

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: P237790

Luminaire Tested: **8VT2-LD5-12-DR-UNV-L850-CD2-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237790  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-16)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8VT2-LD5-12-DR-UNV-L850-CD2-WL-U  
Description: METALUX VT2 LED LUMINAIRE  
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION  
8FT FIXTURE  
Light Source: (224) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13138.0 lumens  
Efficiency: N/A  
Efficacy: 129.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')  
CIE Type: Direct

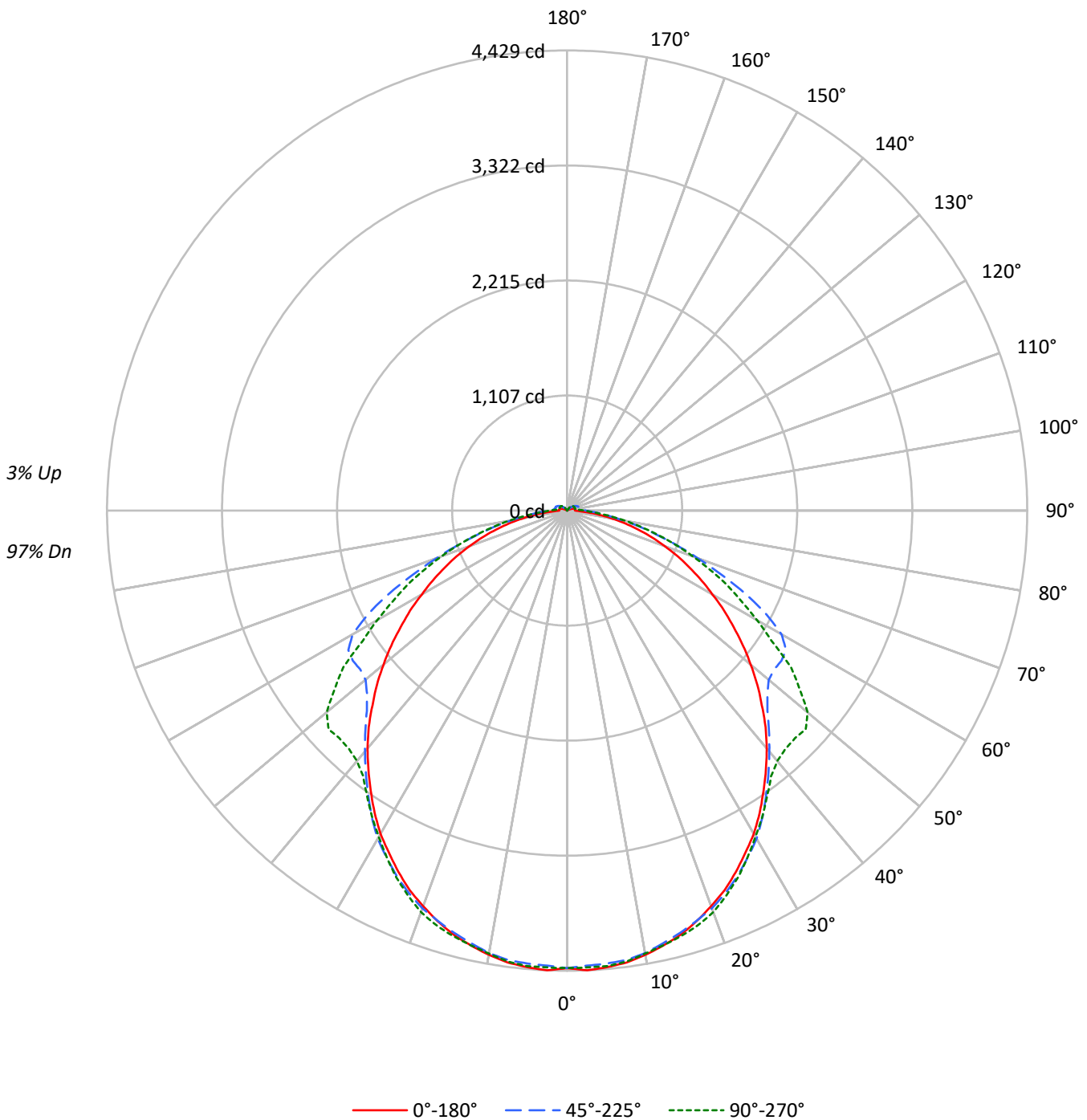
Input Watts (W): 101.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	109	109	104	104	104	99	99	99	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	77	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	55
4	81	69	60	53	79	67	59	53	64	57	51	62	56	50	59	54	49	47
5	75	61	52	46	72	60	52	45	58	50	44	55	49	44	53	47	43	41
6	69	55	46	40	67	54	46	39	52	44	39	50	43	38	48	42	38	35
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	38	32	27	37	31	27	25
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

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

	0°	45°	90°
0°	11375	11375	11375
5°	11421	11105	11090
10°	11350	10866	10726
15°	11240	10544	10410
20°	11058	10263	10084
25°	10843	9905	9608
30°	10591	9506	9069
35°	10247	8963	8581
40°	9914	8440	8291
45°	9492	7969	8493
50°	9054	7846	8690
55°	8569	8360	8028
60°	8067	8593	6917
65°	7617	7519	6061
70°	7150	5982	5065
75°	6577	4588	4027
80°	5835	3354	2935
85°	4808	2412	1868



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	417.9	3.2
10°-20°	1193.9	9.1
20°-30°	1784.6	13.6
30°-40°	2090.7	15.9
40°-50°	2187.9	16.7
50°-60°	2116.1	16.1
60°-70°	1645.1	12.5
70°-80°	970.4	7.4
80°-90°	349.7	2.7
90°-100°	130.4	1.0
100°-110°	97.7	0.7
110°-120°	75.6	0.6
120°-130°	48.2	0.4
130°-140°	24.8	0.2
140°-150°	4.9	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3396.4	25.9
0°-40°	5487.1	41.8
0°-60°	9791.2	74.5
0°-90°	12756.4	97.1
90°-120°	303.7	2.3
90°-150°	381.6	2.9
90°-180°	382.0	2.9
0°-180°	13138.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4403	4403	4403	4403	4403	
5°	4412	4391	4376	4414	4401	419
15°	4225	4238	4206	4257	4240	1190
25°	3839	3856	3880	3909	3895	1768
35°	3295	3337	3339	3358	3356	2062
45°	2650	2697	2726	2987	3100	2047
55°	1957	2025	2519	2686	2631	1753
65°	1300	1562	1889	1688	1700	1292
75°	708	1058	888	899	905	753
85°	199	314	314	312	303	214
90°	76	163	180	172	161	47
95°	78	119	131	114	102	63
105°	64	93	114	91	78	66
115°	32	62	102	87	76	34
125°	13	23	70	76	72	12
135°	6	4	36	55	57	5
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



TEST NUMBER: P237790

CATALOG NUMBER: 8VT2-LD5-12-DR-UNV-L850-CD2-WL-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4403.4	4403.4	4403.4	4403.4	4403.4
2.5°	4428.8	4407.6	4384.3	4411.9	4401.3
5°	4411.9	4390.7	4375.8	4414.0	4401.3
7.5°	4386.4	4371.6	4363.1	4394.9	4377.9
10°	4341.9	4335.5	4324.9	4356.7	4329.2
12.5°	4286.8	4293.1	4265.6	4301.6	4284.7
15°	4225.3	4238.0	4206.2	4257.1	4240.1
17.5°	4144.7	4159.6	4140.5	4204.1	4185.0
20°	4051.5	4059.9	4072.7	4117.2	4112.9
22.5°	3956.0	3962.4	3983.6	4017.5	4006.9
25°	3839.4	3856.4	3879.7	3909.4	3894.6
27.5°	3714.4	3739.8	3763.1	3786.4	3761.0
30°	3591.4	3604.1	3646.5	3644.4	3625.3
32.5°	3449.4	3481.2	3498.1	3491.8	3493.9
35°	3294.6	3337.0	3339.1	3358.2	3356.1
37.5°	3141.9	3188.6	3182.2	3218.3	3224.6
40°	2989.3	3021.1	3027.5	3091.1	3146.2
42.5°	2826.1	2857.9	2874.8	3008.4	3110.1
45°	2650.1	2696.7	2726.4	2987.2	3099.5
47.5°	2484.7	2527.1	2611.9	2987.2	3114.4
50°	2306.6	2357.5	2533.5	2980.8	3021.1
52.5°	2134.9	2185.8	2510.2	2889.7	2819.7
55°	1956.8	2024.7	2518.6	2686.1	2631.0
57.5°	1791.5	1886.9	2497.4	2442.3	2332.1
60°	1615.5	1755.4	2383.0	2170.9	2111.6
62.5°	1460.7	1649.4	2162.5	1912.3	1891.1
65°	1299.6	1562.5	1889.0	1687.6	1700.3
67.5°	1153.3	1484.0	1602.8	1481.9	1490.4
70°	998.6	1390.8	1335.6	1286.9	1284.8
72.5°	854.4	1257.2	1102.4	1087.6	1094.0
75°	708.1	1057.9	888.3	898.9	905.3
77.5°	574.5	854.4	712.3	725.1	725.1
80°	436.7	638.1	544.9	568.2	570.3
82.5°	313.8	455.8	415.5	428.3	417.7
85°	199.3	313.8	313.8	311.7	303.2
87.5°	112.4	216.2	229.0	226.8	216.2
90°	76.3	163.2	180.2	171.7	161.1
92.5°	76.3	137.8	150.5	135.7	125.1
95°	78.4	118.7	131.4	114.5	101.8
97.5°	76.3	110.2	123.0	101.8	89.0
100°	74.2	101.8	118.7	95.4	82.7
102.5°	70.0	97.5	116.6	91.2	78.4
105°	63.6	93.3	114.5	91.2	78.4
107.5°	55.1	86.9	114.5	91.2	78.4
110°	48.8	78.4	112.4	89.0	76.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	40.3	70.0	108.1	89.0	76.3
115°	31.8	61.5	101.8	86.9	76.3
117.5°	27.6	50.9	95.4	86.9	76.3
120°	21.2	42.4	89.0	82.7	74.2
122.5°	17.0	31.8	80.6	80.6	72.1
125°	12.7	23.3	70.0	76.3	72.1
127.5°	10.6	17.0	61.5	72.1	70.0
130°	8.5	10.6	53.0	67.8	65.7
132.5°	6.4	6.4	44.5	61.5	61.5
135°	6.4	4.2	36.0	55.1	57.2
137.5°	4.2	4.2	27.6	46.6	50.9
140°	4.2	4.2	21.2	40.3	44.5
142.5°	4.2	4.2	14.8	31.8	36.0
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)