

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: 136P107

Luminaire Tested: **EFIX-2S**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 136P107
Test Lab: METALUX RESEARCH LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EFIX-2S
Description: SS SERIES STRIP LUMINAIRE
Light Source: F28T8-SP35-UMX-ECO- 28 WATTS EA.- 2750 LUMEN EA.
Ballast/Driver: GE-232-MAX-L/ ULTRA

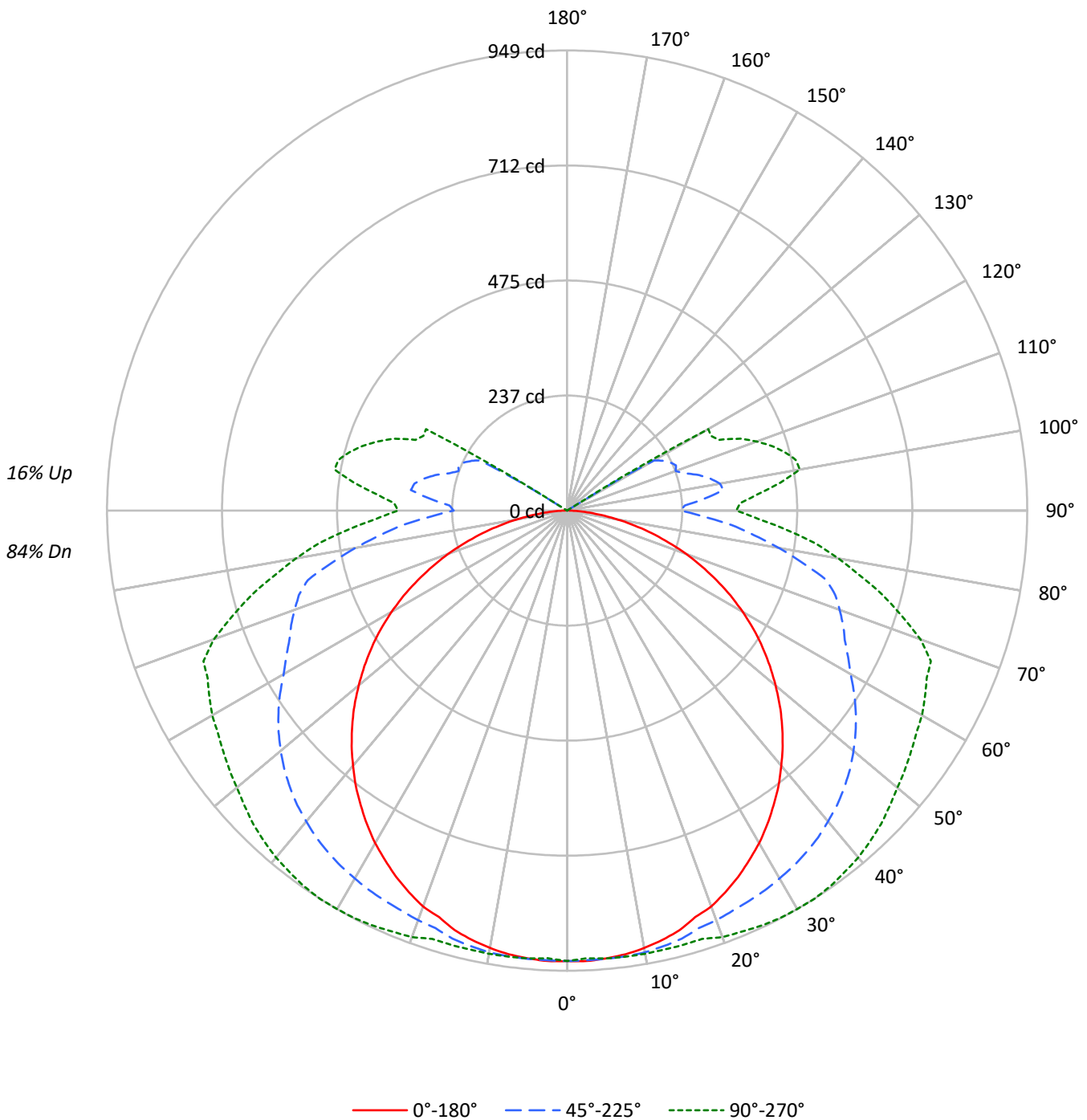
Summary

Lumens per Lamp: 2750 (2 lamps)
Luminaire Lumens: 4759.1 lumens
Efficiency: 86.5%
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.55 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.14')
CIE Type: Semi-Direct

Input Watts (W): 44
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	100	100	100	100	96	96	96	96	88	88	88	82	82	82	75	75	75	72
1	88	83	78	74	84	79	75	71	73	70	66	67	65	62	62	60	58	55
2	79	70	63	58	75	68	61	56	62	57	52	57	53	49	52	49	46	43
3	71	61	53	46	68	58	51	45	54	48	42	49	44	40	45	41	38	35
4	65	53	45	38	61	51	43	37	47	40	35	43	38	33	40	35	31	29
5	59	47	39	32	56	45	37	32	42	35	30	38	33	28	35	31	27	24
6	54	42	34	28	52	40	33	27	37	31	26	35	29	24	32	27	23	21
7	50	38	30	24	48	36	29	24	34	27	22	31	26	21	29	24	20	18
8	47	34	27	21	44	33	26	21	31	24	20	29	23	19	26	22	18	16
9	43	31	24	19	41	30	23	18	28	22	18	26	21	17	24	20	16	14
10	41	29	22	17	39	28	21	17	26	20	16	24	19	15	23	18	14	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6666	6666	6666
5°	6658	6525	6473
10°	6635	6424	6357
15°	6597	6317	6279
20°	6555	6232	6317
25°	6501	6221	6404
30°	6437	6251	6507
35°	6350	6301	6615
40°	6258	6352	6715
45°	6155	6410	6822
50°	6020	6458	6939
55°	5871	6502	7148
60°	5667	6529	7461
65°	5382	6712	7828
70°	5010	7099	8162
75°	4455	7521	7960
80°	3675	7085	7701
85°	2434	6678	7274



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	88.4	1.9	1.6	0°	929	929	929	929	929	
10°-20°	258.2	5.4	4.7	5°	927	927	928	930	927	88
20°-30°	411.1	8.6	7.5	15°	896	903	914	925	927	253
30°-40°	533.1	11.2	9.7	25°	834	851	888	931	945	384
40°-50°	609.2	12.8	11.1	35°	742	774	860	925	946	464
50°-60°	632.1	13.3	11.5	45°	627	689	808	887	915	483
60°-70°	608.6	12.8	11.1	55°	492	592	727	826	866	439
70°-80°	513.0	10.8	9.3	65°	340	472	632	770	818	336
80°-90°	332.9	7.0	6.1	75°	181	330	554	641	674	192
90°-100°	271.3	5.7	4.9	85°	41	207	340	424	453	47
100°-110°	275.6	5.8	5.0	90°	5	115	234	319	349	4
110°-120°	203.4	4.3	3.7	95°	3	153	285	367	396	3
120°-130°	22.0	0.5	0.4	105°	3	117	282	419	465	3
130°-140°	0.0	0.0	0.0	115°	3	80	235	313	345	3
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°	757.7	15.9	13.8	165°	0	0	0	0	0	0
0°-40°	1290.9	27.1	23.5	175°	0	0	0	0	0	0
0°-60°	2532.2	53.2	46.0	180°	0	0	0	0	0	0
0°-90°	3986.8	83.8	72.5							
90°-120°	750.3	15.8	13.6							
90°-150°	772.3	16.2	14.0							
90°-180°	772.0	16.2	14.0							
0°-180°	4759.1	100.0	86.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	929	929	929	929	929
2.5°	930	928	928	928	924
5°	927	927	928	930	927
7.5°	923	924	927	930	928
10°	916	919	925	929	928
12.5°	907	912	920	928	927
15°	896	903	914	925	927
17.5°	879	888	903	920	926
20°	869	880	899	927	936
22.5°	852	867	893	929	940
25°	834	851	888	931	945
27.5°	813	833	883	932	948
30°	792	814	876	932	949
32.5°	768	794	869	929	949
35°	742	774	860	925	946
37.5°	716	753	850	918	940
40°	687	733	837	910	934
42.5°	658	711	824	899	925
45°	627	689	808	887	915
47.5°	595	666	791	874	902
50°	561	642	771	857	889
52.5°	527	618	750	840	878
55°	492	592	727	826	866
57.5°	456	566	702	811	854
60°	418	538	675	798	845
62.5°	380	505	653	786	832
65°	340	472	632	770	818
67.5°	300	438	616	757	812
70°	261	401	598	741	775
72.5°	220	363	580	692	724
75°	181	330	554	641	674
77.5°	142	310	497	588	618
80°	106	296	443	534	568
82.5°	71	261	389	485	516
85°	41	207	340	424	453
87.5°	18	160	281	365	394
90°	5	115	234	319	349
92.5°	4	128	243	328	357
95°	3	153	285	367	396
97.5°	3	142	325	416	444
100°	3	121	320	449	487
102.5°	3	121	303	438	483
105°	3	117	282	419	465
107.5°	3	108	255	396	443
110°	3	98	238	371	416



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3	89	243	335	387
115°	3	80	235	313	345
117.5°	3	72	222	315	334
120°	3	64	207	309	336
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)