

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: P237759

Luminaire Tested: **2VT2-LD5-5-FR50-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237759  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-3)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2VT2-LD5-5-FR50-UNV-L840-CD1-WL-U  
Description: METALUX VT2 LED LUMINAIRE  
FROSTED LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION  
2FT FIXTURE  
Light Source: (112) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5095.0 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')  
CIE Type: Direct

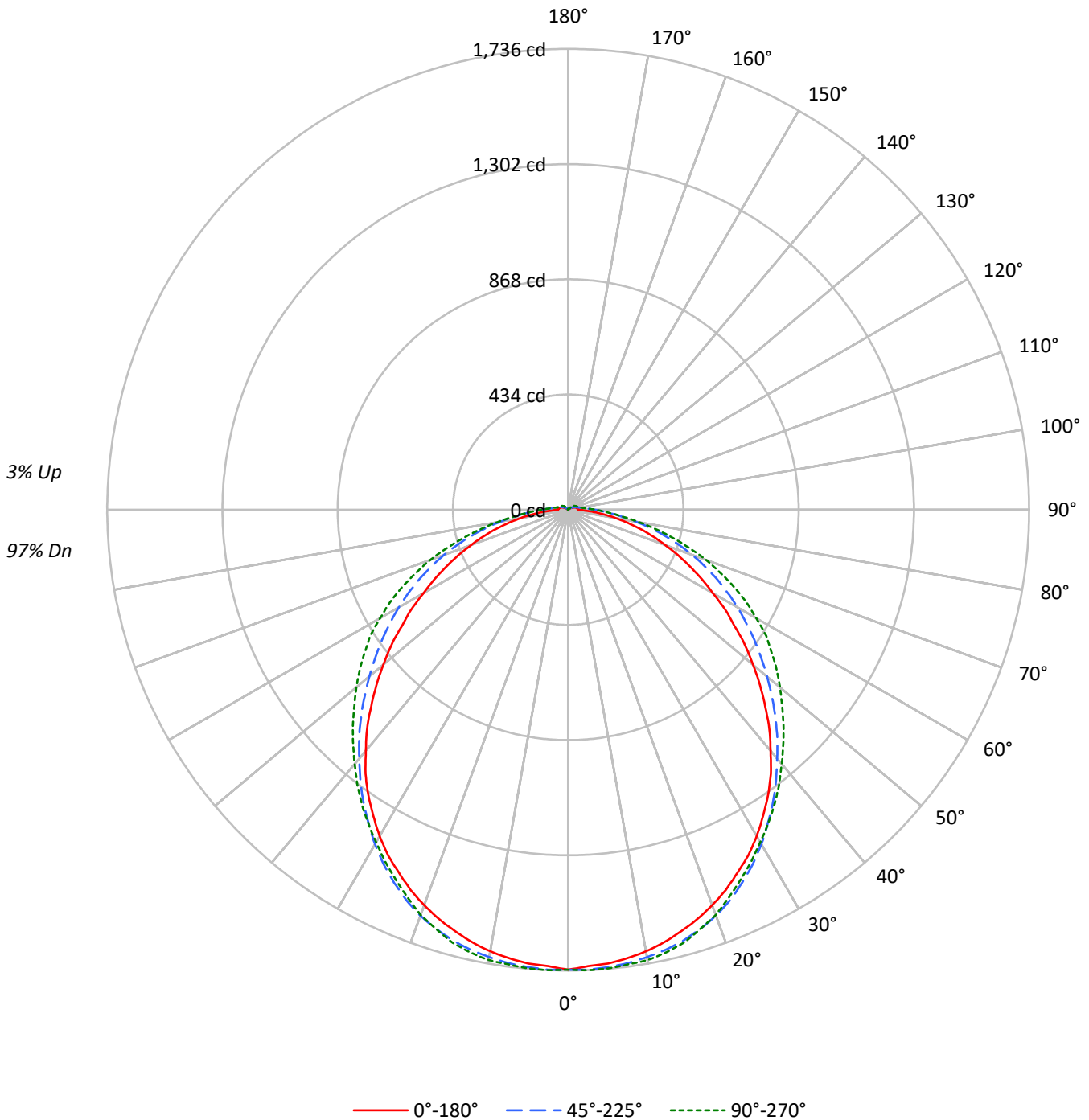
Input Watts (W): 39  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	110	110	110	104	104	104	99	99	99	99	99	99	97	
1	107	102	98	94	104	100	96	92	95	92	89	91	88	85	87	84	82	87	84	82	80	
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69	76	72	69	66	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	67	62	58	56	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	60	54	50	60	54	50	47	
5	75	62	53	46	72	60	52	46	58	51	45	56	49	44	54	48	43	54	48	43	41	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	49	43	38	49	43	38	36	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	44	38	34	32	
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	41	35	30	28	
9	56	42	34	28	54	42	34	28	40	33	28	39	32	28	38	32	27	38	32	27	26	
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	35	29	25	23	

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

	0°	45°	90°
0°	17907	17907	17907
5°	17678	17494	17483
10°	17480	17075	17074
15°	17220	16661	16574
20°	16943	16176	15927
25°	16582	15557	15167
30°	16193	14854	14475
35°	15681	14079	13853
40°	14984	13258	13184
45°	14205	12478	12570
50°	13344	11658	11982
55°	12372	10875	11403
60°	11428	10108	10706
65°	10554	9286	9835
70°	9620	8333	8713
75°	8649	7130	7209
80°	7471	5773	5583
85°	5908	4482	4087



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.3	3.2
10°-20°	471.8	9.3
20°-30°	708.4	13.9
30°-40°	839.2	16.5
40°-50°	852.1	16.7
50°-60°	764.9	15.0
60°-70°	600.8	11.8
70°-80°	380.6	7.5
80°-90°	168.3	3.3
90°-100°	64.7	1.3
100°-110°	36.2	0.7
110°-120°	23.4	0.5
120°-130°	13.2	0.3
130°-140°	5.6	0.1
140°-150°	1.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1344.5	26.4
0°-40°	2183.7	42.9
0°-60°	3800.8	74.6
0°-90°	4950.5	97.2
90°-120°	124.3	2.4
90°-150°	144.4	2.8
90°-180°	144.0	2.8
0°-180°	5095.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1733	1733	1733	1733	1733	
5°	1716	1723	1730	1735	1735	163
15°	1644	1658	1679	1689	1688	464
25°	1509	1535	1550	1542	1537	696
35°	1313	1341	1344	1350	1354	819
45°	1050	1082	1103	1134	1147	810
55°	765	799	856	914	934	688
65°	506	534	618	675	690	502
75°	281	313	373	405	405	298
85°	95	129	164	171	166	96
90°	40	72	100	104	102	25
95°	35	44	64	67	65	29
105°	30	25	35	40	38	32
115°	18	15	23	30	32	19
125°	8	5	13	22	23	9
135°	3	3	5	12	13	3
145°	2	2	0	3	5	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°	1732.9	1732.9	1732.9	1732.9	1732.9
2.5°	1721.2	1726.3	1734.6	1736.3	1736.3
5°	1716.2	1722.9	1729.6	1734.6	1734.6
7.5°	1704.5	1711.2	1722.9	1727.9	1727.9
10°	1689.4	1697.8	1711.2	1721.2	1722.9
12.5°	1669.3	1679.4	1697.8	1707.8	1707.8
15°	1644.2	1657.6	1679.4	1689.4	1687.7
17.5°	1617.4	1632.5	1655.9	1661.0	1655.9
20°	1585.6	1604.0	1627.5	1630.8	1624.1
22.5°	1550.4	1572.2	1592.3	1587.3	1580.6
25°	1508.6	1535.4	1550.4	1542.1	1537.0
27.5°	1468.4	1493.5	1505.2	1495.2	1493.5
30°	1419.8	1448.3	1455.0	1448.3	1446.6
32.5°	1366.3	1399.8	1399.8	1399.8	1401.4
35°	1312.7	1341.2	1344.5	1349.5	1354.5
37.5°	1254.1	1282.5	1285.9	1299.3	1304.3
40°	1185.4	1217.2	1223.9	1244.0	1250.7
42.5°	1121.8	1150.3	1165.3	1190.5	1198.8
45°	1049.8	1081.6	1103.4	1133.5	1146.9
47.5°	979.5	1011.3	1039.8	1078.3	1091.7
50°	909.2	941.0	977.8	1023.0	1041.4
52.5°	840.5	867.3	915.9	969.4	989.5
55°	765.2	798.7	855.6	914.2	934.3
57.5°	701.6	728.3	795.3	858.9	884.1
60°	629.6	659.7	736.7	800.3	817.1
62.5°	567.6	597.7	676.4	740.1	756.8
65°	505.7	534.1	617.8	674.8	689.8
67.5°	447.1	478.9	555.9	612.8	619.5
70°	388.4	421.9	497.3	545.8	552.5
72.5°	334.9	366.7	435.3	475.5	477.2
75°	281.3	313.1	373.4	405.2	405.2
77.5°	229.4	262.9	314.8	339.9	336.5
80°	182.5	212.6	257.8	271.2	271.2
82.5°	135.6	167.4	205.9	219.3	212.6
85°	95.4	128.9	164.1	170.8	165.8
87.5°	62.0	97.1	127.3	132.3	128.9
90°	40.2	72.0	100.5	103.8	102.1
92.5°	36.8	55.3	78.7	82.0	80.4
95°	35.2	43.5	63.6	67.0	65.3
97.5°	35.2	36.8	53.6	56.9	55.3
100°	33.5	31.8	45.2	48.6	46.9
102.5°	33.5	28.5	40.2	43.5	41.9
105°	30.1	25.1	35.2	40.2	38.5
107.5°	28.5	21.8	31.8	36.8	36.8
110°	25.1	18.4	28.5	35.2	35.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	21.8	16.7	26.8	33.5	33.5
115°	18.4	15.1	23.4	30.1	31.8
117.5°	15.1	11.7	20.1	28.5	30.1
120°	13.4	10.0	18.4	26.8	28.5
122.5°	11.7	8.4	16.7	23.4	26.8
125°	8.4	5.0	13.4	21.8	23.4
127.5°	8.4	5.0	11.7	18.4	21.8
130°	6.7	5.0	10.0	16.7	18.4
132.5°	5.0	3.3	6.7	13.4	16.7
135°	3.3	3.3	5.0	11.7	13.4
137.5°	3.3	1.7	3.3	10.0	11.7
140°	1.7	1.7	1.7	6.7	8.4
142.5°	1.7	1.7	0.0	5.0	6.7
145°	1.7	1.7	0.0	3.3	5.0
147.5°	1.7	1.7	0.0	1.7	3.3
150°	1.7	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)