

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: 122p110

Luminaire Tested: **SNF-128T5-UNV-EBT-1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 122p110
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SNF-128T5-UNV-EBT-1
Description: COMMERCIAL NARROW STRIP, T5 LAMP
Light Source: ONET5 LINEAR FLUORESCENT LAMP
F28T5/835 28 WATTS
Ballast/Driver: -

Summary

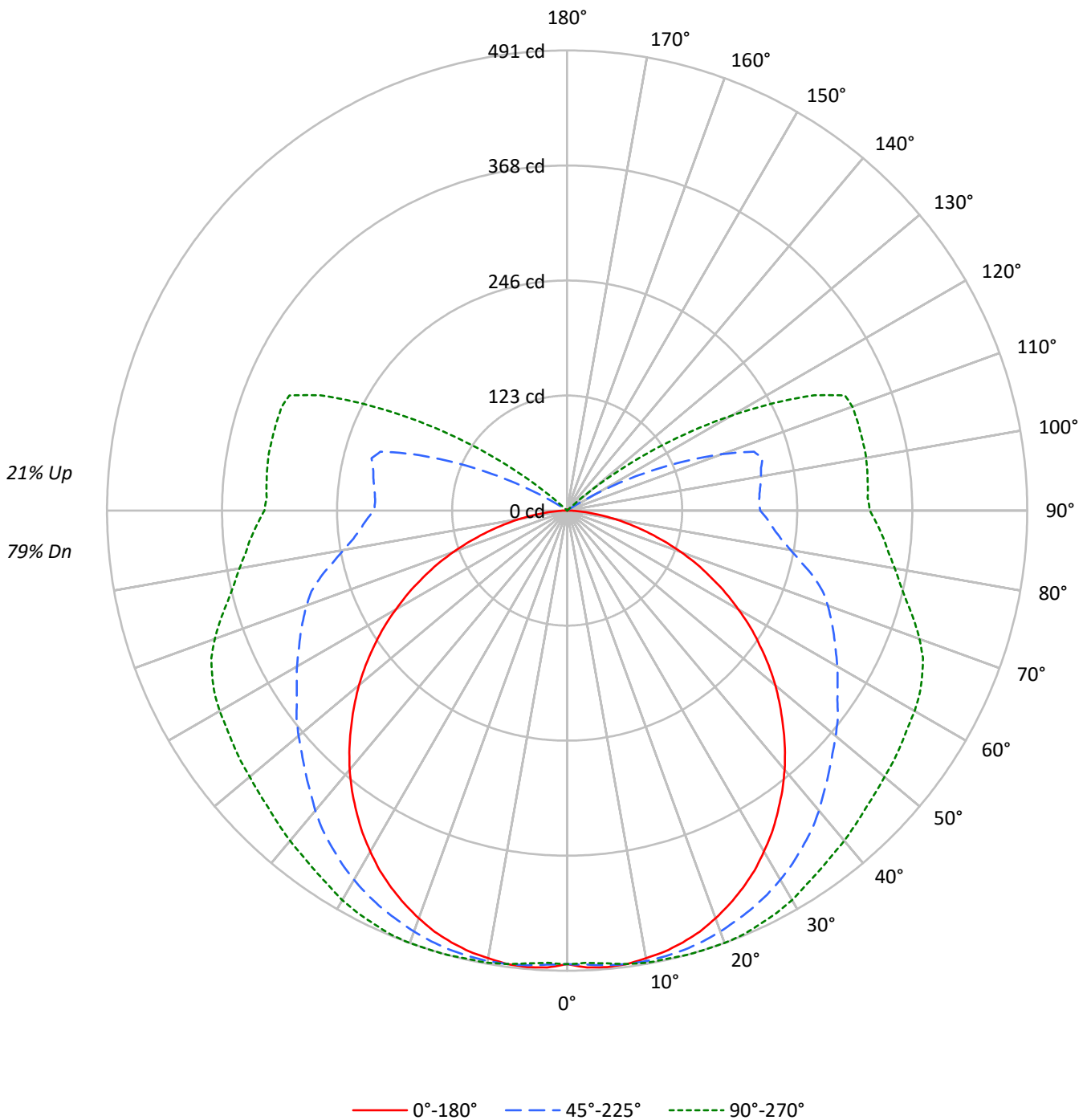
Lumens per Lamp: 2600 (1 lamp)
Luminaire Lumens: 2623.9 lumens
Efficiency: 100.9%
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.48 / 1.54
Luminous Opening: Rectangular (W 0.23' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

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	115	115	115	115	110	110	110	110	100	100	100	92	92	92	84	84	84	80
1	101	95	89	84	96	91	86	81	82	78	75	75	72	69	68	65	63	59
2	91	81	73	66	86	77	70	63	70	64	59	63	59	54	57	53	50	46
3	82	70	61	53	77	67	58	51	61	54	48	55	49	44	50	45	41	38
4	74	61	52	44	70	58	50	43	53	46	40	48	42	37	44	39	34	31
5	68	54	44	37	64	52	43	36	47	40	34	43	37	31	39	34	29	26
6	63	48	39	32	59	46	37	31	42	35	29	39	32	27	35	30	25	23
7	58	44	34	28	55	42	33	27	38	31	25	35	29	24	32	26	22	20
8	54	40	31	25	51	38	30	24	35	28	22	32	26	21	29	24	20	18
9	50	36	28	22	48	35	27	21	32	25	20	29	23	19	27	22	18	16
10	47	33	25	20	45	32	24	19	29	23	18	27	21	17	25	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5930	5930	5930
5°	6015	5990	5965
10°	6034	6072	6097
15°	6051	6152	6228
20°	6037	6233	6402
25°	6003	6327	6584
30°	5942	6438	6791
35°	5864	6552	7015
40°	5774	6686	7358
45°	5649	6845	7798
50°	5528	7129	8426
55°	5362	7520	9293
60°	5171	8160	10489
65°	4929	9104	12119
70°	4621	10604	14330
75°	4166	12877	17753
80°	3599	17076	25050
85°	2812	31070	47659



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	46.5	1.8	1.8	0°	484	484	484	484	484	
10°-20°	137.1	5.2	5.3	5°	489	487	487	488	485	47
20°-30°	215.6	8.2	8.3	15°	477	479	485	491	491	135
30°-40°	272.3	10.4	10.5	25°	444	452	468	484	487	205
40°-50°	303.7	11.6	11.7	35°	392	409	438	461	469	245
50°-60°	313.0	11.9	12.0	45°	326	353	395	435	450	252
60°-70°	301.9	11.5	11.6	55°	251	290	352	412	435	225
70°-80°	266.8	10.2	10.3	65°	170	221	314	390	418	168
80°-90°	222.0	8.5	8.5	75°	88	157	272	348	375	94
90°-100°	203.7	7.8	7.8	85°	20	101	221	307	339	23
100°-110°	187.5	7.1	7.2	90°	1	85	206	292	323	1
110°-120°	120.2	4.6	4.6	95°	0	87	206	291	322	0
120°-130°	32.3	1.2	1.2	105°	0	42	216	296	324	0
130°-140°	0.9	0.0	0.0	115°	0	1	103	241	291	0
140°-150°	0.1	0.0	0.0	125°	0	0	0	74	114	0
150°-160°	0.1	0.0	0.0	135°	1	0	0	0	0	1
160°-170°	0.0	0.0	0.0	145°	1	0	0	0	0	1
170°-180°	0.0	0.0	0.0	155°	1	1	0	0	0	0
0°-30°	399.2	15.2	15.4	165°	0	0	0	0	0	0
0°-40°	671.5	25.6	25.8	175°	0	0	0	0	0	0
0°-60°	1288.3	49.1	49.5	180°	0	0	0	0	0	0
0°-90°	2079.0	79.2	80.0							
90°-120°	511.4	19.5	19.7							
90°-150°	544.8	20.8	21.0							
90°-180°	545.0	20.8	21.0							
0°-180°	2623.9	100.0	100.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	484	484	484	484	484
2.5°	488	486	485	485	483
5°	489	487	487	488	485
7.5°	488	487	488	490	488
10°	485	485	488	491	490
12.5°	482	483	487	491	490
15°	477	479	485	491	491
17.5°	471	474	482	490	491
20°	463	468	478	488	491
22.5°	454	460	473	486	490
25°	444	452	468	484	487
27.5°	433	443	462	480	484
30°	420	432	455	474	480
32.5°	407	421	447	468	474
35°	392	409	438	461	469
37.5°	377	396	429	453	464
40°	361	382	418	447	460
42.5°	344	368	406	441	455
45°	326	353	395	435	450
47.5°	308	339	384	428	446
50°	290	323	374	422	442
52.5°	271	307	364	417	439
55°	251	290	352	412	435
57.5°	232	273	342	406	431
60°	211	255	333	401	428
62.5°	191	238	323	396	424
65°	170	221	314	390	418
67.5°	150	204	305	383	411
70°	129	187	296	374	400
72.5°	108	172	286	361	388
75°	88	157	272	348	375
77.5°	69	144	256	335	364
80°	51	131	242	325	355
82.5°	34	116	230	315	346
85°	20	101	221	307	339
87.5°	8	91	214	300	331
90°	1	85	206	292	323
92.5°	0	84	205	291	321
95°	0	87	206	291	322
97.5°	0	90	208	292	323
100°	0	90	210	294	324
102.5°	0	67	212	295	324
105°	0	42	216	296	324
107.5°	0	18	209	296	324
110°	0	3	176	297	324



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	1	140	280	321
115°	0	1	103	241	291
117.5°	0	1	68	198	248
120°	0	0	36	156	203
122.5°	0	0	9	114	158
125°	0	0	0	74	114
127.5°	0	0	0	37	73
130°	0	0	0	8	34
132.5°	1	0	0	0	6
135°	1	0	0	0	0
137.5°	1	1	0	0	0
140°	1	0	0	0	0
142.5°	1	0	0	0	0
145°	1	0	0	0	0
147.5°	1	1	0	0	0
150°	1	1	0	0	0
152.5°	1	1	0	0	0
155°	1	1	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)