

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: P236629

Luminaire Tested: **VRVT4LED-LD5-30-DR-UNV-L840-CD3-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-14)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4LED-LD5-30-DR-UNV-L840-CD3-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
12 BOARDS WITH CLEAR ACRYLIC LENS
Light Source: (672) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30547.9 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.19 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

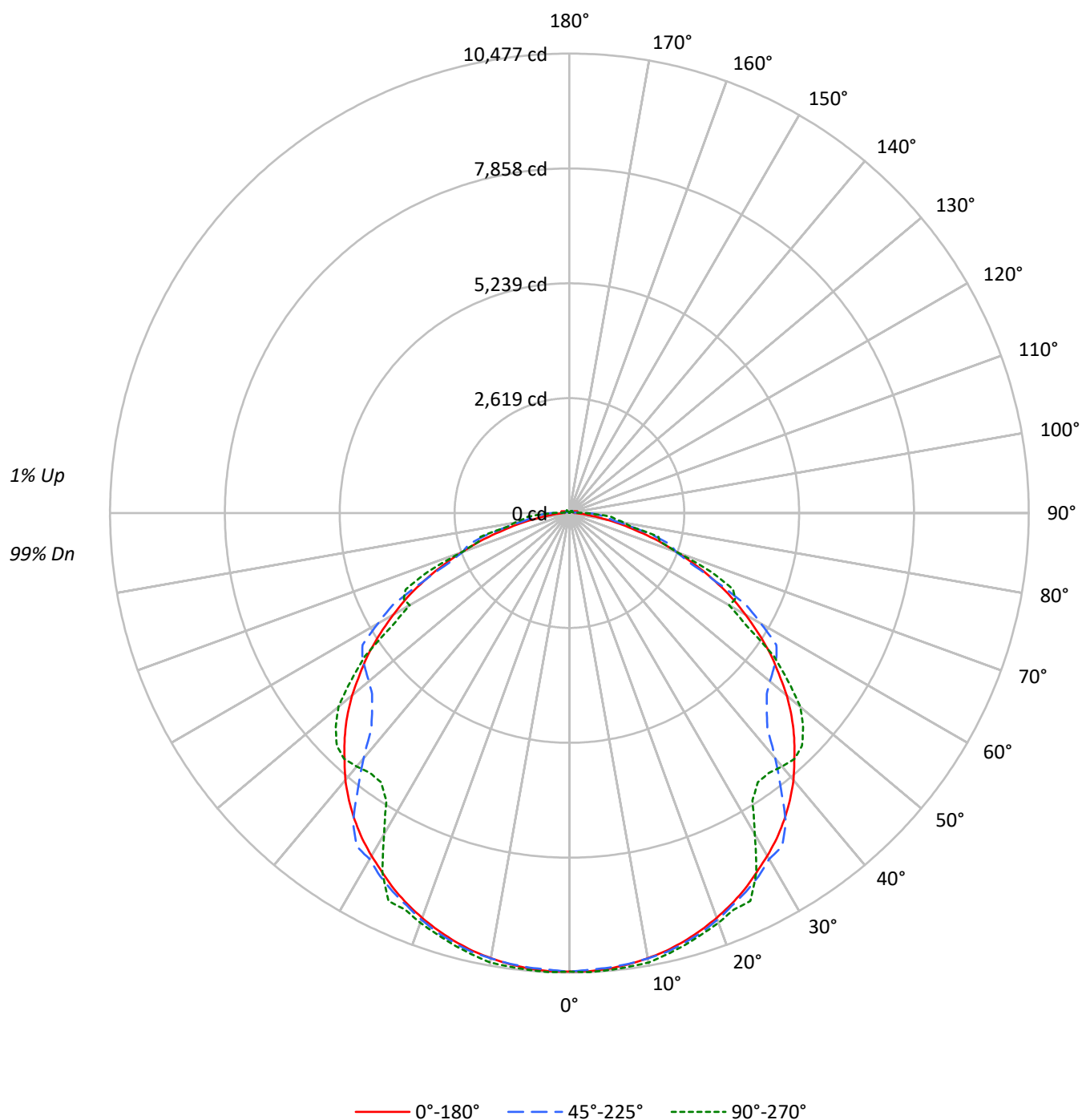
Input Watts (W): 232.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			99
1	108	103	99	95	105	101	97	94	97	93	90	92	90	87	89	86	84			82
2	98	90	83	78	96	88	82	76	84	79	74	81	76	73	78	74	71			68
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	69	64	60			58
4	82	70	61	55	80	69	60	54	66	59	53	63	57	52	61	56	51			49
5	75	63	54	47	73	61	53	47	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	47	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	29	40	33	28	38	32	28			26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26			24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26188	26188	26188
5°	26084	25682	25760
10°	25938	25278	25393
15°	25796	24898	24840
20°	25616	24418	24370
25°	25443	23958	24262
30°	25221	23474	21471
35°	25053	22909	19621
40°	24740	20267	20537
45°	24214	18588	21434
50°	23513	18561	20828
55°	22490	19309	18514
60°	21021	18475	14882
65°	19179	14914	16123
70°	16444	11967	11489
75°	12945	10746	10753
80°	9254	6992	7674
85°	5892	6311	7302



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	992.8	3.2
10°-20°	2867.1	9.4
20°-30°	4385.8	14.4
30°-40°	5130.4	16.8
40°-50°	5450.6	17.8
50°-60°	5021.6	16.4
60°-70°	3590.3	11.8
70°-80°	1945.7	6.4
80°-90°	731.8	2.4
90°-100°	169.7	0.6
100°-110°	101.3	0.3
110°-120°	66.6	0.2
120°-130°	50.3	0.2
130°-140°	29.2	0.1
140°-150°	8.8	0.0
150°-160°	3.1	0.0
160°-170°	2.1	0.0
170°-180°	0.8	0.0
0°-30°	8245.6	27.0
0°-40°	13376.1	43.8
0°-60°	23848.3	78.1
0°-90°	30116.0	98.6
90°-120°	337.7	1.1
90°-150°	425.9	1.4
90°-180°	432.0	1.4
0°-180°	30547.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10454	10454	10454	10454	10454	
5°	10428	10430	10403	10439	10459	991
15°	10108	10131	10147	10189	10194	2854
25°	9465	9492	9527	9630	9760	4360
35°	8540	8551	8606	7473	7494	5340
45°	7249	7283	6362	7189	7502	5585
55°	5595	5407	5763	5911	5692	4982
65°	3656	3311	3663	3860	4120	3604
75°	1640	1710	1991	1905	2106	1775
85°	347	473	753	838	951	389
90°	112	278	399	352	365	73
95°	138	131	105	113	113	126
105°	154	117	82	77	75	161
115°	74	74	64	58	58	76
125°	35	31	66	70	57	32
135°	17	14	39	41	89	13
145°	9	8	8	16	17	6
155°	7	7	7	5	3	3
165°	8	8	9	7	4	2
175°	9	9	9	8	6	1
180°	8	8	8	8	8	



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CATALOG NUMBER: VRVT4LED-LD5-30-DR-UNV-L840-CD3-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10454.1	10454.1	10454.1	10454.1	10454.1
2.5°	10456.1	10457.1	10423.1	10456.1	10477.2
5°	10428.1	10430.1	10403.1	10439.1	10459.1
7.5°	10376.1	10390.1	10365.1	10414.1	10433.1
10°	10306.1	10317.1	10310.1	10384.1	10405.1
12.5°	10221.1	10229.1	10254.1	10289.1	10304.1
15°	10108.1	10131.1	10147.1	10189.1	10194.1
17.5°	9974.1	10010.1	10023.1	10050.1	10065.1
20°	9821.1	9863.1	9868.1	9917.1	9940.1
22.5°	9652.1	9688.1	9690.1	9759.1	9786.1
25°	9465.1	9492.1	9527.1	9630.1	9760.1
27.5°	9237.1	9276.1	9341.1	9435.1	9235.1
30°	9024.1	9061.1	9111.1	8791.1	8451.1
32.5°	8798.1	8812.1	9020.1	8132.1	7766.1
35°	8540.1	8551.1	8606.1	7473.1	7494.1
37.5°	8260.1	8246.1	7919.1	7248.1	7467.1
40°	7950.1	7958.1	7303.1	7176.1	7545.1
42.5°	7593.1	7629.1	6679.1	7242.1	7602.1
45°	7249.1	7283.1	6362.1	7189.1	7502.1
47.5°	6876.1	6950.1	6102.1	7210.1	7228.1
50°	6469.1	6640.1	5969.1	6836.1	6873.1
52.5°	6017.1	6113.1	5864.1	6416.1	6281.1
55°	5595.1	5407.1	5763.1	5911.1	5692.1
57.5°	5118.1	4744.1	5596.1	5232.1	4793.1
60°	4636.1	4178.1	5045.1	4375.1	4205.1
62.5°	4168.1	3718.1	4540.1	3785.1	4259.1
65°	3656.1	3311.0	3663.1	3860.1	4120.1
67.5°	3124.0	2898.0	2973.0	3649.1	3485.0
70°	2619.0	2465.0	2588.0	2821.0	2603.0
72.5°	2129.0	2098.0	2416.0	2294.0	2165.0
75°	1640.0	1710.0	1991.0	1905.0	2106.0
77.5°	1228.0	1325.0	1459.0	1633.0	1444.0
80°	862.0	998.0	1069.0	1054.0	1256.0
82.5°	547.0	659.0	878.0	967.0	1064.0
85°	347.0	473.0	753.0	838.0	951.0
87.5°	214.0	386.0	598.0	627.0	562.0
90°	112.0	278.0	399.0	352.0	365.0
92.5°	95.0	208.0	208.0	177.0	163.0
95°	138.0	131.0	105.0	113.0	113.0
97.5°	183.0	102.0	93.0	106.0	111.0
100°	186.0	102.0	87.0	88.0	89.0
102.5°	175.0	117.0	82.0	79.0	76.0
105°	154.0	117.0	82.0	77.0	75.0
107.5°	130.0	107.0	77.0	78.0	78.0
110°	108.0	94.0	75.0	70.0	71.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	89.0	83.0	71.0	64.0	65.0
115°	74.0	74.0	64.0	58.0	58.0
117.5°	61.0	65.0	66.0	52.0	52.0
120°	50.0	53.0	70.0	48.0	49.0
122.5°	42.0	41.0	85.0	64.0	47.0
125°	35.0	31.0	66.0	70.0	57.0
127.5°	29.0	24.0	82.0	87.0	80.0
130°	24.0	20.0	44.0	66.0	78.0
132.5°	20.0	16.0	43.0	101.0	67.0
135°	17.0	14.0	39.0	41.0	89.0
137.5°	14.0	11.0	19.0	44.0	35.0
140°	12.0	10.0	14.0	55.0	55.0
142.5°	10.0	9.0	10.0	20.0	34.0
145°	9.0	8.0	8.0	16.0	17.0
147.5°	8.0	7.0	7.0	15.0	15.0
150°	7.0	7.0	7.0	10.0	13.0
152.5°	7.0	7.0	7.0	6.0	6.0
155°	7.0	7.0	7.0	5.0	3.0
157.5°	7.0	7.0	8.0	6.0	3.0
160°	8.0	8.0	8.0	6.0	4.0
162.5°	8.0	8.0	8.0	6.0	4.0
165°	8.0	8.0	9.0	7.0	4.0
167.5°	8.0	9.0	9.0	7.0	5.0
170°	8.0	9.0	9.0	7.0	5.0
172.5°	8.0	9.0	9.0	7.0	5.0
175°	9.0	9.0	9.0	8.0	6.0
177.5°	9.0	9.0	9.0	8.0	6.0
180°	8.0	8.0	8.0	8.0	8.0

(END OF REPORT)