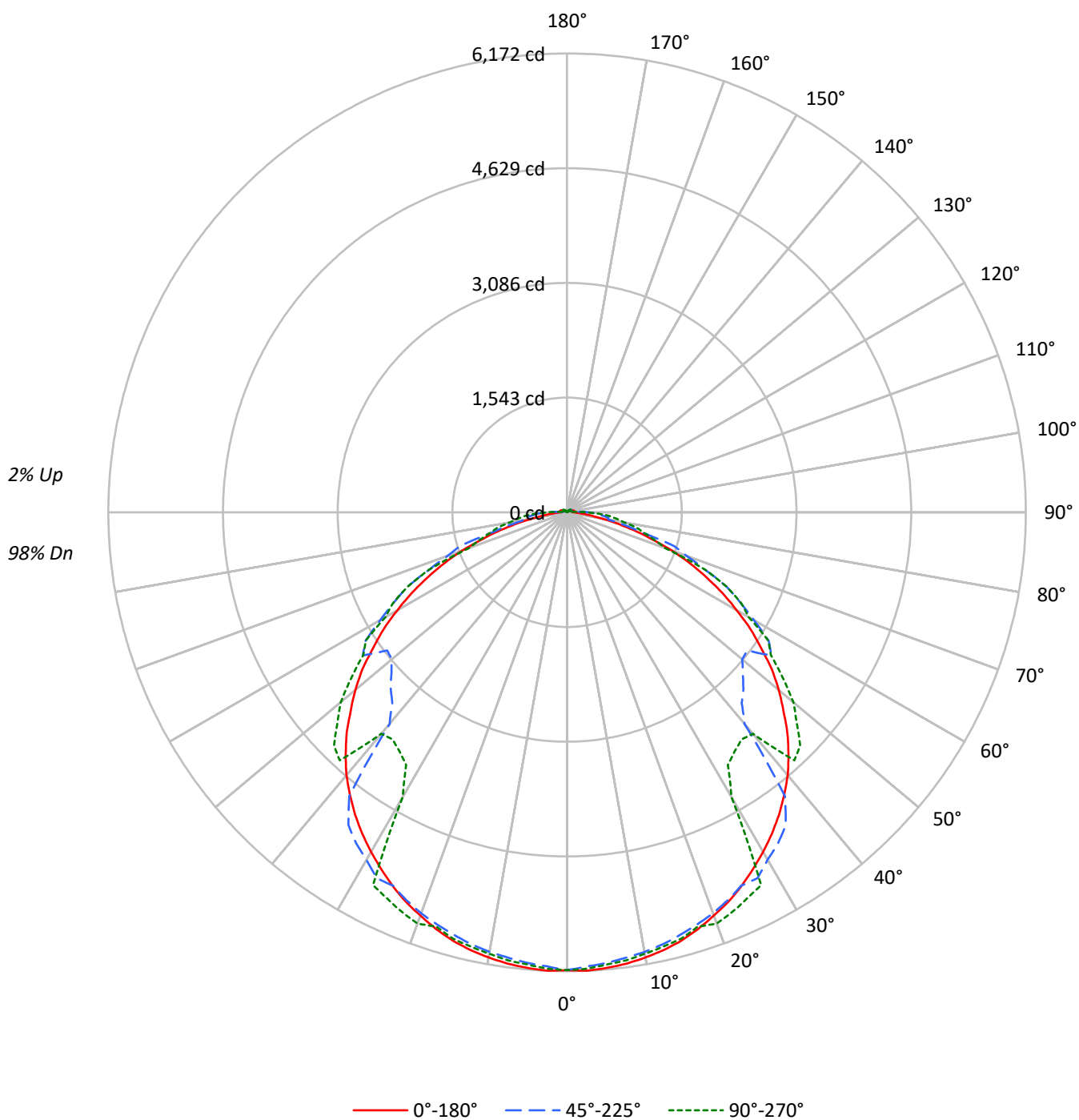
Input Watts (W): 133.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		110	110	110		105	105	105		101	101	101
1	108	103	99	95	105	101	97	93		96	93	90		92	89	87		88	86	84
2	98	90	83	77	96	88	82	76		84	79	74		81	76	72		77	74	71
3	90	79	71	64	87	77	70	64		74	68	62		71	66	61		68	64	60
4	82	70	61	54	80	69	60	54		66	59	53		63	57	52		61	56	51
5	75	63	54	47	73	61	53	47		59	52	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	41		53	46	40		51	45	40		50	44	39
7	65	51	42	36	63	50	42	36		48	41	36		47	40	35		45	39	35
8	60	47	38	32	58	46	38	32		44	37	32		43	36	31		42	36	31
9	56	43	35	29	55	42	34	29		41	34	29		40	33	28		38	33	28
10	53	39	32	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15426	15426	15426
5°	15387	15024	15039
10°	15301	14721	14715
15°	15213	14437	14464
20°	15055	14200	14430
25°	14915	13936	14246
30°	14740	13904	11236
35°	14578	13656	10286
40°	14366	10307	10582
45°	14000	9797	12669
50°	13521	9568	12045
55°	12810	11245	10882
60°	11957	10636	9995
65°	10852	9644	9257
70°	9389	7907	6151
75°	7302	5564	5464
80°	4945	3673	4754
85°	3279	3901	4372



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.9	3.3
10°-20°	1671.2	9.5
20°-30°	2578.3	14.6
30°-40°	2895.3	16.4
40°-50°	3064.8	17.4
50°-60°	2895.9	16.4
60°-70°	2101.7	11.9
70°-80°	1081.2	6.1
80°-90°	473.2	2.7
90°-100°	117.1	0.7
100°-110°	57.3	0.3
110°-120°	42.0	0.2
120°-130°	36.4	0.2
130°-140°	19.6	0.1
140°-150°	6.4	0.0
150°-160°	2.0	0.0
160°-170°	1.2	0.0
170°-180°	0.5	0.0
0°-30°	4830.4	27.4
0°-40°	7725.7	43.8
0°-60°	13686.4	77.7
0°-90°	17342.5	98.4
90°-120°	216.5	1.2
90°-150°	278.8	1.6
90°-180°	282.0	1.6
0°-180°	17625.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6158	6158	6158	6158	6158	
5°	6151	6124	6086	6101	6106	585
15°	5961	5907	5884	5920	5936	1681
25°	5549	5518	5542	5706	5731	2557
35°	4969	4979	5130	3904	3929	3107
45°	4191	4262	3353	4263	4434	3227
55°	3187	3247	3356	3408	3346	2854
65°	2069	1699	2369	2352	2366	2048
75°	925	899	1031	851	1070	992
85°	193	304	466	535	569	215
90°	84	178	286	270	258	51
95°	82	98	86	72	66	72
105°	86	67	48	41	40	90
115°	45	47	41	28	28	46
125°	22	20	30	74	86	21
135°	11	9	24	39	21	9
145°	6	5	4	15	13	4
155°	5	5	5	3	2	2
165°	5	5	5	4	3	1
175°	6	6	6	5	4	1
180°	5	5	5	5	5	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6158.1	6158.1	6158.1	6158.1	6158.1
2.5°	6171.8	6153.2	6114.0	6133.6	6144.4
5°	6151.3	6123.8	6085.6	6101.3	6106.2
7.5°	6123.8	6093.4	6043.5	6070.9	6077.8
10°	6079.7	6042.5	6004.3	6027.8	6029.7
12.5°	6028.8	5984.7	5951.3	5978.8	5982.7
15°	5961.1	5907.2	5883.7	5920.0	5935.7
17.5°	5873.9	5827.9	5813.2	5868.0	5844.5
20°	5772.0	5733.8	5738.7	5769.1	5885.7
22.5°	5670.1	5630.9	5647.6	5839.6	5816.1
25°	5548.6	5518.2	5541.7	5706.4	5730.8
27.5°	5413.3	5394.7	5546.6	5608.4	5652.5
30°	5274.2	5263.4	5396.7	5416.3	4422.6
32.5°	5126.2	5122.3	5280.1	4160.0	4027.7
35°	4969.4	4979.2	5130.1	3904.2	3928.7
37.5°	4795.0	4843.0	4812.6	3803.3	3852.3
40°	4616.6	4710.7	3714.1	3708.2	3887.5
42.5°	4408.9	4487.3	3478.9	3706.2	4525.5
45°	4191.3	4261.9	3353.4	4262.9	4434.4
47.5°	3946.3	4051.2	3204.5	4197.2	4188.4
50°	3720.0	3839.5	3077.1	3947.3	3974.7
52.5°	3471.0	3592.6	3050.6	3714.1	3660.2
55°	3186.9	3246.6	3356.4	3408.3	3345.6
57.5°	2929.1	2469.5	3214.3	3143.7	3207.4
60°	2637.1	2128.5	2904.6	2932.1	2824.3
62.5°	2358.8	1923.7	2623.4	2588.1	2637.1
65°	2068.7	1699.3	2368.6	2351.9	2365.6
67.5°	1789.4	1467.0	1998.2	2114.8	2004.0
70°	1495.4	1246.5	1710.0	1400.4	1393.5
72.5°	1186.7	1036.8	1503.3	1255.3	1229.9
75°	925.1	898.6	1030.9	850.6	1070.1
77.5°	676.2	854.5	785.0	967.2	960.4
80°	460.6	674.2	561.5	730.1	778.1
82.5°	302.8	451.8	560.5	679.1	673.2
85°	193.1	303.8	465.5	535.1	569.4
87.5°	132.3	225.4	397.9	436.1	422.4
90°	84.3	178.4	286.2	270.5	257.7
92.5°	68.6	143.1	167.6	148.0	130.3
95°	82.3	98.0	86.2	71.5	65.7
97.5°	98.0	67.6	58.8	55.9	56.8
100°	100.9	67.6	49.0	42.1	39.2
102.5°	96.0	70.6	48.0	43.1	39.2
105°	86.2	66.6	48.0	41.2	40.2
107.5°	75.5	60.8	49.0	39.2	35.3
110°	64.7	56.8	45.1	44.1	41.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.9	53.9	40.2	35.3	40.2
115°	45.1	47.0	41.2	28.4	28.4
117.5°	38.2	38.2	66.6	26.5	24.5
120°	32.3	30.4	66.6	42.1	25.5
122.5°	26.5	25.5	47.0	90.2	69.6
125°	22.5	19.6	30.4	73.5	86.2
127.5°	18.6	14.7	23.5	45.1	59.8
130°	15.7	11.8	34.3	26.5	38.2
132.5°	12.7	9.8	52.9	19.6	20.6
135°	10.8	8.8	23.5	39.2	20.6
137.5°	8.8	6.9	11.8	77.4	55.9
140°	7.8	5.9	10.8	26.5	66.6
142.5°	5.9	4.9	8.8	12.7	17.6
145°	5.9	4.9	3.9	14.7	12.7
147.5°	4.9	3.9	3.9	17.6	18.6
150°	4.9	3.9	3.9	5.9	16.7
152.5°	4.9	3.9	3.9	2.9	2.9
155°	4.9	4.9	4.9	2.9	2.0
157.5°	4.9	4.9	4.9	2.9	2.0
160°	4.9	4.9	4.9	2.9	2.0
162.5°	4.9	4.9	4.9	3.9	2.0
165°	4.9	4.9	4.9	3.9	2.9
167.5°	4.9	4.9	5.9	3.9	2.9
170°	4.9	4.9	5.9	3.9	2.9
172.5°	5.9	4.9	5.9	3.9	2.9
175°	5.9	5.9	5.9	4.9	3.9
177.5°	5.9	5.9	5.9	4.9	3.9
180°	4.9	4.9	4.9	4.9	4.9

(END OF REPORT)