

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: P233257

Luminaire Tested: **2VRVT3-LD5-2-G-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-268-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2VRVT3-LD5-2-G-UNV-L840-CD1-U
Description: 2FT VRVT3 GENRAL APPLICATION, 2000LM
Light Source: (196) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2048.0 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 2' x H: 1.04')
CIE Type: Direct

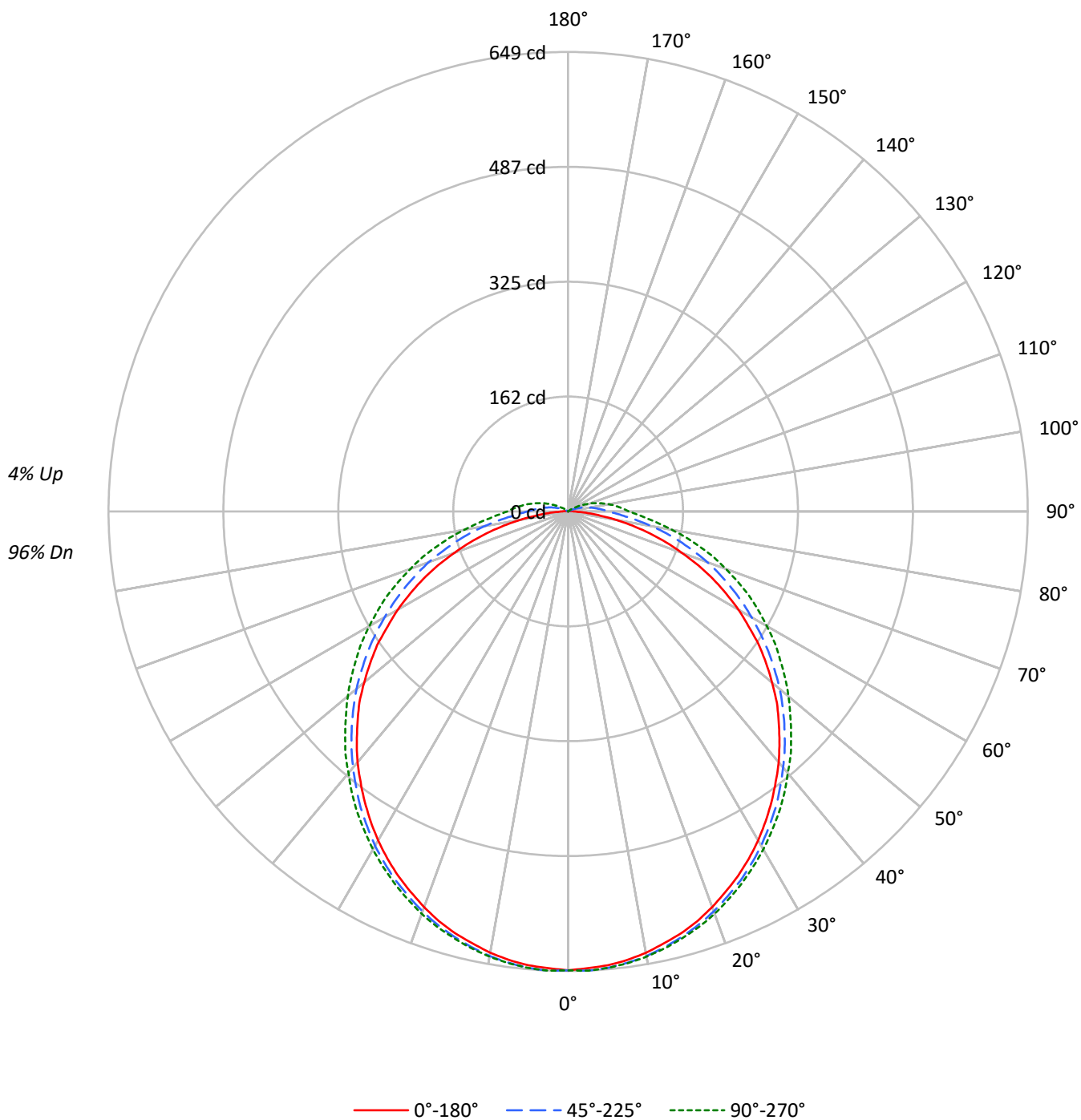
Input Watts (W): 15.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	118	118	118	118	115	115	115	115		109	109	109		104	104	104		99	99	99
1	107	101	97	92	103	99	94	90		94	90	87		89	86	83		85	82	80
2	96	88	80	74	93	85	79	73		81	76	71		77	73	69		74	70	66
3	88	77	68	61	85	75	67	60		71	64	59		68	62	57		65	60	56
4	80	68	59	52	77	66	58	51		63	56	50		60	54	49		58	52	48
5	74	60	51	44	71	59	50	44		56	49	43		54	47	42		52	46	41
6	68	54	45	38	66	53	44	38		51	43	37		49	42	37		47	41	36
7	63	49	40	34	61	48	40	34		46	39	33		44	38	33		43	37	32
8	59	45	36	30	57	44	36	30		42	35	30		41	34	29		39	33	29
9	55	41	33	27	53	40	32	27		39	32	27		37	31	26		36	30	26
10	51	38	30	24	50	37	30	24		36	29	24		35	28	24		34	28	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8371	8371	8371
5°	7980	7069	6885
10°	7603	6074	5812
15°	7238	5288	4995
20°	6871	4648	4352
25°	6511	4108	3816
30°	6152	3640	3365
35°	5785	3227	2975
40°	5430	2853	2626
45°	5049	2516	2324
50°	4662	2211	2052
55°	4250	1919	1800
60°	3777	1645	1570
65°	3257	1391	1355
70°	2650	1149	1136
75°	2019	907	929
80°	1321	678	727
85°	603	474	556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	3.0
10°-20°	175.3	8.6
20°-30°	264.8	12.9
30°-40°	319.1	15.6
40°-50°	333.9	16.3
50°-60°	309.5	15.1
60°-70°	251.1	12.3
70°-80°	168.8	8.2
80°-90°	86.5	4.2
90°-100°	44.7	2.2
100°-110°	23.2	1.1
110°-120°	8.6	0.4
120°-130°	1.2	0.1
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	501.4	24.5
0°-40°	820.5	40.1
0°-60°	1463.9	71.5
0°-90°	1970.3	96.2
90°-120°	76.5	3.7
90°-150°	77.7	3.8
90°-180°	78.0	3.8
0°-180°	2048.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	648	648	648	648	648	
5°	644	644	647	648	647	61
15°	617	619	622	624	624	174
25°	568	570	575	579	580	262
35°	501	504	511	516	519	313
45°	420	424	432	441	445	325
55°	329	333	345	360	365	293
65°	226	234	254	275	282	223
75°	119	135	163	184	192	126
85°	28	52	81	104	111	32
90°	8	29	57	78	86	5
95°	5	17	43	64	72	4
105°	2	4	21	38	45	3
115°	1	1	5	16	21	1
125°	0	0	0	2	4	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
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°	648.1	648.1	648.1	648.1	648.1
2.5°	645.5	646.5	649.1	649.6	649.1
5°	643.5	644.5	647.1	647.6	647.1
7.5°	639.0	640.5	643.0	644.0	643.5
10°	632.9	634.4	637.5	638.5	638.5
12.5°	624.8	626.9	630.4	631.4	631.9
15°	616.8	618.8	621.8	623.8	623.8
17.5°	606.7	608.2	612.2	614.8	615.3
20°	594.6	596.6	601.1	604.2	604.7
22.5°	581.4	584.0	588.5	592.0	592.5
25°	567.8	569.8	575.4	578.9	579.9
27.5°	552.7	554.7	560.7	564.3	565.8
30°	536.5	539.0	545.1	550.1	551.2
32.5°	518.9	521.9	527.9	533.0	535.0
35°	500.7	503.7	510.8	515.8	518.9
37.5°	481.5	484.5	491.6	498.7	501.7
40°	462.8	465.4	472.4	479.5	482.5
42.5°	441.6	445.2	452.7	461.3	465.4
45°	420.4	423.5	432.0	441.1	445.2
47.5°	399.7	402.8	411.3	420.9	425.5
50°	376.0	379.0	390.1	401.3	406.3
52.5°	352.3	355.8	367.4	381.1	386.1
55°	329.1	332.6	345.2	359.9	365.4
57.5°	301.8	308.9	322.5	338.7	346.2
60°	278.1	283.7	299.3	317.0	324.0
62.5°	251.4	258.4	276.6	295.8	302.8
65°	225.6	233.7	253.9	274.6	282.1
67.5°	198.9	207.4	231.7	252.4	258.9
70°	170.6	183.2	209.0	229.1	236.7
72.5°	145.4	158.5	185.2	206.4	216.0
75°	119.1	134.8	163.0	184.2	192.3
77.5°	92.9	111.5	141.8	162.0	171.1
80°	70.2	89.8	119.6	140.8	148.4
82.5°	46.4	69.7	99.4	121.1	129.2
85°	28.3	52.0	81.3	103.5	111.0
87.5°	14.1	37.9	67.6	88.8	97.4
90°	8.1	28.8	57.0	78.2	85.8
92.5°	6.6	22.2	50.0	70.7	78.7
95°	5.0	16.7	42.9	64.1	71.7
97.5°	4.0	12.1	37.3	57.5	65.1
100°	3.5	8.6	31.3	51.0	58.5
102.5°	3.0	5.6	26.2	44.4	51.5
105°	2.5	3.5	21.2	38.4	44.9
107.5°	2.0	2.0	16.2	32.3	38.4
110°	1.5	1.5	11.6	26.2	32.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	1.5	8.1	21.2	26.2
115°	1.0	1.0	5.0	16.2	20.7
117.5°	1.0	1.0	2.5	11.6	15.6
120°	0.5	0.5	1.0	7.6	11.1
122.5°	0.5	0.5	0.5	4.0	7.1
125°	0.5	0.0	0.0	1.5	3.5
127.5°	0.0	0.0	0.0	0.0	1.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.5	0.0	0.0	0.0	0.0
135°	0.5	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
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)