

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: P236591

Luminaire Tested: **VRVT4LED-LD5-9-DRF-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4LED-LD5-9-DRF-UNV-L850-CD1-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
4 BOARDS WITH FROSTED ACYLIC LENS
Light Source: (224) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9125.0 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

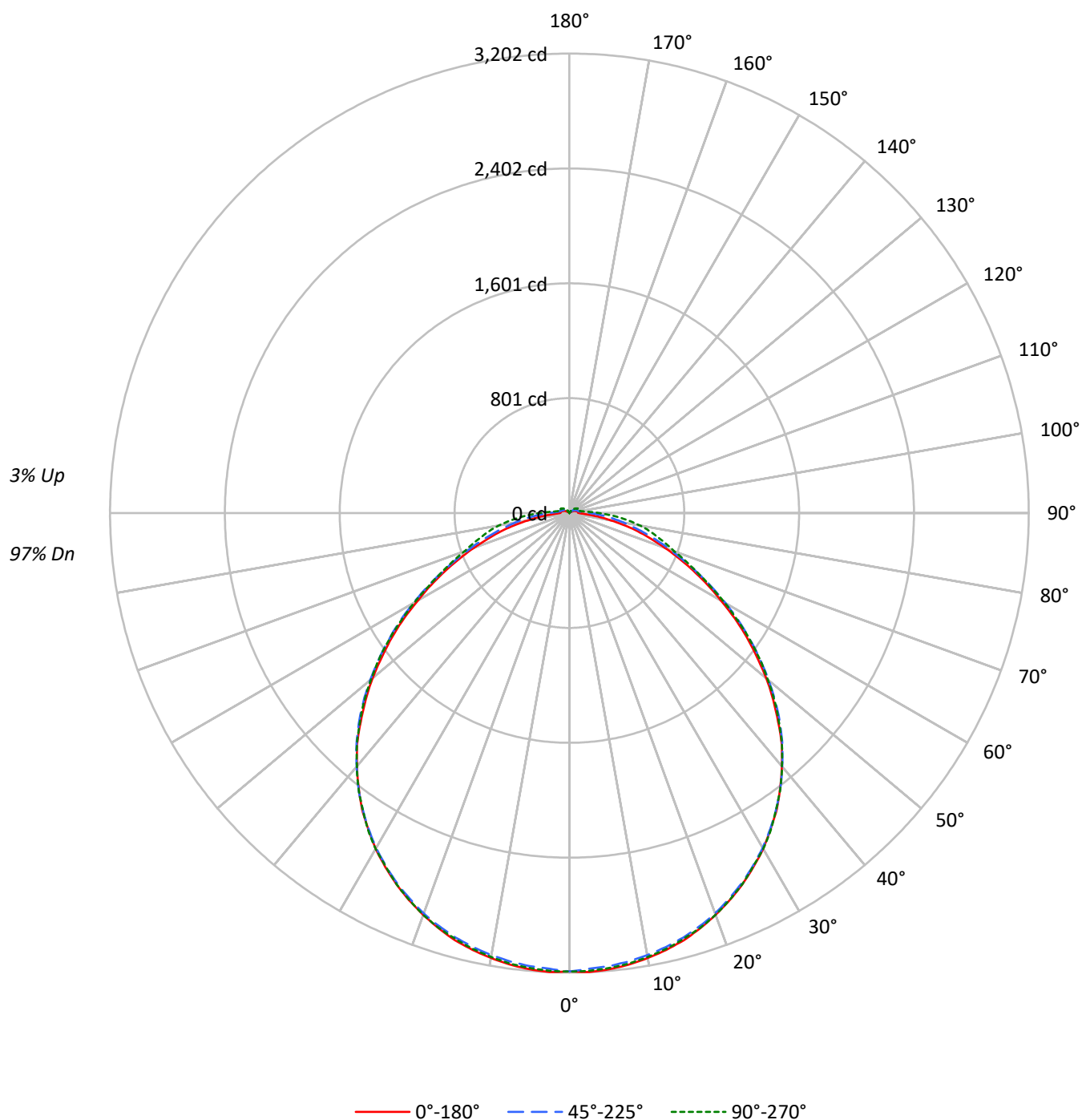
Input Watts (W): 64.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	115	115	115	115	110	110	110	104	104	104	99	99	99
1	108	103	99	95	105	100	96	93	96	92	89	91	89	86	87	85	83
2	98	90	83	77	95	88	81	76	84	78	74	80	76	72	77	73	70
3	90	79	71	64	87	77	70	64	74	67	62	71	65	61	68	63	59
4	82	70	61	55	80	69	60	54	66	59	53	63	57	52	61	55	51
5	76	63	54	47	73	61	53	47	59	52	46	57	50	45	55	49	45
6	70	57	48	41	68	55	47	41	53	46	40	51	45	40	50	44	39
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	39	35
8	60	47	38	33	59	46	38	32	44	37	32	43	36	32	42	36	31
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	38	33	28
10	53	40	32	27	51	39	32	26	38	31	26	37	30	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8002	8002	8002
5°	7982	7824	7839
10°	7924	7670	7665
15°	7864	7515	7486
20°	7771	7346	7304
25°	7672	7154	7092
30°	7551	6942	6864
35°	7393	6694	6582
40°	7170	6403	6275
45°	6874	6067	5906
50°	6512	5640	5471
55°	6069	5146	4983
60°	5526	4601	4417
65°	5003	4007	3863
70°	4449	3450	3431
75°	3896	2951	3229
80°	3170	2512	3048
85°	2374	2073	2652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.4	3.3
10°-20°	867.2	9.5
20°-30°	1313.7	14.4
30°-40°	1574.4	17.3
40°-50°	1596.4	17.5
50°-60°	1367.6	15.0
60°-70°	974.9	10.7
70°-80°	592.1	6.5
80°-90°	275.4	3.0
90°-100°	100.9	1.1
100°-110°	63.0	0.7
110°-120°	47.8	0.5
120°-130°	30.2	0.3
130°-140°	14.1	0.2
140°-150°	3.7	0.0
150°-160°	0.6	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	2483.3	27.2
0°-40°	4057.7	44.5
0°-60°	7021.8	77.0
0°-90°	8864.1	97.1
90°-120°	211.6	2.3
90°-150°	259.7	2.8
90°-180°	261.0	2.9
0°-180°	9125.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3194	3194	3194	3194	3194	
5°	3191	3184	3169	3185	3183	303
15°	3082	3074	3063	3078	3072	869
25°	2854	2851	2845	2858	2853	1315
35°	2520	2522	2515	2523	2514	1573
45°	2058	2074	2077	2074	2067	1587
55°	1510	1528	1536	1541	1532	1347
65°	954	973	984	988	987	948
75°	494	507	547	607	632	523
85°	140	163	247	328	345	148
90°	66	76	143	196	207	39
95°	60	58	88	111	116	49
105°	52	46	62	68	68	55
115°	32	30	50	63	66	33
125°	17	14	33	51	56	16
135°	8	6	14	29	36	6
145°	3	3	1	9	14	2
155°	2	2	1	0	0	1
165°	3	2	2	1	1	1
175°	3	3	2	1	1	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3194.3	3194.3	3194.3	3194.3	3194.3
2.5°	3201.6	3194.3	3178.6	3194.3	3193.2
5°	3191.1	3183.8	3169.2	3184.9	3182.8
7.5°	3174.4	3167.1	3151.5	3168.2	3166.1
10°	3148.3	3145.2	3128.5	3144.2	3141.0
12.5°	3118.1	3112.9	3098.3	3113.9	3110.8
15°	3081.6	3074.3	3062.8	3078.4	3072.2
17.5°	3033.6	3030.4	3018.9	3034.6	3030.4
20°	2979.3	2975.1	2968.9	2981.4	2979.3
22.5°	2919.8	2916.7	2908.3	2925.0	2917.7
25°	2854.1	2850.9	2844.7	2858.2	2853.0
27.5°	2780.0	2780.0	2771.6	2784.1	2774.8
30°	2701.7	2699.6	2694.4	2703.8	2701.7
32.5°	2610.9	2619.3	2606.7	2615.1	2615.1
35°	2520.1	2522.2	2514.9	2523.3	2513.9
37.5°	2413.7	2420.0	2416.8	2422.0	2416.8
40°	2304.1	2312.5	2307.3	2309.3	2305.2
42.5°	2191.4	2199.8	2198.7	2197.7	2193.5
45°	2057.8	2073.5	2076.6	2074.5	2067.2
47.5°	1926.4	1947.2	1949.3	1952.5	1942.0
50°	1791.7	1805.3	1813.7	1814.7	1805.3
52.5°	1645.7	1667.6	1675.9	1680.1	1673.8
55°	1510.0	1527.7	1536.1	1541.3	1531.9
57.5°	1366.0	1378.5	1399.4	1400.4	1390.0
60°	1218.8	1241.8	1256.4	1255.4	1248.1
62.5°	1087.4	1100.9	1118.7	1117.6	1110.3
65°	953.8	972.6	984.1	988.2	987.2
67.5°	826.5	844.2	859.9	873.4	878.7
70°	708.6	722.1	746.1	770.1	777.4
72.5°	594.8	611.5	643.9	683.5	701.3
75°	493.6	507.2	546.8	607.3	632.4
77.5°	394.5	405.9	461.2	540.6	567.7
80°	295.3	316.2	384.0	472.7	498.8
82.5°	212.9	231.7	314.1	399.7	424.7
85°	139.8	162.8	247.3	327.7	345.4
87.5°	88.7	108.5	189.9	258.8	272.4
90°	65.7	76.2	143.0	196.2	206.6
92.5°	61.6	63.7	107.5	148.2	154.4
95°	60.5	58.4	87.7	110.6	115.8
97.5°	59.5	54.3	76.2	89.7	91.8
100°	58.4	51.1	69.9	78.3	78.3
102.5°	56.4	48.0	64.7	72.0	72.0
105°	52.2	45.9	61.6	67.8	67.8
107.5°	48.0	42.8	58.4	66.8	66.8
110°	42.8	39.7	56.4	65.7	66.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	37.6	35.5	53.2	64.7	66.8
115°	32.3	30.3	50.1	62.6	65.7
117.5°	28.2	26.1	47.0	60.5	64.7
120°	24.0	20.9	42.8	58.4	63.7
122.5°	19.8	16.7	38.6	54.3	60.5
125°	16.7	13.6	33.4	51.1	56.4
127.5°	14.6	10.4	28.2	45.9	52.2
130°	11.5	9.4	23.0	40.7	47.0
132.5°	9.4	7.3	18.8	35.5	41.7
135°	8.3	6.3	13.6	29.2	35.5
137.5°	6.3	5.2	9.4	24.0	30.3
140°	5.2	4.2	5.2	18.8	24.0
142.5°	4.2	3.1	3.1	13.6	18.8
145°	3.1	3.1	1.0	9.4	13.6
147.5°	3.1	2.1	1.0	5.2	8.3
150°	2.1	2.1	1.0	2.1	4.2
152.5°	2.1	2.1	1.0	0.0	1.0
155°	2.1	2.1	1.0	0.0	0.0
157.5°	2.1	2.1	1.0	0.0	0.0
160°	2.1	2.1	1.0	0.0	0.0
162.5°	3.1	2.1	1.0	1.0	0.0
165°	3.1	2.1	2.1	1.0	1.0
167.5°	3.1	3.1	2.1	1.0	1.0
170°	3.1	2.1	2.1	1.0	1.0
172.5°	3.1	2.1	2.1	1.0	1.0
175°	3.1	3.1	2.1	1.0	1.0
177.5°	3.1	3.1	2.1	1.0	1.0
180°	2.1	2.1	2.1	2.1	2.1

(END OF REPORT)