

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: P236617

Luminaire Tested: **VRVT4LED-LD5-18-PC-UNV-L840-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236617
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-L840-CD2-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
8 BOARDS WITH CLEAR POLY CARBONATE LENS
Light Source: (448) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17985.0 lumens
Efficiency: N/A
Efficacy: 134.9 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

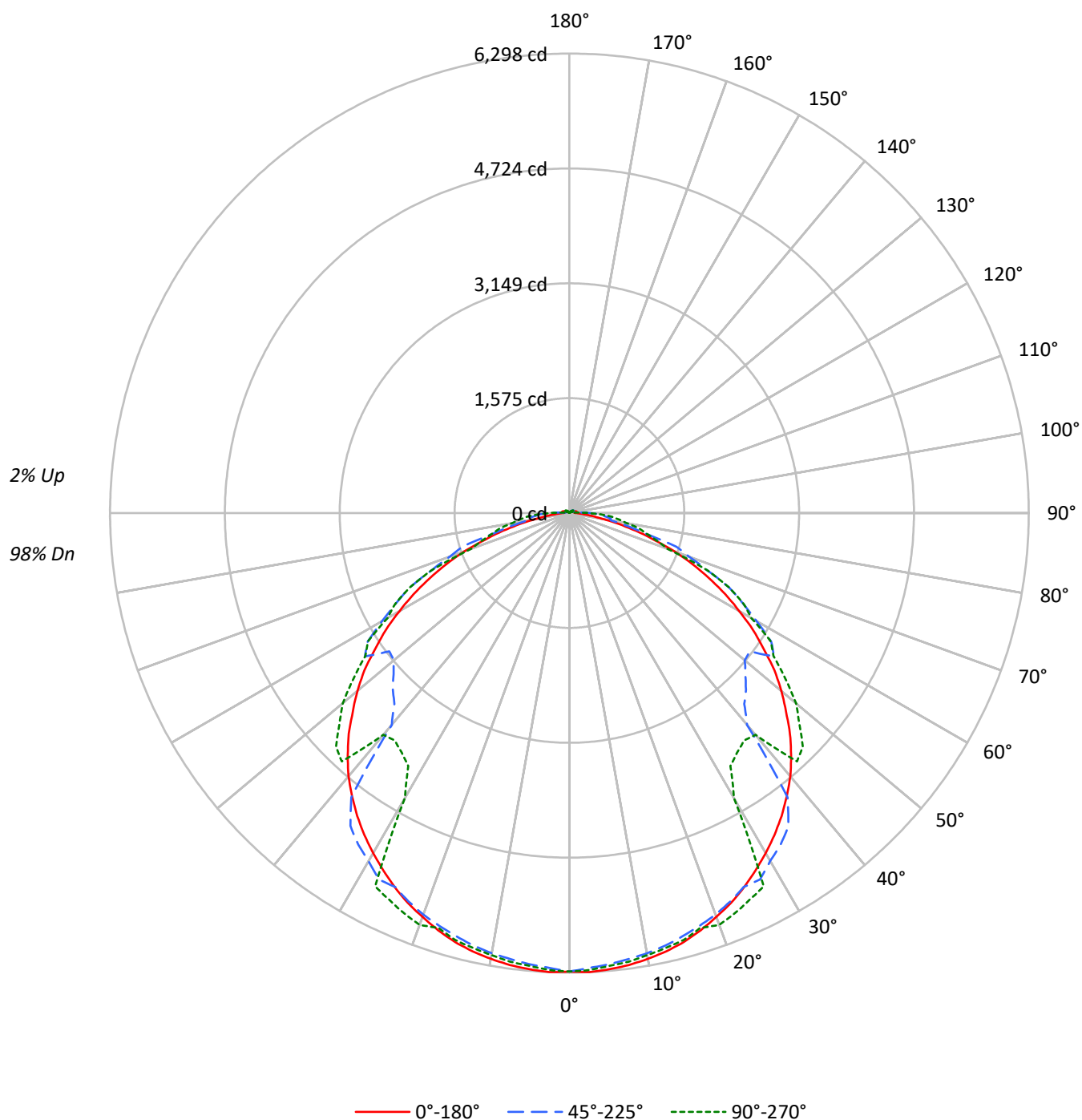
Input Watts (W): 133.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	15742	15742	15742
5°	15701	15330	15346
10°	15614	15022	15016
15°	15523	14732	14759
20°	15363	14490	14724
25°	15220	14221	14537
30°	15041	14188	11465
35°	14876	13935	10496
40°	14660	10518	10798
45°	14286	9998	12928
50°	13797	9763	12291
55°	13071	11475	11104
60°	12201	10854	10199
65°	11074	9841	9447
70°	9581	8069	6276
75°	7451	5678	5575
80°	5046	3748	4851
85°	3345	3981	4461



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.8	3.3
10°-20°	1705.3	9.5
20°-30°	2630.9	14.6
30°-40°	2954.4	16.4
40°-50°	3127.3	17.4
50°-60°	2955.1	16.4
60°-70°	2144.6	11.9
70°-80°	1103.3	6.1
80°-90°	482.9	2.7
90°-100°	119.5	0.7
100°-110°	58.5	0.3
110°-120°	42.8	0.2
120°-130°	37.1	0.2
130°-140°	19.9	0.1
140°-150°	6.5	0.0
150°-160°	2.0	0.0
160°-170°	1.3	0.0
170°-180°	0.5	0.0
0°-30°	4929.1	27.4
0°-40°	7883.5	43.8
0°-60°	13965.9	77.7
0°-90°	17696.7	98.4
90°-120°	220.9	1.2
90°-150°	284.5	1.6
90°-180°	288.0	1.6
0°-180°	17985.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6284	6284	6284	6284	6284	
5°	6277	6249	6210	6226	6231	597
15°	6083	6028	6004	6041	6057	1716
25°	5662	5631	5655	5823	5848	2609
35°	5071	5081	5235	3984	4009	3171
45°	4277	4349	3422	4350	4525	3292
55°	3252	3313	3425	3478	3414	2912
65°	2111	1734	2417	2400	2414	2090
75°	944	917	1052	868	1092	1012
85°	197	310	475	546	581	220
90°	86	182	292	276	263	52
95°	84	100	88	73	67	74
105°	88	68	49	42	41	92
115°	46	48	42	29	29	47
125°	23	20	31	75	88	21
135°	11	9	24	40	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°	6283.9	6283.9	6283.9	6283.9	6283.9
2.5°	6297.9	6278.9	6238.9	6258.9	6269.9
5°	6276.9	6248.9	6209.9	6225.9	6230.9
7.5°	6248.9	6217.9	6166.9	6194.9	6201.9
10°	6203.9	6165.9	6126.9	6150.9	6152.9
12.5°	6151.9	6106.9	6072.9	6100.9	6104.9
15°	6082.9	6027.9	6003.9	6040.9	6056.9
17.5°	5993.9	5946.9	5931.9	5987.9	5963.9
20°	5889.9	5850.9	5855.9	5886.9	6005.9
22.5°	5785.9	5745.9	5762.9	5958.9	5934.9
25°	5661.9	5630.9	5654.9	5822.9	5847.9
27.5°	5523.9	5504.9	5659.9	5722.9	5767.9
30°	5381.9	5370.9	5506.9	5526.9	4512.9
32.5°	5230.9	5226.9	5387.9	4244.9	4109.9
35°	5070.9	5080.9	5234.9	3983.9	4008.9
37.5°	4892.9	4941.9	4910.9	3880.9	3930.9
40°	4710.9	4806.9	3789.9	3783.9	3966.9
42.5°	4498.9	4578.9	3549.9	3781.9	4617.9
45°	4276.9	4348.9	3421.9	4349.9	4524.9
47.5°	4026.9	4133.9	3269.9	4282.9	4273.9
50°	3795.9	3917.9	3139.9	4027.9	4055.9
52.5°	3541.9	3665.9	3112.9	3789.9	3734.9
55°	3251.9	3312.9	3424.9	3477.9	3413.9
57.5°	2989.0	2520.0	3279.9	3207.9	3272.9
60°	2691.0	2172.0	2964.0	2992.0	2882.0
62.5°	2407.0	1963.0	2677.0	2641.0	2691.0
65°	2111.0	1734.0	2417.0	2400.0	2414.0
67.5°	1826.0	1497.0	2039.0	2158.0	2045.0
70°	1526.0	1272.0	1745.0	1429.0	1422.0
72.5°	1211.0	1058.0	1534.0	1281.0	1255.0
75°	944.0	917.0	1052.0	868.0	1092.0
77.5°	690.0	872.0	801.0	987.0	980.0
80°	470.0	688.0	573.0	745.0	794.0
82.5°	309.0	461.0	572.0	693.0	687.0
85°	197.0	310.0	475.0	546.0	581.0
87.5°	135.0	230.0	406.0	445.0	431.0
90°	86.0	182.0	292.0	276.0	263.0
92.5°	70.0	146.0	171.0	151.0	133.0
95°	84.0	100.0	88.0	73.0	67.0
97.5°	100.0	69.0	60.0	57.0	58.0
100°	103.0	69.0	50.0	43.0	40.0
102.5°	98.0	72.0	49.0	44.0	40.0
105°	88.0	68.0	49.0	42.0	41.0
107.5°	77.0	62.0	50.0	40.0	36.0
110°	66.0	58.0	46.0	45.0	42.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	55.0	55.0	41.0	36.0	41.0
115°	46.0	48.0	42.0	29.0	29.0
117.5°	39.0	39.0	68.0	27.0	25.0
120°	33.0	31.0	68.0	43.0	26.0
122.5°	27.0	26.0	48.0	92.0	71.0
125°	23.0	20.0	31.0	75.0	88.0
127.5°	19.0	15.0	24.0	46.0	61.0
130°	16.0	12.0	35.0	27.0	39.0
132.5°	13.0	10.0	54.0	20.0	21.0
135°	11.0	9.0	24.0	40.0	21.0
137.5°	9.0	7.0	12.0	79.0	57.0
140°	8.0	6.0	11.0	27.0	68.0
142.5°	6.0	5.0	9.0	13.0	18.0
145°	6.0	5.0	4.0	15.0	13.0
147.5°	5.0	4.0	4.0	18.0	19.0
150°	5.0	4.0	4.0	6.0	17.0
152.5°	5.0	4.0	4.0	3.0	3.0
155°	5.0	5.0	5.0	3.0	2.0
157.5°	5.0	5.0	5.0	3.0	2.0
160°	5.0	5.0	5.0	3.0	2.0
162.5°	5.0	5.0	5.0	4.0	2.0
165°	5.0	5.0	5.0	4.0	3.0
167.5°	5.0	5.0	6.0	4.0	3.0
170°	5.0	5.0	6.0	4.0	3.0
172.5°	6.0	5.0	6.0	4.0	3.0
175°	6.0	6.0	6.0	5.0	4.0
177.5°	6.0	6.0	6.0	5.0	4.0
180°	5.0	5.0	5.0	5.0	5.0

(END OF REPORT)