

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: P237756

Luminaire Tested: **2VT2-LD5-4-FR50-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237756  
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-LD5-4-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: 4012.0 lumens  
Efficiency: N/A  
Efficacy: 138.8 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

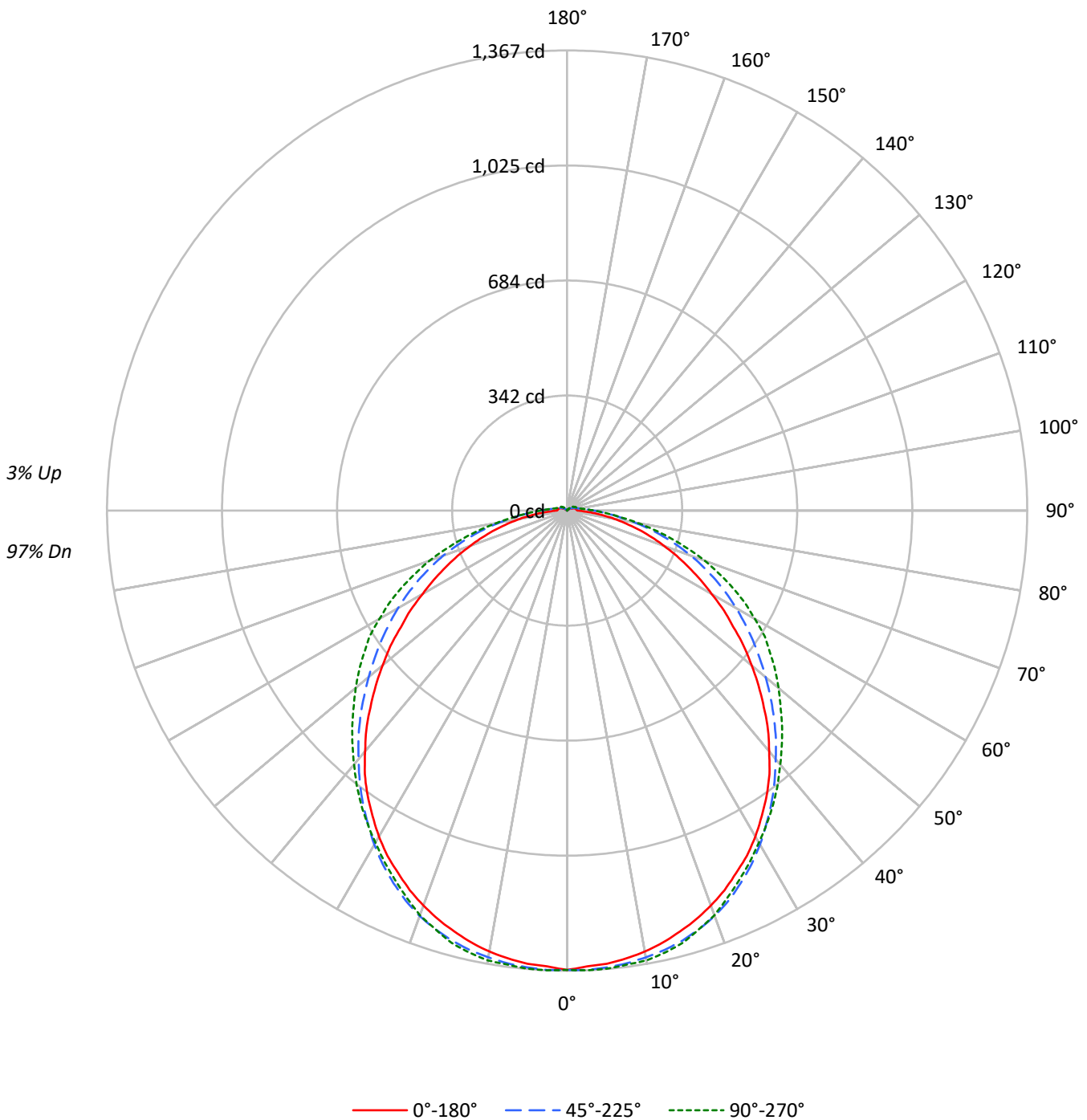
Input Watts (W): 28.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	104	104	99	99	99	97
1	107	102	98	94	104	100	96	92	95	92	89	91	88	85	87	84	82	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	69	62	73	66	61	70	64	59	67	62	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	60	54	50	47
5	75	62	53	46	72	60	52	46	58	51	45	56	49	44	54	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	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°	14101	14101	14101
5°	13920	13776	13767
10°	13764	13446	13445
15°	13560	13119	13052
20°	13342	12737	12542
25°	13057	12251	11943
30°	12751	11697	11398
35°	12348	11086	10909
40°	11800	10440	10382
45°	11186	9826	9898
50°	10507	9181	9436
55°	9741	8563	8979
60°	8998	7959	8430
65°	8311	7312	7745
70°	7577	6562	6862
75°	6810	5614	5677
80°	5882	4546	4398
85°	4657	3529	3217



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.4	3.2
10°-20°	371.5	9.3
20°-30°	557.9	13.9
30°-40°	660.8	16.5
40°-50°	671.0	16.7
50°-60°	602.3	15.0
60°-70°	473.1	11.8
70°-80°	299.7	7.5
80°-90°	132.5	3.3
90°-100°	50.9	1.3
100°-110°	28.5	0.7
110°-120°	18.4	0.5
120°-130°	10.4	0.3
130°-140°	4.4	0.1
140°-150°	1.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1058.7	26.4
0°-40°	1719.6	42.9
0°-60°	2992.9	74.6
0°-90°	3898.3	97.2
90°-120°	97.8	2.4
90°-150°	113.7	2.8
90°-180°	114.0	2.8
0°-180°	4012.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1365	1365	1365	1365	1365	
5°	1351	1357	1362	1366	1366	128
15°	1295	1305	1322	1330	1329	365
25°	1188	1209	1221	1214	1210	548
35°	1034	1056	1059	1063	1067	645
45°	827	852	869	893	903	638
55°	602	629	674	720	736	541
65°	398	421	486	531	543	395
75°	222	246	294	319	319	235
85°	75	102	129	134	130	76
90°	32	57	79	82	80	19
95°	28	34	50	53	51	23
105°	24	20	28	32	30	25
115°	14	12	18	24	25	15
125°	7	4	10	17	18	7
135°	3	3	4	9	10	2
145°	1	1	0	3	4	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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CATALOG NUMBER: 2VT2-LD5-4-FR50-UNV-L840-CD1-WL-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1364.6	1364.6	1364.6	1364.6	1364.6
2.5°	1355.4	1359.3	1365.9	1367.2	1367.2
5°	1351.4	1356.7	1362.0	1365.9	1365.9
7.5°	1342.2	1347.5	1356.7	1360.6	1360.6
10°	1330.3	1336.9	1347.5	1355.4	1356.7
12.5°	1314.5	1322.4	1336.9	1344.8	1344.8
15°	1294.7	1305.3	1322.4	1330.3	1329.0
17.5°	1273.6	1285.5	1303.9	1307.9	1303.9
20°	1248.6	1263.1	1281.5	1284.2	1278.9
22.5°	1220.9	1238.0	1253.8	1249.9	1244.6
25°	1187.9	1209.0	1220.9	1214.3	1210.3
27.5°	1156.3	1176.1	1185.3	1177.4	1176.1
30°	1118.0	1140.5	1145.7	1140.5	1139.1
32.5°	1075.9	1102.2	1102.2	1102.2	1103.5
35°	1033.7	1056.1	1058.7	1062.7	1066.6
37.5°	987.5	1009.9	1012.6	1023.1	1027.1
40°	933.5	958.5	963.8	979.6	984.9
42.5°	883.4	905.8	917.6	937.4	944.0
45°	826.7	851.7	868.9	892.6	903.1
47.5°	771.3	796.3	818.8	849.1	859.6
50°	715.9	741.0	770.0	805.6	820.1
52.5°	661.9	683.0	721.2	763.4	779.2
55°	602.5	628.9	673.7	719.9	735.7
57.5°	552.4	573.5	626.3	676.4	696.1
60°	495.7	519.5	580.1	630.2	643.4
62.5°	447.0	470.7	532.7	582.8	595.9
65°	398.2	420.6	486.5	531.3	543.2
67.5°	352.0	377.1	437.7	482.6	487.8
70°	305.9	332.2	391.6	429.8	435.1
72.5°	263.7	288.7	342.8	374.4	375.8
75°	221.5	246.5	294.0	319.1	319.1
77.5°	180.6	207.0	247.9	267.6	265.0
80°	143.7	167.4	203.0	213.6	213.6
82.5°	106.8	131.8	162.2	172.7	167.4
85°	75.2	101.5	129.2	134.5	130.5
87.5°	48.8	76.5	100.2	104.2	101.5
90°	31.6	56.7	79.1	81.7	80.4
92.5°	29.0	43.5	62.0	64.6	63.3
95°	27.7	34.3	50.1	52.7	51.4
97.5°	27.7	29.0	42.2	44.8	43.5
100°	26.4	25.1	35.6	38.2	36.9
102.5°	26.4	22.4	31.6	34.3	33.0
105°	23.7	19.8	27.7	31.6	30.3
107.5°	22.4	17.1	25.1	29.0	29.0
110°	19.8	14.5	22.4	27.7	27.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	17.1	13.2	21.1	26.4	26.4
115°	14.5	11.9	18.5	23.7	25.1
117.5°	11.9	9.2	15.8	22.4	23.7
120°	10.5	7.9	14.5	21.1	22.4
122.5°	9.2	6.6	13.2	18.5	21.1
125°	6.6	4.0	10.5	17.1	18.5
127.5°	6.6	4.0	9.2	14.5	17.1
130°	5.3	4.0	7.9	13.2	14.5
132.5°	4.0	2.6	5.3	10.5	13.2
135°	2.6	2.6	4.0	9.2	10.5
137.5°	2.6	1.3	2.6	7.9	9.2
140°	1.3	1.3	1.3	5.3	6.6
142.5°	1.3	1.3	0.0	4.0	5.3
145°	1.3	1.3	0.0	2.6	4.0
147.5°	1.3	1.3	0.0	1.3	2.6
150°	1.3	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)