

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: 127p125

Luminaire Tested: **VT1-132-PC-UNV-EB81-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 127p125  
Test Lab: AMERICUS RESEARCH LABS  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: VT1-132-PC-UNV-EB81-WL-U  
Description: VAPORTITE,1 LAMP T8 WITH CLEAR INTERNAL PRISM  
POLYCARBONATE TALL DROP LENS  
Light Source: ONE 32 WATT T8 - 2850 LUMENS EA  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2850 (1 lamp)  
Luminaire Lumens: 2115.8 lumens  
Efficiency: 74.2%  
Efficacy: 64.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.46 / 1.55  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4.21' x H: 0.17')  
CIE Type: Semi-Direct

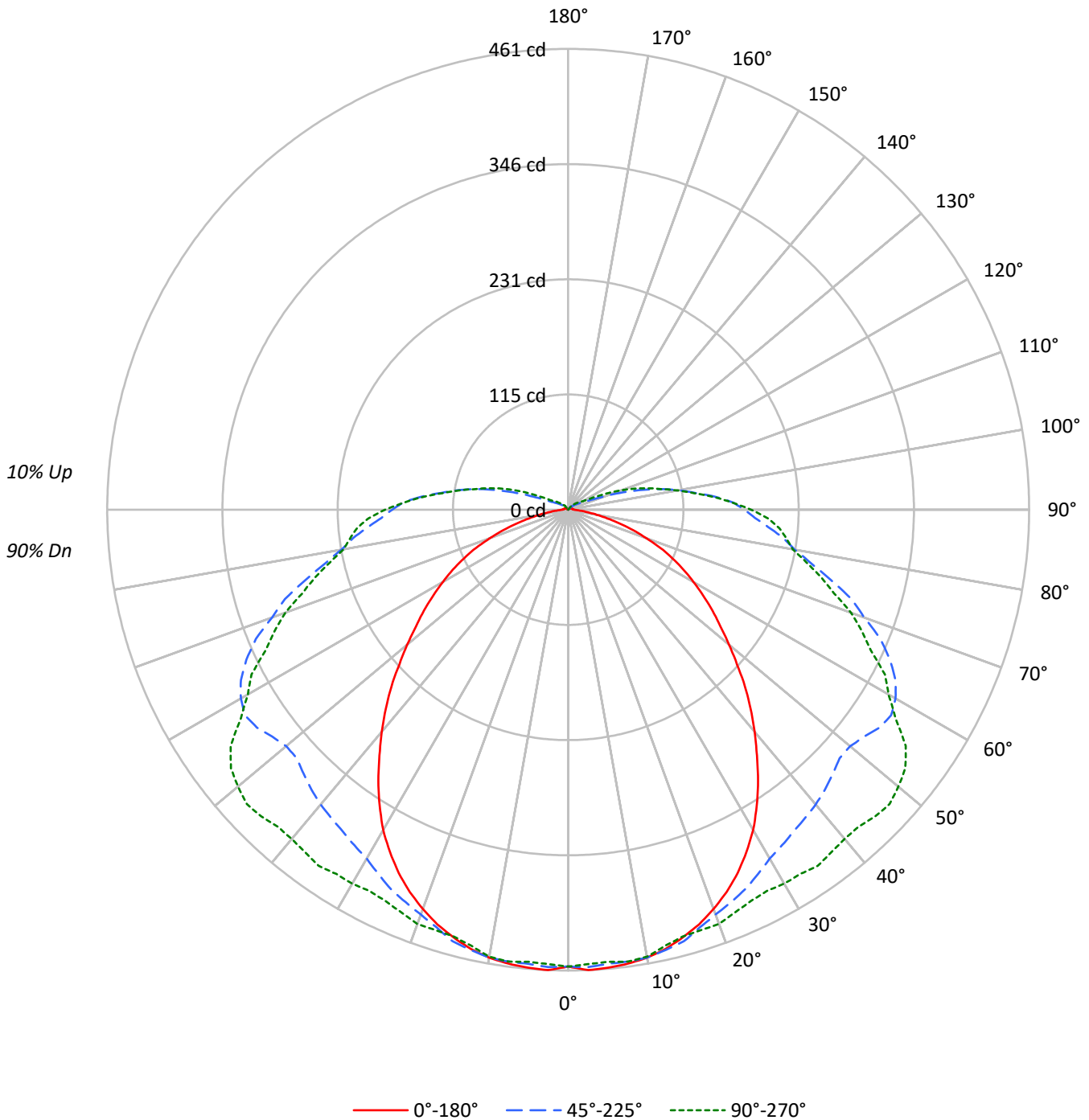
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	87	87	87	87	84	84	84	84	78	78	78	73	73	73	69	69	69	66
1	76	71	67	63	73	69	65	62	64	61	58	60	57	55	56	54	52	50
2	68	61	55	49	65	59	53	48	55	50	46	51	47	44	47	44	41	39
3	61	52	45	40	59	50	44	39	47	42	37	44	39	35	41	37	34	32
4	56	46	38	33	53	44	37	32	41	35	31	39	34	30	36	32	28	26
5	51	40	33	28	49	39	32	27	37	31	26	34	29	25	32	28	24	22
6	47	36	29	24	45	35	28	23	33	27	23	31	26	22	29	24	21	19
7	43	33	26	21	42	32	25	20	30	24	20	28	23	19	26	22	18	17
8	40	30	23	18	39	29	22	18	27	21	17	25	20	17	24	20	16	15
9	38	27	21	16	36	26	20	16	25	19	16	23	19	15	22	18	15	13
10	35	25	19	15	34	24	18	14	23	18	14	22	17	14	21	16	13	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4676	4676	4676
5°	4708	4487	4406
10°	4694	4344	4220
15°	4643	4176	3972
20°	4562	3971	3864
25°	4445	3837	3720
30°	4273	3695	3685
35°	4023	3637	3704
40°	3749	3623	3683
45°	3479	3609	3768
50°	3192	3672	3823
55°	2971	3956	3765
60°	2777	4147	3514
65°	2566	4150	3328
70°	2239	3972	3180
75°	1825	3754	2969
80°	1395	3536	2810
85°	1051	3517	2887



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	43.6	2.1	1.5	0°	457	457	457	457	457	
10°-20°	125.5	5.9	4.4	5°	460	458	456	456	454	44
20°-30°	193.7	9.2	6.8	15°	443	442	447	444	442	125
30°-40°	245.3	11.6	8.6	25°	401	413	419	430	432	184
40°-50°	281.9	13.3	9.9	35°	331	367	393	423	435	207
50°-60°	304.3	14.4	10.7	45°	250	319	374	420	434	193
60°-70°	287.0	13.6	10.1	55°	176	259	380	436	412	158
70°-80°	233.2	11.0	8.2	65°	115	204	355	382	334	114
80°-90°	180.6	8.5	6.3	75°	53	143	272	305	262	57
90°-100°	127.4	6.0	4.5	85°	13	103	201	244	212	14
100°-110°	63.6	3.0	2.2	90°	6	86	176	219	183	3
110°-120°	19.3	0.9	0.7	95°	5	70	148	177	146	4
120°-130°	7.2	0.3	0.3	105°	4	23	77	95	83	4
130°-140°	3.1	0.1	0.1	115°	3	7	19	27	31	3
140°-150°	0.2	0.0	0.0	125°	2	2	9	13	14	1
150°-160°	0.0	0.0	0.0	135°	1	1	4	7	7	1
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	362.7	17.1	12.7	165°	0	0	0	0	0	0
0°-40°	608.0	28.7	21.3	175°	0	0	0	0	0	0
0°-60°	1194.2	56.4	41.9	180°	0	0	0	0	0	0
0°-90°	1895.0	89.6	66.5							
90°-120°	210.3	9.9	7.4							
90°-150°	220.8	10.4	7.7							
90°-180°	221.0	10.4	7.8							
0°-180°	2115.8	100.0	74.2							



TEST NUMBER: 127p125

CATALOG NUMBER: VT1-132-PC-UNV-EB81-WL-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	457	457	457	457	457
2.5°	461	459	458	457	455
5°	460	458	456	456	454
7.5°	458	455	456	458	456
10°	455	452	455	456	454
12.5°	450	448	451	451	447
15°	443	442	447	444	442
17.5°	435	435	438	441	441
20°	425	427	431	440	441
22.5°	414	420	425	435	436
25°	401	413	419	430	432
27.5°	386	404	411	426	430
30°	370	392	403	423	432
32.5°	351	380	398	424	432
35°	331	367	393	423	435
37.5°	310	354	389	422	432
40°	290	342	385	418	430
42.5°	270	332	380	416	430
45°	250	319	374	420	434
47.5°	229	305	368	430	436
50°	210	290	368	437	431
52.5°	192	274	373	439	425
55°	176	259	380	436	412
57.5°	160	245	383	423	388
60°	145	231	378	404	370
62.5°	130	217	369	396	357
65°	115	204	355	382	334
67.5°	100	191	338	358	318
70°	83	175	315	340	301
72.5°	68	158	297	323	279
75°	53	143	272	305	262
77.5°	40	132	249	291	244
80°	29	121	230	274	228
82.5°	20	111	217	258	220
85°	13	103	201	244	212
87.5°	8	94	187	233	200
90°	6	86	176	219	183
92.5°	5	79	165	199	164
95°	5	70	148	177	146
97.5°	4	59	128	154	127
100°	4	45	112	135	111
102.5°	4	32	95	114	95
105°	4	23	77	95	83
107.5°	4	15	58	76	70
110°	4	10	40	57	57



TEST NUMBER: 127p125

CATALOG NUMBER: VT1-132-PC-UNV-EB81-WL-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	3	8	27	39	44
115°	3	7	19	27	31
117.5°	2	5	15	20	22
120°	2	4	13	16	17
122.5°	2	3	11	15	15
125°	2	2	9	13	14
127.5°	1	1	8	11	11
130°	1	1	6	9	10
132.5°	1	1	5	8	8
135°	1	1	4	7	7
137.5°	1	1	3	5	6
140°	1	1	2	4	5
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)