

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: P237754

Luminaire Tested: **2VRVT2-LD5-3-FR50-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237754
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: 2VRVT2-LD5-3-FR50-UNV-L850-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
FROSTED LENS/15% 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: 3226.0 lumens
Efficiency: N/A
Efficacy: 148.0 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

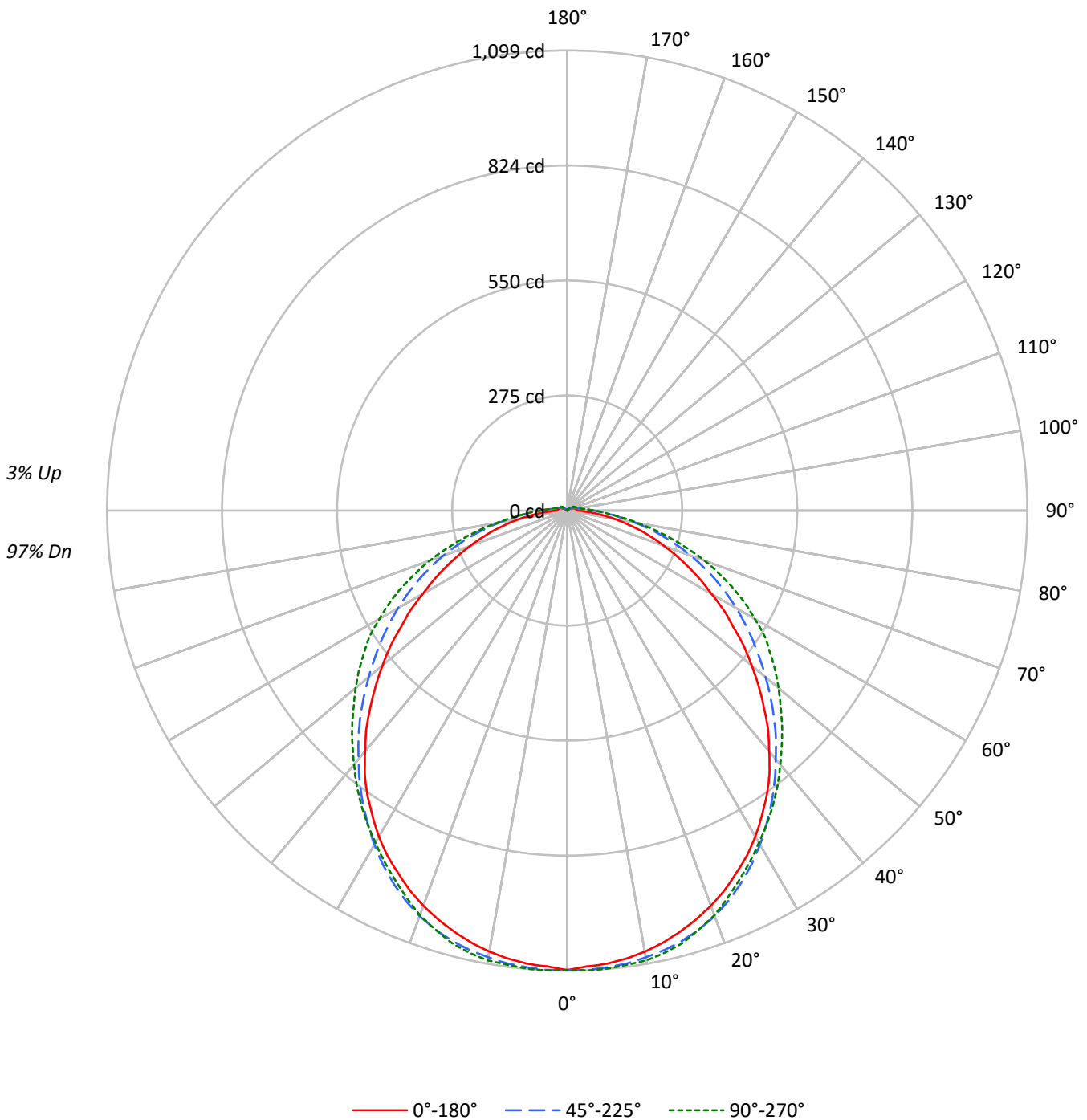
Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	11338	11338	11338
5°	11193	11076	11070
10°	11068	10812	10811
15°	10904	10549	10494
20°	10728	10242	10084
25°	10499	9850	9603
30°	10253	9406	9166
35°	9929	8915	8772
40°	9488	8395	8347
45°	8994	7900	7959
50°	8449	7381	7587
55°	7834	6885	7221
60°	7235	6401	6779
65°	6683	5880	6228
70°	6093	5277	5516
75°	5476	4514	4565
80°	4732	3657	3535
85°	3741	2838	2588



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.0	3.2
10°-20°	298.7	9.3
20°-30°	448.6	13.9
30°-40°	531.4	16.5
40°-50°	539.5	16.7
50°-60°	484.3	15.0
60°-70°	380.4	11.8
70°-80°	241.0	7.5
80°-90°	106.6	3.3
90°-100°	41.0	1.3
100°-110°	22.9	0.7
110°-120°	14.8	0.5
120°-130°	8.4	0.3
130°-140°	3.6	0.1
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°	851.3	26.4
0°-40°	1382.7	42.9
0°-60°	2406.5	74.6
0°-90°	3134.5	97.2
90°-120°	78.7	2.4
90°-150°	91.5	2.8
90°-180°	91.0	2.8
0°-180°	3226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1097	1097	1097	1097	1097	
5°	1087	1091	1095	1098	1098	103
15°	1041	1050	1063	1070	1069	294
25°	955	972	982	976	973	440
35°	831	849	851	854	858	519
45°	665	685	699	718	726	513
55°	484	506	542	579	592	435
65°	320	338	391	427	437	318
75°	178	198	236	257	257	189
85°	60	82	104	108	105	61
90°	25	46	64	66	65	16
95°	22	28	40	42	41	18
105°	19	16	22	25	24	20
115°	12	10	15	19	20	12
125°	5	3	8	14	15	5
135°	2	2	3	7	8	2
145°	1	1	0	2	3	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°	1097.2	1097.2	1097.2	1097.2	1097.2
2.5°	1089.8	1093.0	1098.3	1099.4	1099.4
5°	1086.6	1090.9	1095.1	1098.3	1098.3
7.5°	1079.2	1083.5	1090.9	1094.1	1094.1
10°	1069.7	1075.0	1083.5	1089.8	1090.9
12.5°	1057.0	1063.3	1075.0	1081.3	1081.3
15°	1041.1	1049.5	1063.3	1069.7	1068.6
17.5°	1024.1	1033.6	1048.5	1051.7	1048.5
20°	1004.0	1015.6	1030.5	1032.6	1028.3
22.5°	981.7	995.5	1008.2	1005.0	1000.8
25°	955.2	972.2	981.7	976.4	973.2
27.5°	929.7	945.6	953.1	946.7	945.6
30°	899.0	917.0	921.3	917.0	916.0
32.5°	865.1	886.3	886.3	886.3	887.3
35°	831.2	849.2	851.3	854.5	857.7
37.5°	794.0	812.1	814.2	822.7	825.9
40°	750.6	770.7	775.0	787.7	791.9
42.5°	710.3	728.3	737.9	753.8	759.1
45°	664.7	684.9	698.6	717.7	726.2
47.5°	620.2	640.3	658.3	682.7	691.2
50°	575.7	595.8	619.1	647.7	659.4
52.5°	532.2	549.2	579.9	613.8	626.5
55°	484.5	505.7	541.7	578.8	591.6
57.5°	444.2	461.2	503.6	543.9	559.8
60°	398.6	417.7	466.5	506.7	517.4
62.5°	359.4	378.5	428.3	468.6	479.2
65°	320.2	338.2	391.2	427.2	436.8
67.5°	283.1	303.2	352.0	388.0	392.3
70°	246.0	267.2	314.9	345.6	349.8
72.5°	212.0	232.2	275.6	301.1	302.1
75°	178.1	198.2	236.4	256.6	256.6
77.5°	145.2	166.4	199.3	215.2	213.1
80°	115.6	134.6	163.3	171.7	171.7
82.5°	85.9	106.0	130.4	138.9	134.6
85°	60.4	81.6	103.9	108.1	105.0
87.5°	39.2	61.5	80.6	83.8	81.6
90°	25.4	45.6	63.6	65.7	64.7
92.5°	23.3	35.0	49.8	51.9	50.9
95°	22.3	27.6	40.3	42.4	41.3
97.5°	22.3	23.3	33.9	36.0	35.0
100°	21.2	20.1	28.6	30.7	29.7
102.5°	21.2	18.0	25.4	27.6	26.5
105°	19.1	15.9	22.3	25.4	24.4
107.5°	18.0	13.8	20.1	23.3	23.3
110°	15.9	11.7	18.0	22.3	22.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	13.8	10.6	17.0	21.2	21.2
115°	11.7	9.5	14.8	19.1	20.1
117.5°	9.5	7.4	12.7	18.0	19.1
120°	8.5	6.4	11.7	17.0	18.0
122.5°	7.4	5.3	10.6	14.8	17.0
125°	5.3	3.2	8.5	13.8	14.8
127.5°	5.3	3.2	7.4	11.7	13.8
130°	4.2	3.2	6.4	10.6	11.7
132.5°	3.2	2.1	4.2	8.5	10.6
135°	2.1	2.1	3.2	7.4	8.5
137.5°	2.1	1.1	2.1	6.4	7.4
140°	1.1	1.1	1.1	4.2	5.3
142.5°	1.1	1.1	0.0	3.2	4.2
145°	1.1	1.1	0.0	2.1	3.2
147.5°	1.1	1.1	0.0	1.1	2.1
150°	1.1	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)