

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: P237840

Luminaire Tested: **4VT2-LD5-8-DR-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237840  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-11)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4VT2-LD5-8-DR-UNV-L840-CD1-WL-U  
Description: METALUX VT2 LED LUMINAIRE  
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION  
4FT FIXTURE  
Light Source: (224) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8229.9 lumens  
Efficiency: N/A  
Efficacy: 140.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4.17' x H: 0.17')  
CIE Type: Direct

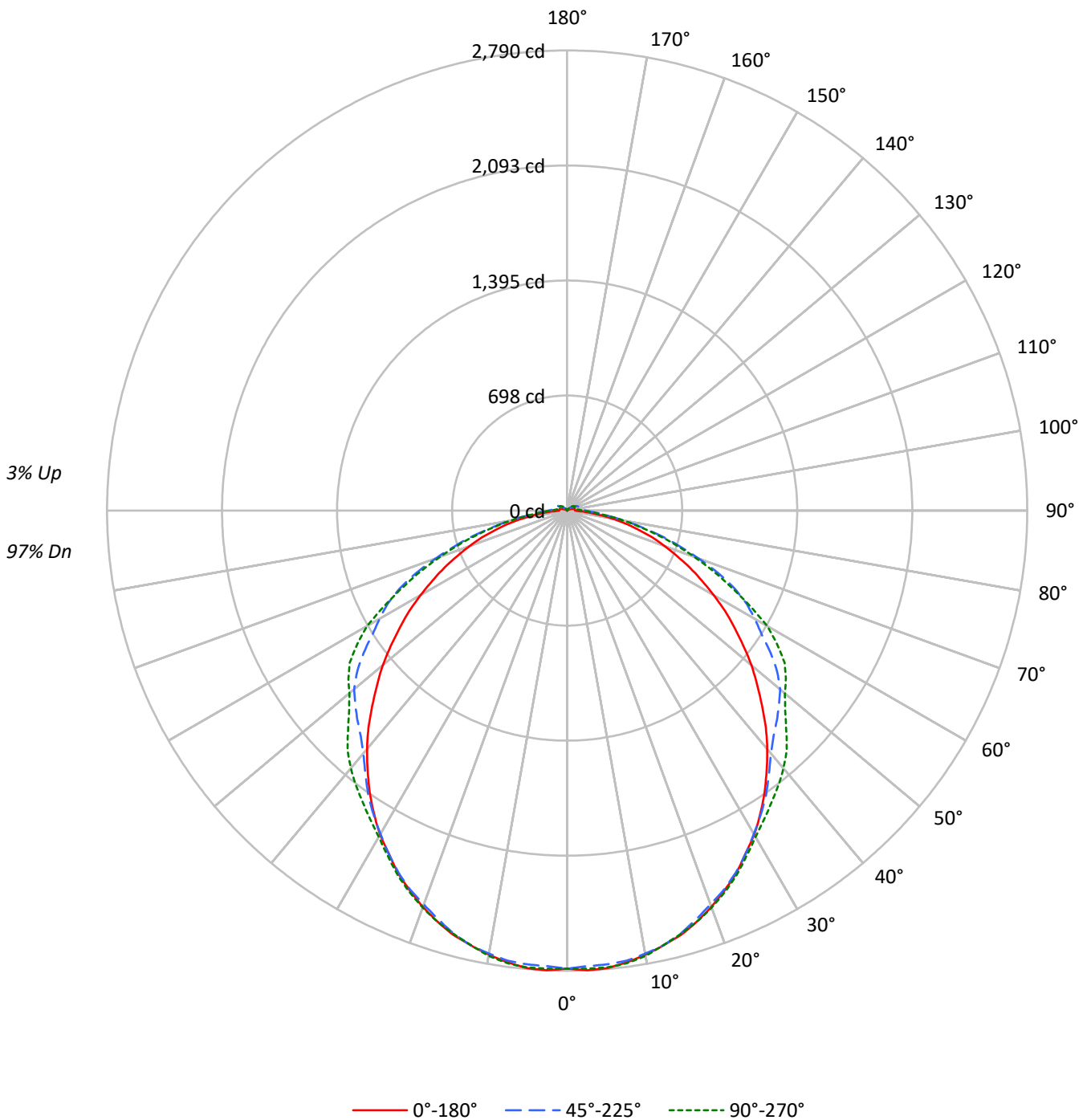
Input Watts (W): 58.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	81	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	65	57	52	62	56	51	59	54	50	47
5	75	62	52	46	72	60	52	45	58	50	45	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°	14348	14348	14348
5°	14394	14002	14010
10°	14243	13671	13587
15°	14098	13268	13052
20°	13857	12746	12562
25°	13577	12289	12019
30°	13231	11721	11427
35°	12799	11195	11046
40°	12314	10612	10752
45°	11733	10394	10292
50°	11194	10309	9912
55°	10558	9858	9819
60°	9915	9311	9172
65°	9255	8759	7821
70°	8561	7399	6466
75°	7747	5872	5008
80°	6669	4194	3572
85°	5044	2848	2157



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.7	3.2
10°-20°	750.9	9.1
20°-30°	1119.2	13.6
30°-40°	1324.0	16.1
40°-50°	1378.5	16.7
50°-60°	1296.8	15.8
60°-70°	1039.1	12.6
70°-80°	603.7	7.3
80°-90°	212.9	2.6
90°-100°	82.2	1.0
100°-110°	62.5	0.8
110°-120°	47.6	0.6
120°-130°	29.0	0.4
130°-140°	14.2	0.2
140°-150°	4.6	0.1
150°-160°	0.7	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	2133.8	25.9
0°-40°	3457.8	42.0
0°-60°	6133.0	74.5
0°-90°	7988.7	97.1
90°-120°	192.3	2.3
90°-150°	240.1	2.9
90°-180°	241.0	2.9
0°-180°	8229.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2777	2777	2777	2777	2777	
5°	2785	2773	2762	2786	2780	264
15°	2664	2673	2656	2661	2658	750
25°	2426	2434	2421	2439	2436	1116
35°	2086	2091	2103	2139	2160	1304
45°	1670	1687	1798	1886	1878	1290
55°	1239	1312	1507	1572	1609	1110
65°	822	1028	1122	1112	1097	814
75°	446	618	584	571	563	474
85°	124	189	193	186	175	132
90°	47	102	111	105	98	29
95°	48	75	84	73	67	39
105°	39	56	74	61	52	41
115°	20	36	64	57	50	20
125°	8	13	42	47	45	7
135°	3	3	20	31	33	3
145°	2	1	4	13	16	1
155°	1	1	1	1	2	0
165°	1	1	1	1	0	0
175°	2	2	1	1	1	0
180°	1	1	1	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2777	2777	2777	2777	2777
2.5°	2790	2780	2765	2785	2780
5°	2785	2773	2762	2786	2780
7.5°	2763	2761	2753	2773	2768
10°	2734	2740	2727	2743	2742
12.5°	2700	2715	2700	2704	2698
15°	2664	2673	2656	2661	2658
17.5°	2614	2627	2599	2624	2614
20°	2557	2570	2541	2569	2562
22.5°	2493	2505	2487	2507	2502
25°	2426	2434	2421	2439	2436
27.5°	2343	2362	2345	2367	2358
30°	2269	2276	2264	2291	2284
32.5°	2180	2185	2185	2209	2221
35°	2086	2091	2103	2139	2160
37.5°	1987	1998	2009	2080	2103
40°	1887	1895	1922	2025	2040
42.5°	1783	1791	1853	1966	1971
45°	1670	1687	1798	1886	1878
47.5°	1563	1584	1742	1784	1792
50°	1459	1483	1686	1702	1723
52.5°	1347	1393	1606	1628	1672
55°	1239	1312	1507	1572	1609
57.5°	1136	1231	1399	1500	1510
60°	1026	1162	1313	1399	1400
62.5°	921	1096	1228	1261	1247
65°	822	1028	1122	1112	1097
67.5°	721	941	991	969	959
70°	629	847	845	826	820
72.5°	541	730	710	693	688
75°	446	618	584	571	563
77.5°	360	502	456	451	445
80°	275	383	352	353	347
82.5°	190	275	258	256	249
85°	124	189	193	186	175
87.5°	67	132	141	136	128
90°	47	102	111	105	98
92.5°	47	86	94	85	79
95°	48	75	84	73	67
97.5°	48	68	78	66	59
100°	46	64	76	63	56
102.5°	43	60	75	61	54
105°	39	56	74	61	52
107.5°	34	52	73	60	52
110°	29	47	71	60	51



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	25	42	68	59	51
115°	20	36	64	57	50
117.5°	16	30	59	55	49
120°	13	24	54	53	48
122.5°	10	18	48	50	46
125°	8	13	42	47	45
127.5°	6	9	36	44	42
130°	5	5	30	40	39
132.5°	4	4	25	36	37
135°	3	3	20	31	33
137.5°	3	2	15	27	29
140°	2	2	11	22	24
142.5°	2	2	7	18	20
145°	2	1	4	13	16
147.5°	2	1	2	9	12
150°	1	1	1	6	8
152.5°	1	1	1	3	4
155°	1	1	1	1	2
157.5°	1	1	1	1	0
160°	1	1	1	1	0
162.5°	1	1	1	1	0
165°	1	1	1	1	0
167.5°	2	1	1	1	0
170°	2	1	1	1	0
172.5°	2	2	1	1	0
175°	2	2	1	1	1
177.5°	2	2	1	1	1
180°	1	1	1	1	1

(END OF REPORT)