

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: P237783

Luminaire Tested: **4VT2-LD5-6-DR-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237783  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-16)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4VT2-LD5-6-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: (112) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6197.0 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.33  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4.17' x H: 0.17')  
CIE Type: Direct

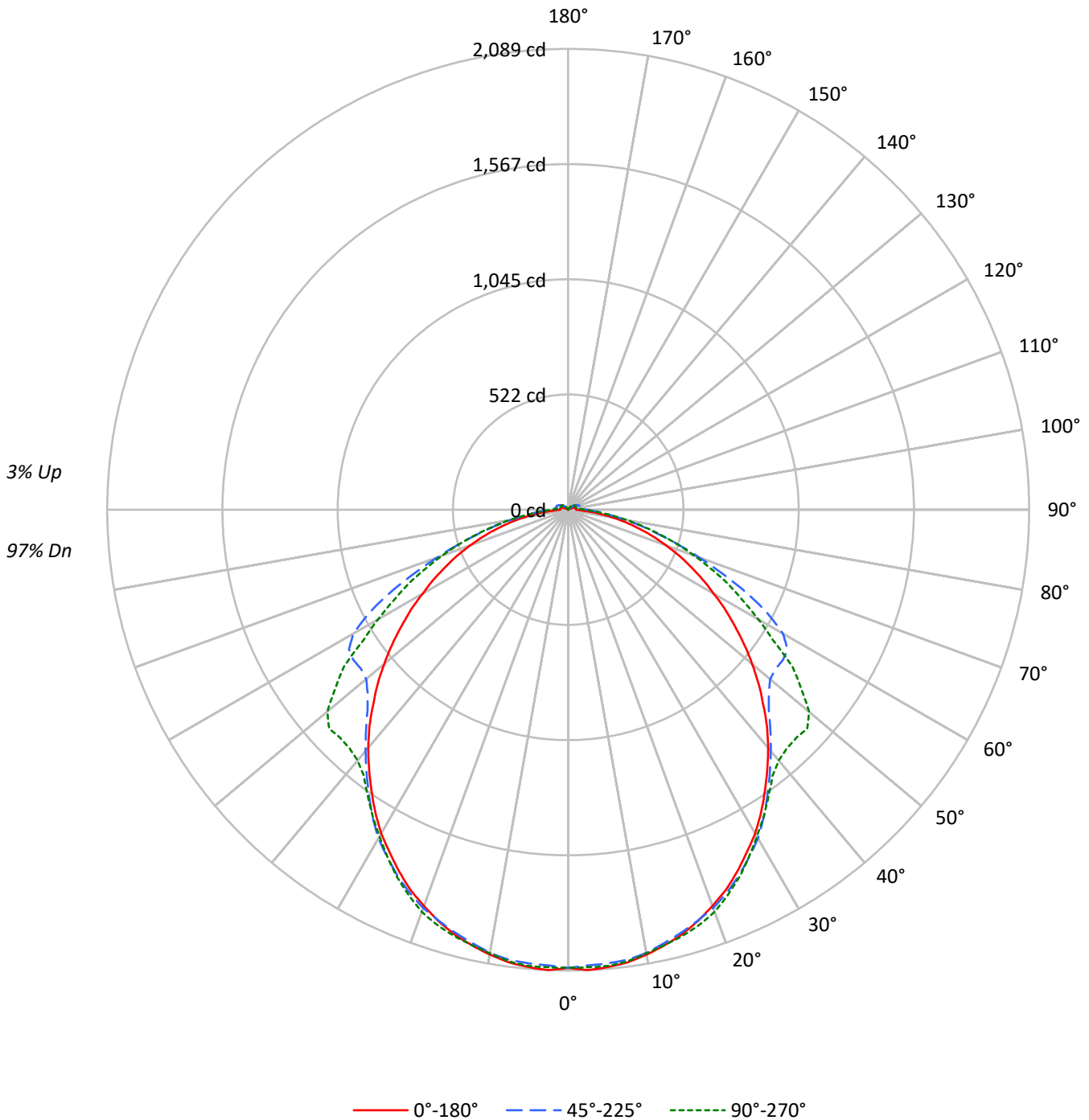
Input Watts (W): 50.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	55
4	81	69	60	53	79	67	59	53	64	57	51	62	56	50	59	54	49	47
5	75	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°	10731	10731	10731
5°	10755	10463	10462
10°	10669	10227	10118
15°	10547	9911	9821
20°	10356	9636	9513
25°	10135	9289	9064
30°	9878	8904	8555
35°	9535	8384	8095
40°	9201	7885	7821
45°	8782	7434	8012
50°	8347	7307	8198
55°	7865	7771	7573
60°	7364	7970	6525
65°	6902	6955	5718
70°	6411	5516	4778
75°	5801	4213	3799
80°	4996	3062	2769
85°	3824	2184	1762



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.1	3.2
10°-20°	563.1	9.1
20°-30°	841.8	13.6
30°-40°	986.2	15.9
40°-50°	1032.0	16.7
50°-60°	998.1	16.1
60°-70°	775.9	12.5
70°-80°	457.7	7.4
80°-90°	165.0	2.7
90°-100°	61.5	1.0
100°-110°	46.1	0.7
110°-120°	35.7	0.6
120°-130°	22.7	0.4
130°-140°	11.7	0.2
140°-150°	2.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1602.0	25.9
0°-40°	2588.2	41.8
0°-60°	4618.3	74.5
0°-90°	6017.0	97.1
90°-120°	143.3	2.3
90°-150°	180.0	2.9
90°-180°	180.0	2.9
0°-180°	6197.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2077	2077	2077	2077	2077	
5°	2081	2071	2064	2082	2076	198
15°	1993	1999	1984	2008	2000	561
25°	1811	1819	1830	1844	1837	834
35°	1554	1574	1575	1584	1583	973
45°	1250	1272	1286	1409	1462	965
55°	923	955	1188	1267	1241	827
65°	613	737	891	796	802	609
75°	334	499	419	424	427	355
85°	94	148	148	147	143	101
90°	36	77	85	81	76	22
95°	37	56	62	54	48	30
105°	30	44	54	43	37	31
115°	15	29	48	41	36	16
125°	6	11	33	36	34	6
135°	3	2	17	26	27	2
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°	2077	2077	2077	2077	2077
2.5°	2089	2079	2068	2081	2076
5°	2081	2071	2064	2082	2076
7.5°	2069	2062	2058	2073	2065
10°	2048	2045	2040	2055	2042
12.5°	2022	2025	2012	2029	2021
15°	1993	1999	1984	2008	2000
17.5°	1955	1962	1953	1983	1974
20°	1911	1915	1921	1942	1940
22.5°	1866	1869	1879	1895	1890
25°	1811	1819	1830	1844	1837
27.5°	1752	1764	1775	1786	1774
30°	1694	1700	1720	1719	1710
32.5°	1627	1642	1650	1647	1648
35°	1554	1574	1575	1584	1583
37.5°	1482	1504	1501	1518	1521
40°	1410	1425	1428	1458	1484
42.5°	1333	1348	1356	1419	1467
45°	1250	1272	1286	1409	1462
47.5°	1172	1192	1232	1409	1469
50°	1088	1112	1195	1406	1425
52.5°	1007	1031	1184	1363	1330
55°	923	955	1188	1267	1241
57.5°	845	890	1178	1152	1100
60°	762	828	1124	1024	996
62.5°	689	778	1020	902	892
65°	613	737	891	796	802
67.5°	544	700	756	699	703
70°	471	656	630	607	606
72.5°	403	593	520	513	516
75°	334	499	419	424	427
77.5°	271	403	336	342	342
80°	206	301	257	268	269
82.5°	148	215	196	202	197
85°	94	148	148	147	143
87.5°	53	102	108	107	102
90°	36	77	85	81	76
92.5°	36	65	71	64	59
95°	37	56	62	54	48
97.5°	36	52	58	48	42
100°	35	48	56	45	39
102.5°	33	46	55	43	37
105°	30	44	54	43	37
107.5°	26	41	54	43	37
110°	23	37	53	42	36



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	19	33	51	42	36
115°	15	29	48	41	36
117.5°	13	24	45	41	36
120°	10	20	42	39	35
122.5°	8	15	38	38	34
125°	6	11	33	36	34
127.5°	5	8	29	34	33
130°	4	5	25	32	31
132.5°	3	3	21	29	29
135°	3	2	17	26	27
137.5°	2	2	13	22	24
140°	2	2	10	19	21
142.5°	2	2	7	15	17
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
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)