

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: P237735

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-1)
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-UNV-L840-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC 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: 3090.9 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')
CIE Type: Direct

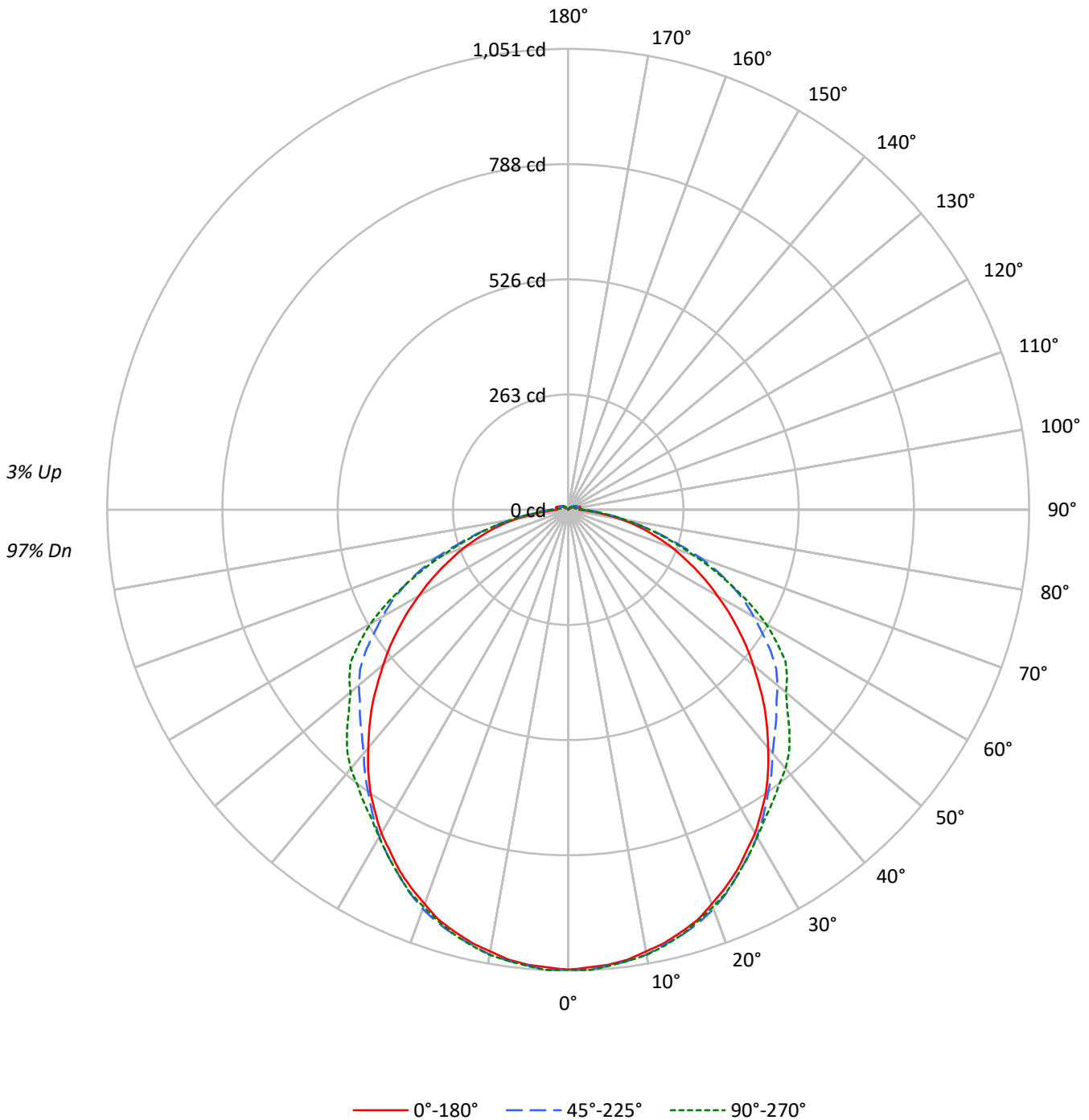
Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	97
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	80
2	98	89	82	76	95	87	80	75	83	78	73	79	75	71	76	72	69	66
3	89	78	70	63	86	76	68	62	73	66	61	70	64	59	67	62	58	56
4	81	69	60	53	79	67	59	53	65	57	52	62	56	51	59	54	50	47
5	75	62	52	46	72	60	52	45	58	50	45	56	49	44	53	48	43	41
6	69	55	46	40	67	54	46	40	52	45	39	50	44	38	48	42	38	36
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	34	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	37	31	27	25
10	52	39	31	25	51	38	31	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10840	10840	10840
5°	10733	10559	10532
10°	10585	10278	10218
15°	10442	9961	9850
20°	10226	9631	9454
25°	9991	9201	9049
30°	9717	8790	8625
35°	9389	8304	8315
40°	8962	7854	8127
45°	8552	7588	7815
50°	8072	7428	7455
55°	7631	7169	7384
60°	7134	6709	6826
65°	6678	6207	5889
70°	6242	5362	4794
75°	5688	4163	3772
80°	4830	2911	2656
85°	3468	1939	1627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	3.2
10°-20°	282.6	9.1
20°-30°	421.7	13.6
30°-40°	499.2	16.1
40°-50°	518.3	16.8
50°-60°	485.3	15.7
60°-70°	388.5	12.6
70°-80°	229.4	7.4
80°-90°	82.6	2.7
90°-100°	29.8	1.0
100°-110°	21.9	0.7
110°-120°	16.6	0.5
120°-130°	10.0	0.3
130°-140°	4.8	0.2
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°	803.5	26.0
0°-40°	1302.7	42.1
0°-60°	2306.3	74.6
0°-90°	3006.8	97.3
90°-120°	68.4	2.2
90°-150°	84.0	2.7
90°-180°	84.0	2.7
0°-180°	3090.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1049	1049	1049	1049	1049	
5°	1042	1043	1044	1047	1045	99
15°	997	997	1004	1008	1003	281
25°	909	915	917	919	917	418
35°	786	790	793	805	813	491
45°	632	636	671	711	713	487
55°	472	486	564	588	605	422
65°	320	378	413	420	413	318
75°	185	236	218	214	212	195
85°	56	77	71	69	66	59
90°	25	41	39	36	35	15
95°	26	29	27	23	22	22
105°	26	23	22	18	15	27
115°	15	16	20	17	15	15
125°	7	7	13	14	14	6
135°	3	2	6	9	10	2
145°	0	0	0	0	0	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°	1049	1049	1049	1049	1049
2.5°	1045	1048	1050	1052	1051
5°	1042	1043	1044	1047	1045
7.5°	1035	1035	1038	1041	1038
10°	1023	1024	1030	1035	1031
12.5°	1012	1013	1016	1025	1018
15°	997	997	1004	1008	1003
17.5°	981	981	988	989	984
20°	957	959	969	966	964
22.5°	934	937	945	946	944
25°	909	915	917	919	917
27.5°	879	887	890	889	890
30°	852	857	861	862	862
32.5°	819	824	828	832	835
35°	786	790	793	805	813
37.5°	749	755	761	781	790
40°	709	715	725	757	771
42.5°	671	676	696	738	746
45°	632	636	671	711	713
47.5°	590	596	644	675	678
50°	550	559	623	641	648
52.5°	512	522	598	611	629
55°	472	486	564	588	605
57.5°	433	457	525	558	564
60°	393	429	489	520	521
62.5°	357	403	454	471	469
65°	320	378	413	420	413
67.5°	284	351	368	362	360
70°	252	316	320	307	304
72.5°	216	276	265	260	257
75°	185	236	218	214	212
77.5°	152	193	170	172	172
80°	118	150	130	132	129
82.5°	86	110	99	98	95
85°	56	77	71	69	66
87.5°	34	54	52	50	48
90°	25	41	39	36	35
92.5°	25	34	32	29	27
95°	26	29	27	23	22
97.5°	28	27	24	21	19
100°	28	25	23	19	17
102.5°	27	24	22	18	16
105°	26	23	22	18	15
107.5°	23	22	22	17	15
110°	21	20	21	17	15



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	18	18	21	17	15
115°	15	16	20	17	15
117.5°	13	13	18	16	15
120°	10	11	17	16	14
122.5°	8	9	15	15	14
125°	7	7	13	14	14
127.5°	5	5	11	13	13
130°	4	4	10	12	12
132.5°	4	3	8	11	11
135°	3	2	6	9	10
137.5°	2	2	5	8	9
140°	2	2	3	6	7
142.5°	2	1	2	5	6
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	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)