

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: 127p124

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 127p124
Test Lab: AMERICUS RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VT1-132-PCR-UNV-EB81-WL-U
Description: VAPORTITE, 1 LAMP T8 WITH CLEAR CONTOURED LINEAL RIBBED
DROP LENS
Light Source: ONE 32 WATT T8 - 2850 LUMENS EA
Ballast/Driver: -

Summary

Lumens per Lamp: 2850 (1 lamp)
Luminaire Lumens: 2120.6 lumens
Efficiency: 74.4%
Efficacy: 64.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.49 / 1.53
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4.21' x H: 0.17')
CIE Type: Direct

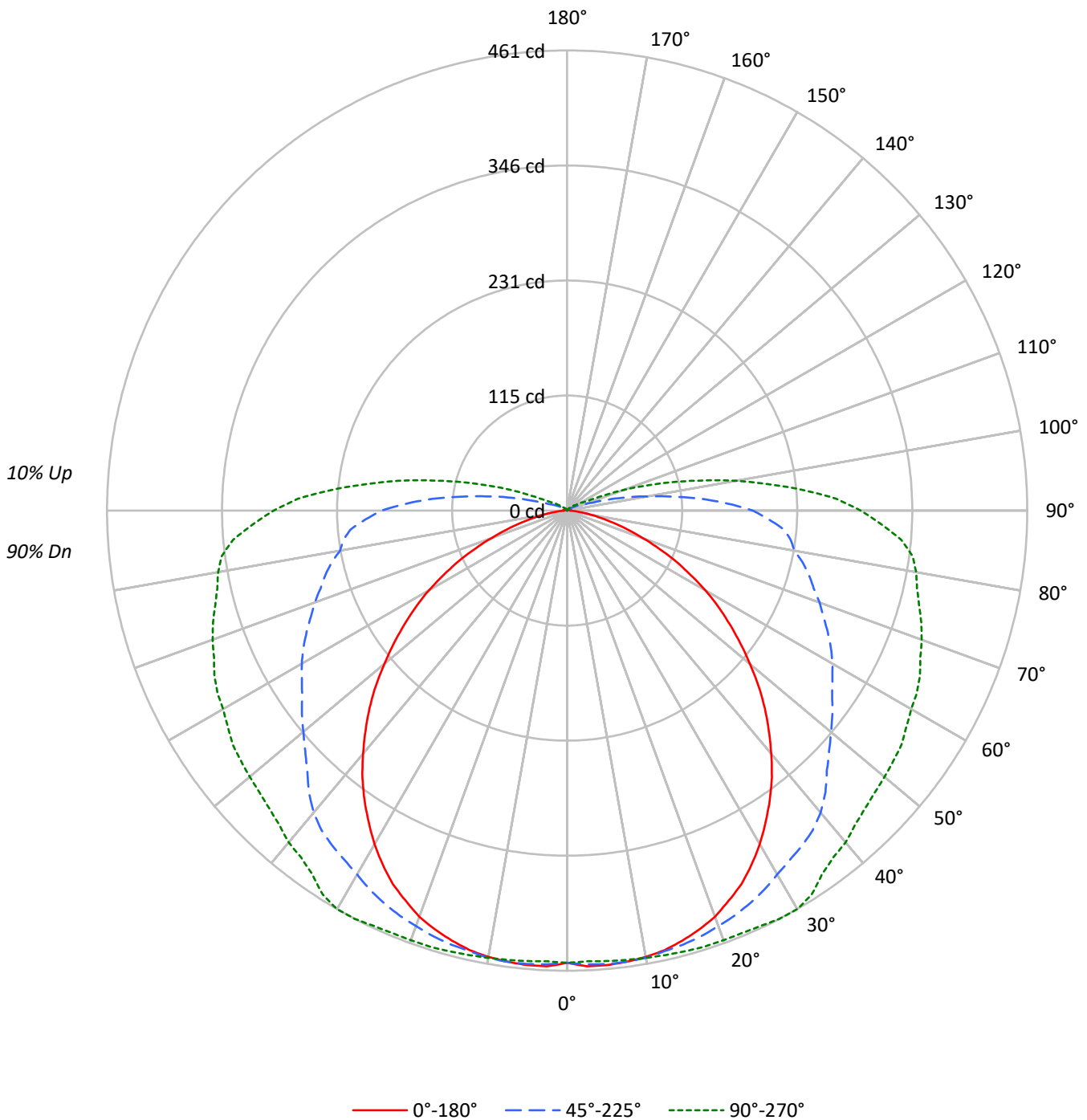
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	79	79	79	74	74	74	69	69	69	67
1	76	71	67	63	73	69	65	61	64	61	58	60	57	55	56	54	52	49
2	68	60	54	49	65	58	53	48	54	50	45	51	47	43	47	44	41	39
3	61	52	45	39	59	50	44	39	47	41	37	44	39	35	41	37	34	32
4	56	46	38	33	53	44	37	32	41	35	31	39	34	29	36	32	28	26
5	51	41	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	25	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	22	18	26	21	17	24	20	16	15
9	38	27	21	16	36	26	20	16	25	19	16	24	19	15	22	18	15	13
10	35	25	19	15	34	24	18	15	23	18	14	22	17	14	21	16	13	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4635	4635	4635
5°	4677	4487	4396
10°	4684	4344	4230
15°	4674	4204	4107
20°	4647	4081	4013
25°	4578	3974	3953
30°	4458	3860	3933
35°	4302	3794	3789
40°	4111	3718	3717
45°	3897	3551	3664
50°	3633	3442	3681
55°	3360	3373	3737
60°	3064	3368	3780
65°	2678	3367	3886
70°	2185	3392	3993
75°	1688	3465	4137
80°	1203	3551	4375
85°	727	3815	4576



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	43.5	2.1	1.5	0°	453	453	453	453	453	
10°-20°	127.5	6.0	4.5	5°	457	456	456	456	453	44
20°-30°	200.5	9.5	7.0	15°	446	445	450	457	457	126
30°-40°	253.5	12.0	8.9	25°	413	414	434	453	459	190
40°-50°	277.8	13.1	9.7	35°	354	370	410	442	445	221
50°-60°	282.8	13.3	9.9	45°	280	309	368	408	422	216
60°-70°	270.0	12.7	9.5	55°	199	249	324	386	409	178
70°-80°	244.4	11.5	8.6	65°	120	183	288	363	390	118
80°-90°	210.9	9.9	7.4	75°	49	130	251	336	365	53
90°-100°	137.0	6.5	4.8	85°	9	87	218	307	336	11
100°-110°	53.9	2.5	1.9	90°	3	66	186	266	294	2
110°-120°	13.0	0.6	0.5	95°	4	37	135	209	237	3
120°-130°	4.3	0.2	0.2	105°	2	8	42	91	110	2
130°-140°	1.4	0.1	0.0	115°	1	1	12	20	24	1
140°-150°	0.1	0.0	0.0	125°	1	1	4	8	9	1
150°-160°	0.0	0.0	0.0	135°	1	1	1	3	4	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°	371.5	17.5	13.0	165°	0	0	0	0	0	0
0°-40°	625.0	29.5	21.9	175°	0	0	0	0	0	0
0°-60°	1185.6	55.9	41.6	180°	0	0	0	0	0	0
0°-90°	1910.9	90.1	67.0							
90°-120°	203.9	9.6	7.2							
90°-150°	209.7	9.9	7.4							
90°-180°	210.0	9.9	7.4							
0°-180°	2120.6	100.0	74.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	453	453	453	453	453
2.5°	457	456	455	454	452
5°	457	456	456	456	453
7.5°	456	456	456	457	454
10°	454	454	455	457	455
12.5°	451	450	452	457	456
15°	446	445	450	457	457
17.5°	440	438	447	457	458
20°	433	431	443	456	458
22.5°	423	423	439	454	458
25°	413	414	434	453	459
27.5°	400	404	428	452	461
30°	386	394	421	452	461
32.5°	370	382	415	450	456
35°	354	370	410	442	445
37.5°	337	355	404	429	438
40°	318	341	395	422	434
42.5°	299	326	383	415	427
45°	280	309	368	408	422
47.5°	260	292	356	401	418
50°	239	277	345	396	415
52.5°	219	264	335	391	412
55°	199	249	324	386	409
57.5°	180	233	315	381	403
60°	160	217	307	374	398
62.5°	139	199	298	369	395
65°	120	183	288	363	390
67.5°	100	169	278	356	383
70°	81	155	269	349	378
72.5°	64	142	259	344	372
75°	49	130	251	336	365
77.5°	35	118	242	328	359
80°	25	106	231	323	355
82.5°	16	97	226	319	349
85°	9	87	218	307	336
87.5°	5	78	202	286	315
90°	3	66	186	266	294
92.5°	4	53	161	242	270
95°	4	37	135	209	237
97.5°	3	25	107	178	203
100°	3	16	82	148	172
102.5°	2	11	61	117	139
105°	2	8	42	91	110
107.5°	1	5	26	66	84
110°	1	3	19	45	61



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1	2	15	27	39
115°	1	1	12	20	24
117.5°	1	1	9	16	18
120°	1	1	7	13	15
122.5°	1	1	5	10	11
125°	1	1	4	8	9
127.5°	1	1	3	7	8
130°	1	1	2	5	6
132.5°	1	1	1	4	4
135°	1	1	1	3	4
137.5°	1	1	0	2	3
140°	1	1	1	1	2
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)