

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P237842

Luminaire Tested: **4VRVT2-LD5-11-DR-UNV-L835-CD1-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P237842  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-11)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4VRVT2-LD5-11-DR-UNV-L835-CD1-WL-U  
Description: METALUX VRVT2 LED LUMINAIRE  
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION  
4FT FIXTURE  
Light Source: (224) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10757.0 lumens  
Efficiency: N/A  
Efficacy: 130.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4.17' x H: 0.17')  
CIE Type: Direct

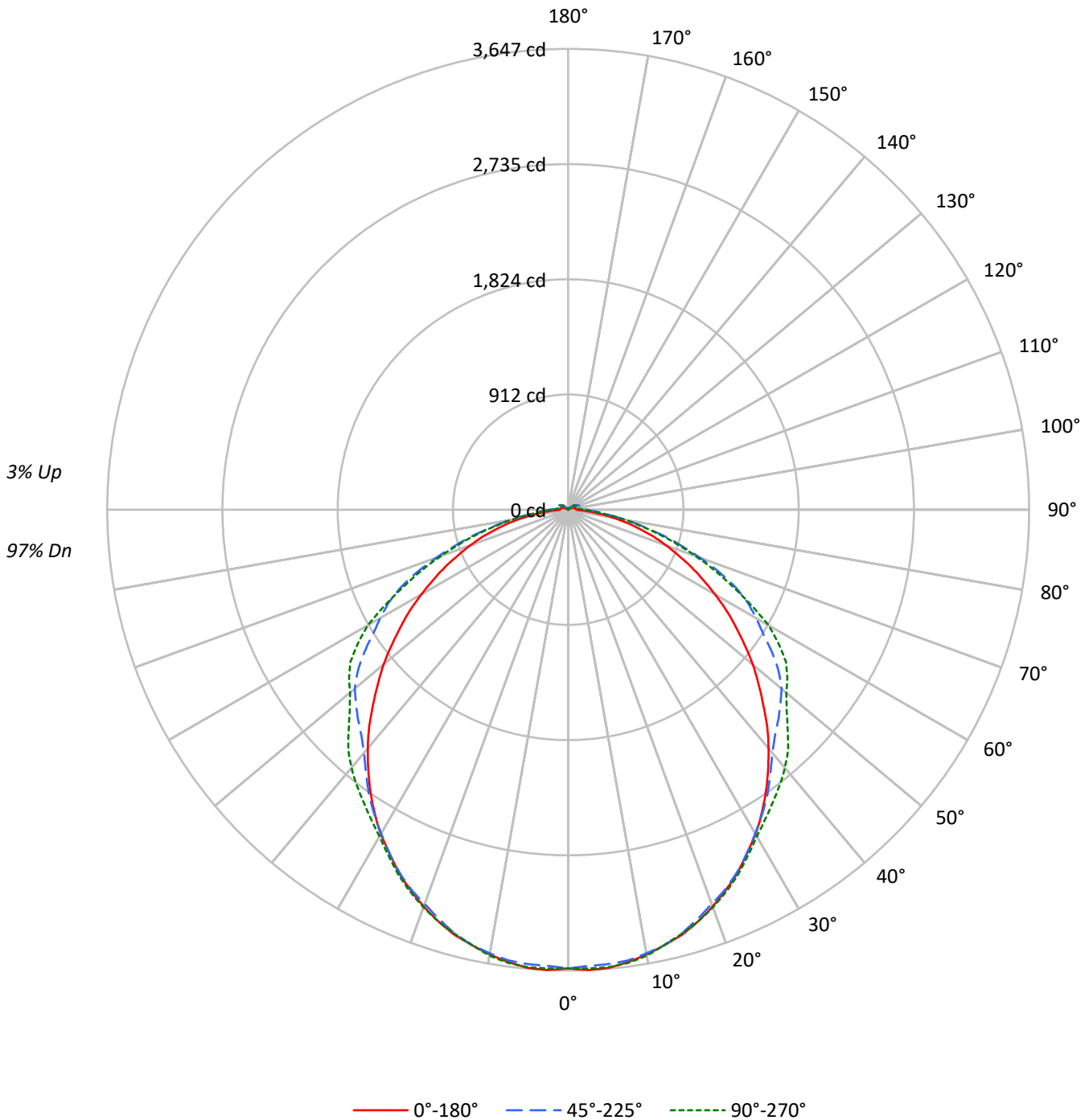
Input Watts (W): 82.44  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P237842

CATALOG NUMBER: 4VRVT2-LD5-11-DR-UNV-L835-CD1-WL-U

### Luminous Intensity Polar Plot





TEST NUMBER: P237842

CATALOG NUMBER: 4VRVT2-LD5-11-DR-UNV-L835-CD1-WL-U

**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	105	100	96	92	95	92	89	91	88	86	87	85	83	80
2	98	89	82	76	95	87	81	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	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	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°	18753	18753	18753
5°	18814	18301	18311
10°	18617	17868	17759
15°	18428	17343	17060
20°	18113	16660	16420
25°	17746	16062	15710
30°	17294	15320	14936
35°	16728	14633	14438
40°	16095	13871	14053
45°	15336	13585	13452
50°	14631	13474	12956
55°	13800	12885	12834
60°	12959	12170	11988
65°	12097	11448	10222
70°	11189	9671	8451
75°	10126	7675	6546
80°	8716	5482	4669
85°	6594	3723	2819



TEST NUMBER: P237842

CATALOG NUMBER: 4VRVT2-LD5-11-DR-UNV-L835-CD1-WL-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.7	3.2
10°-20°	981.4	9.1
20°-30°	1462.8	13.6
30°-40°	1730.6	16.1
40°-50°	1801.7	16.7
50°-60°	1695.0	15.8
60°-70°	1358.2	12.6
70°-80°	789.0	7.3
80°-90°	278.3	2.6
90°-100°	107.5	1.0
100°-110°	81.7	0.8
110°-120°	62.2	0.6
120°-130°	37.9	0.4
130°-140°	18.5	0.2
140°-150°	6.0	0.1
150°-160°	0.9	0.0
160°-170°	0.3	0.0
170°-180°	0.2	0.0
0°-30°	2789.0	25.9
0°-40°	4519.6	42.0
0°-60°	8016.3	74.5
0°-90°	10441.8	97.1
90°-120°	251.4	2.3
90°-150°	313.8	2.9
90°-180°	315.0	2.9
0°-180°	10757.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3630	3630	3630	3630	3630	
5°	3640	3624	3610	3642	3634	345
15°	3482	3494	3472	3478	3474	981
25°	3171	3181	3164	3188	3184	1458
35°	2726	2733	2749	2796	2823	1704
45°	2183	2205	2350	2465	2455	1687
55°	1620	1715	1970	2055	2103	1451
65°	1074	1344	1466	1454	1434	1064
75°	583	808	763	746	736	620
85°	162	247	252	243	229	172
90°	61	133	145	137	128	37
95°	63	98	110	95	88	51
105°	51	73	97	80	68	53
115°	26	47	84	74	65	27
125°	10	17	55	61	59	10
135°	4	4	26	40	43	3
145°	3	1	5	17	21	2
155°	1	1	1	1	3	1
165°	1	1	1	1	0	0
175°	3	3	1	1	1	0
180°	1	1	1	1	1	



TEST NUMBER: P237842

CATALOG NUMBER: 4VRVT2-LD5-11-DR-UNV-L835-CD1-WL-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3629.7	3629.7	3629.7	3629.7	3629.7
2.5°	3646.7	3633.6	3614.0	3640.2	3633.6
5°	3640.2	3624.5	3610.1	3641.5	3633.6
7.5°	3611.4	3608.8	3598.3	3624.5	3618.0
10°	3573.5	3581.4	3564.4	3585.3	3584.0
12.5°	3529.1	3548.7	3529.1	3534.3	3526.5
15°	3482.0	3493.8	3471.6	3478.1	3474.2
17.5°	3416.7	3433.7	3397.1	3429.7	3416.7
20°	3342.2	3359.2	3321.2	3357.8	3348.7
22.5°	3258.5	3274.2	3250.7	3276.8	3270.3
25°	3170.9	3181.4	3164.4	3187.9	3184.0
27.5°	3062.5	3087.3	3065.1	3093.8	3082.1
30°	2965.7	2974.9	2959.2	2994.5	2985.3
32.5°	2849.4	2855.9	2855.9	2887.3	2903.0
35°	2726.5	2733.1	2748.8	2795.8	2823.3
37.5°	2597.1	2611.5	2625.9	2718.7	2748.8
40°	2466.4	2476.9	2512.2	2646.8	2666.4
42.5°	2330.5	2341.0	2422.0	2569.7	2576.2
45°	2182.8	2205.0	2350.1	2465.1	2454.7
47.5°	2042.9	2070.4	2276.9	2331.8	2342.3
50°	1907.0	1938.4	2203.7	2224.6	2252.1
52.5°	1760.6	1820.7	2099.1	2127.9	2185.4
55°	1619.5	1714.9	1969.7	2054.7	2103.1
57.5°	1484.8	1609.0	1828.6	1960.6	1973.7
60°	1341.0	1518.8	1716.2	1828.6	1829.9
62.5°	1203.8	1432.5	1605.1	1648.2	1629.9
65°	1074.4	1343.7	1466.5	1453.5	1433.8
67.5°	942.4	1229.9	1295.3	1266.5	1253.5
70°	822.1	1107.1	1104.5	1079.6	1071.8
72.5°	707.1	954.2	928.0	905.8	899.3
75°	583.0	807.8	763.3	746.3	735.9
77.5°	470.5	656.1	596.0	589.5	581.6
80°	359.4	500.6	460.1	461.4	453.6
82.5°	248.3	359.4	337.2	334.6	325.5
85°	162.1	247.0	252.3	243.1	228.7
87.5°	87.6	172.5	184.3	177.8	167.3
90°	61.4	133.3	145.1	137.2	128.1
92.5°	61.4	112.4	122.9	111.1	103.3
95°	62.7	98.0	109.8	95.4	87.6
97.5°	62.7	88.9	102.0	86.3	77.1
100°	60.1	83.7	99.3	82.3	73.2
102.5°	56.2	78.4	98.0	79.7	70.6
105°	51.0	73.2	96.7	79.7	68.0
107.5°	44.4	68.0	95.4	78.4	68.0
110°	37.9	61.4	92.8	78.4	66.7



TEST NUMBER: P237842

CATALOG NUMBER: 4VRVT2-LD5-11-DR-UNV-L835-CD1-WL-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	32.7	54.9	88.9	77.1	66.7
115°	26.1	47.1	83.7	74.5	65.4
117.5°	20.9	39.2	77.1	71.9	64.0
120°	17.0	31.4	70.6	69.3	62.7
122.5°	13.1	23.5	62.7	65.4	60.1
125°	10.5	17.0	54.9	61.4	58.8
127.5°	7.8	11.8	47.1	57.5	54.9
130°	6.5	6.5	39.2	52.3	51.0
132.5°	5.2	5.2	32.7	47.1	48.4
135°	3.9	3.9	26.1	40.5	43.1
137.5°	3.9	2.6	19.6	35.3	37.9
140°	2.6	2.6	14.4	28.8	31.4
142.5°	2.6	2.6	9.1	23.5	26.1
145°	2.6	1.3	5.2	17.0	20.9
147.5°	2.6	1.3	2.6	11.8	15.7
150°	1.3	1.3	1.3	7.8	10.5
152.5°	1.3	1.3	1.3	3.9	5.2
155°	1.3	1.3	1.3	1.3	2.6
157.5°	1.3	1.3	1.3	1.3	0.0
160°	1.3	1.3	1.3	1.3	0.0
162.5°	1.3	1.3	1.3	1.3	0.0
165°	1.3	1.3	1.3	1.3	0.0
167.5°	2.6	1.3	1.3	1.3	0.0
170°	2.6	1.3	1.3	1.3	0.0
172.5°	2.6	2.6	1.3	1.3	0.0
175°	2.6	2.6	1.3	1.3	1.3
177.5°	2.6	2.6	1.3	1.3	1.3
180°	1.3	1.3	1.3	1.3	1.3

(END OF REPORT)