

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: P237781

Luminaire Tested: **4VT2-LD5-4-DR-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237781  
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-LD5-4-DR-UNV-L850-CD1-WL-U  
Description: METALUX VT2 LED LUMINAIRE  
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION  
4FT FIXTURE  
Light Source: (112) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4389.0 lumens  
Efficiency: N/A  
Efficacy: 146.8 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

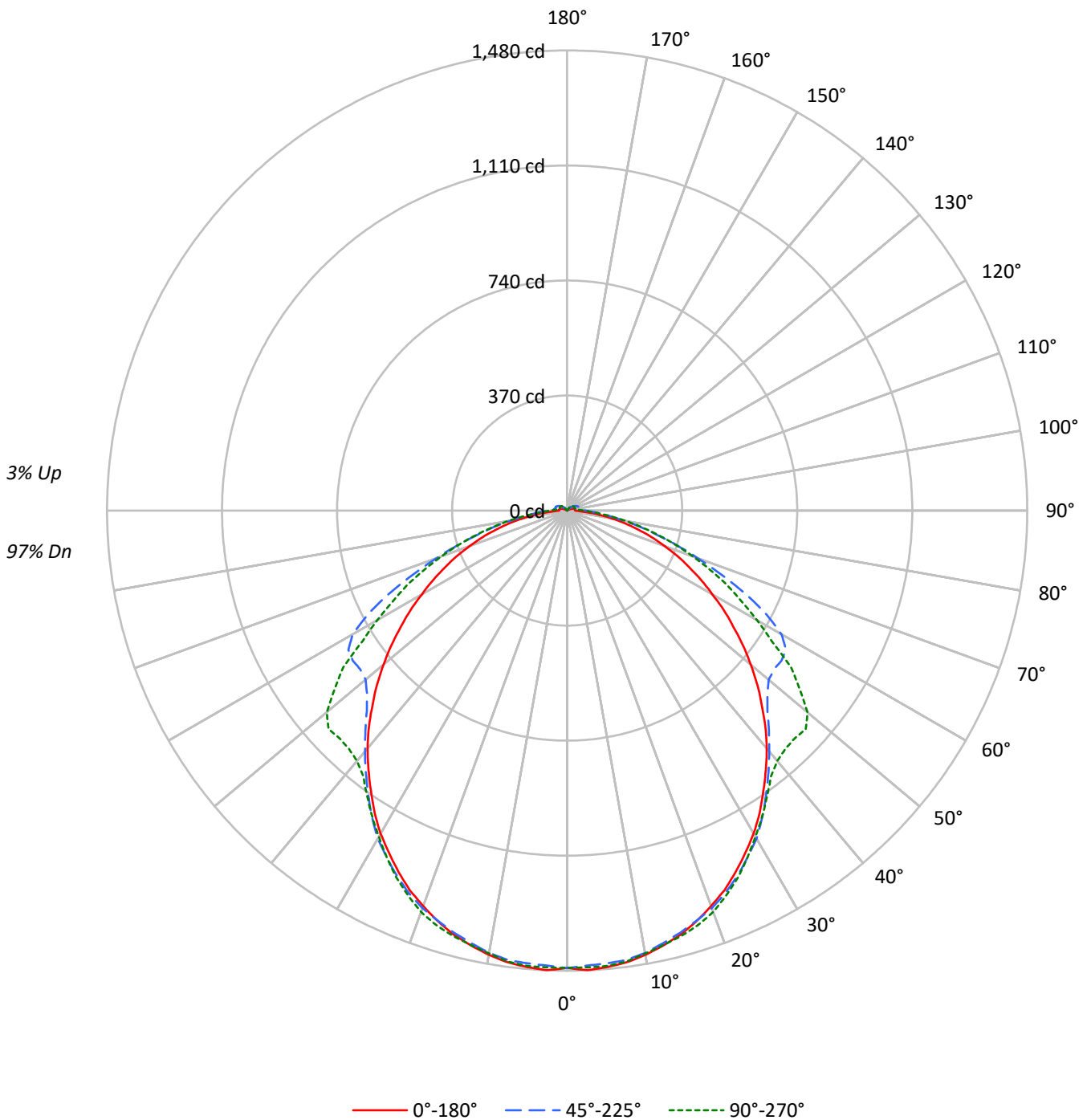
Input Watts (W): 29.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	7600	7600	7600
5°	7618	7410	7410
10°	7557	7243	7166
15°	7470	7020	6956
20°	7335	6825	6737
25°	7178	6579	6419
30°	6996	6307	6059
35°	6753	5938	5734
40°	6516	5584	5539
45°	6220	5265	5675
50°	5912	5175	5806
55°	5570	5504	5364
60°	5216	5645	4621
65°	4889	4926	4049
70°	4540	3907	3384
75°	4110	2985	2690
80°	3538	2169	1961
85°	2709	1546	1248



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.6	3.2
10°-20°	398.8	9.1
20°-30°	596.2	13.6
30°-40°	698.4	15.9
40°-50°	730.9	16.7
50°-60°	706.9	16.1
60°-70°	549.6	12.5
70°-80°	324.2	7.4
80°-90°	116.8	2.7
90°-100°	43.6	1.0
100°-110°	32.6	0.7
110°-120°	25.3	0.6
120°-130°	16.1	0.4
130°-140°	8.3	0.2
140°-150°	1.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1134.6	25.9
0°-40°	1833.1	41.8
0°-60°	3270.9	74.5
0°-90°	4261.5	97.1
90°-120°	101.5	2.3
90°-150°	127.5	2.9
90°-180°	127.0	2.9
0°-180°	4389.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1471	1471	1471	1471	1471	
5°	1474	1467	1462	1475	1470	140
15°	1412	1416	1405	1422	1416	398
25°	1283	1288	1296	1306	1301	591
35°	1101	1115	1116	1122	1121	689
45°	885	901	911	998	1036	684
55°	654	676	841	897	879	586
65°	434	522	631	564	568	432
75°	237	353	297	300	302	251
85°	67	105	105	104	101	72
90°	26	54	60	57	54	16
95°	26	40	44	38	34	21
105°	21	31	38	30	26	22
115°	11	20	34	29	26	11
125°	4	8	23	26	24	4
135°	2	1	12	18	19	2
145°	0	0	0	0	0	0
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: 4VT2-LD5-4-DR-UNV-L850-CD1-WL-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1471.0	1471.0	1471.0	1471.0	1471.0
2.5°	1479.5	1472.5	1464.7	1473.9	1470.3
5°	1473.9	1466.8	1461.8	1474.6	1470.3
7.5°	1465.4	1460.4	1457.6	1468.2	1462.5
10°	1450.5	1448.4	1444.8	1455.5	1446.2
12.5°	1432.1	1434.2	1425.0	1437.0	1431.4
15°	1411.5	1415.8	1405.2	1422.2	1416.5
17.5°	1384.6	1389.6	1383.2	1404.5	1398.1
20°	1353.5	1356.3	1360.5	1375.4	1374.0
22.5°	1321.6	1323.7	1330.8	1342.1	1338.6
25°	1282.6	1288.3	1296.1	1306.0	1301.1
27.5°	1240.9	1249.4	1257.1	1264.9	1256.4
30°	1199.8	1204.0	1218.2	1217.5	1211.1
32.5°	1152.3	1162.9	1168.6	1166.5	1167.2
35°	1100.6	1114.8	1115.5	1121.9	1121.2
37.5°	1049.6	1065.2	1063.1	1075.1	1077.2
40°	998.6	1009.3	1011.4	1032.6	1051.0
42.5°	944.1	954.7	960.4	1005.0	1039.0
45°	885.3	900.9	910.8	997.9	1035.5
47.5°	830.1	844.2	872.6	997.9	1040.4
50°	770.6	787.6	846.4	995.8	1009.3
52.5°	713.2	730.2	838.6	965.3	942.0
55°	653.7	676.4	841.4	897.4	878.9
57.5°	598.5	630.3	834.3	815.9	779.1
60°	539.7	586.4	796.1	725.2	705.4
62.5°	488.0	551.0	722.4	638.8	631.8
65°	434.2	522.0	631.1	563.8	568.0
67.5°	385.3	495.8	535.4	495.1	497.9
70°	333.6	464.6	446.2	429.9	429.2
72.5°	285.4	420.0	368.3	363.3	365.5
75°	236.6	353.4	296.8	300.3	302.4
77.5°	191.9	285.4	238.0	242.2	242.2
80°	145.9	213.2	182.0	189.8	190.5
82.5°	104.8	152.3	138.8	143.1	139.5
85°	66.6	104.8	104.8	104.1	101.3
87.5°	37.5	72.2	76.5	75.8	72.2
90°	25.5	54.5	60.2	57.4	53.8
92.5°	25.5	46.0	50.3	45.3	41.8
95°	26.2	39.7	43.9	38.2	34.0
97.5°	25.5	36.8	41.1	34.0	29.7
100°	24.8	34.0	39.7	31.9	27.6
102.5°	23.4	32.6	39.0	30.5	26.2
105°	21.2	31.2	38.2	30.5	26.2
107.5°	18.4	29.0	38.2	30.5	26.2
110°	16.3	26.2	37.5	29.7	25.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	13.5	23.4	36.1	29.7	25.5
115°	10.6	20.5	34.0	29.0	25.5
117.5°	9.2	17.0	31.9	29.0	25.5
120°	7.1	14.2	29.7	27.6	24.8
122.5°	5.7	10.6	26.9	26.9	24.1
125°	4.2	7.8	23.4	25.5	24.1
127.5°	3.5	5.7	20.5	24.1	23.4
130°	2.8	3.5	17.7	22.7	22.0
132.5°	2.1	2.1	14.9	20.5	20.5
135°	2.1	1.4	12.0	18.4	19.1
137.5°	1.4	1.4	9.2	15.6	17.0
140°	1.4	1.4	7.1	13.5	14.9
142.5°	1.4	1.4	5.0	10.6	12.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	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)