

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: P237762

Luminaire Tested: **2VRVT2-LD5-3-DR-W-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2VRVT2-LD5-3-DR-W-UNV-L840-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE WIDE DISTRIBUTION
2FT FIXTURE
Light Source: (112) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2733.1 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.59 / 1.58
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')
CIE Type: Direct

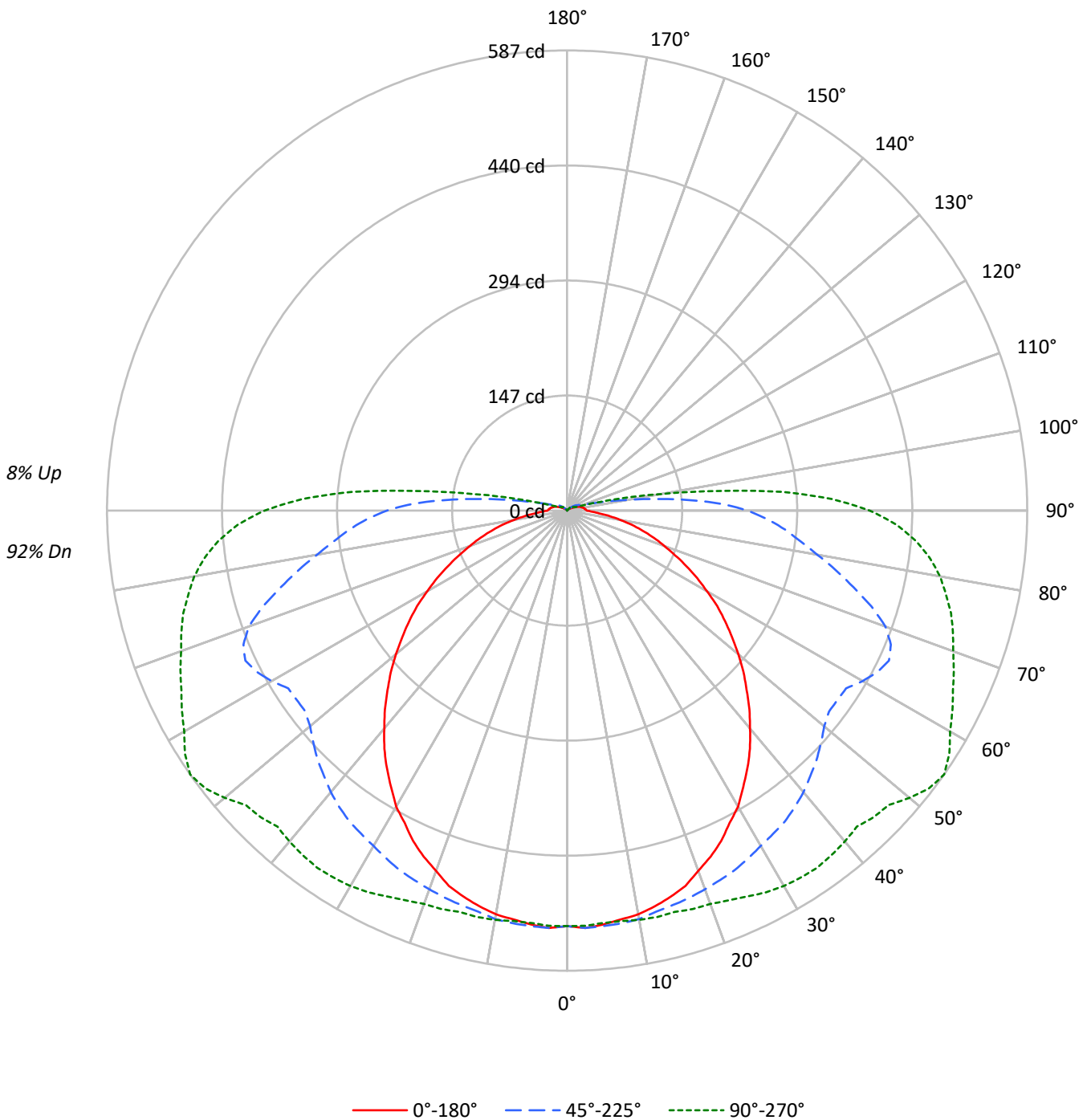
Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	92
1	102	95	89	83	98	92	86	81	86	81	77	80	76	73	75	72	69	66
2	90	80	71	64	87	77	69	62	72	65	59	67	62	57	63	58	54	51
3	81	68	59	51	78	66	57	50	62	54	48	58	51	46	54	48	44	41
4	74	60	49	42	71	58	48	41	54	46	39	50	43	38	47	41	36	33
5	67	53	42	35	64	51	41	34	48	39	33	45	38	32	42	36	31	28
6	62	47	37	30	59	46	36	29	43	35	28	40	33	27	38	31	27	24
7	57	42	33	26	55	41	32	26	39	31	25	36	29	24	34	28	23	21
8	53	38	29	23	51	37	29	23	35	27	22	33	26	21	31	25	21	18
9	50	35	26	20	48	34	26	20	32	25	19	31	24	19	29	23	18	16
10	46	32	24	18	45	31	23	18	30	23	18	28	22	17	27	21	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5477	5477	5477
5°	5459	5381	5322
10°	5411	5279	5252
15°	5341	5169	5205
20°	5225	5109	5237
25°	5111	5077	5358
30°	4973	5043	5533
35°	4790	5068	5687
40°	4589	5080	5808
45°	4384	5089	6061
50°	4183	5103	6558
55°	3977	5351	7165
60°	3739	5969	7390
65°	3506	6809	7742
70°	3269	7239	8264
75°	3075	7218	9020
80°	2825	7255	9944
85°	2539	7621	11018



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.5	1.8
10°-20°	147.4	5.4
20°-30°	233.1	8.5
30°-40°	301.2	11.0
40°-50°	343.7	12.6
50°-60°	377.0	13.8
60°-70°	388.4	14.2
70°-80°	364.9	13.3
80°-90°	295.9	10.8
90°-100°	166.9	6.1
100°-110°	41.2	1.5
110°-120°	13.5	0.5
120°-130°	7.0	0.3
130°-140°	2.6	0.1
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	431.0	15.8
0°-40°	732.2	26.8
0°-60°	1452.9	53.2
0°-90°	2501.9	91.5
90°-120°	221.5	8.1
90°-150°	231.2	8.5
90°-180°	231.0	8.5
0°-180°	2733.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	530	530	530	530	530	
5°	530	532	532	530	528	50
15°	510	512	521	529	530	144
25°	465	475	506	532	543	214
35°	401	424	484	538	556	251
45°	324	363	450	521	553	250
55°	246	297	421	554	587	220
65°	168	239	453	523	543	167
75°	100	236	378	469	507	106
85°	41	163	279	400	447	40
90°	25	119	230	341	386	14
95°	23	79	155	240	275	18
105°	18	26	38	42	41	19
115°	10	13	17	13	10	10
125°	5	5	10	9	8	5
135°	2	1	4	5	5	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P237762

CATALOG NUMBER: 2VRVT2-LD5-3-DR-W-UNV-L840-CD1-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	530	530	530	530	530	530	530	530	530	530	530
2.5°	533	533	532	533	533	532	533	533	533	533	533
5°	530	531	531	531	531	532	532	532	532	532	532
7.5°	526	527	528	528	529	529	529	529	530	531	531
10°	523	523	524	525	524	525	526	526	527	528	529
12.5°	517	517	518	519	519	519	520	521	522	523	524
15°	510	510	511	511	512	512	512	514	516	519	521
17.5°	502	501	502	503	504	505	505	508	513	516	518
20°	489	491	492	494	495	495	497	502	506	509	514
22.5°	478	479	479	482	485	485	487	492	498	503	510
25°	465	465	467	469	473	475	477	484	490	498	506
27.5°	449	451	453	455	461	464	468	475	483	492	500
30°	436	436	438	441	448	452	456	465	474	484	494
32.5°	418	419	422	426	434	439	443	454	464	475	489
35°	401	402	406	411	420	424	430	442	454	468	484
37.5°	383	384	387	395	405	410	416	428	443	460	477
40°	363	366	369	379	388	395	401	416	433	452	469
42.5°	344	346	351	361	371	380	386	402	422	441	459
45°	324	326	333	343	356	363	371	389	411	430	450
47.5°	305	308	314	325	338	347	356	376	397	418	439
50°	285	288	295	307	320	330	340	362	384	406	428
52.5°	265	268	276	288	303	314	324	347	371	394	421
55°	246	248	257	270	287	297	307	332	357	385	421
57.5°	227	227	238	252	270	280	292	317	347	384	422
60°	206	209	219	233	254	265	277	305	343	386	435
62.5°	187	190	200	215	238	251	265	300	345	397	446
65°	168	171	181	200	225	239	257	301	355	410	453
67.5°	149	153	166	185	215	233	254	308	367	415	447
70°	132	136	151	174	208	231	257	317	370	407	432
72.5°	116	121	138	165	206	233	262	319	362	389	407
75°	100	106	127	160	207	236	263	310	343	362	378
77.5°	85	92	118	155	206	231	253	289	312	331	351
80°	69	80	109	150	195	214	230	257	281	300	324
82.5°	55	68	99	138	174	190	203	228	250	274	300
85°	41	56	87	120	150	163	176	199	222	249	279
87.5°	31	45	73	101	128	139	151	175	198	225	256
90°	25	37	60	85	108	119	130	151	176	200	230
92.5°	24	31	50	70	90	100	109	128	150	172	197
95°	23	26	39	55	71	79	86	101	118	135	155
97.5°	22	23	31	42	54	60	66	77	88	100	112
100°	21	21	25	33	41	45	48	57	64	71	79
102.5°	19	19	21	25	31	34	36	41	46	51	55
105°	18	17	18	21	24	26	28	31	33	36	38
107.5°	16	16	16	18	20	21	22	24	26	27	28
110°	14	14	13	15	17	18	19	20	21	22	22



TEST NUMBER: P237762

CATALOG NUMBER: 2VRVT2-LD5-3-DR-W-UNV-L840-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	12	12	12	12	14	15	16	17	19	19	19
115°	10	10	10	10	12	13	14	15	16	17	17
117.5°	8	8	8	8	10	10	11	13	14	15	15
120°	7	7	7	6	8	9	9	11	12	13	14
122.5°	6	5	5	5	6	6	7	9	10	11	12
125°	5	4	4	4	4	5	6	7	9	10	10
127.5°	4	3	3	3	3	3	4	5	7	8	8
130°	3	3	3	2	2	2	2	4	5	6	7
132.5°	2	2	2	2	1	1	1	2	3	4	5
135°	2	2	2	1	1	1	1	1	2	3	4
137.5°	1	1	1	1	1	1	0	0	1	2	2
140°	1	1	1	1	0	0	0	0	0	0	1
142.5°	1	1	1	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	530	530	530	530	530	530	530	530	530	530
2.5°	533	533	532	532	532	531	531	530	530	530
5°	532	532	531	531	530	530	529	529	529	528
7.5°	530	530	530	529	529	529	528	528	528	528
10°	528	528	528	529	529	529	529	530	530	530
12.5°	525	526	528	528	529	529	529	530	531	531
15°	522	525	527	529	529	530	530	531	531	530
17.5°	521	524	527	529	530	531	532	533	534	533
20°	518	523	527	530	531	531	534	535	535	534
22.5°	515	521	525	529	531	532	535	536	537	538
25°	512	517	524	530	532	535	538	541	542	543
27.5°	509	516	525	532	535	538	543	547	547	549
30°	504	516	525	534	537	541	548	552	553	553
32.5°	502	515	526	535	539	542	549	553	555	555
35°	498	512	524	533	538	541	548	554	555	556
37.5°	492	507	520	530	534	539	546	550	553	554
40°	486	500	514	525	530	534	542	548	550	551
42.5°	476	493	507	520	525	529	538	543	547	547
45°	468	484	501	514	521	527	539	548	553	553
47.5°	459	477	497	518	526	533	544	550	555	556
50°	451	477	501	520	528	537	552	563	569	570
52.5°	450	479	505	531	541	552	566	575	580	582
55°	452	488	520	543	554	562	574	582	585	587
57.5°	464	501	530	550	558	564	572	575	578	578
60°	476	510	531	545	551	556	561	564	566	564
62.5°	484	508	524	533	537	540	546	551	551	554
65°	480	497	510	519	523	527	535	539	544	543
67.5°	467	483	493	505	510	514	524	529	534	534
70°	447	461	474	487	492	498	509	517	521	524
72.5°	421	436	453	472	481	487	500	509	515	516
75°	396	416	440	461	469	477	491	500	504	507
77.5°	373	397	423	446	455	464	478	488	494	495
80°	351	379	405	430	440	448	463	474	480	483
82.5°	329	360	387	413	423	433	448	459	466	467
85°	309	338	366	391	400	412	428	439	445	447
87.5°	285	313	340	364	374	385	401	413	418	421
90°	256	284	308	331	341	350	364	377	383	386
92.5°	221	246	270	289	298	305	321	331	335	338
95°	176	194	215	232	240	246	257	267	273	275
97.5°	125	139	149	162	165	172	181	187	191	190
100°	86	95	101	106	108	112	117	118	122	121
102.5°	58	61	64	67	68	69	72	71	73	74
105°	39	40	41	42	42	42	42	42	42	41
107.5°	28	27	27	27	26	26	25	25	25	24
110°	22	21	20	19	18	18	17	17	16	16



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	18	17	16	15	15	14	14	13	12	12
115°	16	15	15	14	13	13	12	11	11	10
117.5°	15	14	13	12	12	12	11	10	10	10
120°	13	13	12	12	11	11	10	10	9	9
122.5°	12	12	11	11	10	10	9	9	9	8
125°	10	10	10	10	9	9	9	8	8	8
127.5°	9	9	9	9	8	8	8	8	7	7
130°	7	8	8	8	8	7	7	7	7	7
132.5°	6	6	6	6	6	6	6	6	6	6
135°	4	5	5	5	5	5	5	5	5	5
137.5°	3	3	4	4	4	4	4	4	4	4
140°	1	2	2	2	3	3	3	3	2	2
142.5°	0	0	1	1	1	1	1	1	1	1
145°	0	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)