

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: P237736

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237736
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: 2VRVT2-LD5-3-DR-UNV-L850-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC 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: 3276.0 lumens
Efficiency: N/A
Efficacy: 150.3 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

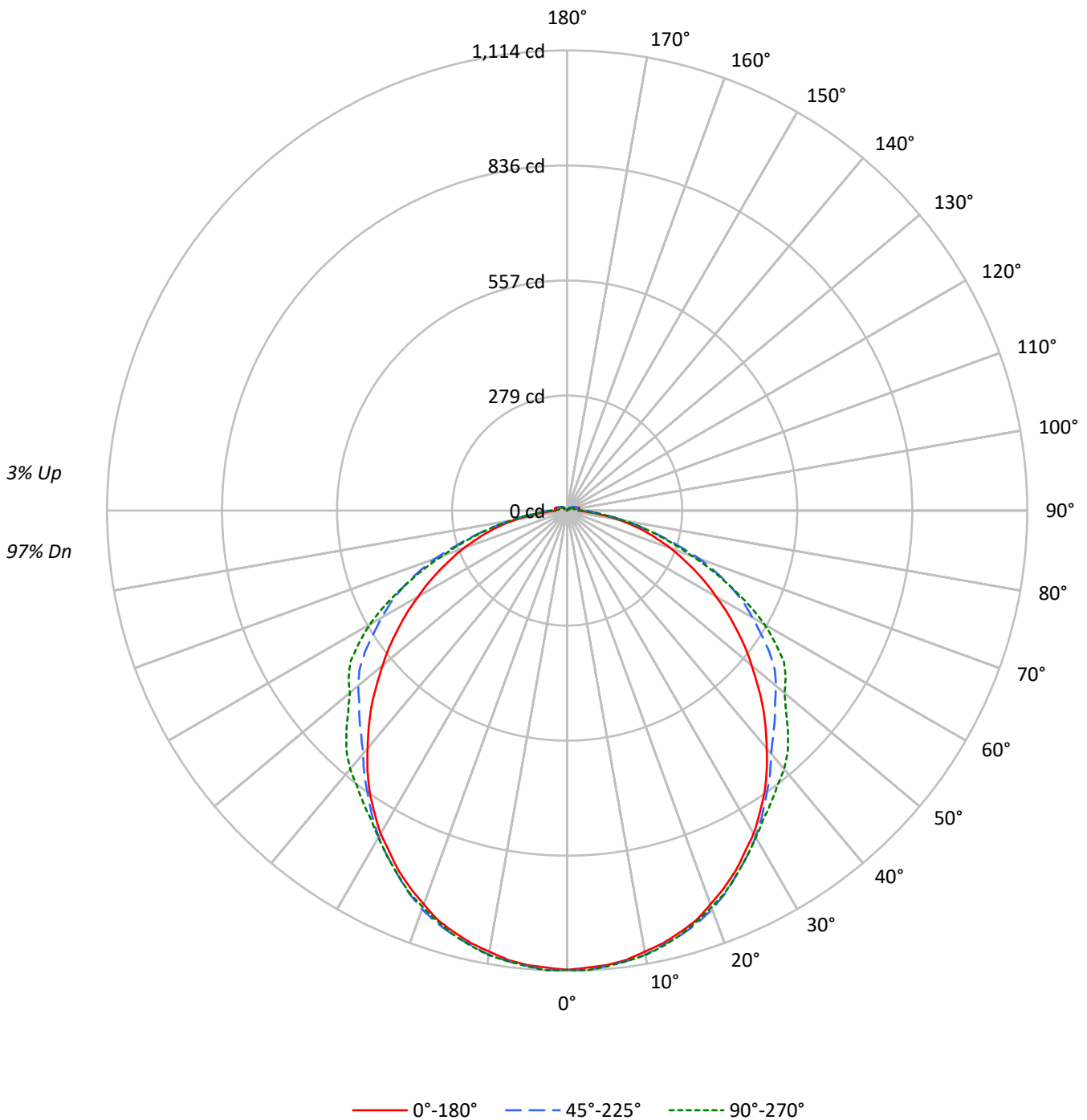
Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	11489	11489	11489
5°	11376	11191	11163
10°	11219	10894	10830
15°	11067	10557	10440
20°	10838	10208	10020
25°	10589	9752	9591
30°	10299	9317	9142
35°	9952	8801	8813
40°	9499	8324	8614
45°	9064	8043	8283
50°	8555	7873	7902
55°	8089	7598	7826
60°	7560	7112	7235
65°	7079	6579	6241
70°	6616	5684	5081
75°	6029	4413	3998
80°	5121	3086	2814
85°	3679	2057	1725



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	3.2
10°-20°	299.5	9.1
20°-30°	447.0	13.6
30°-40°	529.1	16.1
40°-50°	549.4	16.8
50°-60°	514.4	15.7
60°-70°	411.8	12.6
70°-80°	243.1	7.4
80°-90°	87.6	2.7
90°-100°	31.6	1.0
100°-110°	23.3	0.7
110°-120°	17.6	0.5
120°-130°	10.6	0.3
130°-140°	5.1	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°	851.6	26.0
0°-40°	1380.7	42.1
0°-60°	2444.5	74.6
0°-90°	3186.9	97.3
90°-120°	72.5	2.2
90°-150°	89.1	2.7
90°-180°	89.0	2.7
0°-180°	3276.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1104	1106	1106	1110	1108	105
15°	1057	1057	1064	1068	1063	298
25°	963	970	972	974	972	443
35°	833	837	840	853	862	520
45°	670	674	711	754	756	516
55°	500	515	598	623	641	448
65°	339	401	438	445	438	337
75°	196	250	231	227	225	206
85°	59	82	75	73	70	63
90°	26	44	41	38	37	16
95°	28	31	29	24	23	23
105°	28	24	23	19	16	28
115°	16	17	21	18	16	16
125°	7	7	14	15	15	6
135°	3	2	6	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°	1111.8	1111.8	1111.8	1111.8	1111.8
2.5°	1107.6	1110.8	1112.9	1115.0	1114.0
5°	1104.4	1105.5	1106.5	1109.7	1107.6
7.5°	1097.0	1097.0	1100.2	1103.4	1100.2
10°	1084.3	1085.3	1091.7	1097.0	1092.8
12.5°	1072.6	1073.7	1076.9	1086.4	1079.0
15°	1056.7	1056.7	1064.1	1068.4	1063.1
17.5°	1039.8	1039.8	1047.2	1048.2	1042.9
20°	1014.3	1016.4	1027.0	1023.9	1021.7
22.5°	989.9	993.1	1001.6	1002.7	1000.5
25°	963.4	969.8	971.9	974.0	971.9
27.5°	931.7	940.1	943.3	942.3	943.3
30°	903.0	908.3	912.6	913.6	913.6
32.5°	868.1	873.4	877.6	881.8	885.0
35°	833.1	837.3	840.5	853.2	861.7
37.5°	793.9	800.2	806.6	827.8	837.3
40°	751.5	757.8	768.4	802.3	817.2
42.5°	711.2	716.5	737.7	782.2	790.7
45°	669.9	674.1	711.2	753.6	755.7
47.5°	625.3	631.7	682.6	715.4	718.6
50°	582.9	592.5	660.3	679.4	686.8
52.5°	542.7	553.3	633.8	647.6	666.7
55°	500.3	515.1	597.8	623.2	641.2
57.5°	458.9	484.4	556.4	591.4	597.8
60°	416.5	454.7	518.3	551.1	552.2
62.5°	378.4	427.1	481.2	499.2	497.1
65°	339.2	400.6	437.7	445.2	437.7
67.5°	301.0	372.0	390.0	383.7	381.6
70°	267.1	334.9	339.2	325.4	322.2
72.5°	228.9	292.5	280.9	275.6	272.4
75°	196.1	250.1	231.1	226.8	224.7
77.5°	161.1	204.6	180.2	182.3	182.3
80°	125.1	159.0	137.8	139.9	136.7
82.5°	91.2	116.6	104.9	103.9	100.7
85°	59.4	81.6	75.3	73.1	70.0
87.5°	36.0	57.2	55.1	53.0	50.9
90°	26.5	43.5	41.3	38.2	37.1
92.5°	26.5	36.0	33.9	30.7	28.6
95°	27.6	30.7	28.6	24.4	23.3
97.5°	29.7	28.6	25.4	22.3	20.1
100°	29.7	26.5	24.4	20.1	18.0
102.5°	28.6	25.4	23.3	19.1	17.0
105°	27.6	24.4	23.3	19.1	15.9
107.5°	24.4	23.3	23.3	18.0	15.9
110°	22.3	21.2	22.3	18.0	15.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.1	19.1	22.3	18.0	15.9
115°	15.9	17.0	21.2	18.0	15.9
117.5°	13.8	13.8	19.1	17.0	15.9
120°	10.6	11.7	18.0	17.0	14.8
122.5°	8.5	9.5	15.9	15.9	14.8
125°	7.4	7.4	13.8	14.8	14.8
127.5°	5.3	5.3	11.7	13.8	13.8
130°	4.2	4.2	10.6	12.7	12.7
132.5°	4.2	3.2	8.5	11.7	11.7
135°	3.2	2.1	6.4	9.5	10.6
137.5°	2.1	2.1	5.3	8.5	9.5
140°	2.1	2.1	3.2	6.4	7.4
142.5°	2.1	1.1	2.1	5.3	6.4
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)