

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: P236632

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-367-15)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VRVT4LED-LD5-30-DRF-UNV-L840-CD3-WL-U
Description: METALUX VRVT4 LED LUMINAIRE
12 BOARDS WITH FROSTED ACYLIC LENS
Light Source: (672) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29734.1 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.21 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 1.04' x L: 4.12' x H: 0.25')
CIE Type: Direct

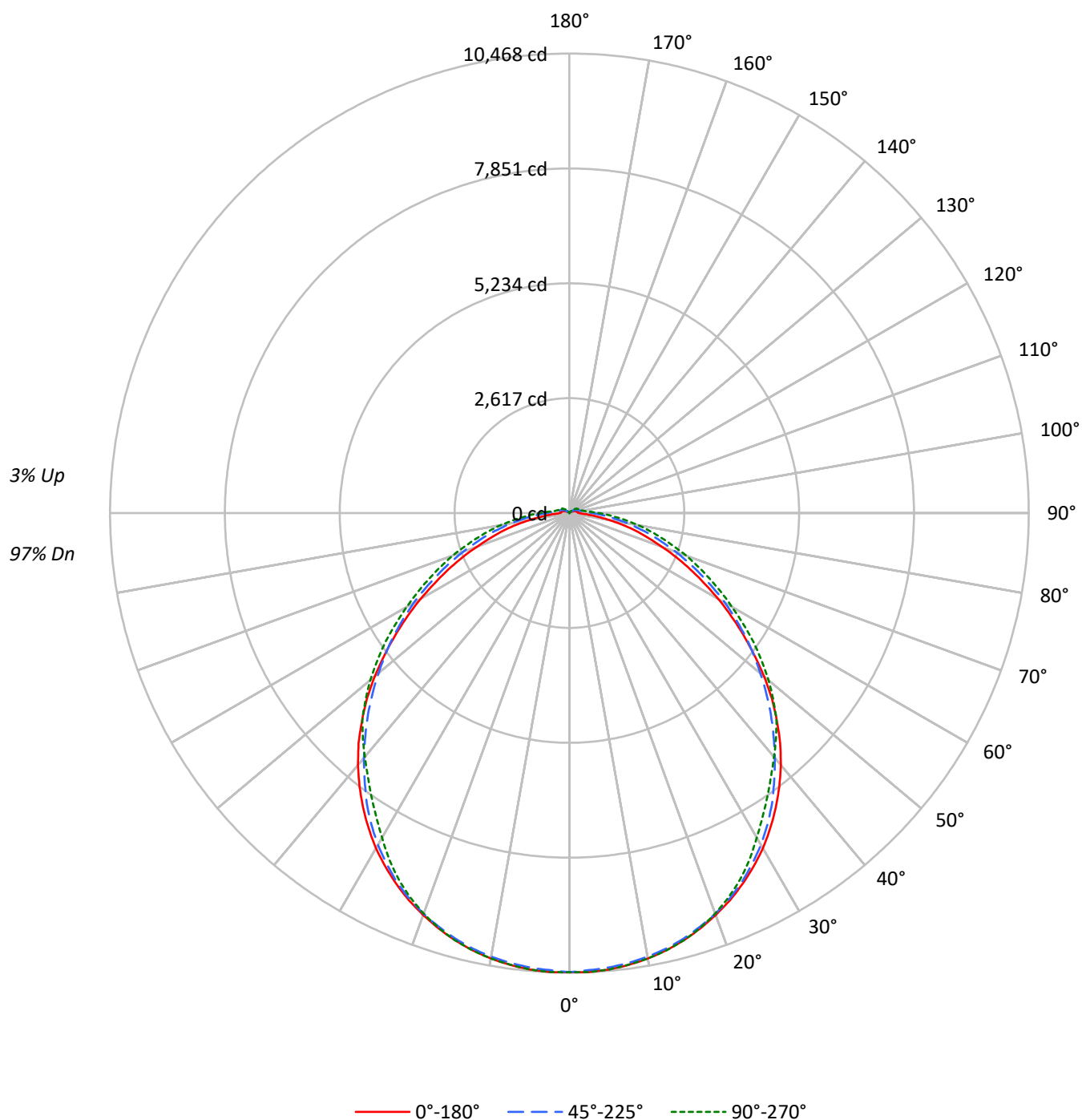
Input Watts (W): 232.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	118	118	118	118	115	115	115	115		109	109	109			104	104	104			99
1	108	103	98	94	105	100	96	93		95	92	89			91	88	86			87
2	98	90	83	77	95	87	81	76		83	78	74			80	75	71			76
3	89	79	71	64	87	77	69	63		74	67	62			70	65	60			67
4	82	70	61	54	79	68	60	54		65	58	53			63	57	52			60
5	75	63	54	47	73	61	53	47		59	51	46			56	50	45			54
6	70	56	47	41	68	55	47	41		53	46	40			51	45	40			49
7	65	51	42	36	63	50	42	36		48	41	36			47	40	35			45
8	60	47	38	32	58	46	38	32		44	37	32			43	36	31			41
9	56	43	35	29	55	42	34	29		41	34	29			39	33	28			38
10	53	40	32	26	51	39	31	26		38	31	26			37	30	26			36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26203	26203	26203
5°	26102	25652	25703
10°	25933	25156	25146
15°	25716	24630	24552
20°	25415	24044	23806
25°	25071	23352	22889
30°	24639	22489	21689
35°	24038	21439	20602
40°	23317	20214	19740
45°	22326	18959	19062
50°	21030	17665	17955
55°	19446	16393	16647
60°	17774	15010	15143
65°	15968	13436	13771
70°	14046	11916	12469
75°	12337	10336	11054
80°	10049	8785	9696
85°	7471	7199	8162



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	990.2	3.3
10°-20°	2837.8	9.5
20°-30°	4269.1	14.4
30°-40°	5030.6	16.9
40°-50°	5084.5	17.1
50°-60°	4419.5	14.9
60°-70°	3265.1	11.0
70°-80°	2007.1	6.8
80°-90°	915.7	3.1
90°-100°	377.5	1.3
100°-110°	233.3	0.8
110°-120°	157.2	0.5
120°-130°	90.2	0.3
130°-140°	40.8	0.1
140°-150°	11.3	0.0
150°-160°	2.2	0.0
160°-170°	1.5	0.0
170°-180°	0.6	0.0
0°-30°	8097.1	27.2
0°-40°	13127.6	44.2
0°-60°	22631.6	76.1
0°-90°	28819.6	96.9
90°-120°	768.0	2.6
90°-150°	910.3	3.1
90°-180°	915.0	3.1
0°-180°	29734.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10460	10460	10460	10460	10460	
5°	10435	10426	10391	10419	10436	992
15°	10077	10059	10038	10064	10076	2843
25°	9327	9316	9286	9241	9208	4297
35°	8194	8186	8054	7903	7869	5122
45°	6684	6663	6489	6570	6672	5150
55°	4838	4833	4893	5080	5118	4329
65°	3044	3074	3300	3496	3519	3022
75°	1563	1653	1915	2120	2165	1655
85°	440	580	859	1033	1063	466
90°	215	327	530	647	668	125
95°	191	251	354	408	418	154
105°	155	173	231	260	265	162
115°	93	101	168	207	220	94
125°	48	40	103	147	165	44
135°	23	19	43	84	99	19
145°	11	8	5	28	38	7
155°	7	7	5	2	0	3
165°	8	8	6	3	1	2
175°	9	8	7	4	3	1
180°	6	6	6	6	6	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10460	10460	10460	10460	10460
2.5°	10468	10458	10422	10449	10464
5°	10435	10426	10391	10419	10436
7.5°	10383	10369	10337	10367	10375
10°	10304	10289	10260	10289	10304
12.5°	10203	10188	10165	10190	10205
15°	10077	10059	10038	10064	10076
17.5°	9921	9909	9885	9913	9912
20°	9744	9734	9717	9727	9710
22.5°	9553	9534	9517	9498	9477
25°	9327	9316	9286	9241	9208
27.5°	9083	9075	9014	8937	8895
30°	8816	8800	8729	8610	8537
32.5°	8516	8507	8405	8271	8194
35°	8194	8186	8054	7903	7869
37.5°	7855	7842	7663	7557	7548
40°	7493	7468	7284	7219	7252
42.5°	7111	7084	6886	6900	6965
45°	6684	6663	6489	6570	6672
47.5°	6259	6228	6086	6226	6303
50°	5786	5751	5681	5876	5925
52.5°	5306	5291	5286	5482	5511
55°	4838	4833	4893	5080	5118
57.5°	4373	4372	4486	4662	4691
60°	3920	3927	4099	4258	4279
62.5°	3457	3495	3687	3857	3891
65°	3044	3074	3300	3496	3519
67.5°	2640	2689	2923	3118	3162
70°	2237	2324	2577	2769	2825
72.5°	1883	1962	2235	2452	2472
75°	1563	1653	1915	2120	2165
77.5°	1244	1338	1619	1835	1864
80°	936	1054	1343	1549	1587
82.5°	665	800	1084	1281	1314
85°	440	580	859	1033	1063
87.5°	278	427	672	825	854
90°	215	327	530	647	668
92.5°	201	278	426	509	524
95°	191	251	354	408	418
97.5°	185	229	308	344	349
100°	178	210	277	305	309
102.5°	168	191	251	280	282
105°	155	173	231	260	265
107.5°	139	155	215	245	253
110°	124	137	199	232	241



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	108	119	184	220	230
115°	93	101	168	207	220
117.5°	81	83	152	193	207
120°	68	67	136	178	193
122.5°	57	53	119	164	180
125°	48	40	103	147	165
127.5°	40	32	87	132	149
130°	34	27	71	116	132
132.5°	28	22	57	100	115
135°	23	19	43	84	99
137.5°	19	15	30	68	82
140°	16	13	19	54	67
142.5°	13	10	10	40	52
145°	11	8	5	28	38
147.5°	9	7	4	16	25
150°	7	6	4	7	13
152.5°	7	6	5	2	3
155°	7	7	5	2	0
157.5°	7	7	5	2	0
160°	8	7	5	2	1
162.5°	8	7	6	3	1
165°	8	8	6	3	1
167.5°	8	8	6	3	2
170°	8	8	6	3	2
172.5°	8	8	6	4	2
175°	9	8	7	4	3
177.5°	9	8	6	4	3
180°	6	6	6	6	6

(END OF REPORT)