

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: 122p116

Luminaire Tested: **SSF-114T5-UNV-EBT-1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 122p116
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SSF-114T5-UNV-EBT-1
Description: 2' COMMERCIAL WIDE STRIP, T5 LAMP
Light Source: ONE T5 LINEAR FLUORESCENT LAMPS
F14T5/835 14 WATTS
Ballast/Driver: -

Summary

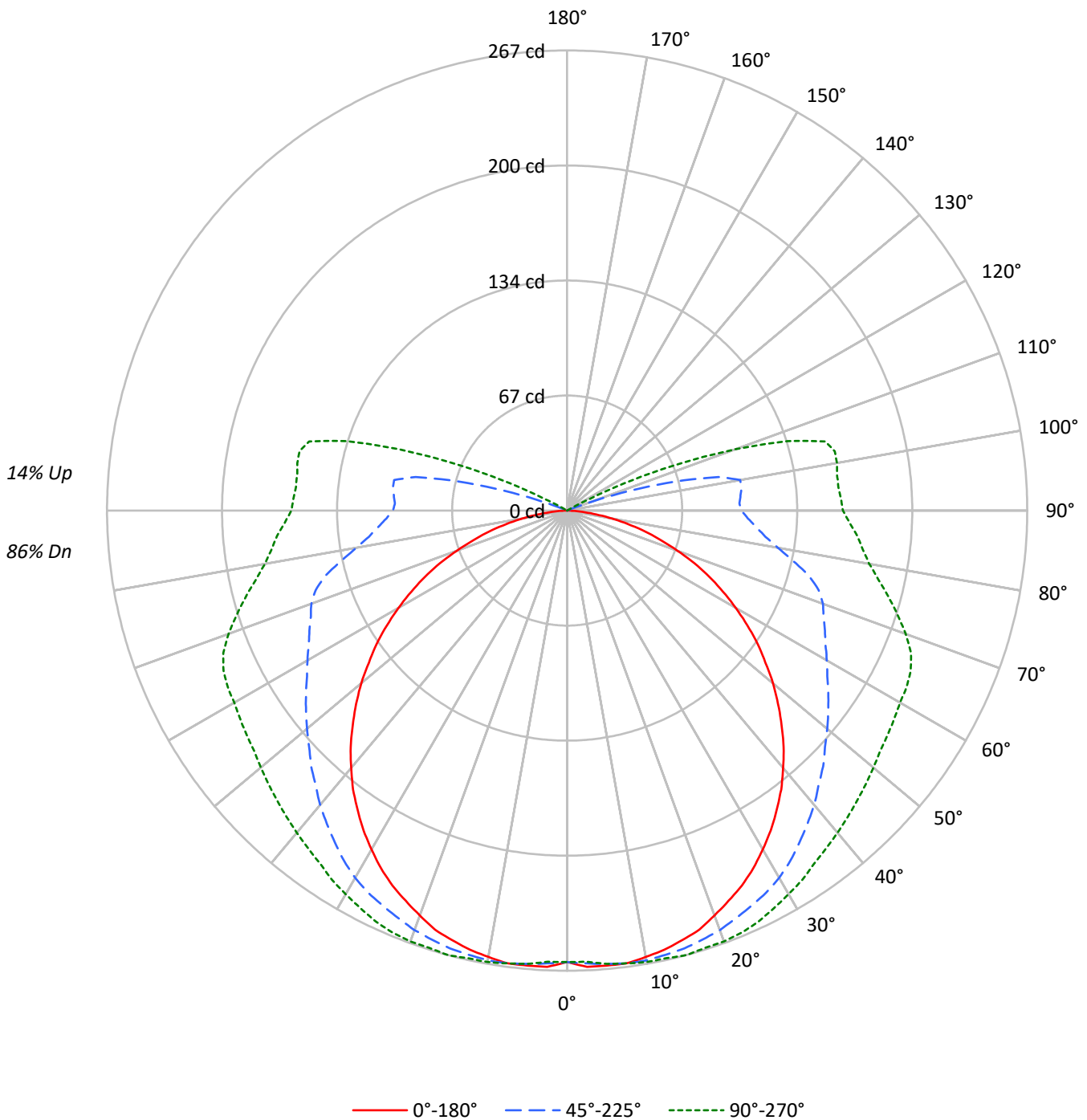
Lumens per Lamp: 1350 (1 lamp)
Luminaire Lumens: 1280.7 lumens
Efficiency: 94.9%
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.46 / 1.52
Luminous Opening: Rectangular (W 0.35' x L: 1.88' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 17
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	110	110	110	110	106	106	106	106	98	98	98	91	91	91	84	84	84	81
1	97	91	85	80	92	87	82	78	80	76	73	74	71	68	69	66	64	61
2	86	77	69	63	82	74	67	61	68	62	57	63	58	54	58	54	51	48
3	78	67	58	51	74	64	56	49	59	52	47	55	49	44	50	46	42	39
4	71	58	49	42	68	56	47	41	52	45	39	48	42	37	44	39	35	32
5	65	52	42	35	62	50	41	35	46	39	33	43	36	31	40	34	30	27
6	60	46	37	31	57	45	36	30	41	34	29	38	32	27	36	30	26	24
7	55	42	33	27	53	40	32	26	37	30	25	35	29	24	32	27	23	21
8	51	38	29	24	49	37	29	23	34	27	22	32	26	21	30	24	20	18
9	48	35	26	21	46	33	26	21	31	25	20	29	23	19	27	22	18	16
10	45	32	24	19	43	31	23	18	29	22	18	27	21	17	25	20	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4247	4247	4247
5°	4312	4296	4296
10°	4329	4362	4378
15°	4329	4413	4481
20°	4312	4468	4588
25°	4292	4525	4704
30°	4249	4604	4810
35°	4195	4650	4947
40°	4126	4719	5163
45°	4034	4814	5456
50°	3934	4968	5850
55°	3815	5228	6415
60°	3663	5641	7229
65°	3490	6328	8438
70°	3223	7488	9905
75°	2943	9081	12087
80°	2427	11575	16615
85°	1674	20458	31431



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	25.2	2.0	1.9	0°	262	262	262	262	262	
10°-20°	74.2	5.8	5.5	5°	265	265	264	264	264	25
20°-30°	116.3	9.1	8.6	15°	258	260	263	265	267	73
30°-40°	146.2	11.4	10.8	25°	240	244	253	260	263	110
40°-50°	161.7	12.6	12.0	35°	212	221	235	246	250	133
50°-60°	164.6	12.9	12.2	45°	176	190	210	230	238	136
60°-70°	159.0	12.4	11.8	55°	135	154	185	215	227	120
70°-80°	139.7	10.9	10.4	65°	91	116	165	206	220	90
80°-90°	111.3	8.7	8.2	75°	47	85	145	180	193	49
90°-100°	98.7	7.7	7.3	85°	9	51	110	153	169	11
100°-110°	70.3	5.5	5.2	90°	1	42	101	145	160	1
110°-120°	13.4	1.0	1.0	95°	0	43	101	143	158	0
120°-130°	0.0	0.0	0.0	105°	0	3	65	135	155	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	21	42	0
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°	215.8	16.9	16.0	165°	0	0	0	0	0	0
0°-40°	362.0	28.3	26.8	175°	0	0	0	0	0	0
0°-60°	688.4	53.7	51.0	180°	0	0	0	0	0	0
0°-90°	1098.4	85.8	81.4							
90°-120°	182.3	14.2	13.5							
90°-150°	182.3	14.2	13.5							
90°-180°	182.0	14.2	13.5							
0°-180°	1280.7	100.0	94.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	262	262	262	262	262
2.5°	265	264	263	262	262
5°	265	265	264	264	264
7.5°	265	265	265	265	265
10°	263	264	265	265	266
12.5°	261	262	264	265	266
15°	258	260	263	265	267
17.5°	255	257	261	265	266
20°	250	253	259	264	266
22.5°	245	249	256	262	265
25°	240	244	253	260	263
27.5°	234	239	250	257	260
30°	227	234	246	254	257
32.5°	220	228	241	250	254
35°	212	221	235	246	250
37.5°	204	214	229	242	247
40°	195	206	223	238	244
42.5°	186	198	216	234	241
45°	176	190	210	230	238
47.5°	166	182	203	226	235
50°	156	173	197	222	232
52.5°	145	163	191	218	229
55°	135	154	185	215	227
57.5°	124	144	179	212	225
60°	113	135	174	210	223
62.5°	102	125	169	208	222
65°	91	116	165	206	220
67.5°	80	107	161	203	216
70°	68	99	158	197	209
72.5°	57	91	153	189	201
75°	47	85	145	180	193
77.5°	36	80	134	171	185
80°	26	74	124	163	178
82.5°	17	63	116	157	173
85°	9	51	110	153	169
87.5°	3	46	105	148	164
90°	1	42	101	145	160
92.5°	0	42	100	143	159
95°	0	43	101	143	158
97.5°	0	36	102	143	158
100°	0	19	102	144	159
102.5°	0	6	90	144	159
105°	0	3	65	135	155
107.5°	0	2	38	108	134
110°	0	1	14	79	104



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	1	1	49	72
115°	0	0	0	21	42
117.5°	0	0	0	2	15
120°	0	0	0	0	0
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)