

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: P237738

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237738  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2VT2-LD5-4-DR-UNV-L840-CD1-WL-U  
Description: METALUX VT2 LED LUMINAIRE  
INTERNAL PRISMATIC 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: 4075.0 lumens  
Efficiency: N/A  
Efficacy: 141.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')  
CIE Type: Direct

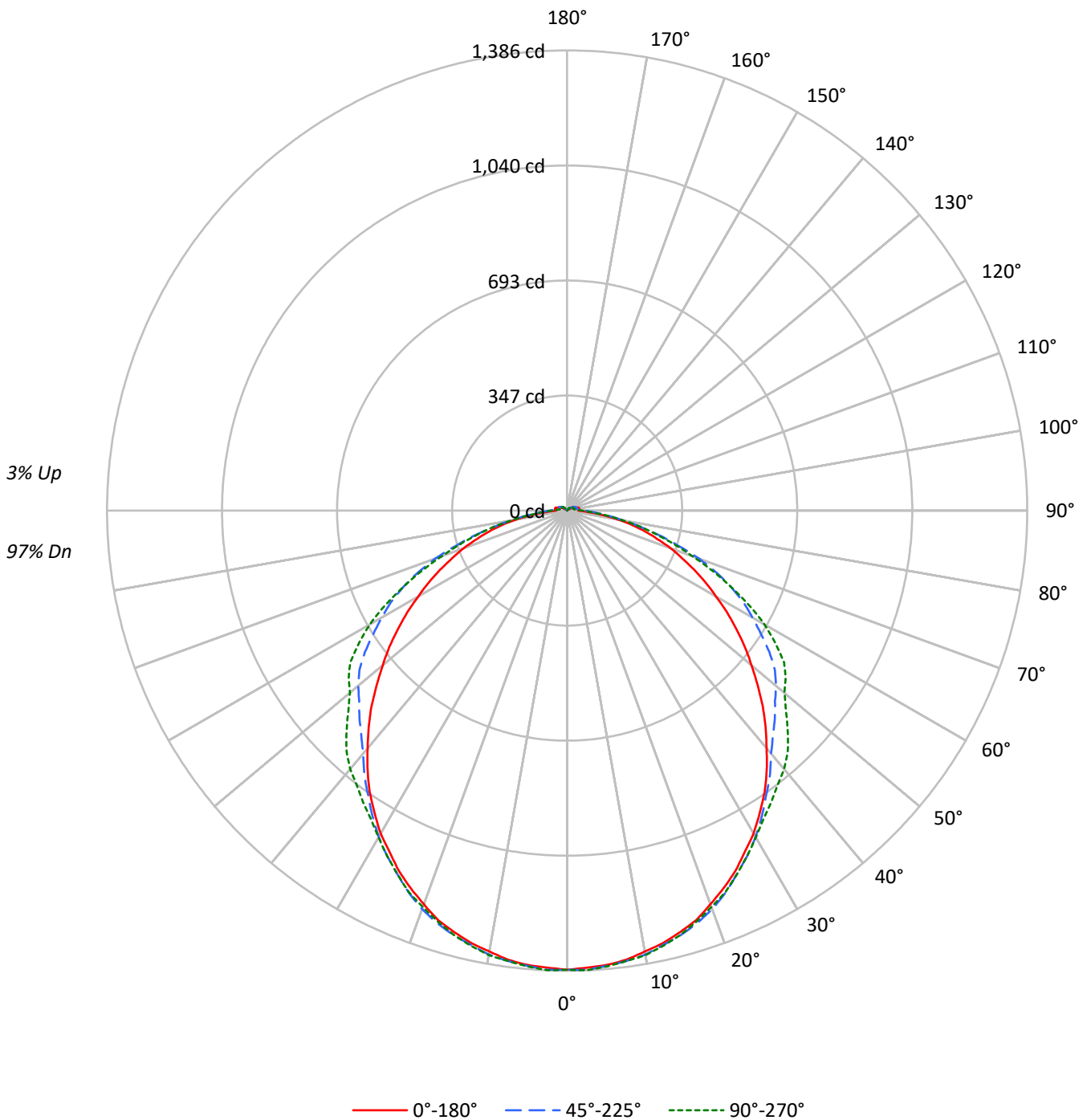
Input Watts (W): 28.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100	100	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	78	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	56	49	44	53	48	43	41
6	69	55	46	40	67	54	46	40	52	45	39	50	44	38	48	42	38	36
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	34	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	37	31	27	25
10	52	39	31	25	51	38	31	25	37	30	25	36	29	25	35	29	25	23

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

	0°	45°	90°
0°	14291	14291	14291
5°	14151	13921	13886
10°	13955	13551	13471
15°	13766	13132	12987
20°	13482	12697	12463
25°	13172	12131	11930
30°	12811	11588	11372
35°	12379	10948	10963
40°	11815	10354	10715
45°	11274	10003	10303
50°	10642	9793	9829
55°	10062	9451	9735
60°	9404	8846	9000
65°	8805	8184	7764
70°	8228	7070	6321
75°	7499	5488	4973
80°	6369	3838	3502
85°	4571	2557	2144



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.8	3.2
10°-20°	372.6	9.1
20°-30°	556.0	13.6
30°-40°	658.1	16.1
40°-50°	683.4	16.8
50°-60°	639.8	15.7
60°-70°	512.2	12.6
70°-80°	302.4	7.4
80°-90°	108.9	2.7
90°-100°	39.3	1.0
100°-110°	28.9	0.7
110°-120°	21.9	0.5
120°-130°	13.2	0.3
130°-140°	6.3	0.2
140°-150°	1.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1059.4	26.0
0°-40°	1717.5	42.1
0°-60°	3040.7	74.6
0°-90°	3964.2	97.3
90°-120°	90.2	2.2
90°-150°	110.8	2.7
90°-180°	111.0	2.7
0°-180°	4075.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1383	1383	1383	1383	1383	
5°	1374	1375	1376	1380	1378	130
15°	1314	1314	1324	1329	1322	371
25°	1198	1206	1209	1212	1209	551
35°	1036	1042	1046	1061	1072	647
45°	833	838	885	937	940	642
55°	622	641	744	775	798	557
65°	422	498	544	554	544	419
75°	244	311	287	282	280	257
85°	74	102	94	91	87	78
90°	33	54	51	48	46	20
95°	34	38	36	30	29	29
105°	34	30	29	24	20	35
115°	20	21	26	22	20	20
125°	9	9	17	18	18	8
135°	4	3	8	12	13	3
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°	1383.0	1383.0	1383.0	1383.0	1383.0
2.5°	1377.7	1381.7	1384.3	1387.0	1385.6
5°	1373.8	1375.1	1376.4	1380.4	1377.7
7.5°	1364.5	1364.5	1368.5	1372.5	1368.5
10°	1348.7	1350.0	1358.0	1364.5	1359.3
12.5°	1334.2	1335.5	1339.5	1351.4	1342.1
15°	1314.4	1314.4	1323.7	1329.0	1322.4
17.5°	1293.4	1293.4	1302.6	1303.9	1297.3
20°	1261.7	1264.3	1277.5	1273.6	1270.9
22.5°	1231.4	1235.3	1245.9	1247.2	1244.6
25°	1198.4	1206.3	1209.0	1211.6	1209.0
27.5°	1158.9	1169.4	1173.4	1172.1	1173.4
30°	1123.3	1129.9	1135.1	1136.5	1136.5
32.5°	1079.8	1086.4	1091.6	1096.9	1100.9
35°	1036.3	1041.5	1045.5	1061.3	1071.9
37.5°	987.5	995.4	1003.3	1029.7	1041.5
40°	934.7	942.7	955.8	998.0	1016.5
42.5°	884.6	891.2	917.6	973.0	983.5
45°	833.2	838.5	884.6	937.4	940.0
47.5°	777.9	785.8	849.1	889.9	893.9
50°	725.1	737.0	821.4	845.1	854.3
52.5°	675.0	688.2	788.4	805.5	829.3
55°	622.3	640.7	743.6	775.2	797.6
57.5°	570.9	602.5	692.2	735.7	743.6
60°	518.1	565.6	644.7	685.6	686.9
62.5°	470.7	531.3	598.6	621.0	618.3
65°	421.9	498.4	544.5	553.7	544.5
67.5°	374.4	462.8	485.2	477.3	474.6
70°	332.2	416.6	421.9	404.7	400.8
72.5°	284.8	363.9	349.4	342.8	338.8
75°	243.9	311.1	287.4	282.1	279.5
77.5°	200.4	254.5	224.1	226.8	226.8
80°	155.6	197.8	171.4	174.0	170.1
82.5°	113.4	145.0	130.5	129.2	125.2
85°	73.8	101.5	93.6	91.0	87.0
87.5°	44.8	71.2	68.6	65.9	63.3
90°	33.0	54.1	51.4	47.5	46.1
92.5°	33.0	44.8	42.2	38.2	35.6
95°	34.3	38.2	35.6	30.3	29.0
97.5°	36.9	35.6	31.6	27.7	25.0
100°	36.9	33.0	30.3	25.0	22.4
102.5°	35.6	31.6	29.0	23.7	21.1
105°	34.3	30.3	29.0	23.7	19.8
107.5°	30.3	29.0	29.0	22.4	19.8
110°	27.7	26.4	27.7	22.4	19.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	23.7	23.7	27.7	22.4	19.8
115°	19.8	21.1	26.4	22.4	19.8
117.5°	17.1	17.1	23.7	21.1	19.8
120°	13.2	14.5	22.4	21.1	18.5
122.5°	10.5	11.9	19.8	19.8	18.5
125°	9.2	9.2	17.1	18.5	18.5
127.5°	6.6	6.6	14.5	17.1	17.1
130°	5.3	5.3	13.2	15.8	15.8
132.5°	5.3	4.0	10.5	14.5	14.5
135°	4.0	2.6	7.9	11.9	13.2
137.5°	2.6	2.6	6.6	10.5	11.9
140°	2.6	2.6	4.0	7.9	9.2
142.5°	2.6	1.3	2.6	6.6	7.9
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)