

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: P237846

Luminaire Tested: **8VRVT2-LD5-16-DR-UNV-L840-CD2-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P237846  
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: 8VRVT2-LD5-16-DR-UNV-L840-CD2-WL-U  
Description: METALUX VRVT2 LED LUMINAIRE  
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION  
8FT FIXTURE  
Light Source: (448) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16459.9 lumens  
Efficiency: N/A  
Efficacy: 140.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')  
CIE Type: Direct

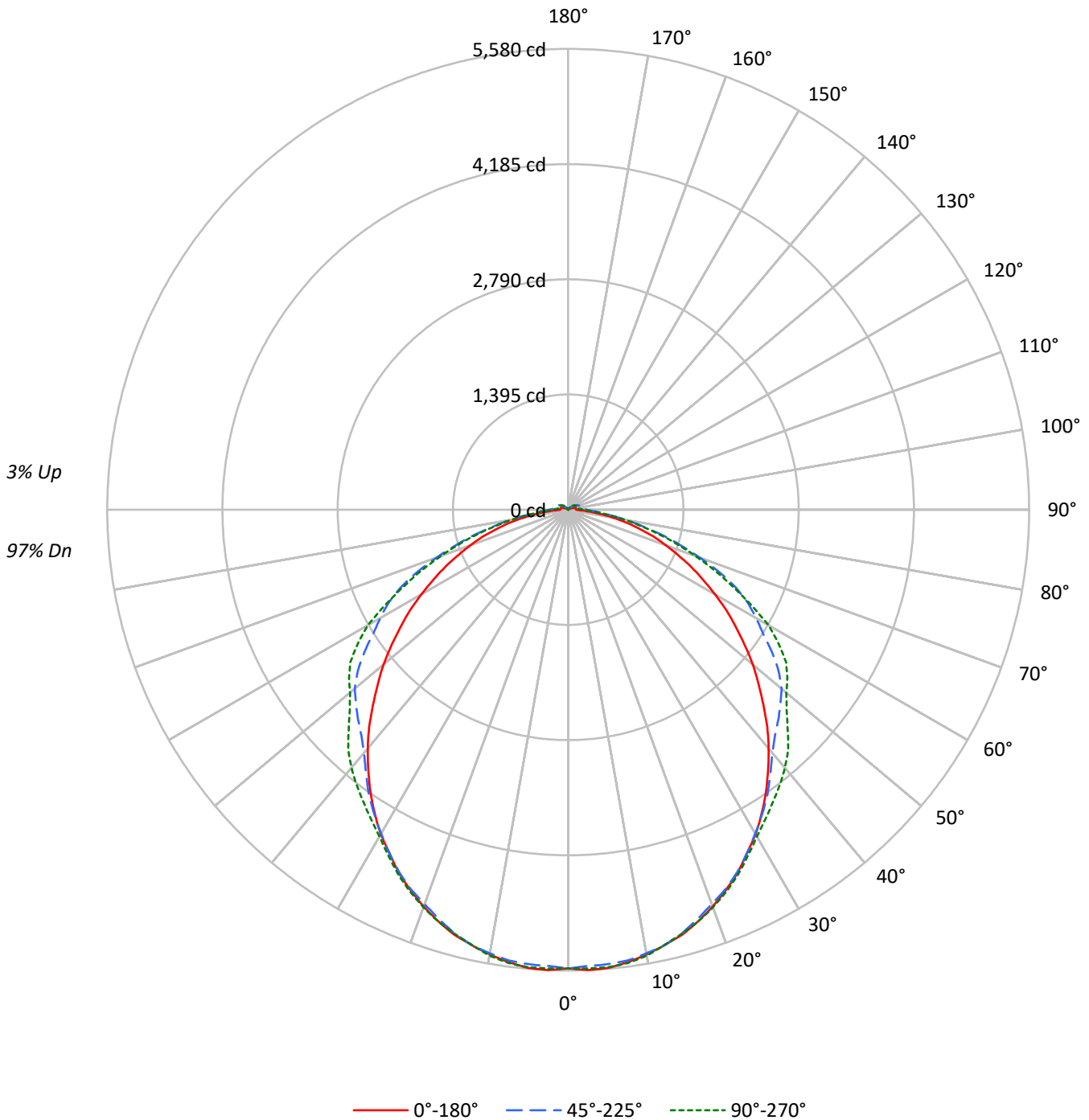
Input Watts (W): 117  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	14348	14348	14348
5°	14419	14019	14010
10°	14293	13703	13587
15°	14174	13316	13052
20°	13958	12807	12563
25°	13703	12362	12019
30°	13383	11804	11427
35°	12976	11290	11046
40°	12517	10717	10752
45°	11963	10511	10292
50°	11454	10443	9912
55°	10851	10005	9819
60°	10247	9470	9172
65°	9636	8931	7821
70°	9007	7569	6466
75°	8285	6033	5008
80°	7349	4333	3572
85°	5983	2967	2157



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	527.5	3.2
10°-20°	1501.8	9.1
20°-30°	2238.4	13.6
30°-40°	2648.1	16.1
40°-50°	2756.9	16.7
50°-60°	2593.5	15.8
60°-70°	2078.2	12.6
70°-80°	1207.4	7.3
80°-90°	425.8	2.6
90°-100°	164.5	1.0
100°-110°	125.0	0.8
110°-120°	95.1	0.6
120°-130°	58.0	0.4
130°-140°	28.3	0.2
140°-150°	9.2	0.1
150°-160°	1.4	0.0
160°-170°	0.5	0.0
170°-180°	0.2	0.0
0°-30°	4267.7	25.9
0°-40°	6915.8	42.0
0°-60°	12266.2	74.5
0°-90°	15977.6	97.1
90°-120°	384.6	2.3
90°-150°	480.2	2.9
90°-180°	482.0	2.9
0°-180°	16459.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5554	5554	5554	5554	5554	
5°	5570	5546	5524	5572	5560	528
15°	5328	5346	5312	5322	5316	1501
25°	4852	4868	4842	4878	4872	2231
35°	4172	4182	4206	4278	4320	2607
45°	3340	3374	3596	3772	3756	2581
55°	2478	2624	3014	3144	3218	2220
65°	1644	2056	2244	2224	2194	1629
75°	892	1236	1168	1142	1126	949
85°	248	378	386	372	350	264
90°	94	204	222	210	196	57
95°	96	150	168	146	134	78
105°	78	112	148	122	104	81
115°	40	72	128	114	100	41
125°	16	26	84	94	90	15
135°	6	6	40	62	66	5
145°	4	2	8	26	32	2
155°	2	2	2	2	4	1
165°	2	2	2	2	0	1
175°	4	4	2	2	2	0
180°	2	2	2	2	2	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5554.1	5554.1	5554.1	5554.1	5554.1
2.5°	5580.1	5560.1	5530.1	5570.1	5560.1
5°	5570.1	5546.1	5524.1	5572.1	5560.1
7.5°	5526.1	5522.1	5506.1	5546.1	5536.1
10°	5468.1	5480.1	5454.1	5486.1	5484.1
12.5°	5400.1	5430.1	5400.1	5408.1	5396.1
15°	5328.1	5346.1	5312.1	5322.1	5316.1
17.5°	5228.1	5254.1	5198.1	5248.1	5228.1
20°	5114.1	5140.1	5082.1	5138.1	5124.1
22.5°	4986.1	5010.1	4974.1	5014.1	5004.1
25°	4852.1	4868.1	4842.1	4878.1	4872.1
27.5°	4686.1	4724.1	4690.1	4734.1	4716.1
30°	4538.1	4552.1	4528.1	4582.1	4568.1
32.5°	4360.1	4370.1	4370.1	4418.1	4442.1
35°	4172.1	4182.1	4206.1	4278.1	4320.1
37.5°	3974.1	3996.1	4018.1	4160.1	4206.1
40°	3774.0	3790.0	3844.0	4050.1	4080.1
42.5°	3566.0	3582.0	3706.0	3932.1	3942.1
45°	3340.0	3374.0	3596.0	3772.0	3756.0
47.5°	3126.0	3168.0	3484.0	3568.0	3584.0
50°	2918.0	2966.0	3372.0	3404.0	3446.0
52.5°	2694.0	2786.0	3212.0	3256.0	3344.0
55°	2478.0	2624.0	3014.0	3144.0	3218.0
57.5°	2272.0	2462.0	2798.0	3000.0	3020.0
60°	2052.0	2324.0	2626.0	2798.0	2800.0
62.5°	1842.0	2192.0	2456.0	2522.0	2494.0
65°	1644.0	2056.0	2244.0	2224.0	2194.0
67.5°	1442.0	1882.0	1982.0	1938.0	1918.0
70°	1258.0	1694.0	1690.0	1652.0	1640.0
72.5°	1082.0	1460.0	1420.0	1386.0	1376.0
75°	892.0	1236.0	1168.0	1142.0	1126.0
77.5°	720.0	1004.0	912.0	902.0	890.0
80°	550.0	766.0	704.0	706.0	694.0
82.5°	380.0	550.0	516.0	512.0	498.0
85°	248.0	378.0	386.0	372.0	350.0
87.5°	134.0	264.0	282.0	272.0	256.0
90°	94.0	204.0	222.0	210.0	196.0
92.5°	94.0	172.0	188.0	170.0	158.0
95°	96.0	150.0	168.0	146.0	134.0
97.5°	96.0	136.0	156.0	132.0	118.0
100°	92.0	128.0	152.0	126.0	112.0
102.5°	86.0	120.0	150.0	122.0	108.0
105°	78.0	112.0	148.0	122.0	104.0
107.5°	68.0	104.0	146.0	120.0	104.0
110°	58.0	94.0	142.0	120.0	102.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	50.0	84.0	136.0	118.0	102.0
115°	40.0	72.0	128.0	114.0	100.0
117.5°	32.0	60.0	118.0	110.0	98.0
120°	26.0	48.0	108.0	106.0	96.0
122.5°	20.0	36.0	96.0	100.0	92.0
125°	16.0	26.0	84.0	94.0	90.0
127.5°	12.0	18.0	72.0	88.0	84.0
130°	10.0	10.0	60.0	80.0	78.0
132.5°	8.0	8.0	50.0	72.0	74.0
135°	6.0	6.0	40.0	62.0	66.0
137.5°	6.0	4.0	30.0	54.0	58.0
140°	4.0	4.0	22.0	44.0	48.0
142.5°	4.0	4.0	14.0	36.0	40.0
145°	4.0	2.0	8.0	26.0	32.0
147.5°	4.0	2.0	4.0	18.0	24.0
150°	2.0	2.0	2.0	12.0	16.0
152.5°	2.0	2.0	2.0	6.0	8.0
155°	2.0	2.0	2.0	2.0	4.0
157.5°	2.0	2.0	2.0	2.0	0.0
160°	2.0	2.0	2.0	2.0	0.0
162.5°	2.0	2.0	2.0	2.0	0.0
165°	2.0	2.0	2.0	2.0	0.0
167.5°	4.0	2.0	2.0	2.0	0.0
170°	4.0	2.0	2.0	2.0	0.0
172.5°	4.0	4.0	2.0	2.0	0.0
175°	4.0	4.0	2.0	2.0	2.0
177.5°	4.0	4.0	2.0	2.0	2.0
180°	2.0	2.0	2.0	2.0	2.0

(END OF REPORT)