

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: P237730

Luminaire Tested: **2VT2-LD5-2-DR-W-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237730  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-9)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2VT2-LD5-2-DR-W-UNV-L850-CD1-WL-U  
Description: METALUX VT2 LED LUMINAIRE  
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE WIDE DISTRIBUTION  
2FT FIXTURE  
Light Source: (56) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

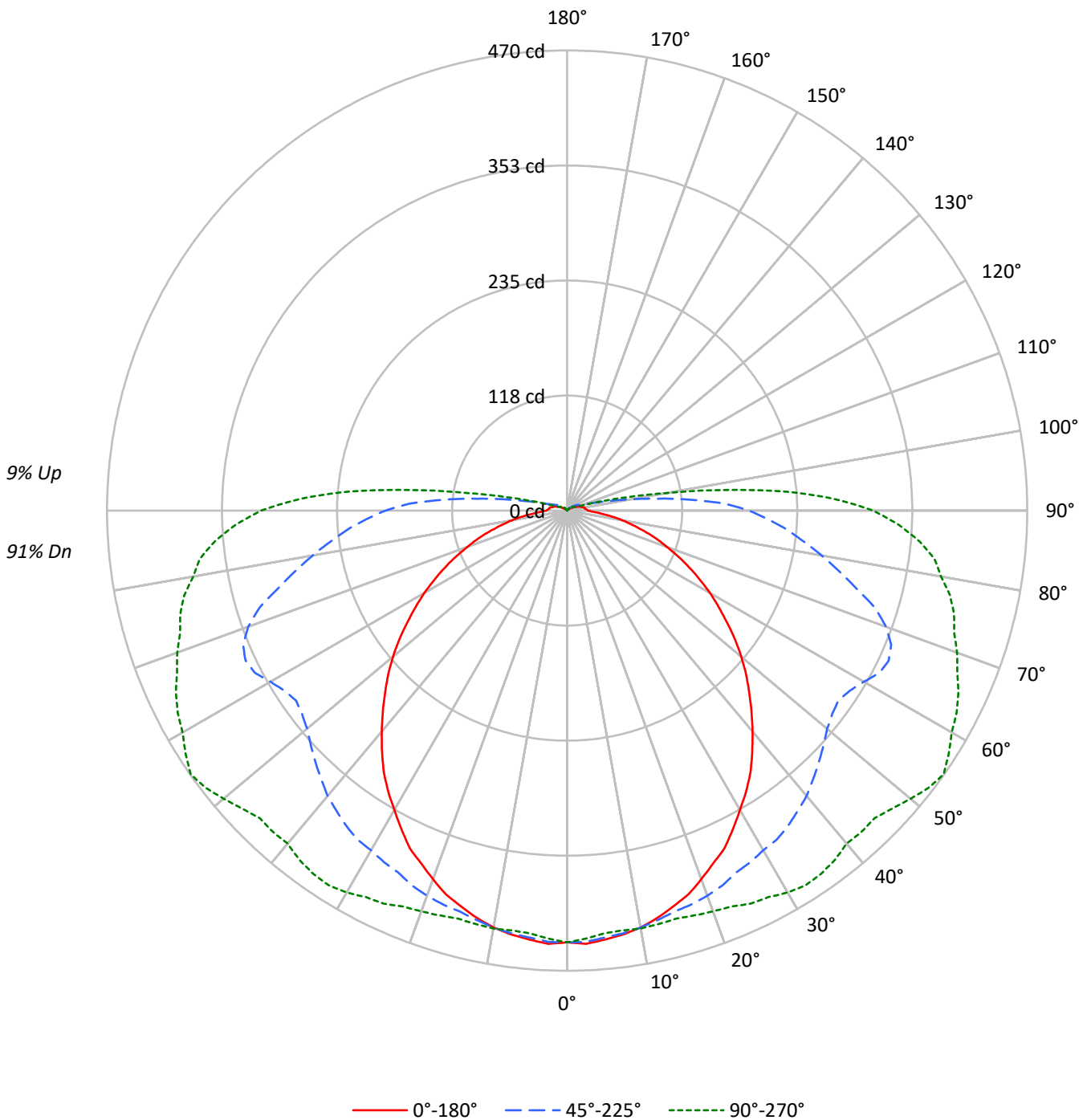
Lumens per Lamp: N/A  
Luminaire Lumens: 2216.0 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.56 / 1.55  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 17.38  
Input Voltage (V): 120  
Input 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	91
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	69	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	34
5	67	53	43	35	65	51	42	34	48	40	33	45	38	32	42	36	31	28
6	62	47	37	30	59	46	36	29	43	35	28	40	33	28	38	32	27	24
7	57	42	33	26	55	41	32	26	39	31	25	36	29	24	34	28	23	21
8	53	39	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	20	31	24	19	29	23	18	16
10	46	32	24	18	45	32	23	18	30	23	18	28	22	17	27	21	17	15

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

	0°	45°	90°
0°	4556	4556	4556
5°	4530	4427	4369
10°	4474	4315	4296
15°	4384	4205	4237
20°	4281	4161	4272
25°	4182	4094	4371
30°	4025	4090	4507
35°	3899	4117	4629
40°	3724	4122	4681
45°	3556	4111	4867
50°	3406	4132	5268
55°	3222	4297	5730
60°	3059	4800	5943
65°	2876	5448	6287
70°	2677	5808	6685
75°	2509	5828	7279
80°	2341	5909	7986
85°	2168	6165	8908



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.6	1.9
10°-20°	120.4	5.4
20°-30°	189.4	8.5
30°-40°	244.3	11.0
40°-50°	278.0	12.5
50°-60°	303.7	13.7
60°-70°	313.4	14.1
70°-80°	294.4	13.3
80°-90°	238.9	10.8
90°-100°	136.8	6.2
100°-110°	35.3	1.6
110°-120°	11.5	0.5
120°-130°	5.9	0.3
130°-140°	2.2	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°	351.4	15.9
0°-40°	595.7	26.9
0°-60°	1177.4	53.1
0°-90°	2024.2	91.3
90°-120°	183.5	8.3
90°-150°	191.8	8.7
90°-180°	192.0	8.7
0°-180°	2216.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	441	441	441	441	441	
5°	440	440	438	436	434	42
15°	419	421	424	431	431	118
25°	380	387	408	434	443	175
35°	326	343	393	436	453	204
45°	263	295	364	422	444	203
55°	199	241	338	443	470	179
65°	138	194	362	422	441	137
75°	82	190	305	377	409	87
85°	35	132	226	323	361	33
90°	21	99	186	276	313	12
95°	19	65	127	196	224	15
105°	15	22	32	36	37	16
115°	8	11	14	11	8	9
125°	4	4	8	8	6	3
135°	1	1	3	4	4	1
145°	1	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	440.9	440.9	440.9	440.9	440.9
2.5°	443.0	443.0	440.9	439.8	437.7
5°	439.8	439.8	437.7	435.6	433.5
7.5°	436.7	435.6	435.6	434.5	432.4
10°	432.4	431.4	432.4	432.4	433.5
12.5°	426.1	427.1	428.2	431.4	432.4
15°	418.6	420.8	423.9	431.4	431.4
17.5°	411.2	412.3	421.8	431.4	433.5
20°	400.6	405.9	418.6	430.3	435.6
22.5°	390.0	396.4	414.4	431.4	437.7
25°	380.5	386.8	408.0	433.5	443.0
27.5°	366.7	377.3	404.9	433.5	445.1
30°	352.9	366.7	400.6	434.5	450.4
32.5°	340.2	355.1	398.5	436.7	453.6
35°	326.4	343.4	393.2	435.6	452.6
37.5°	310.5	332.8	386.8	431.4	449.4
40°	294.6	320.1	380.5	428.2	444.1
42.5°	278.7	307.4	372.0	422.9	445.1
45°	262.8	294.6	363.5	421.8	444.1
47.5°	248.0	281.9	355.1	421.8	450.4
50°	232.1	269.2	346.6	428.2	457.9
52.5°	216.2	255.4	341.3	434.5	465.3
55°	199.3	240.6	338.1	443.0	469.5
57.5°	183.4	227.9	342.3	446.2	462.1
60°	168.5	215.1	349.8	439.8	453.6
62.5°	152.6	203.5	359.3	431.4	448.3
65°	137.8	194.0	362.5	421.8	440.9
67.5°	122.9	188.7	358.2	411.2	431.4
70°	108.1	186.5	346.6	398.5	423.9
72.5°	95.4	188.7	329.6	386.8	414.4
75°	81.6	189.7	305.2	377.3	409.1
77.5°	68.9	186.5	284.0	367.8	400.6
80°	57.2	172.8	263.9	352.9	387.9
82.5°	45.6	153.7	243.8	340.2	378.4
85°	35.0	132.5	225.7	323.3	361.4
87.5°	25.4	114.5	205.6	304.2	339.2
90°	21.2	98.6	185.5	275.6	312.7
92.5°	20.1	81.6	161.1	241.6	273.4
95°	19.1	64.7	127.2	196.1	223.6
97.5°	18.0	49.8	93.3	138.8	161.1
100°	18.0	38.2	65.7	92.2	102.8
102.5°	15.9	28.6	46.6	58.3	63.6
105°	14.8	22.3	31.8	36.0	37.1
107.5°	13.8	18.0	23.3	23.3	21.2
110°	11.7	14.8	19.1	15.9	13.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	10.6	12.7	15.9	12.7	10.6
115°	8.5	10.6	13.8	10.6	8.5
117.5°	7.4	8.5	12.7	10.6	8.5
120°	5.3	7.4	11.7	9.5	7.4
122.5°	4.2	5.3	9.5	8.5	7.4
125°	4.2	4.2	8.5	8.5	6.4
127.5°	3.2	3.2	7.4	7.4	6.4
130°	2.1	2.1	5.3	6.4	5.3
132.5°	2.1	1.1	4.2	5.3	5.3
135°	1.1	1.1	3.2	4.2	4.2
137.5°	1.1	1.1	2.1	3.2	3.2
140°	1.1	0.0	1.1	2.1	2.1
142.5°	1.1	0.0	0.0	1.1	1.1
145°	1.1	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)