

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: P237851

Luminaire Tested: **4VT2-LD5-8-DR100-UNV-L835-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237851  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-12)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4VT2-LD5-8-DR100-UNV-L835-CD1-WL-U  
Description: METALUX VT2 LED LUMINAIRE  
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION  
4FT FIXTURE  
Light Source: (224) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8241.1 lumens  
Efficiency: N/A  
Efficacy: 140.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4.17' x H: 0.17')  
CIE Type: Direct

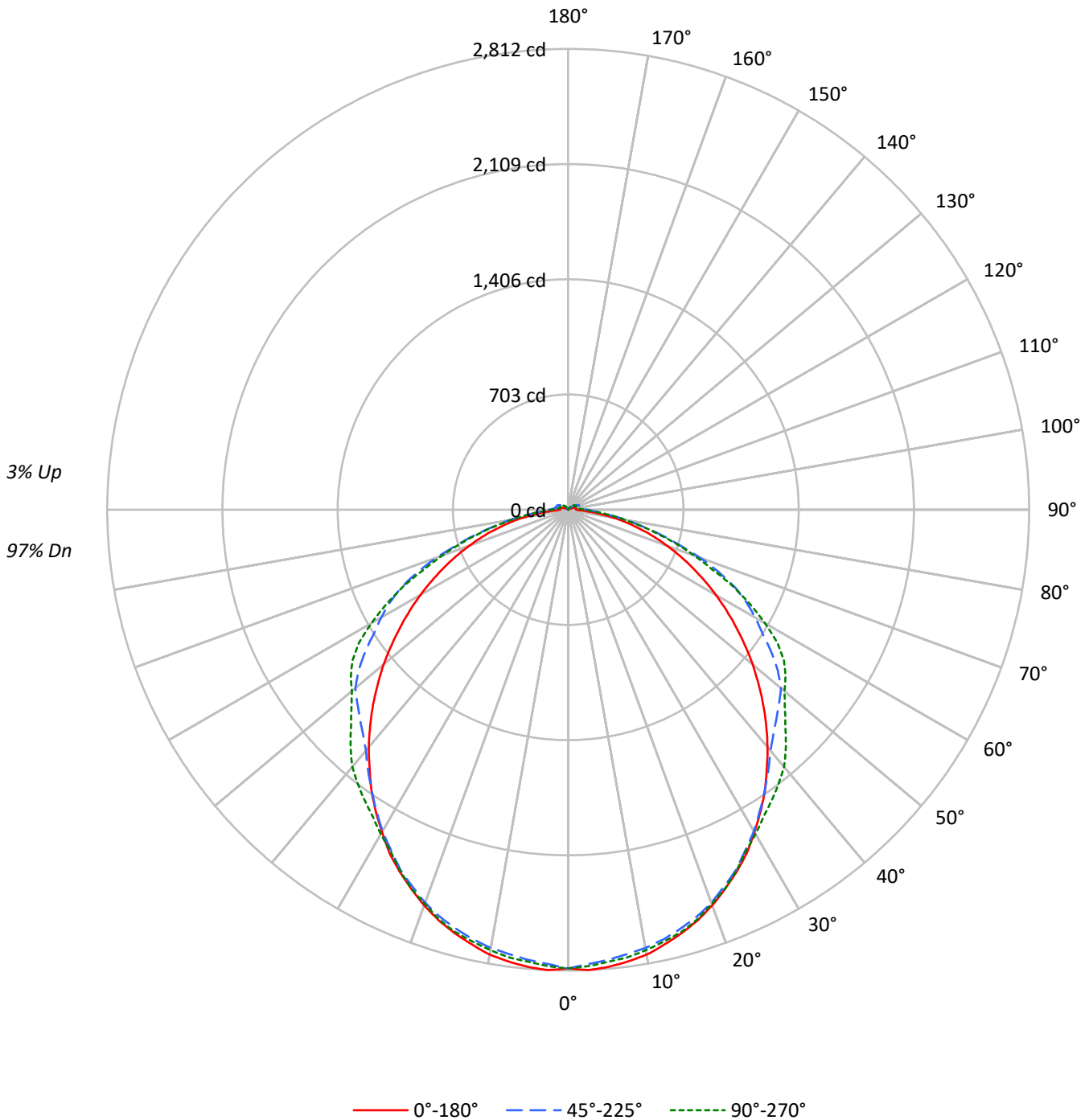
Input Watts (W): 58.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	56
4	81	69	60	53	79	67	59	53	64	57	52	62	56	51	59	54	50	47
5	75	62	52	46	72	60	52	45	58	50	44	55	49	44	53	48	43	41
6	69	55	46	40	67	54	46	39	52	45	39	50	43	38	48	42	38	36
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	39	32	27	37	31	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

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

	0°	45°	90°
0°	14462	14462	14462
5°	14476	13981	13954
10°	14363	13610	13523
15°	14157	13223	13096
20°	13922	12802	12553
25°	13627	12299	11984
30°	13243	11726	11437
35°	12835	11126	11071
40°	12346	10596	10799
45°	11824	10388	10264
50°	11278	10364	9906
55°	10660	9891	9807
60°	10050	9339	9080
65°	9390	8766	7906
70°	8697	7469	6450
75°	7903	5812	4982
80°	6791	4254	3521
85°	4800	2818	2268



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.6	3.2
10°-20°	750.4	9.1
20°-30°	1117.6	13.6
30°-40°	1322.4	16.0
40°-50°	1381.0	16.8
50°-60°	1299.3	15.8
60°-70°	1042.0	12.6
70°-80°	604.8	7.3
80°-90°	215.4	2.6
90°-100°	84.1	1.0
100°-110°	63.3	0.8
110°-120°	48.1	0.6
120°-130°	29.4	0.4
130°-140°	14.4	0.2
140°-150°	4.7	0.1
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2131.6	25.9
0°-40°	3454.0	41.9
0°-60°	6134.3	74.4
0°-90°	7996.5	97.0
90°-120°	195.4	2.4
90°-150°	244.0	3.0
90°-180°	245.0	3.0
0°-180°	8241.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2799	2799	2799	2799	2799	
5°	2801	2786	2758	2772	2769	266
15°	2675	2655	2647	2674	2667	754
25°	2435	2421	2423	2440	2429	1121
35°	2092	2089	2090	2136	2165	1306
45°	1683	1692	1797	1886	1873	1298
55°	1251	1313	1512	1567	1607	1120
65°	834	1038	1123	1115	1109	829
75°	455	624	578	567	560	483
85°	118	193	191	187	184	132
90°	48	103	115	108	102	29
95°	49	76	85	75	68	40
105°	40	57	75	61	53	42
115°	21	36	65	58	50	21
125°	8	14	43	47	45	8
135°	4	3	20	32	33	3
145°	2	2	4	14	16	1
155°	1	1	1	1	2	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°	2799	2799	2799	2799	2799
2.5°	2812	2797	2775	2795	2788
5°	2801	2786	2758	2772	2769
7.5°	2781	2761	2736	2758	2756
10°	2757	2734	2715	2736	2729
12.5°	2717	2699	2685	2710	2699
15°	2675	2655	2647	2674	2667
17.5°	2627	2611	2605	2620	2621
20°	2569	2557	2552	2572	2560
22.5°	2503	2486	2487	2508	2502
25°	2435	2421	2423	2440	2429
27.5°	2361	2345	2341	2359	2348
30°	2271	2268	2265	2280	2286
32.5°	2184	2183	2177	2198	2219
35°	2092	2089	2090	2136	2165
37.5°	1990	1993	2005	2079	2108
40°	1892	1893	1919	2030	2049
42.5°	1788	1790	1853	1970	1966
45°	1683	1692	1797	1886	1873
47.5°	1574	1591	1745	1792	1793
50°	1470	1492	1695	1706	1722
52.5°	1359	1402	1611	1626	1671
55°	1251	1313	1512	1567	1607
57.5°	1145	1236	1405	1492	1514
60°	1040	1167	1317	1388	1386
62.5°	937	1101	1225	1258	1253
65°	834	1038	1123	1115	1109
67.5°	739	952	993	960	950
70°	639	848	853	820	818
72.5°	549	736	706	690	691
75°	455	624	578	567	560
77.5°	367	501	456	454	450
80°	280	386	357	348	342
82.5°	195	279	261	261	257
85°	118	193	191	187	184
87.5°	66	133	143	139	131
90°	48	103	115	108	102
92.5°	48	87	96	88	81
95°	49	76	85	75	68
97.5°	49	70	80	68	61
100°	47	65	77	64	56
102.5°	44	61	75	62	54
105°	40	57	75	61	53
107.5°	35	53	73	61	52
110°	30	48	72	60	52



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	26	42	69	59	51
115°	21	36	65	58	50
117.5°	17	30	60	56	49
120°	14	24	54	53	48
122.5°	10	18	49	51	47
125°	8	14	43	47	45
127.5°	7	9	37	44	43
130°	5	6	31	40	40
132.5°	4	4	25	36	37
135°	4	3	20	32	33
137.5°	3	3	16	27	29
140°	2	2	11	22	25
142.5°	2	2	7	18	20
145°	2	2	4	14	16
147.5°	2	1	2	10	12
150°	2	1	1	6	8
152.5°	1	1	1	3	5
155°	1	1	1	1	2
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)