

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: 10865

Luminaire Tested: **VT3-128T5DR-UNV-EBT1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 10865
Test Lab: LUMINAIRE TESTING LABORATORY, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VT3-128T5DR-UNV-EBT1-WL-U
Description: MOLDED ACRYLIC HOUSING, FORMED WHITE ENAMEL STEEL REFLECTOR,
CLEAR LINEAR PRISMATIC AND PATTERNED LENS.
Light Source: ONE - Philips F28T5/841 - 28 WATTS ea. - 2610 LUMENS ea.

Ballast/Driver: ONE - ULT - B228PUNV-C

Summary

Lumens per Lamp: 2610 (1 lamp)
Luminaire Lumens: 2059.9 lumens
Efficiency: 78.9%
Efficacy: 68.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.47 / 1.52
Luminous Opening: Rectangular w/ Sides (W: 0.48' x L: 4.1' x H: 0.16')
CIE Type: Direct

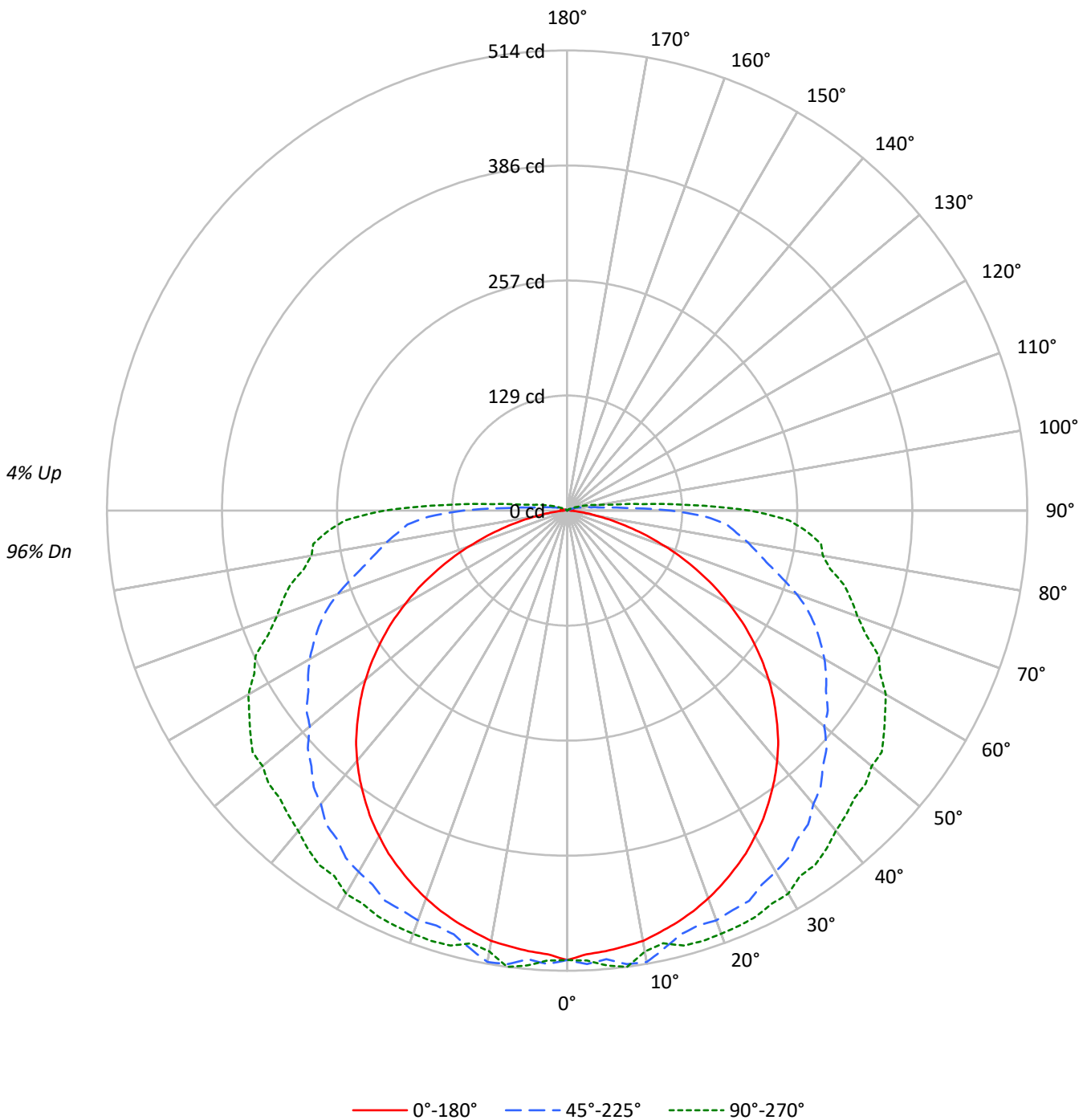
Input Watts (W): 30
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	93	93	93	91	91	91	91	86	86	86	82	82	82	78	78	78	76
1	82	77	73	69	80	75	71	68	71	68	65	68	65	62	64	62	60	58
2	74	66	59	54	71	64	58	53	61	56	51	58	53	50	55	51	48	46
3	67	57	50	44	64	56	49	43	53	47	42	50	45	41	48	43	40	38
4	61	50	42	36	58	49	41	36	46	40	35	44	39	34	42	37	33	31
5	56	44	37	31	54	43	36	30	41	35	30	39	34	29	37	33	29	27
6	51	40	32	26	49	39	31	26	37	31	26	35	30	25	34	29	25	23
7	47	36	28	23	46	35	28	23	33	27	23	32	26	22	31	26	22	20
8	44	33	25	20	42	32	25	20	31	24	20	29	24	20	28	23	19	18
9	41	30	23	18	40	29	23	18	28	22	18	27	22	18	26	21	17	16
10	38	27	21	16	37	27	21	16	26	20	16	25	20	16	24	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2746	2746	2746
5°	2703	2699	2721
10°	2692	2717	2623
15°	2667	2592	2615
20°	2646	2587	2611
25°	2620	2585	2612
30°	2594	2555	2616
35°	2561	2526	2615
40°	2523	2503	2606
45°	2464	2474	2634
50°	2390	2429	2704
55°	2285	2446	2791
60°	2141	2494	2850
65°	1947	2531	2898
70°	1675	2533	2880
75°	1310	2483	3014
80°	877	2590	3160
85°	521	2802	3510



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	48.1	2.3	1.8	0°	502	502	502	502	502	
10°-20°	139.6	6.8	5.3	5°	494	502	503	507	510	47
20°-30°	218.7	10.6	8.4	15°	476	495	490	499	503	134
30°-40°	277.2	13.5	10.6	25°	442	452	481	494	500	204
40°-50°	307.9	14.9	11.8	35°	394	411	448	471	483	247
50°-60°	312.3	15.2	12.0	45°	331	356	404	441	454	255
60°-70°	284.1	13.8	10.9	55°	253	290	353	412	432	226
70°-80°	228.6	11.1	8.8	65°	163	209	306	362	384	161
80°-90°	169.1	8.2	6.5	75°	71	138	233	294	320	76
90°-100°	55.5	2.7	2.1	85°	12	75	179	244	269	14
100°-110°	13.7	0.7	0.5	90°	3	39	116	179	204	2
110°-120°	3.8	0.2	0.1	95°	6	14	39	69	83	5
120°-130°	1.1	0.1	0.0	105°	5	4	13	20	22	5
130°-140°	0.1	0.0	0.0	115°	2	1	3	5	6	2
140°-150°	0.0	0.0	0.0	125°	0	0	1	3	3	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	1	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°	406.5	19.7	15.6	165°	0	0	0	0	0	0
0°-40°	683.7	33.2	26.2	175°	0	0	0	0	0	0
0°-60°	1303.8	63.3	50.0	180°	0	0	0	0	0	0
0°-90°	1985.6	96.4	76.1							
90°-120°	73.0	3.5	2.8							
90°-150°	74.3	3.6	2.8							
90°-180°	74.0	3.6	2.8							
0°-180°	2059.9	100.0	78.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	502	502	502	502	502
2.5°	496	504	507	503	503
5°	494	502	503	507	510
7.5°	491	498	511	514	514
10°	488	496	512	502	500
12.5°	482	497	501	494	495
15°	476	495	490	499	503
17.5°	469	490	486	498	504
20°	461	480	487	500	503
22.5°	452	467	483	493	502
25°	442	452	481	494	500
27.5°	432	440	471	488	495
30°	420	430	466	485	494
32.5°	408	422	460	479	484
35°	394	411	448	471	483
37.5°	380	399	442	464	476
40°	365	387	428	459	467
42.5°	349	371	419	444	461
45°	331	356	404	441	454
47.5°	313	341	393	430	452
50°	294	324	375	427	444
52.5°	274	307	367	418	443
55°	253	290	353	412	432
57.5°	232	269	343	403	421
60°	209	249	332	389	411
62.5°	187	229	319	380	394
65°	163	209	306	362	384
67.5°	140	191	291	344	361
70°	116	174	273	325	345
72.5°	93	156	252	310	333
75°	71	138	233	294	320
77.5°	51	123	218	281	301
80°	34	103	205	271	290
82.5°	21	86	191	259	286
85°	12	75	179	244	269
87.5°	5	59	155	223	248
90°	3	39	116	179	204
92.5°	3	22	66	118	140
95°	6	14	39	69	83
97.5°	6	10	27	43	51
100°	7	7	21	32	37
102.5°	5	5	16	25	29
105°	5	4	13	20	22
107.5°	4	2	10	15	17
110°	3	2	7	11	12



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2	2	5	8	9
115°	2	1	3	5	6
117.5°	2	0	2	5	5
120°	1	0	2	3	4
122.5°	0	0	2	3	3
125°	0	0	1	3	3
127.5°	0	0	0	2	3
130°	0	0	0	1	2
132.5°	0	0	0	0	2
135°	0	0	0	0	1
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)