

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: P237802

Luminaire Tested: **8VT2-LD5-12-DR100-UNV-L850-CD2-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237802  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-17)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8VT2-LD5-12-DR100-UNV-L850-CD2-WL-U  
Description: METALUX VT2 LED LUMINAIRE  
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION  
8FT FIXTURE  
Light Source: (224) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

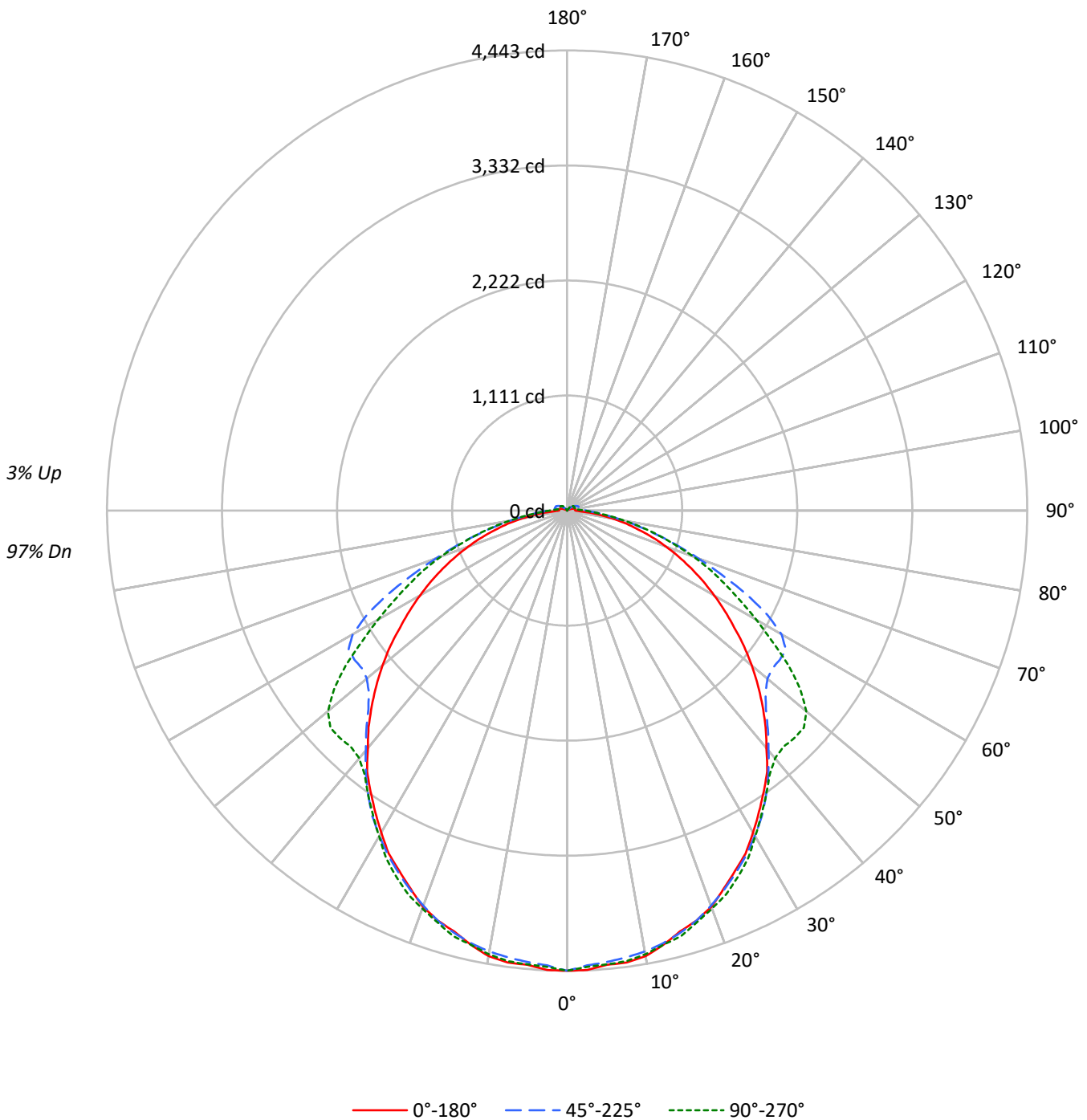
Lumens per Lamp: N/A  
Luminaire Lumens: 13148.0 lumens  
Efficiency: N/A  
Efficacy: 129.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.21 / 1.32  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 101.2  
Input Voltage (V): 120  
Input 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	104	100	96	92	95	92	89	91	88	86	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	68	62	73	66	61	69	64	59	67	62	58	55
4	81	69	60	53	79	67	59	53	64	57	51	62	55	50	59	54	49	47
5	74	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°	11478	11478	11478
5°	11397	11103	11083
10°	11420	10859	10776
15°	11193	10579	10440
20°	11108	10229	10025
25°	10835	9843	9627
30°	10583	9449	9083
35°	10291	8989	8563
40°	9927	8433	8228
45°	9551	7931	8503
50°	9128	7818	8670
55°	8632	8324	7969
60°	8193	8622	6908
65°	7753	7585	5992
70°	7269	6010	5098
75°	6655	4631	4007
80°	5977	3366	2869
85°	4755	2395	1881



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.2	3.2
10°-20°	1193.5	9.1
20°-30°	1783.9	13.6
30°-40°	2089.3	15.9
40°-50°	2182.7	16.6
50°-60°	2120.6	16.1
60°-70°	1649.9	12.5
70°-80°	970.8	7.4
80°-90°	350.7	2.7
90°-100°	133.1	1.0
100°-110°	99.2	0.8
110°-120°	77.1	0.6
120°-130°	49.1	0.4
130°-140°	25.0	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°	3395.6	25.8
0°-40°	5484.9	41.7
0°-60°	9788.2	74.4
0°-90°	12759.7	97.0
90°-120°	309.3	2.4
90°-150°	388.3	3.0
90°-180°	388.0	3.0
0°-180°	13148.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4443	4443	4443	4443	4443	
5°	4403	4390	4375	4405	4398	420
15°	4208	4220	4220	4258	4252	1191
25°	3837	3868	3856	3904	3902	1770
35°	3309	3332	3349	3351	3349	2069
45°	2667	2692	2713	2966	3103	2057
55°	1971	2033	2508	2703	2612	1769
65°	1323	1566	1906	1681	1681	1310
75°	716	1064	897	890	901	765
85°	197	318	312	310	305	215
90°	78	165	184	174	170	48
95°	80	121	134	117	106	65
105°	66	93	117	91	78	69
115°	34	64	104	89	76	35
125°	15	25	72	78	72	13
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



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CATALOG NUMBER: 8VT2-LD5-12-DR100-UNV-L850-CD2-WL-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4442.9	4442.9	4442.9	4442.9	4442.9
2.5°	4438.7	4419.6	4396.3	4421.7	4409.0
5°	4402.6	4389.9	4375.1	4404.7	4398.4
7.5°	4400.5	4372.9	4351.8	4389.9	4387.8
10°	4368.7	4332.7	4322.1	4362.3	4349.6
12.5°	4294.5	4277.6	4279.7	4324.2	4294.5
15°	4207.6	4220.3	4220.3	4258.5	4252.1
17.5°	4150.4	4150.4	4152.5	4177.9	4167.3
20°	4069.8	4065.6	4059.2	4101.6	4088.9
22.5°	3951.1	3968.1	3961.7	4019.0	4010.5
25°	3836.7	3868.5	3855.7	3904.5	3902.4
27.5°	3732.8	3749.8	3747.6	3787.9	3783.7
30°	3588.7	3616.2	3624.7	3650.1	3631.1
32.5°	3448.8	3476.3	3499.6	3499.6	3489.0
35°	3308.9	3332.2	3349.1	3351.3	3349.1
37.5°	3173.2	3175.3	3192.3	3192.3	3211.4
40°	2993.0	3018.5	3024.8	3073.6	3122.3
42.5°	2838.3	2853.1	2868.0	2993.0	3092.6
45°	2666.6	2692.0	2713.2	2965.5	3103.2
47.5°	2499.1	2520.3	2596.6	2976.1	3101.1
50°	2325.3	2355.0	2524.6	2986.7	3014.2
52.5°	2153.6	2193.9	2499.1	2893.4	2838.3
55°	1971.3	2032.8	2507.6	2702.6	2611.5
57.5°	1803.9	1892.9	2503.4	2452.5	2342.3
60°	1640.7	1767.8	2391.0	2168.5	2109.1
62.5°	1479.6	1661.8	2176.9	1914.1	1882.3
65°	1322.7	1566.5	1905.6	1680.9	1680.9
67.5°	1165.8	1490.2	1608.9	1473.2	1494.4
70°	1015.3	1399.0	1341.8	1265.5	1293.0
72.5°	864.8	1259.1	1108.6	1081.0	1087.4
75°	716.5	1064.1	896.6	890.3	900.9
77.5°	587.2	847.9	703.7	724.9	729.2
80°	447.3	638.0	546.9	566.0	557.5
82.5°	313.7	457.9	413.3	426.1	421.8
85°	197.1	318.0	311.6	309.5	305.2
87.5°	112.3	216.2	231.0	231.0	222.6
90°	78.4	165.3	184.4	173.8	169.6
92.5°	78.4	139.9	152.6	137.8	129.3
95°	80.5	120.8	133.5	116.6	106.0
97.5°	80.5	112.3	125.1	103.9	93.3
100°	78.4	103.9	120.8	95.4	84.8
102.5°	72.1	99.6	118.7	93.3	80.5
105°	65.7	93.3	116.6	91.1	78.4
107.5°	59.4	86.9	116.6	91.1	76.3
110°	50.9	80.5	114.5	91.1	76.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	42.4	72.1	110.2	89.0	76.3
115°	33.9	63.6	103.9	89.0	76.3
117.5°	27.6	53.0	97.5	86.9	76.3
120°	23.3	42.4	91.1	84.8	74.2
122.5°	17.0	33.9	80.5	80.5	74.2
125°	14.8	25.4	72.1	78.4	72.1
127.5°	10.6	17.0	63.6	72.1	70.0
130°	8.5	10.6	53.0	67.8	67.8
132.5°	6.4	6.4	44.5	61.5	63.6
135°	6.4	4.2	36.0	55.1	57.2
137.5°	4.2	4.2	27.6	46.6	53.0
140°	4.2	4.2	21.2	40.3	44.5
142.5°	4.2	4.2	14.8	31.8	38.2
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)