

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: P236634

Luminaire Tested: **VRVT4LED-LD5-30-PC-UNV-L835-CD3-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-16)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4LED-LD5-30-PC-UNV-L835-CD3-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
12 BOARDS WITH CLEAR POLY CARBONATE LENS
Light Source: (672) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29350.0 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.17 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

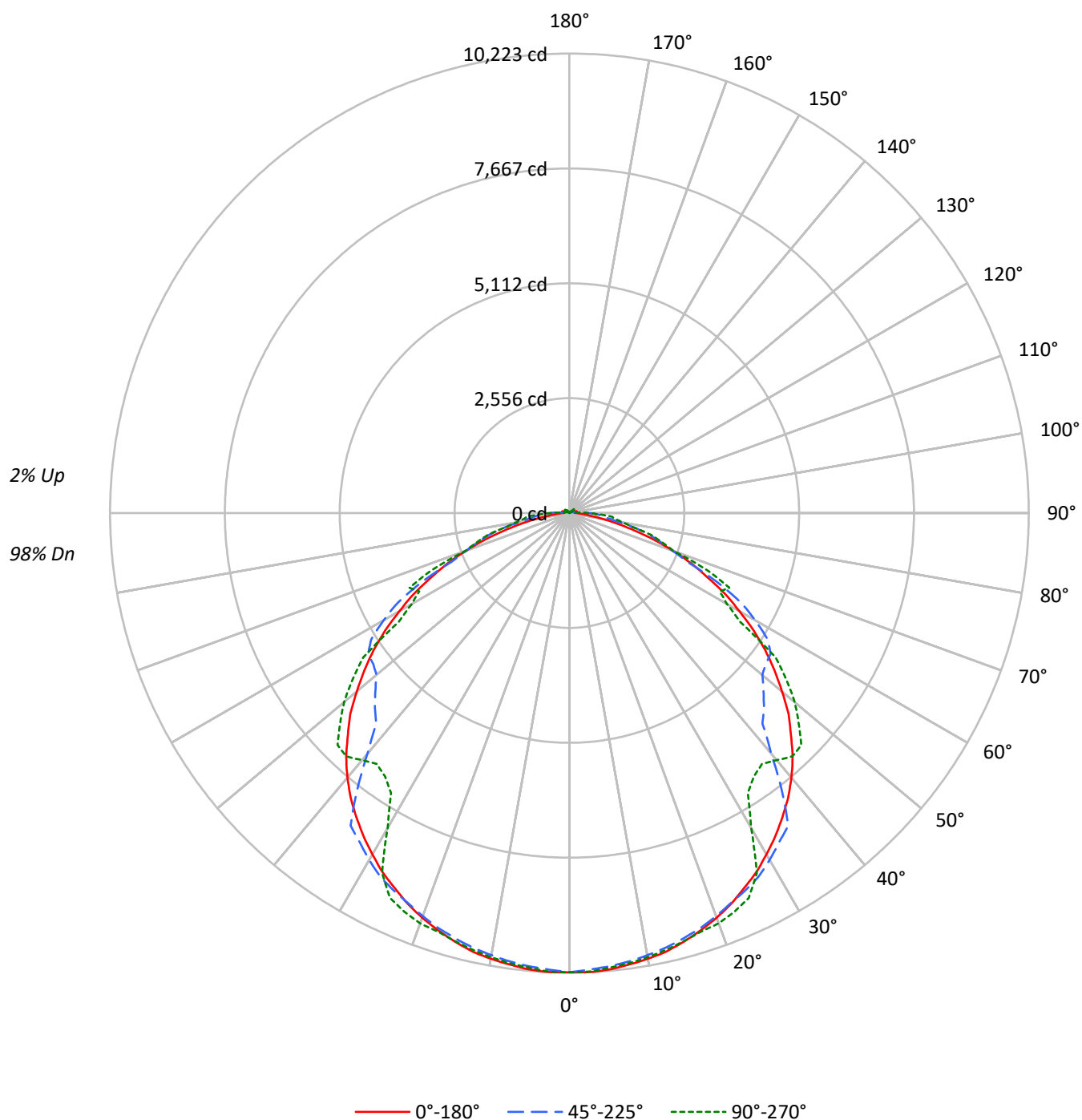
Input Watts (W): 232.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	10
RCR																				
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101			98
1	108	103	99	95	105	101	97	94	96	93	90	92	90	87	88	86	84			82
2	99	90	83	78	96	88	82	77	84	79	75	81	77	73	78	74	71			69
3	90	79	71	65	87	78	70	64	74	68	63	71	66	61	69	64	60			58
4	82	70	61	55	80	69	61	54	66	59	53	64	57	52	61	56	52			49
5	76	63	54	47	73	62	53	47	59	52	46	57	51	45	55	49	45			43
6	70	56	48	41	68	55	47	41	53	46	40	52	45	40	50	44	39			37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35			33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31			29
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28			26
10	53	40	32	26	51	39	31	26	38	31	26	37	30	26	36	30	26			24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25597	25597	25597
5°	25498	24994	25010
10°	25345	24489	24487
15°	25182	24043	24020
20°	24988	23618	23812
25°	24741	23291	23476
30°	24504	22958	20553
35°	24235	22601	18730
40°	23918	19394	19531
45°	23281	17878	20845
50°	22436	17424	19832
55°	21377	18314	18207
60°	19787	17494	14334
65°	17808	14739	15375
70°	15364	11247	10900
75°	11843	9870	9602
80°	7944	6981	7389
85°	5508	6151	7284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	965.4	3.3
10°-20°	2778.1	9.5
20°-30°	4267.5	14.5
30°-40°	4956.4	16.9
40°-50°	5236.0	17.8
50°-60°	4787.8	16.3
60°-70°	3361.2	11.5
70°-80°	1797.9	6.1
80°-90°	737.2	2.5
90°-100°	187.7	0.6
100°-110°	93.8	0.3
110°-120°	66.3	0.2
120°-130°	65.6	0.2
130°-140°	33.7	0.1
140°-150°	9.4	0.0
150°-160°	3.1	0.0
160°-170°	2.1	0.0
170°-180°	0.8	0.0
0°-30°	8011.1	27.3
0°-40°	12967.4	44.2
0°-60°	22991.3	78.3
0°-90°	28887.5	98.4
90°-120°	347.8	1.2
90°-150°	456.4	1.6
90°-180°	462.0	1.6
0°-180°	29350.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10218	10218	10218	10218	10218	
5°	10194	10177	10124	10144	10155	969
15°	9868	9830	9799	9845	9858	2786
25°	9204	9191	9262	9385	9444	4247
35°	8261	8270	8491	7122	7154	5171
45°	6970	7064	6119	6959	7296	5379
55°	5318	5262	5466	5695	5598	4739
65°	3395	3036	3620	3385	3929	3377
75°	1500	1525	1829	1748	1881	1620
85°	324	454	734	920	949	350
90°	141	294	443	421	390	84
95°	132	153	139	116	107	118
105°	148	109	76	64	60	154
115°	77	78	68	42	41	80
125°	39	33	102	92	120	36
135°	19	15	26	78	46	15
145°	10	8	8	28	22	6
155°	8	8	8	5	3	3
165°	9	9	9	7	4	2
175°	9	9	10	8	6	1
180°	9	9	9	9	9	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10218.3	10218.3	10218.3	10218.3	10218.3
2.5°	10223.2	10212.4	10168.3	10191.9	10212.4
5°	10193.8	10177.2	10124.2	10143.8	10154.6
7.5°	10135.0	10125.2	10066.4	10089.9	10104.6
10°	10070.3	10043.9	9988.0	10026.2	10034.1
12.5°	9990.0	9942.9	9903.7	9941.0	9952.7
15°	9867.5	9830.2	9798.9	9844.9	9857.7
17.5°	9731.3	9688.1	9681.3	9719.5	9759.7
20°	9580.3	9539.2	9545.1	9640.1	9712.6
22.5°	9407.9	9372.6	9390.2	9550.9	9599.9
25°	9204.0	9191.3	9261.9	9385.3	9444.1
27.5°	9010.0	8983.5	9119.8	9257.9	9027.6
30°	8767.9	8763.0	8911.0	8620.9	8089.8
32.5°	8528.8	8541.6	8684.6	7804.6	7385.2
35°	8261.3	8270.1	8490.6	7121.6	7153.9
37.5°	7990.8	8041.8	7760.5	6908.9	7036.3
40°	7686.0	7805.6	6988.3	6798.2	7175.5
42.5°	7352.8	7442.0	6358.2	6809.9	7342.1
45°	6969.7	7063.7	6119.0	6958.9	7296.0
47.5°	6612.0	6681.5	5856.4	6944.2	6920.7
50°	6172.9	6318.0	5603.6	6513.0	6544.3
52.5°	5751.5	5897.6	5504.6	6125.9	6085.7
55°	5318.4	5261.5	5466.4	5694.7	5597.7
57.5°	4860.7	4507.0	5228.2	5112.6	4502.1
60°	4363.9	3829.8	4777.4	4052.2	4050.3
62.5°	3914.1	3416.2	4297.2	3692.6	3768.0
65°	3394.7	3036.0	3620.1	3384.9	3928.8
67.5°	2941.9	2625.4	2839.0	3460.3	3320.2
70°	2447.0	2224.6	2432.3	2709.7	2469.6
72.5°	1970.8	1848.3	2110.9	2126.6	2154.0
75°	1500.4	1524.9	1828.7	1748.3	1880.6
77.5°	1085.8	1164.2	1460.2	1500.4	1443.5
80°	739.9	908.4	1067.2	1115.2	1209.3
82.5°	483.1	614.5	857.5	971.2	1027.0
85°	324.4	453.7	734.0	920.2	948.6
87.5°	217.6	390.0	614.5	696.8	648.8
90°	141.1	294.0	443.0	421.4	390.0
92.5°	114.7	222.5	256.8	230.3	203.8
95°	132.3	152.9	139.2	115.6	106.8
97.5°	160.7	105.8	99.0	102.9	104.9
100°	168.6	104.9	84.3	83.3	84.3
102.5°	162.7	110.7	77.4	74.5	71.5
105°	148.0	108.8	75.5	63.7	59.8
107.5°	129.4	101.9	73.5	62.7	56.8
110°	110.7	94.1	67.6	61.7	60.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	93.1	88.2	61.7	51.0	51.9
115°	77.4	78.4	67.6	42.1	41.2
117.5°	65.7	68.6	97.0	40.2	34.3
120°	55.9	55.9	94.1	73.5	44.1
122.5°	46.1	44.1	91.1	120.5	98.0
125°	39.2	33.3	101.9	92.1	120.5
127.5°	32.3	26.5	56.8	108.8	85.3
130°	27.4	21.6	65.7	123.5	133.3
132.5°	22.5	17.6	54.9	52.9	94.1
135°	18.6	14.7	26.5	78.4	46.1
137.5°	14.7	12.7	18.6	78.4	89.2
140°	12.7	10.8	19.6	25.5	56.8
142.5°	10.8	8.8	12.7	20.6	19.6
145°	9.8	7.8	7.8	28.4	22.5
147.5°	7.8	7.8	6.9	22.5	30.4
150°	7.8	6.9	6.9	8.8	17.6
152.5°	6.9	6.9	6.9	4.9	4.9
155°	7.8	7.8	7.8	4.9	2.9
157.5°	7.8	7.8	7.8	4.9	2.9
160°	7.8	7.8	7.8	5.9	3.9
162.5°	7.8	7.8	8.8	5.9	3.9
165°	8.8	8.8	8.8	6.9	3.9
167.5°	8.8	8.8	8.8	6.9	4.9
170°	8.8	8.8	8.8	6.9	4.9
172.5°	8.8	8.8	9.8	6.9	5.9
175°	8.8	8.8	9.8	7.8	5.9
177.5°	8.8	8.8	9.8	7.8	6.9
180°	8.8	8.8	8.8	8.8	8.8

(END OF REPORT)