

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: 122p115

Luminaire Tested: **SNF-214T5-UNV-EBT-1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 122p115
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SNF-214T5-UNV-EBT-1
Description: 2' COMMERCIAL WIDE STRIP, T5 LAMP
Light Source: TWO T5 LINEAR FLUORESCENT LAMPS
F14T5/835 14 WATTS
Ballast/Driver: -

Summary

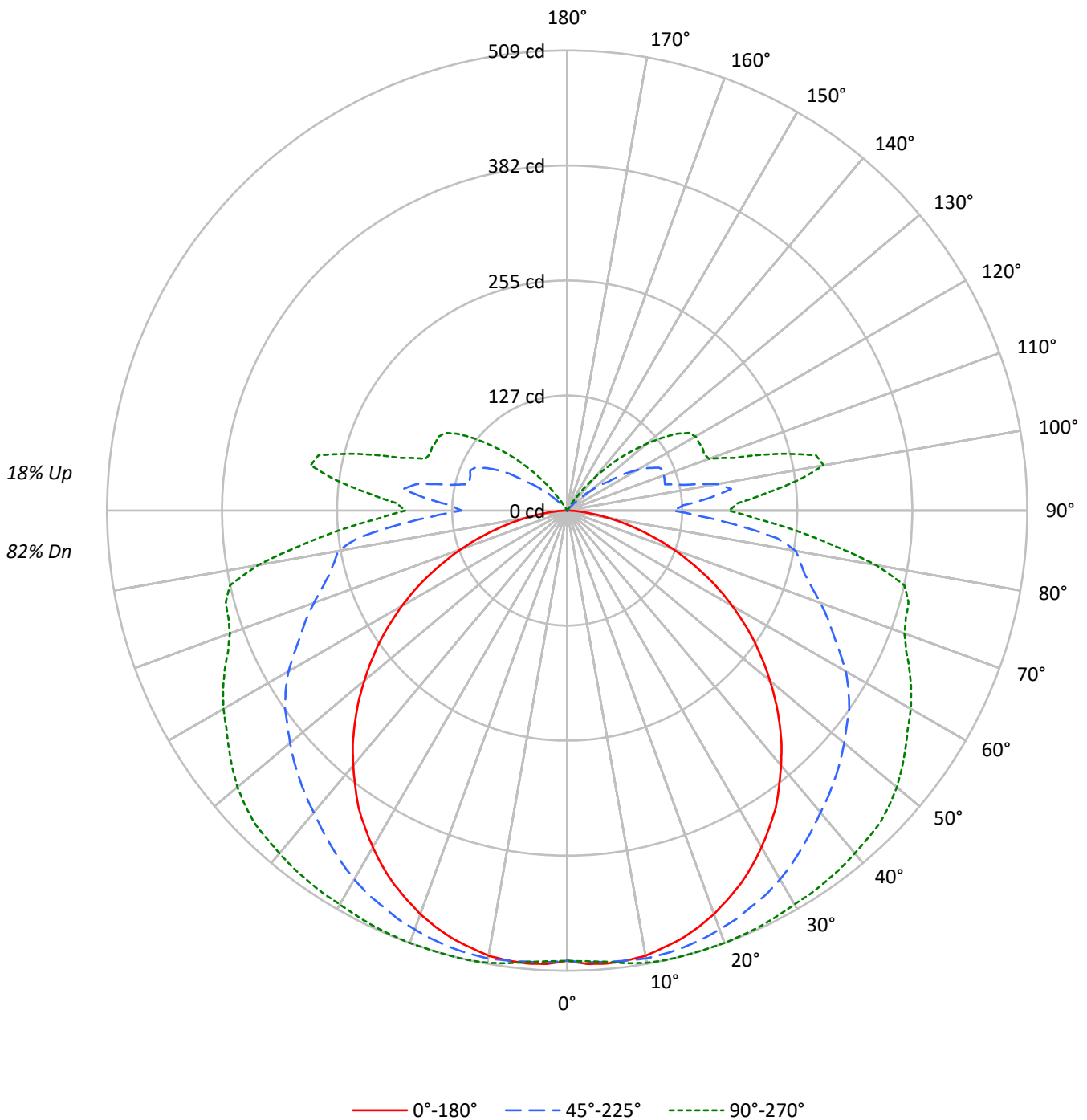
Lumens per Lamp: 1350 (2 lamps)
Luminaire Lumens: 2564.6 lumens
Efficiency: 95.0%
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.53 / 1.57
Luminous Opening: Rectangular (W 0.35' x L: 1.88' x H: 0')
CIE Type: Semi-Direct

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

TEST NUMBER: 122p115

CATALOG NUMBER: SNF-214T5-UNV-EBT-1

Luminous Intensity Polar Plot





TEST NUMBER: 122p115

CATALOG NUMBER: SNF-214T5-UNV-EBT-1

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	109	109	109	109	105	105	105	105	96	96	96	89	89	89	81	81	81	78
1	96	91	86	81	92	87	82	78	80	76	72	73	70	67	67	64	62	59
2	86	77	70	63	82	74	67	61	68	62	57	62	57	53	57	53	50	47
3	78	67	58	51	74	64	56	49	59	52	46	54	48	43	49	45	41	38
4	71	58	49	42	67	56	48	41	51	44	39	47	41	36	43	38	34	31
5	65	52	43	36	62	50	41	35	46	38	33	42	36	31	38	33	29	26
6	60	46	37	31	57	44	36	30	41	34	28	38	31	27	35	29	25	23
7	55	42	33	27	52	40	32	26	37	30	25	34	28	23	31	26	22	20
8	51	38	29	24	49	36	28	23	34	27	22	31	25	21	29	24	20	18
9	48	34	26	21	45	33	26	20	31	24	19	29	23	19	27	21	18	16
10	45	32	24	19	42	31	23	18	28	22	18	26	21	17	25	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8072	8072	8072
5°	8184	8152	8152
10°	8230	8279	8361
15°	8223	8390	8542
20°	8193	8504	8780
25°	8138	8638	9068
30°	8048	8816	9415
35°	7955	8984	9894
40°	7787	9226	10474
45°	7611	9605	11209
50°	7389	10087	12003
55°	7150	10767	12915
60°	6840	11541	14232
65°	6444	12465	16032
70°	5924	14123	18815
75°	5198	17035	24487
80°	4294	23990	32391
85°	2976	35336	47239



TEST NUMBER: 122p115

CATALOG NUMBER: SNF-214T5-UNV-EBT-1

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	47.9	1.9	1.8	0°	498	498	498	498	498	
10°-20°	141.2	5.5	5.2	5°	503	503	501	501	501	48
20°-30°	222.6	8.7	8.2	15°	490	492	500	506	509	138
30°-40°	283.8	11.1	10.5	25°	455	465	483	500	507	209
40°-50°	320.8	12.5	11.9	35°	402	421	454	486	500	251
50°-60°	329.2	12.8	12.2	45°	332	363	419	469	489	256
60°-70°	309.7	12.1	11.5	55°	253	299	381	437	457	226
70°-80°	272.9	10.6	10.1	65°	168	238	325	394	418	166
80°-90°	182.5	7.1	6.8	75°	83	166	272	359	391	89
90°-100°	146.5	5.7	5.4	85°	16	110	190	237	254	20
100°-110°	131.5	5.1	4.9	90°	1	58	117	162	179	1
110°-120°	90.0	3.5	3.3	95°	0	76	157	205	221	0
120°-130°	58.3	2.3	2.2	105°	0	54	112	200	243	0
130°-140°	23.4	0.9	0.9	115°	0	20	112	152	165	0
140°-150°	3.9	0.2	0.1	125°	0	1	56	126	148	0
150°-160°	0.2	0.0	0.0	135°	0	0	15	62	81	0
160°-170°	0.0	0.0	0.0	145°	1	1	0	8	19	1
170°-180°	0.0	0.0	0.0	155°	1	1	1	0	0	0
0°-30°	411.8	16.1	15.3	165°	0	0	0	0	0	0
0°-40°	695.6	27.1	25.8	175°	0	0	0	0	0	0
0°-60°	1345.5	52.5	49.8	180°	0	0	0	0	0	0
0°-90°	2110.6	82.3	78.2							
90°-120°	368.1	14.4	13.6							
90°-150°	453.8	17.7	16.8							
90°-180°	454.0	17.7	16.8							
0°-180°	2564.6	100.0	95.0							



TEST NUMBER: 122p115

CATALOG NUMBER: SNF-214T5-UNV-EBT-1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	498	498	498	498	498
2.5°	502	502	500	499	499
5°	503	503	501	501	501
7.5°	502	502	502	503	505
10°	500	500	503	506	508
12.5°	495	497	502	506	509
15°	490	492	500	506	509
17.5°	483	487	497	505	509
20°	475	481	493	504	509
22.5°	465	473	489	502	508
25°	455	465	483	500	507
27.5°	443	456	478	496	505
30°	430	445	471	493	503
32.5°	416	433	463	489	502
35°	402	421	454	486	500
37.5°	385	407	445	482	498
40°	368	393	436	479	495
42.5°	351	378	428	474	492
45°	332	363	419	469	489
47.5°	313	347	410	463	483
50°	293	331	400	456	476
52.5°	273	315	390	447	467
55°	253	299	381	437	457
57.5°	232	283	369	425	447
60°	211	268	356	415	439
62.5°	190	253	340	405	429
65°	168	238	325	394	418
67.5°	146	222	312	381	406
70°	125	207	298	370	397
72.5°	104	187	284	362	393
75°	83	166	272	359	391
77.5°	64	148	264	354	382
80°	46	133	257	328	347
82.5°	30	121	234	282	298
85°	16	110	190	237	254
87.5°	6	84	149	194	210
90°	1	58	117	162	179
92.5°	1	65	128	173	189
95°	0	76	157	205	221
97.5°	0	58	183	241	258
100°	0	56	169	263	288
102.5°	0	57	131	244	282
105°	0	54	112	200	243
107.5°	0	46	113	160	194
110°	0	37	114	151	167



TEST NUMBER: 122p115

CATALOG NUMBER: SNF-214T5-UNV-EBT-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	29	116	152	164
115°	0	20	112	152	165
117.5°	0	11	102	153	164
120°	0	5	90	150	164
122.5°	0	2	76	141	160
125°	0	1	56	126	148
127.5°	0	0	46	110	132
130°	0	0	35	94	115
132.5°	0	0	25	77	98
135°	0	0	15	62	81
137.5°	0	0	7	47	64
140°	0	0	2	33	48
142.5°	1	1	1	20	33
145°	1	1	0	8	19
147.5°	1	1	0	2	7
150°	1	1	0	0	1
152.5°	1	1	0	0	0
155°	1	1	1	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)