

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: P237748

Luminaire Tested: **2VT2-LD5-4-DR100-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237748  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2VT2-LD5-4-DR100-UNV-L850-CD1-WL-U  
Description: METALUX VT2 LED LUMINAIRE  
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION  
2FT FIXTURE  
Light Source: (112) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4297.1 lumens  
Efficiency: N/A  
Efficacy: 148.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')  
CIE Type: Direct

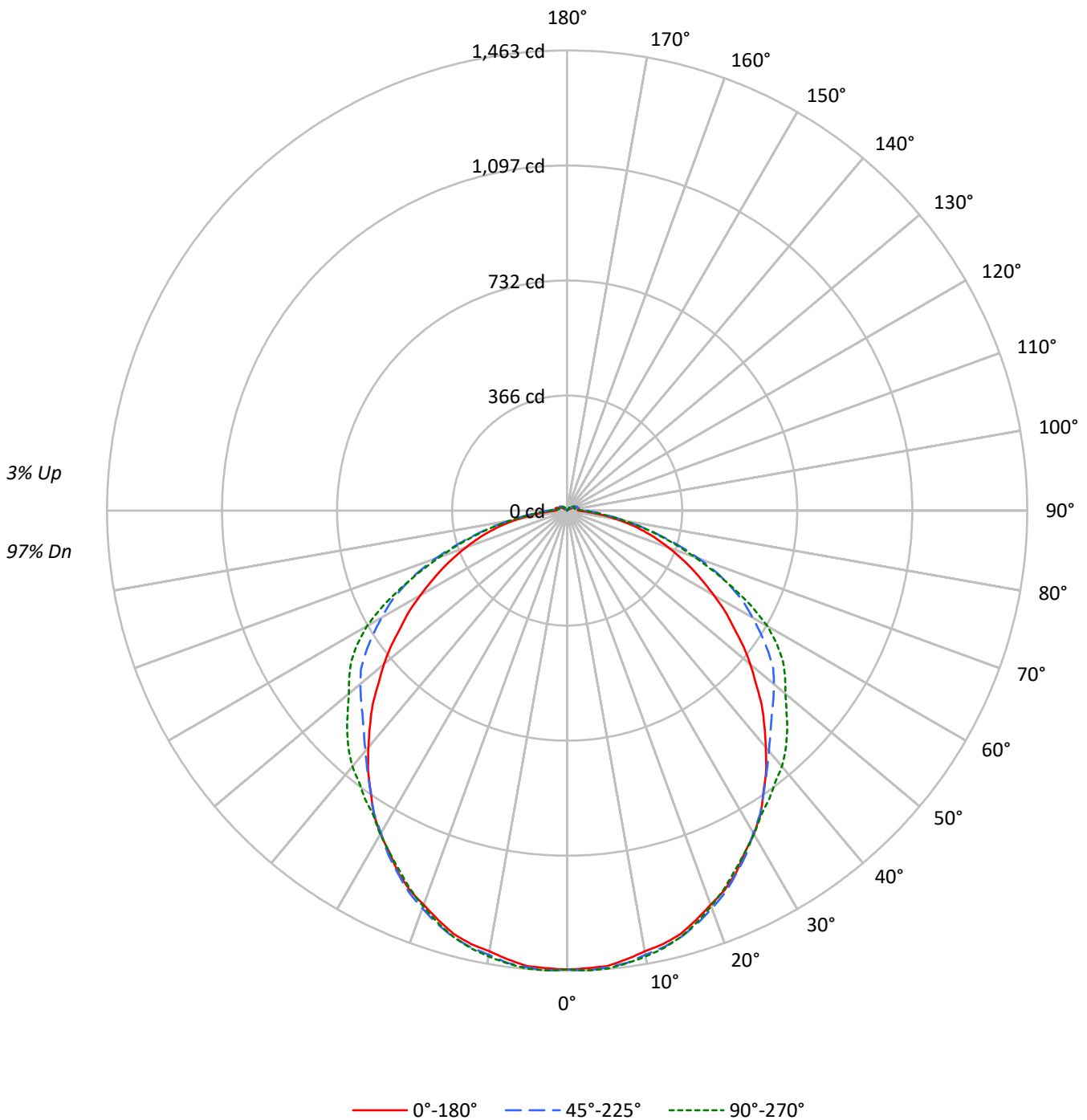
Input Watts (W): 28.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	109	109	104	104	104	99	99	99	97
1	108	103	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	68	62	73	66	61	70	64	59	67	62	58	55
4	81	69	60	53	79	67	59	53	64	57	52	62	56	51	59	54	50	47
5	75	62	52	46	72	60	52	45	58	50	44	55	49	44	53	48	43	41
6	69	55	46	40	67	54	46	39	52	45	39	50	43	38	48	42	38	36
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	39	32	27	37	31	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

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

	0°	45°	90°
0°	15077	15077	15077
5°	14972	14743	14734
10°	14721	14309	14266
15°	14594	13921	13767
20°	14247	13377	13130
25°	13964	12775	12454
30°	13533	12086	11887
35°	13005	11415	11450
40°	12419	10810	11197
45°	11838	10399	10845
50°	11159	10231	10420
55°	10417	9913	10235
60°	9767	9338	9631
65°	9131	8654	8310
70°	8481	7447	6789
75°	7779	5845	5322
80°	6578	4194	3770
85°	4849	2824	2376



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.3	3.2
10°-20°	394.1	9.2
20°-30°	584.9	13.6
30°-40°	688.9	16.0
40°-50°	715.1	16.6
50°-60°	671.2	15.6
60°-70°	539.6	12.6
70°-80°	320.3	7.5
80°-90°	117.4	2.7
90°-100°	44.0	1.0
100°-110°	33.5	0.8
110°-120°	25.7	0.6
120°-130°	15.5	0.4
130°-140°	7.3	0.2
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°	1117.3	26.0
0°-40°	1806.3	42.0
0°-60°	3192.6	74.3
0°-90°	4169.9	97.0
90°-120°	103.1	2.4
90°-150°	127.2	3.0
90°-180°	127.0	3.0
0°-180°	4297.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1459	1459	1459	1459	1459	
5°	1454	1454	1458	1462	1462	138
15°	1393	1395	1403	1403	1402	392
25°	1270	1270	1273	1269	1262	584
35°	1089	1097	1090	1106	1120	682
45°	875	874	920	981	990	673
55°	644	667	780	816	839	580
65°	438	514	576	593	583	434
75°	253	322	306	305	299	266
85°	78	108	103	101	96	81
90°	35	59	59	54	50	20
95°	36	42	40	36	32	30
105°	34	34	35	29	25	35
115°	20	22	31	28	25	20
125°	8	10	20	22	22	8
135°	4	3	10	14	15	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°	1459.1	1459.1	1459.1	1459.1	1459.1
2.5°	1456.3	1459.1	1463.3	1463.3	1463.3
5°	1453.5	1453.5	1457.7	1461.9	1461.9
7.5°	1439.5	1442.3	1450.7	1450.7	1452.1
10°	1422.8	1431.2	1434.0	1439.5	1439.5
12.5°	1411.6	1414.4	1421.4	1424.2	1424.2
15°	1393.4	1394.8	1403.2	1403.2	1401.8
17.5°	1364.1	1368.3	1376.7	1376.7	1372.5
20°	1333.3	1343.1	1345.9	1341.7	1338.9
22.5°	1306.8	1309.6	1313.8	1306.8	1302.6
25°	1270.4	1270.4	1273.2	1269.0	1262.1
27.5°	1224.3	1234.1	1232.7	1229.9	1224.3
30°	1186.6	1192.2	1183.8	1185.2	1188.0
32.5°	1144.7	1147.4	1141.9	1144.7	1147.4
35°	1088.7	1097.1	1090.1	1105.5	1119.5
37.5°	1039.8	1045.4	1042.6	1073.4	1087.3
40°	982.5	988.1	997.9	1042.6	1062.2
42.5°	928.0	929.4	956.0	1013.3	1028.6
45°	874.9	873.5	919.6	981.1	989.5
47.5°	813.4	817.6	888.9	942.0	946.2
50°	760.3	767.3	858.1	893.1	905.7
52.5°	704.4	715.6	826.0	852.5	873.5
55°	644.3	666.7	779.9	816.2	838.6
57.5°	595.4	623.3	731.0	774.3	791.1
60°	538.1	585.6	680.6	722.6	735.1
62.5°	486.4	549.3	633.1	661.1	662.5
65°	437.5	514.3	575.8	592.6	582.8
67.5°	388.5	475.2	512.9	514.3	504.5
70°	342.4	429.1	444.4	438.9	430.5
72.5°	297.7	376.0	374.6	367.6	364.8
75°	253.0	321.5	306.1	304.7	299.1
77.5°	206.8	264.2	244.6	243.2	239.0
80°	160.7	202.7	187.3	188.7	183.1
82.5°	116.0	153.7	139.8	141.2	135.6
85°	78.3	107.6	103.4	100.6	96.4
87.5°	46.1	75.5	75.5	74.1	68.5
90°	34.9	58.7	58.7	54.5	50.3
92.5°	33.5	47.5	47.5	43.3	39.1
95°	36.3	41.9	40.5	36.3	32.1
97.5°	37.7	39.1	37.7	32.1	29.4
100°	37.7	36.3	36.3	29.4	26.6
102.5°	36.3	34.9	34.9	29.4	25.2
105°	33.5	33.5	34.9	29.4	25.2
107.5°	30.7	32.1	33.5	29.4	25.2
110°	26.6	29.4	33.5	29.4	25.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	23.8	26.6	32.1	28.0	25.2
115°	19.6	22.4	30.7	28.0	25.2
117.5°	16.8	19.6	28.0	26.6	25.2
120°	14.0	15.4	26.6	26.6	23.8
122.5°	11.2	12.6	23.8	25.2	23.8
125°	8.4	9.8	19.6	22.4	22.4
127.5°	7.0	7.0	16.8	21.0	21.0
130°	5.6	5.6	14.0	19.6	19.6
132.5°	4.2	4.2	11.2	16.8	18.2
135°	4.2	2.8	9.8	14.0	15.4
137.5°	2.8	2.8	7.0	12.6	14.0
140°	2.8	2.8	5.6	9.8	11.2
142.5°	2.8	1.4	2.8	8.4	9.8
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)