

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: P237753

Luminaire Tested: **2VT2-LD5-3-FR50-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237753  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-3)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2VT2-LD5-3-FR50-UNV-L840-CD1-WL-U  
Description: METALUX VT2 LED LUMINAIRE  
FROSTED LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION  
2FT FIXTURE  
Light Source: (112) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3043.0 lumens  
Efficiency: N/A  
Efficacy: 139.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')  
CIE Type: Direct

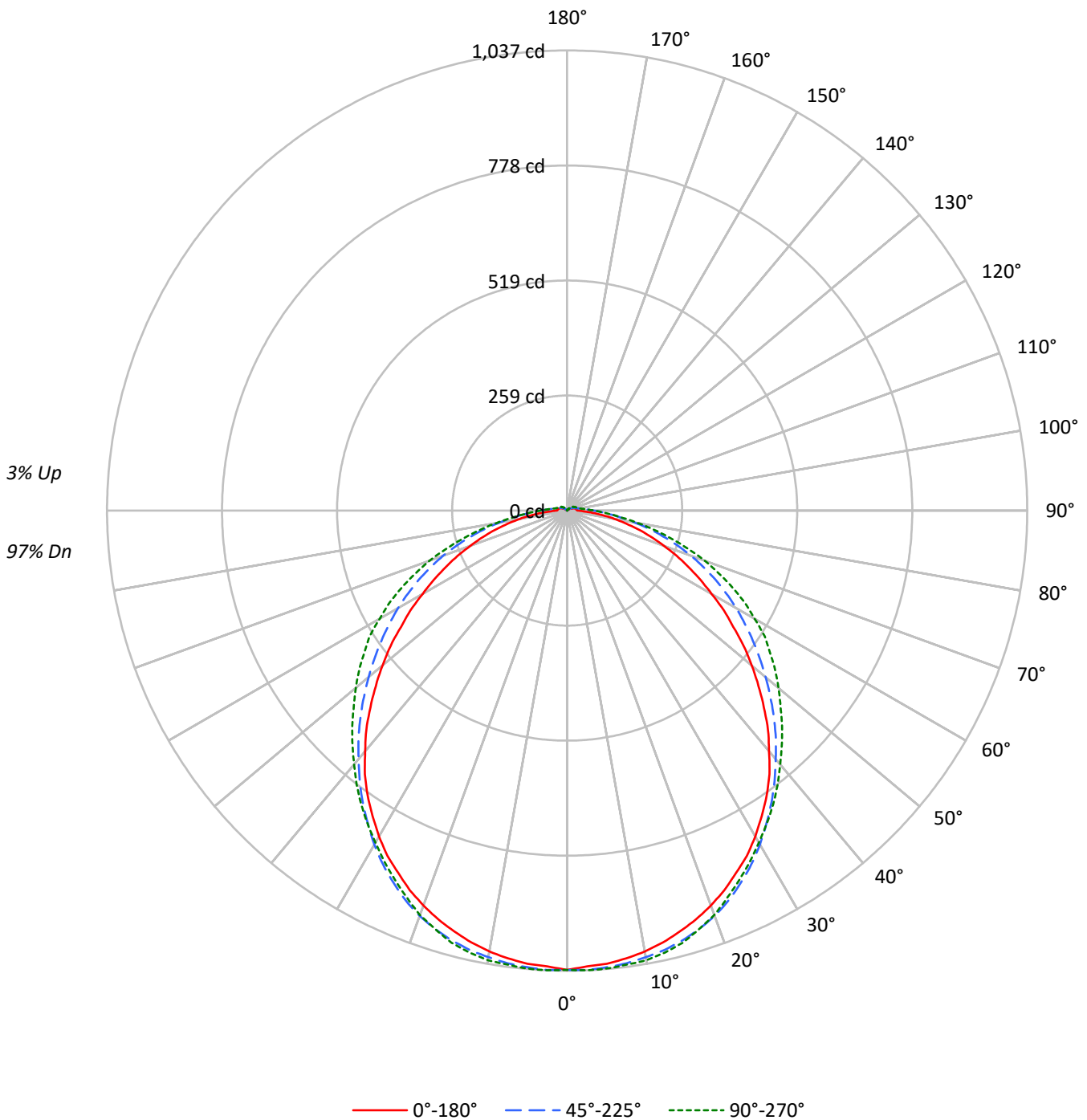
Input Watts (W): 21.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	118	118	118	118	115	115	115	115	110	110	110	104	104	104	99	99	99	97
1	107	102	98	94	104	100	96	92	95	92	89	91	88	85	87	84	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	60	54	50	47
5	75	62	53	46	72	60	52	46	58	51	45	56	49	44	54	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	42	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10695	10695	10695
5°	10558	10448	10442
10°	10440	10198	10198
15°	10285	9951	9899
20°	10119	9661	9513
25°	9903	9292	9059
30°	9672	8872	8645
35°	9365	8409	8274
40°	8950	7919	7874
45°	8484	7452	7508
50°	7969	6963	7156
55°	7389	6495	6811
60°	6825	6037	6394
65°	6303	5546	5874
70°	5746	4977	5204
75°	5165	4258	4306
80°	4462	3448	3335
85°	3530	2677	2440



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.1	3.2
10°-20°	281.8	9.3
20°-30°	423.1	13.9
30°-40°	501.2	16.5
40°-50°	508.9	16.7
50°-60°	456.9	15.0
60°-70°	358.8	11.8
70°-80°	227.3	7.5
80°-90°	100.5	3.3
90°-100°	38.6	1.3
100°-110°	21.6	0.7
110°-120°	13.9	0.5
120°-130°	7.9	0.3
130°-140°	3.4	0.1
140°-150°	0.8	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	803.0	26.4
0°-40°	1304.2	42.9
0°-60°	2270.0	74.6
0°-90°	2956.7	97.2
90°-120°	74.2	2.4
90°-150°	86.3	2.8
90°-180°	86.0	2.8
0°-180°	3043.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1035	1035	1035	1035	1035	
5°	1025	1029	1033	1036	1036	97
15°	982	990	1003	1009	1008	277
25°	901	917	926	921	918	415
35°	784	801	803	806	809	489
45°	627	646	659	677	685	484
55°	457	477	511	546	558	411
65°	302	319	369	403	412	300
75°	168	187	223	242	242	178
85°	57	77	98	102	99	57
90°	24	43	60	62	61	15
95°	21	26	38	40	39	17
105°	18	15	21	24	23	19
115°	11	9	14	18	19	11
125°	5	3	8	13	14	5
135°	2	2	3	7	8	2
145°	1	1	0	2	3	1
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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1035	1035	1035	1035	1035
2.5°	1028	1031	1036	1037	1037
5°	1025	1029	1033	1036	1036
7.5°	1018	1022	1029	1032	1032
10°	1009	1014	1022	1028	1029
12.5°	997	1003	1014	1020	1020
15°	982	990	1003	1009	1008
17.5°	966	975	989	992	989
20°	947	958	972	974	970
22.5°	926	939	951	948	944
25°	901	917	926	921	918
27.5°	877	892	899	893	892
30°	848	865	869	865	864
32.5°	816	836	836	836	837
35°	784	801	803	806	809
37.5°	749	766	768	776	779
40°	708	727	731	743	747
42.5°	670	687	696	711	716
45°	627	646	659	677	685
47.5°	585	604	621	644	652
50°	543	562	584	611	622
52.5°	502	518	547	579	591
55°	457	477	511	546	558
57.5°	419	435	475	513	528
60°	376	394	440	478	488
62.5°	339	357	404	442	452
65°	302	319	369	403	412
67.5°	267	286	332	366	370
70°	232	252	297	326	330
72.5°	200	219	260	284	285
75°	168	187	223	242	242
77.5°	137	157	188	203	201
80°	109	127	154	162	162
82.5°	81	100	123	131	127
85°	57	77	98	102	99
87.5°	37	58	76	79	77
90°	24	43	60	62	61
92.5°	22	33	47	49	48
95°	21	26	38	40	39
97.5°	21	22	32	34	33
100°	20	19	27	29	28
102.5°	20	17	24	26	25
105°	18	15	21	24	23
107.5°	17	13	19	22	22
110°	15	11	17	21	21



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	13	10	16	20	20
115°	11	9	14	18	19
117.5°	9	7	12	17	18
120°	8	6	11	16	17
122.5°	7	5	10	14	16
125°	5	3	8	13	14
127.5°	5	3	7	11	13
130°	4	3	6	10	11
132.5°	3	2	4	8	10
135°	2	2	3	7	8
137.5°	2	1	2	6	7
140°	1	1	1	4	5
142.5°	1	1	0	3	4
145°	1	1	0	2	3
147.5°	1	1	0	1	2
150°	1	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)