

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: P237799

Luminaire Tested: **8VT2-LD5-9-DR100-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237799  
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-LD5-9-DR100-UNV-L850-CD1-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**

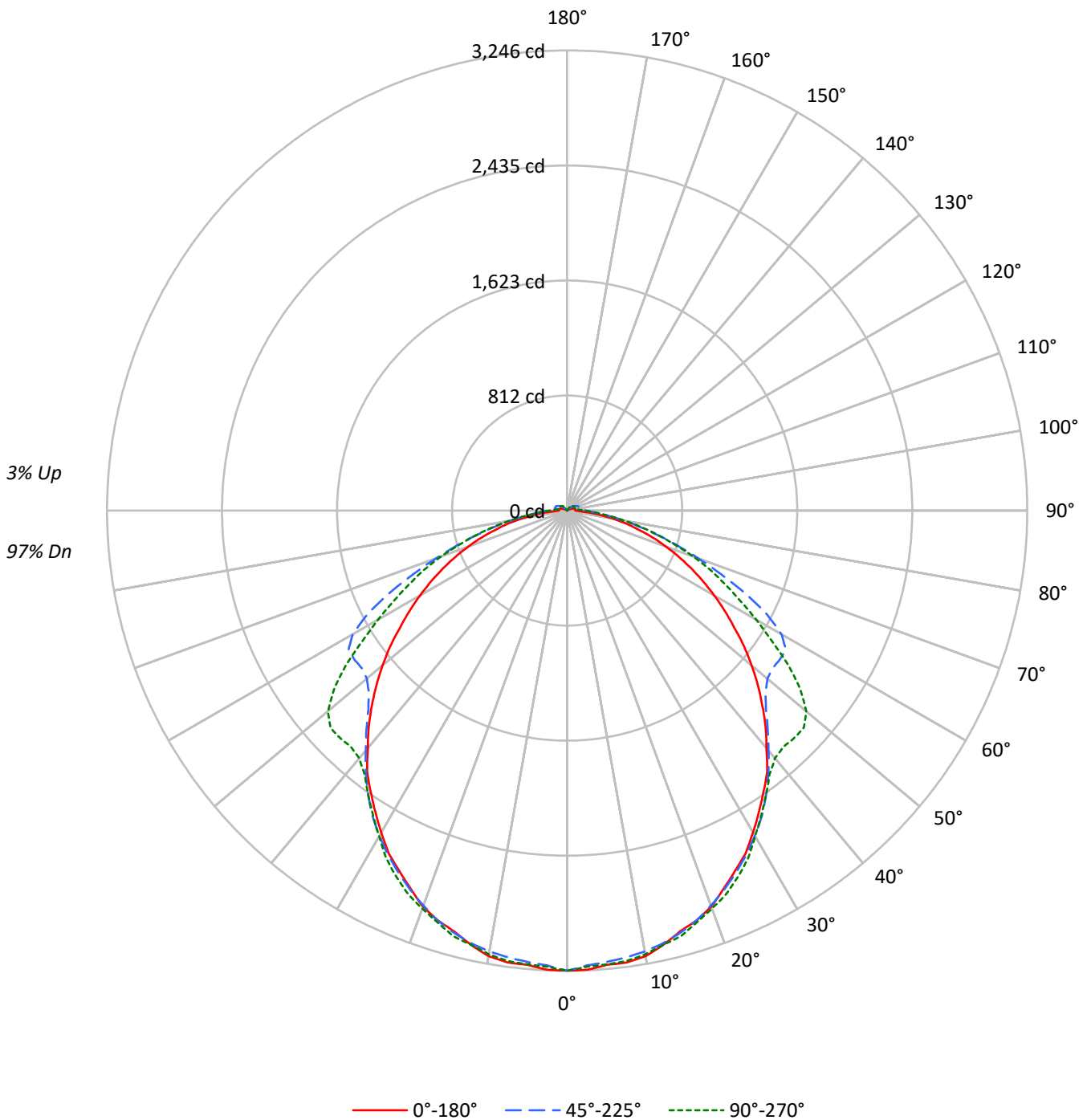
Lumens per Lamp: N/A  
Luminaire Lumens: 9605.0 lumens  
Efficiency: N/A  
Efficacy: 146.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.21 / 1.32  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 65.7  
Input Voltage (V): 120  
Input 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°	8385	8385	8385
5°	8326	8111	8096
10°	8342	7933	7872
15°	8177	7728	7627
20°	8114	7473	7323
25°	7915	7191	7033
30°	7731	6903	6636
35°	7518	6567	6256
40°	7252	6160	6011
45°	6977	5794	6212
50°	6668	5712	6334
55°	6306	6081	5821
60°	5985	6299	5047
65°	5664	5541	4377
70°	5310	4390	3724
75°	4861	3383	2927
80°	4365	2459	2096
85°	3474	1750	1374



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.5	3.2
10°-20°	871.9	9.1
20°-30°	1303.2	13.6
30°-40°	1526.3	15.9
40°-50°	1594.6	16.6
50°-60°	1549.2	16.1
60°-70°	1205.3	12.5
70°-80°	709.2	7.4
80°-90°	256.2	2.7
90°-100°	97.3	1.0
100°-110°	72.4	0.8
110°-120°	56.3	0.6
120°-130°	35.8	0.4
130°-140°	18.2	0.2
140°-150°	3.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2480.6	25.8
0°-40°	4006.8	41.7
0°-60°	7150.6	74.4
0°-90°	9321.3	97.0
90°-120°	226.0	2.4
90°-150°	283.7	3.0
90°-180°	284.0	3.0
0°-180°	9605.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3246	3246	3246	3246	3246	
5°	3216	3207	3196	3218	3213	307
15°	3074	3083	3083	3111	3106	870
25°	2803	2826	2817	2852	2851	1293
35°	2417	2434	2447	2448	2447	1512
45°	1948	1967	1982	2166	2267	1503
55°	1440	1485	1832	1974	1908	1292
65°	966	1144	1392	1228	1228	957
75°	523	777	655	650	658	559
85°	144	232	228	226	223	157
90°	57	121	135	127	124	35
95°	59	88	98	85	77	48
105°	48	68	85	67	57	51
115°	25	46	76	65	56	26
125°	11	19	53	57	53	10
135°	5	3	26	40	42	3
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°	3245.7	3245.7	3245.7	3245.7	3245.7
2.5°	3242.6	3228.6	3211.6	3230.2	3220.9
5°	3216.2	3207.0	3196.1	3217.8	3213.1
7.5°	3214.7	3194.6	3179.1	3207.0	3205.4
10°	3191.5	3165.1	3157.4	3186.8	3177.5
12.5°	3137.3	3124.9	3126.4	3159.0	3137.3
15°	3073.8	3083.1	3083.1	3110.9	3106.3
17.5°	3032.0	3032.0	3033.5	3052.1	3044.4
20°	2973.1	2970.0	2965.4	2996.4	2987.1
22.5°	2886.4	2898.8	2894.2	2936.0	2929.8
25°	2802.8	2826.0	2816.7	2852.3	2850.8
27.5°	2726.9	2739.3	2737.8	2767.2	2764.1
30°	2621.6	2641.8	2647.9	2666.5	2652.6
32.5°	2519.4	2539.5	2556.6	2556.6	2548.8
35°	2417.2	2434.3	2446.6	2448.2	2446.6
37.5°	2318.1	2319.7	2332.0	2332.0	2346.0
40°	2186.5	2205.1	2209.7	2245.3	2280.9
42.5°	2073.4	2084.3	2095.1	2186.5	2259.3
45°	1948.0	1966.6	1982.1	2166.4	2267.0
47.5°	1825.7	1841.2	1896.9	2174.1	2265.5
50°	1698.7	1720.4	1844.3	2181.8	2202.0
52.5°	1573.3	1602.7	1825.7	2113.7	2073.4
55°	1440.1	1485.0	1831.9	1974.3	1907.8
57.5°	1317.8	1382.8	1828.8	1791.6	1711.1
60°	1198.5	1291.5	1746.7	1584.1	1540.8
62.5°	1080.9	1214.0	1590.3	1398.3	1375.1
65°	966.3	1144.3	1392.1	1228.0	1228.0
67.5°	851.7	1088.6	1175.3	1076.2	1091.7
70°	741.7	1022.0	980.2	924.5	944.6
72.5°	631.8	919.8	809.9	789.7	794.4
75°	523.4	777.3	655.0	650.4	658.1
77.5°	428.9	619.4	514.1	529.6	532.7
80°	326.7	466.1	399.5	413.5	407.3
82.5°	229.2	334.5	302.0	311.2	308.2
85°	144.0	232.3	227.6	226.1	223.0
87.5°	82.1	157.9	168.8	168.8	162.6
90°	57.3	120.8	134.7	127.0	123.9
92.5°	57.3	102.2	111.5	100.7	94.5
95°	58.8	88.3	97.6	85.2	77.4
97.5°	58.8	82.1	91.4	75.9	68.1
100°	57.3	75.9	88.3	69.7	61.9
102.5°	52.6	72.8	86.7	68.1	58.8
105°	48.0	68.1	85.2	66.6	57.3
107.5°	43.4	63.5	85.2	66.6	55.7
110°	37.2	58.8	83.6	66.6	55.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	31.0	52.6	80.5	65.0	55.7
115°	24.8	46.5	75.9	65.0	55.7
117.5°	20.1	38.7	71.2	63.5	55.7
120°	17.0	31.0	66.6	61.9	54.2
122.5°	12.4	24.8	58.8	58.8	54.2
125°	10.8	18.6	52.6	57.3	52.6
127.5°	7.7	12.4	46.5	52.6	51.1
130°	6.2	7.7	38.7	49.6	49.6
132.5°	4.6	4.6	32.5	44.9	46.5
135°	4.6	3.1	26.3	40.3	41.8
137.5°	3.1	3.1	20.1	34.1	38.7
140°	3.1	3.1	15.5	29.4	32.5
142.5°	3.1	3.1	10.8	23.2	27.9
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)