

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: P237811

Luminaire Tested: **8VRVT2-LD5-9-FR50-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237811  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-18)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8VRVT2-LD5-9-FR50-UNV-L850-CD1-WL-U  
Description: METALUX VRVT2 LED LUMINAIRE  
FROSTED 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: 9503.0 lumens  
Efficiency: N/A  
Efficacy: 144.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.23 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')  
CIE Type: Direct

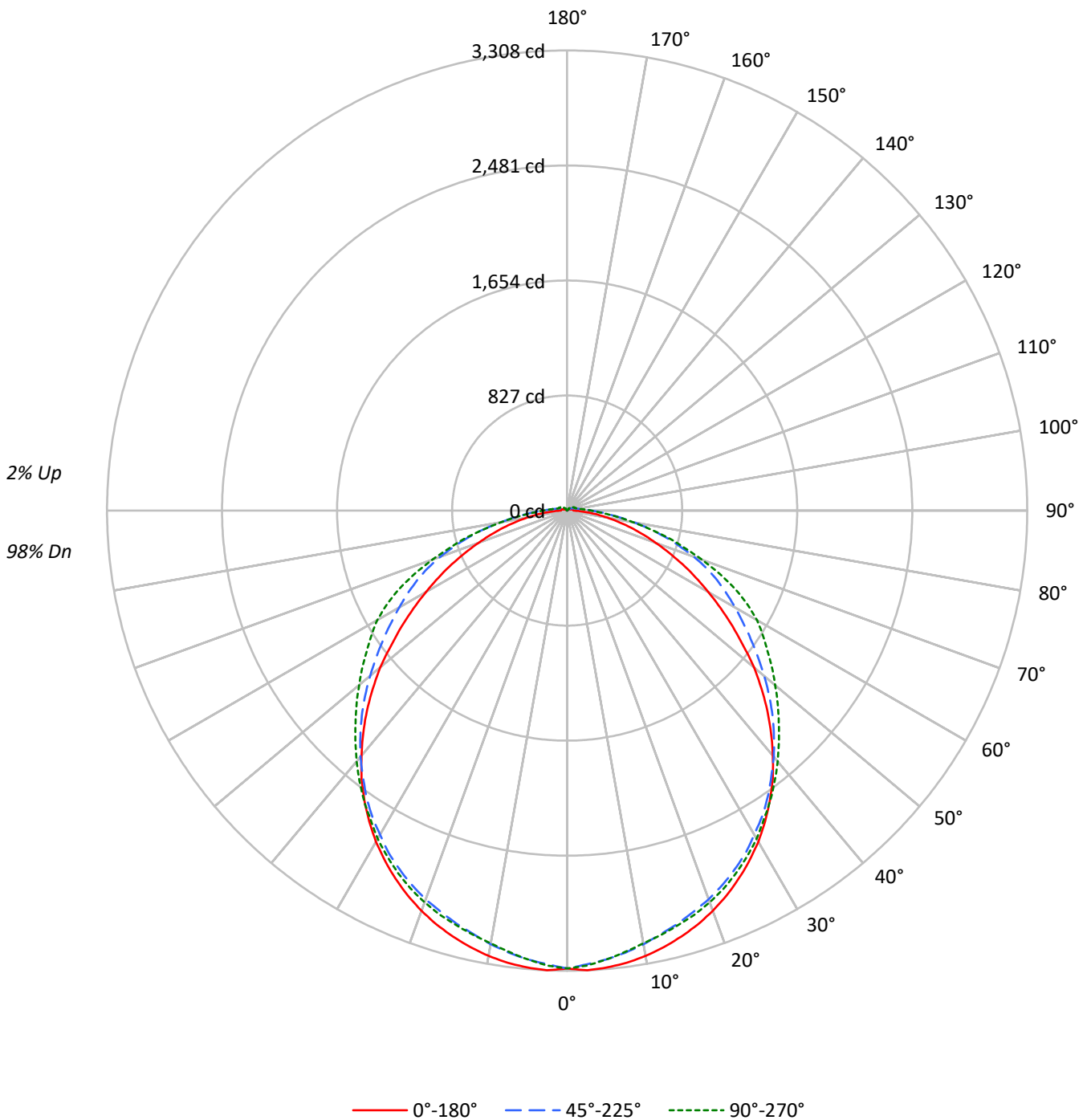
Input Watts (W): 65.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	110	110	105	105	105	100	100	100	98
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	81	75	83	78	73	79	75	71	76	72	69	67
3	89	78	70	63	86	76	69	62	73	66	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	54	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	43	41
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	50	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	42	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

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

	0°	45°	90°
0°	8502	8502	8502
5°	8535	8222	8163
10°	8497	7953	7827
15°	8433	7706	7574
20°	8356	7493	7347
25°	8244	7271	7094
30°	8106	7013	6814
35°	7904	6751	6510
40°	7627	6442	6203
45°	7294	6102	5894
50°	6882	5726	5613
55°	6361	5351	5363
60°	5854	5026	5164
65°	5365	4746	4747
70°	4834	4335	4054
75°	4402	3735	3334
80°	3911	2993	2471
85°	3513	2274	1756



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.8	3.2
10°-20°	876.2	9.2
20°-30°	1322.0	13.9
30°-40°	1577.6	16.6
40°-50°	1608.6	16.9
50°-60°	1440.1	15.2
60°-70°	1138.4	12.0
70°-80°	704.3	7.4
80°-90°	296.4	3.1
90°-100°	105.6	1.1
100°-110°	56.0	0.6
110°-120°	36.8	0.4
120°-130°	21.3	0.2
130°-140°	9.5	0.1
140°-150°	1.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2506.9	26.4
0°-40°	4084.5	43.0
0°-60°	7133.2	75.1
0°-90°	9272.3	97.6
90°-120°	198.5	2.1
90°-150°	230.7	2.4
90°-180°	231.0	2.4
0°-180°	9503.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3291	3291	3291	3291	3291	
5°	3297	3272	3240	3251	3240	313
15°	3170	3119	3074	3093	3085	895
25°	2919	2857	2848	2879	2876	1345
35°	2541	2495	2515	2546	2546	1588
45°	2036	2021	2088	2140	2151	1568
55°	1453	1485	1612	1727	1758	1301
65°	915	979	1192	1315	1332	909
75°	474	573	723	751	750	504
85°	146	228	296	297	285	151
90°	48	119	176	178	172	31
95°	43	67	110	113	110	35
105°	34	32	59	67	65	36
115°	19	17	40	54	54	19
125°	8	5	25	39	43	8
135°	3	3	9	22	26	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°	3290.9	3290.9	3290.9	3290.9	3290.9
2.5°	3307.9	3289.3	3264.6	3281.6	3273.8
5°	3297.1	3272.3	3239.8	3250.6	3239.8
7.5°	3278.5	3247.5	3205.7	3210.4	3199.5
10°	3250.6	3213.5	3165.4	3170.1	3159.2
12.5°	3215.0	3170.1	3117.4	3134.5	3123.6
15°	3170.1	3119.0	3074.1	3092.7	3084.9
17.5°	3120.5	3064.8	3023.0	3052.4	3046.2
20°	3061.7	2999.7	2973.4	3001.3	2996.6
22.5°	2995.1	2928.5	2914.6	2945.5	2940.9
25°	2919.2	2857.3	2848.0	2878.9	2875.8
27.5°	2837.1	2772.1	2776.7	2803.1	2801.5
30°	2748.9	2691.6	2690.0	2725.6	2724.1
32.5°	2649.7	2592.4	2607.9	2635.8	2631.2
35°	2541.3	2494.9	2515.0	2546.0	2546.0
37.5°	2428.3	2384.9	2411.2	2443.8	2451.5
40°	2299.7	2267.2	2310.6	2349.3	2353.9
42.5°	2169.7	2148.0	2200.6	2244.0	2253.3
45°	2036.5	2021.0	2087.6	2140.2	2151.1
47.5°	1894.0	1894.0	1969.9	2033.4	2053.5
50°	1753.1	1753.1	1849.1	1928.1	1951.3
52.5°	1596.7	1618.3	1728.3	1822.8	1856.8
55°	1452.6	1485.2	1612.1	1726.7	1757.7
57.5°	1310.2	1350.4	1499.1	1632.3	1667.9
60°	1172.3	1226.5	1393.8	1536.3	1576.5
62.5°	1042.2	1099.5	1293.1	1432.5	1460.4
65°	915.3	978.7	1192.5	1314.8	1331.8
67.5°	792.9	875.0	1087.2	1180.1	1186.3
70°	675.2	771.2	967.9	1037.6	1028.3
72.5°	573.0	669.0	845.6	893.6	878.1
75°	473.9	573.0	723.2	751.1	749.5
77.5°	381.0	478.5	604.0	619.5	604.0
80°	292.7	390.3	486.3	494.0	480.1
82.5°	218.4	302.0	382.5	387.2	379.4
85°	145.6	227.7	295.8	297.3	285.0
87.5°	88.3	165.7	226.1	229.2	219.9
90°	48.0	119.2	176.5	178.1	171.9
92.5°	44.9	86.7	136.3	139.4	136.3
95°	43.4	66.6	110.0	113.1	110.0
97.5°	43.4	54.2	89.8	94.5	91.4
100°	40.3	44.9	75.9	80.5	79.0
102.5°	38.7	37.2	66.6	72.8	69.7
105°	34.1	32.5	58.8	66.6	65.0
107.5°	31.0	27.9	54.2	61.9	60.4
110°	26.3	24.8	49.6	58.8	58.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	21.7	20.1	44.9	55.8	55.8
115°	18.6	17.0	40.3	54.2	54.2
117.5°	15.5	13.9	37.2	51.1	52.7
120°	12.4	10.8	32.5	46.5	49.6
122.5°	10.8	7.7	27.9	43.4	46.5
125°	7.7	4.6	24.8	38.7	43.4
127.5°	6.2	4.6	20.1	34.1	38.7
130°	4.6	3.1	17.0	31.0	34.1
132.5°	4.6	3.1	12.4	26.3	29.4
135°	3.1	3.1	9.3	21.7	26.3
137.5°	3.1	1.5	6.2	17.0	21.7
140°	3.1	1.5	3.1	13.9	17.0
142.5°	1.5	1.5	1.5	9.3	12.4
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)