

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: P237744

Luminaire Tested: **2VT2-LD5-3-DR100-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237744  
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-LD5-3-DR100-UNV-L840-CD1-WL-U  
Description: METALUX VT2 LED LUMINAIRE  
INTERNAL PRISMATIC LENS/100% 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: 3075.0 lumens  
Efficiency: N/A  
Efficacy: 141.1 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

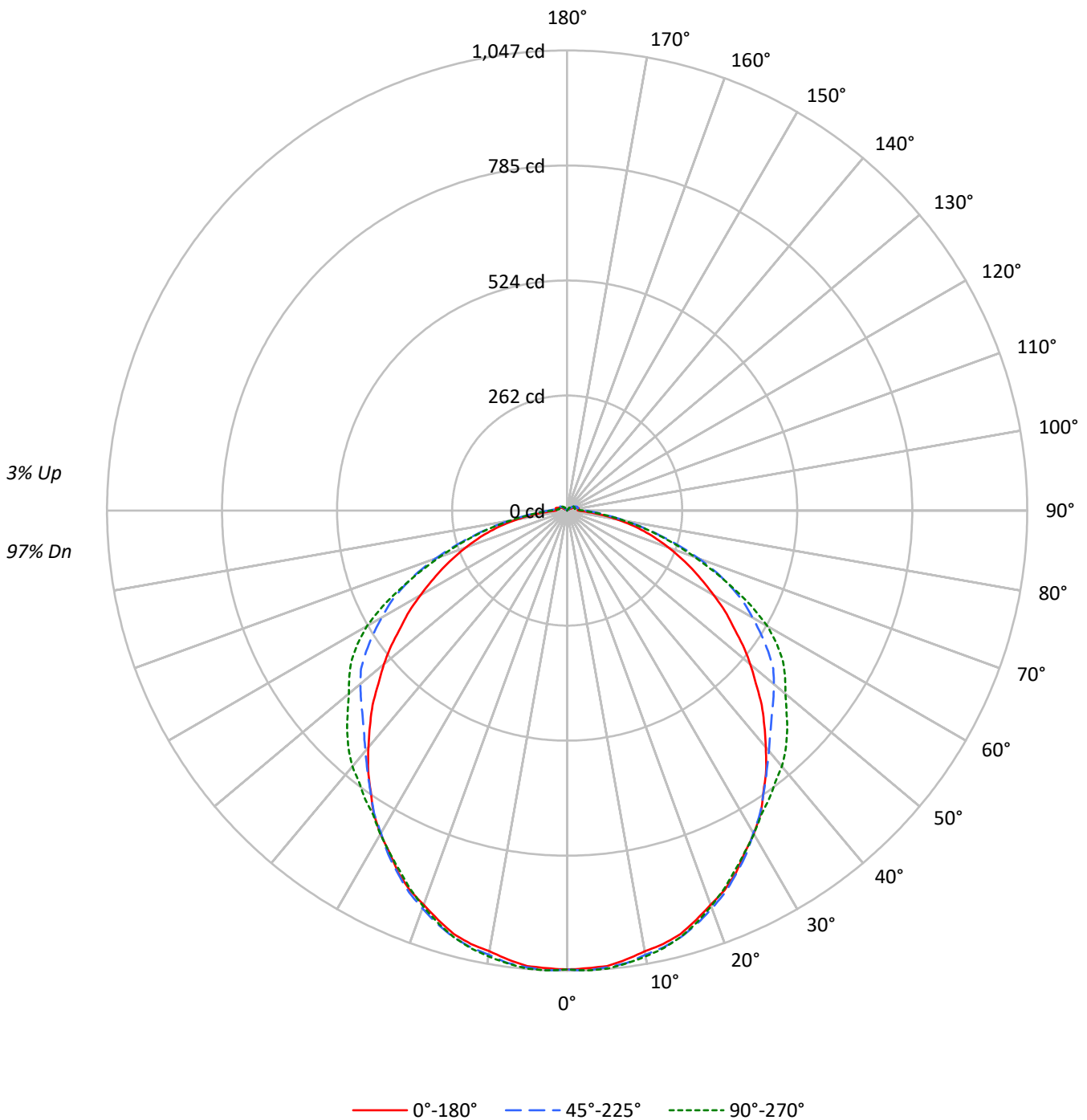
Input Watts (W): 21.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	10790	10790	10790
5°	10715	10551	10545
10°	10535	10240	10210
15°	10444	9963	9852
20°	10196	9573	9397
25°	9992	9142	8912
30°	9684	8648	8506
35°	9307	8169	8193
40°	8888	7736	8012
45°	8472	7442	7761
50°	7986	7322	7457
55°	7455	7094	7324
60°	6990	6683	6893
65°	6532	6194	5947
70°	6068	5330	4857
75°	5565	4182	3807
80°	4708	3001	2697
85°	3468	2021	1701



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.0	3.2
10°-20°	282.0	9.2
20°-30°	418.6	13.6
30°-40°	493.0	16.0
40°-50°	511.8	16.6
50°-60°	480.3	15.6
60°-70°	386.2	12.6
70°-80°	229.1	7.5
80°-90°	84.0	2.7
90°-100°	31.5	1.0
100°-110°	24.0	0.8
110°-120°	18.3	0.6
120°-130°	11.1	0.4
130°-140°	5.2	0.2
140°-150°	0.9	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	799.6	26.0
0°-40°	1292.6	42.0
0°-60°	2284.7	74.3
0°-90°	2984.0	97.0
90°-120°	73.8	2.4
90°-150°	91.0	3.0
90°-180°	91.0	3.0
0°-180°	3075.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1044	1044	1044	1044	1044	
5°	1040	1040	1043	1046	1046	99
15°	997	998	1004	1004	1003	280
25°	909	909	911	908	903	418
35°	779	785	780	791	801	488
45°	626	625	658	702	708	482
55°	461	477	558	584	600	415
65°	313	368	412	424	417	310
75°	181	230	219	218	214	190
85°	56	77	74	72	69	58
90°	25	42	42	39	36	15
95°	26	30	29	26	23	21
105°	24	24	25	21	18	25
115°	14	16	22	20	18	14
125°	6	7	14	16	16	6
135°	3	2	7	10	11	2
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°	1044.2	1044.2	1044.2	1044.2	1044.2
2.5°	1042.2	1044.2	1047.2	1047.2	1047.2
5°	1040.2	1040.2	1043.2	1046.2	1046.2
7.5°	1030.2	1032.2	1038.2	1038.2	1039.2
10°	1018.2	1024.2	1026.2	1030.2	1030.2
12.5°	1010.2	1012.2	1017.2	1019.2	1019.2
15°	997.2	998.2	1004.2	1004.2	1003.2
17.5°	976.2	979.2	985.2	985.2	982.2
20°	954.2	961.2	963.2	960.2	958.2
22.5°	935.1	937.1	940.1	935.1	932.1
25°	909.1	909.1	911.1	908.1	903.1
27.5°	876.1	883.1	882.1	880.1	876.1
30°	849.1	853.1	847.1	848.1	850.1
32.5°	819.1	821.1	817.1	819.1	821.1
35°	779.1	785.1	780.1	791.1	801.1
37.5°	744.1	748.1	746.1	768.1	778.1
40°	703.1	707.1	714.1	746.1	760.1
42.5°	664.1	665.1	684.1	725.1	736.1
45°	626.1	625.1	658.1	702.1	708.1
47.5°	582.1	585.1	636.1	674.1	677.1
50°	544.1	549.1	614.1	639.1	648.1
52.5°	504.1	512.1	591.1	610.1	625.1
55°	461.1	477.1	558.1	584.1	600.1
57.5°	426.1	446.1	523.1	554.1	566.1
60°	385.1	419.1	487.1	517.1	526.1
62.5°	348.1	393.1	453.1	473.1	474.1
65°	313.0	368.1	412.1	424.1	417.1
67.5°	278.0	340.1	367.1	368.1	361.1
70°	245.0	307.0	318.1	314.0	308.0
72.5°	213.0	269.0	268.0	263.0	261.0
75°	181.0	230.0	219.0	218.0	214.0
77.5°	148.0	189.0	175.0	174.0	171.0
80°	115.0	145.0	134.0	135.0	131.0
82.5°	83.0	110.0	100.0	101.0	97.0
85°	56.0	77.0	74.0	72.0	69.0
87.5°	33.0	54.0	54.0	53.0	49.0
90°	25.0	42.0	42.0	39.0	36.0
92.5°	24.0	34.0	34.0	31.0	28.0
95°	26.0	30.0	29.0	26.0	23.0
97.5°	27.0	28.0	27.0	23.0	21.0
100°	27.0	26.0	26.0	21.0	19.0
102.5°	26.0	25.0	25.0	21.0	18.0
105°	24.0	24.0	25.0	21.0	18.0
107.5°	22.0	23.0	24.0	21.0	18.0
110°	19.0	21.0	24.0	21.0	18.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	17.0	19.0	23.0	20.0	18.0
115°	14.0	16.0	22.0	20.0	18.0
117.5°	12.0	14.0	20.0	19.0	18.0
120°	10.0	11.0	19.0	19.0	17.0
122.5°	8.0	9.0	17.0	18.0	17.0
125°	6.0	7.0	14.0	16.0	16.0
127.5°	5.0	5.0	12.0	15.0	15.0
130°	4.0	4.0	10.0	14.0	14.0
132.5°	3.0	3.0	8.0	12.0	13.0
135°	3.0	2.0	7.0	10.0	11.0
137.5°	2.0	2.0	5.0	9.0	10.0
140°	2.0	2.0	4.0	7.0	8.0
142.5°	2.0	1.0	2.0	6.0	7.0
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)