

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: P30246

Luminaire Tested: **VT3-132DR-UNV-EB81-WL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P30246
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VT3-132DR-UNV-EB81-WL
Description: METALUX VAPORTITE 4FT FLUORESCENT LUMINAIRE
GEAR TRAY WITH A CLEAR PRISMATIC PATTERNED LENS
Light Source: ONE (1) 32W T8 LAMP
Ballast/Driver: -
B1321UNVHE-B

Summary

Lumens per Lamp: 3100 (1 lamp)
Luminaire Lumens: 2727.8 lumens
Efficiency: 88.0%
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.47 / 1.53
Luminous Opening: Rectangular (W 0.54' x L: 4' x H: 0')
CIE Type: Direct

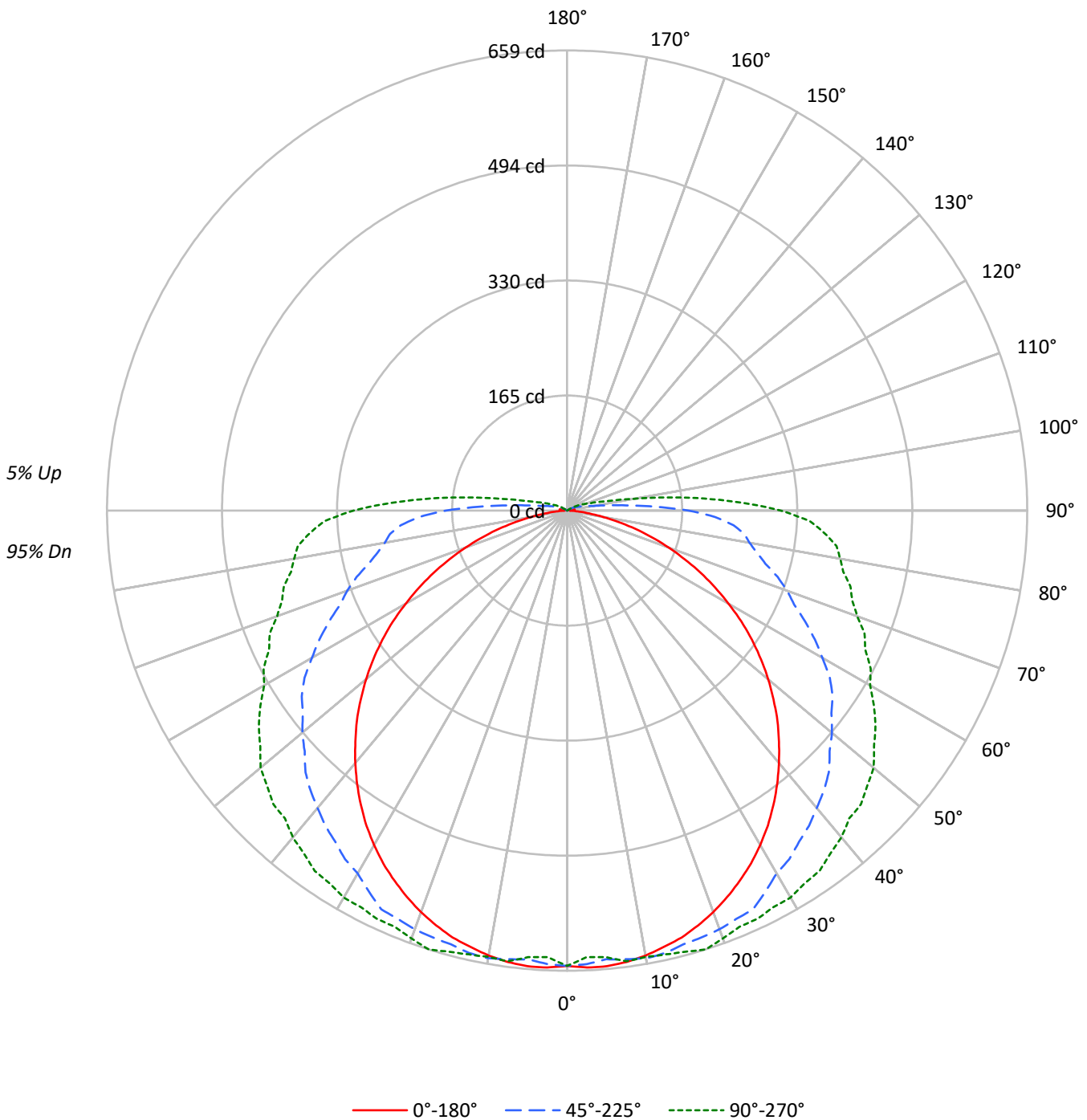
Input Watts (W): 29.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	104	104	104	101	101	101	101	95	95	95	90	90	90	85	85	85	83
1	91	86	81	77	88	83	79	75	79	75	72	74	71	68	70	68	66	63
2	82	73	66	60	79	71	64	59	67	62	57	63	59	55	60	56	53	50
3	74	63	55	49	71	62	54	48	58	52	46	55	49	45	52	47	43	41
4	67	56	47	40	65	54	46	40	51	44	39	48	42	38	46	41	37	34
5	62	49	41	34	59	48	40	34	46	38	33	43	37	32	41	36	31	29
6	57	44	36	30	55	43	35	29	41	34	29	39	33	28	37	32	27	25
7	53	40	32	26	51	39	31	26	37	30	25	35	29	24	34	28	24	22
8	49	36	28	23	47	35	28	23	34	27	22	32	26	22	31	25	21	19
9	46	33	26	20	44	32	25	20	31	24	20	30	24	19	28	23	19	17
10	43	30	23	18	41	30	23	18	29	22	18	27	22	18	26	21	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3239	3239	3239
5°	3266	3217	3202
10°	3264	3284	3274
15°	3256	3307	3364
20°	3236	3373	3447
25°	3207	3453	3536
30°	3172	3442	3671
35°	3123	3511	3821
40°	3061	3606	3962
45°	2993	3724	4180
50°	2906	3826	4429
55°	2798	4019	4668
60°	2653	4193	4978
65°	2480	4420	5537
70°	2251	4866	6420
75°	1939	5643	8062
80°	1488	7581	11358
85°	969	13623	21090



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	61.9	2.3	2.0	0°	652	652	652	652	652	
10°-20°	182.3	6.7	5.9	5°	655	649	645	648	642	62
20°-30°	286.0	10.5	9.2	15°	633	633	643	656	654	178
30°-40°	362.0	13.3	11.7	25°	585	594	630	642	645	270
40°-50°	401.6	14.7	13.0	35°	515	538	579	621	630	322
50°-60°	400.3	14.7	12.9	45°	426	464	530	575	595	328
60°-70°	358.5	13.1	11.6	55°	323	375	464	522	539	289
70°-80°	296.6	10.9	9.6	65°	211	279	376	450	471	208
80°-90°	232.9	8.5	7.5	75°	101	175	294	387	420	107
90°-100°	107.2	3.9	3.5	85°	17	103	239	338	370	21
100°-110°	28.3	1.0	0.9	90°	4	53	174	273	306	3
110°-120°	9.6	0.4	0.3	95°	11	22	85	167	197	8
120°-130°	0.6	0.0	0.0	105°	7	6	24	41	48	7
130°-140°	0.0	0.0	0.0	115°	2	1	10	16	17	2
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
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°	530.2	19.4	17.1	165°	0	0	0	0	0	0
0°-40°	892.2	32.7	28.8	175°	0	0	0	0	0	0
0°-60°	1694.1	62.1	54.6	180°	0	0	0	0	0	0
0°-90°	2582.1	94.7	83.3							
90°-120°	145.0	5.3	4.7							
90°-150°	145.6	5.3	4.7							
90°-180°	146.0	5.4	4.7							
0°-180°	2727.8	100.0	88.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	652	652	652	652	652
2.5°	655	653	650	648	640
5°	655	649	645	648	642
7.5°	652	642	648	656	651
10°	647	640	651	657	649
12.5°	640	636	649	654	651
15°	633	633	643	656	654
17.5°	623	627	641	657	659
20°	612	619	638	660	652
22.5°	599	608	633	647	645
25°	585	594	630	642	645
27.5°	570	581	615	638	640
30°	553	569	600	632	640
32.5°	535	555	592	629	633
35°	515	538	579	621	630
37.5°	494	523	569	614	619
40°	472	508	556	599	611
42.5°	449	488	544	590	598
45°	426	464	530	575	595
47.5°	401	441	510	569	583
50°	376	420	495	556	573
52.5°	350	397	477	541	554
55°	323	375	464	522	539
57.5°	296	353	446	502	521
60°	267	330	422	484	501
62.5°	239	304	400	461	490
65°	211	279	376	450	471
67.5°	182	256	352	433	461
70°	155	232	335	414	442
72.5°	127	202	316	400	428
75°	101	175	294	387	420
77.5°	75	153	278	374	405
80°	52	132	265	365	397
82.5°	32	116	256	357	389
85°	17	103	239	338	370
87.5°	8	79	212	314	348
90°	4	53	174	273	306
92.5°	6	32	126	220	252
95°	11	22	85	167	197
97.5°	11	15	55	118	143
100°	10	11	39	80	98
102.5°	8	8	30	55	66
105°	7	6	24	41	48
107.5°	5	4	19	32	36
110°	4	3	15	26	29



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3	2	13	21	23
115°	2	1	10	16	17
117.5°	2	1	7	12	13
120°	2	1	5	8	10
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
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)