

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: 139P101

Luminaire Tested: **SNRA-240**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 139P101
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SNRA-240
Description: Right Angle Striplite
Light Source: Two-F40CW - 3150 Lumens ea. - 40 Watts ea.
Ballast/Driver: -

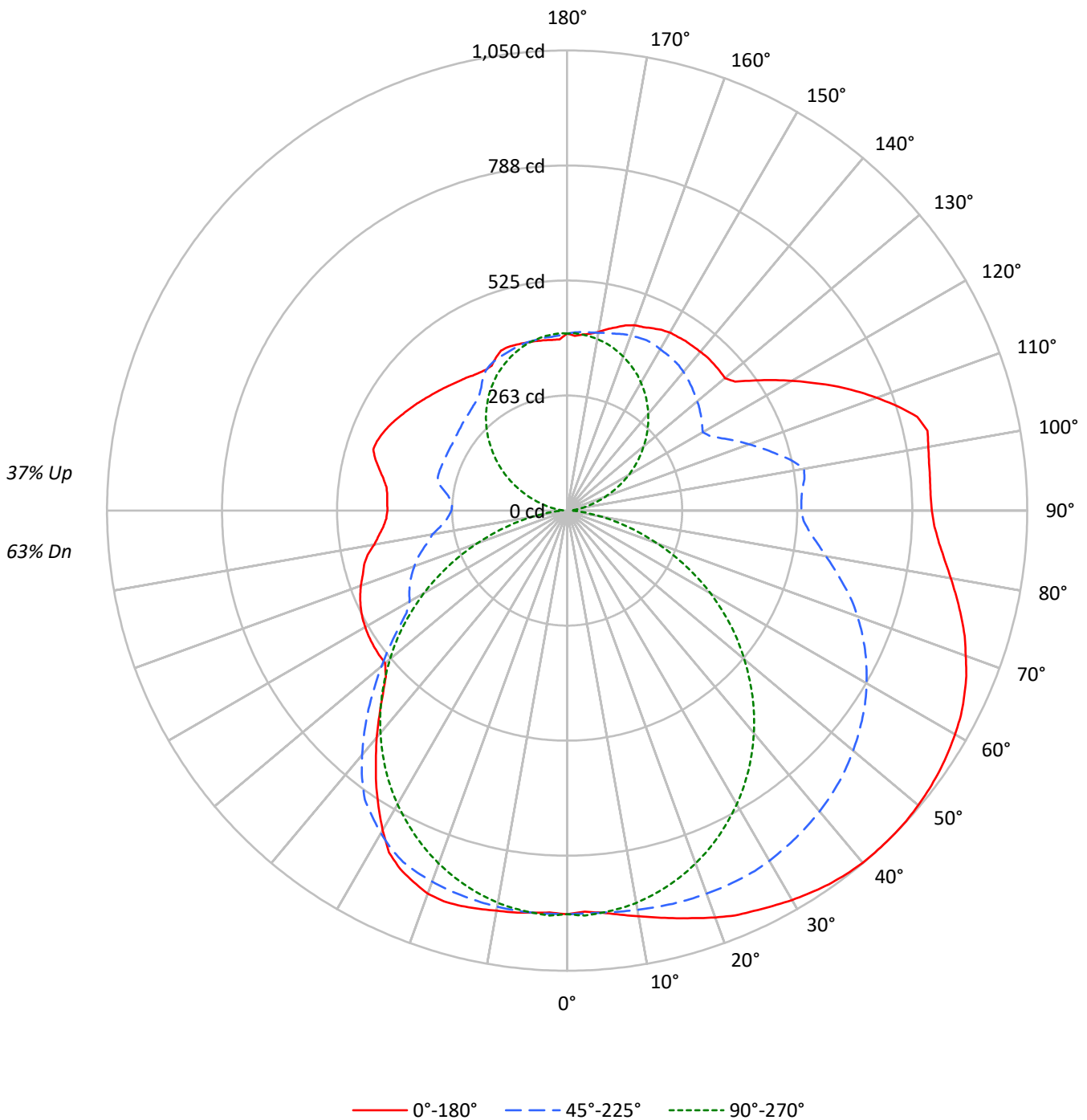
Summary

Lumens per Lamp: 3150 (2 lamps)
Luminaire Lumens: 6182.0 lumens
Efficiency: 98.1%
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 1.48 / 1.25 / 1.53
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.33')
CIE Type: Semi-Direct

Input Watts (W): 91.5
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	108	108	108	108	101	101	101	101	89	89	89	77	77	77	67	67	67	62
1	96	90	85	81	89	84	80	76	73	70	67	63	61	58	54	52	50	46
2	86	77	70	63	80	72	66	60	63	58	53	54	50	46	46	43	40	36
3	78	67	58	52	72	63	55	49	54	48	43	47	42	38	40	36	33	29
4	71	59	50	43	66	55	47	41	48	41	36	41	36	32	35	31	28	24
5	65	52	43	36	60	49	41	34	43	36	31	37	31	27	31	27	24	21
6	60	46	38	31	55	44	36	30	38	32	27	33	28	24	28	24	21	18
7	55	42	33	27	51	39	31	26	34	28	23	30	25	21	26	21	18	16
8	51	38	30	24	47	36	28	23	31	25	20	27	22	18	24	19	16	14
9	48	35	27	21	44	33	25	20	29	23	18	25	20	16	22	17	14	12
10	44	32	24	19	41	30	23	18	26	20	16	23	18	15	20	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	6609	6609	6609
5°	6586	6156	6586
10°	6750	5727	6657
15°	6998	5323	6787
20°	7323	4946	6893
25°	7683	4586	6875
30°	8112	4240	6657
35°	8617	3900	6291
40°	9185	3559	5919
45°	9837	3214	5574
50°	10623	2864	5505
55°	11595	2510	6027
60°	12819	2137	6673
65°	14408	1742	7492
70°	16529	1330	8555
75°	19694	925	10154
80°	24955	541	12548
85°	35945	236	17762



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	87.9	1.4	1.4	0°	921	921	921	921	921	
10°-20°	260.2	4.2	4.1	5°	921	921	921	921	921	89
20°-30°	413.7	6.7	6.6	15°	963	929	887	911	934	274
30°-40°	522.3	8.4	8.3	25°	1008	929	819	885	902	467
40°-50°	571.5	9.2	9.1	35°	1041	911	722	805	760	653
50°-60°	576.4	9.3	9.1	45°	1050	877	598	641	595	812
60°-70°	551.2	8.9	8.7	55°	1037	823	455	470	539	929
70°-80°	491.7	8.0	7.8	65°	1000	750	298	396	520	991
80°-90°	419.0	6.8	6.7	75°	931	653	144	341	480	984
90°-100°	399.0	6.5	6.3	85°	852	555	32	279	421	704
100°-110°	391.9	6.3	6.2	90°	832	534	10	264	410	457
110°-120°	345.1	5.6	5.5	95°	831	538	15	266	412	680
120°-130°	303.0	4.9	4.8	105°	827	497	61	305	453	861
130°-140°	275.6	4.5	4.4	115°	673	390	127	303	451	668
140°-150°	237.0	3.8	3.8	125°	517	373	196	306	422	469
150°-160°	183.6	3.0	2.9	135°	473	401	259	316	396	366
160°-170°	114.5	1.9	1.8	145°	472	421	314	342	376	296
170°-180°	38.5	0.6	0.6	155°	459	429	357	381	385	213
0°-30°	761.8	12.3	12.1	165°	433	418	388	393	395	123
0°-40°	1284.1	20.8	20.4	175°	403	409	403	398	391	39
0°-60°	2432.0	39.3	38.6	180°	404	404	404	404	404	
0°-90°	3893.9	63.0	61.8							
90°-120°	1136.1	18.4	18.0							
90°-150°	1951.6	31.6	31.0							
90°-180°	2288.0	37.0	36.3							
0°-180°	6182.0	100.0	98.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	921	921	921	921	921	921	921	921	921
2.5°	916	919	920	922	925	923	921	919	918
5°	921	923	921	920	921	921	921	921	921
7.5°	930	930	923	916	916	917	920	923	925
10°	940	938	925	912	909	912	918	924	927
12.5°	951	947	927	906	899	904	915	926	931
15°	963	956	929	899	887	895	911	927	934
17.5°	975	965	930	890	873	884	907	927	935
20°	988	974	930	880	857	872	901	925	930
22.5°	1000	982	930	868	839	858	894	915	917
25°	1008	988	929	856	819	843	885	900	902
27.5°	1017	993	927	841	797	826	870	883	880
30°	1026	999	923	826	774	807	850	857	842
32.5°	1034	1003	917	809	749	787	828	818	801
35°	1041	1006	911	791	722	766	805	777	760
37.5°	1046	1007	904	772	693	744	769	735	717
40°	1049	1007	896	751	663	718	728	692	676
42.5°	1050	1005	887	730	631	691	685	650	634
45°	1050	1002	877	707	598	660	641	609	595
47.5°	1049	999	865	683	563	627	596	570	561
50°	1046	993	852	658	528	594	553	534	542
52.5°	1042	987	838	633	492	558	511	513	541
55°	1037	978	823	608	455	515	470	510	539
57.5°	1030	969	807	582	416	469	435	505	536
60°	1022	958	789	555	378	422	415	500	532
62.5°	1013	946	770	528	338	376	406	494	527
65°	1000	931	750	500	298	331	396	486	520
67.5°	986	915	728	471	258	288	384	477	511
70°	968	896	705	441	218	249	371	466	501
72.5°	951	876	681	411	180	222	357	453	489
75°	931	855	653	379	144	205	341	439	480
77.5°	910	832	626	347	110	186	324	430	466
80°	889	811	600	313	79	167	312	410	447
82.5°	869	791	576	280	52	148	293	394	433
85°	852	772	555	253	32	133	279	382	421
87.5°	839	760	540	233	17	121	270	374	413
90°	832	754	534	222	10	114	264	368	410
92.5°	830	755	535	224	9	112	263	368	411
95°	831	756	538	233	15	120	266	370	412
97.5°	833	760	546	222	24	129	275	375	416
100°	837	766	549	207	34	132	289	385	426
102.5°	842	768	526	193	47	134	303	399	439
105°	827	740	497	182	61	139	305	414	453
107.5°	791	704	469	181	77	145	305	421	464
110°	752	668	442	193	93	153	304	418	462



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	713	632	416	206	110	162	303	414	457
115°	673	594	390	218	127	172	303	409	451
117.5°	631	559	368	232	145	182	303	404	444
120°	592	524	357	246	162	194	303	399	436
122.5°	554	490	365	260	179	206	305	394	429
125°	517	460	373	274	196	219	306	389	422
127.5°	483	448	381	287	212	235	308	385	415
130°	470	452	388	299	228	254	311	381	408
132.5°	472	456	394	310	244	271	313	378	402
135°	473	459	401	323	259	285	316	375	396
137.5°	474	461	407	334	274	297	320	372	390
140°	473	462	413	344	288	307	324	370	385
142.5°	472	464	418	353	301	318	330	368	381
145°	472	464	421	361	314	328	342	366	376
147.5°	470	465	423	368	326	338	358	366	373
150°	469	464	425	374	337	346	370	368	371
152.5°	465	461	428	379	348	355	377	379	373
155°	459	456	429	384	357	362	381	393	385
157.5°	453	454	427	389	366	369	384	399	395
160°	450	451	425	392	374	376	387	399	397
162.5°	443	443	422	396	381	382	390	399	396
165°	433	435	418	400	388	386	393	399	395
167.5°	424	427	415	403	393	391	395	399	394
170°	414	420	412	405	397	394	396	399	393
172.5°	407	414	410	407	401	397	398	399	392
175°	403	410	409	407	403	399	398	399	391
177.5°	399	407	407	407	405	403	400	399	391
180°	404	404	404	404	404	404	404	404	404

(END OF REPORT)