

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: 167P120

Luminaire Tested: **RWW-254T5MI**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 167P120  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: RWW-254T5MI  
Description: Recessed Wall Wash Luminaire  
Light Source: Two - F54T5/830/HO - 5000 Lumens ea. - 54 Watts ea.  
Ballast/Driver: Sylvania - QT 2X54/120PHO - L.O.B.F. = 104%

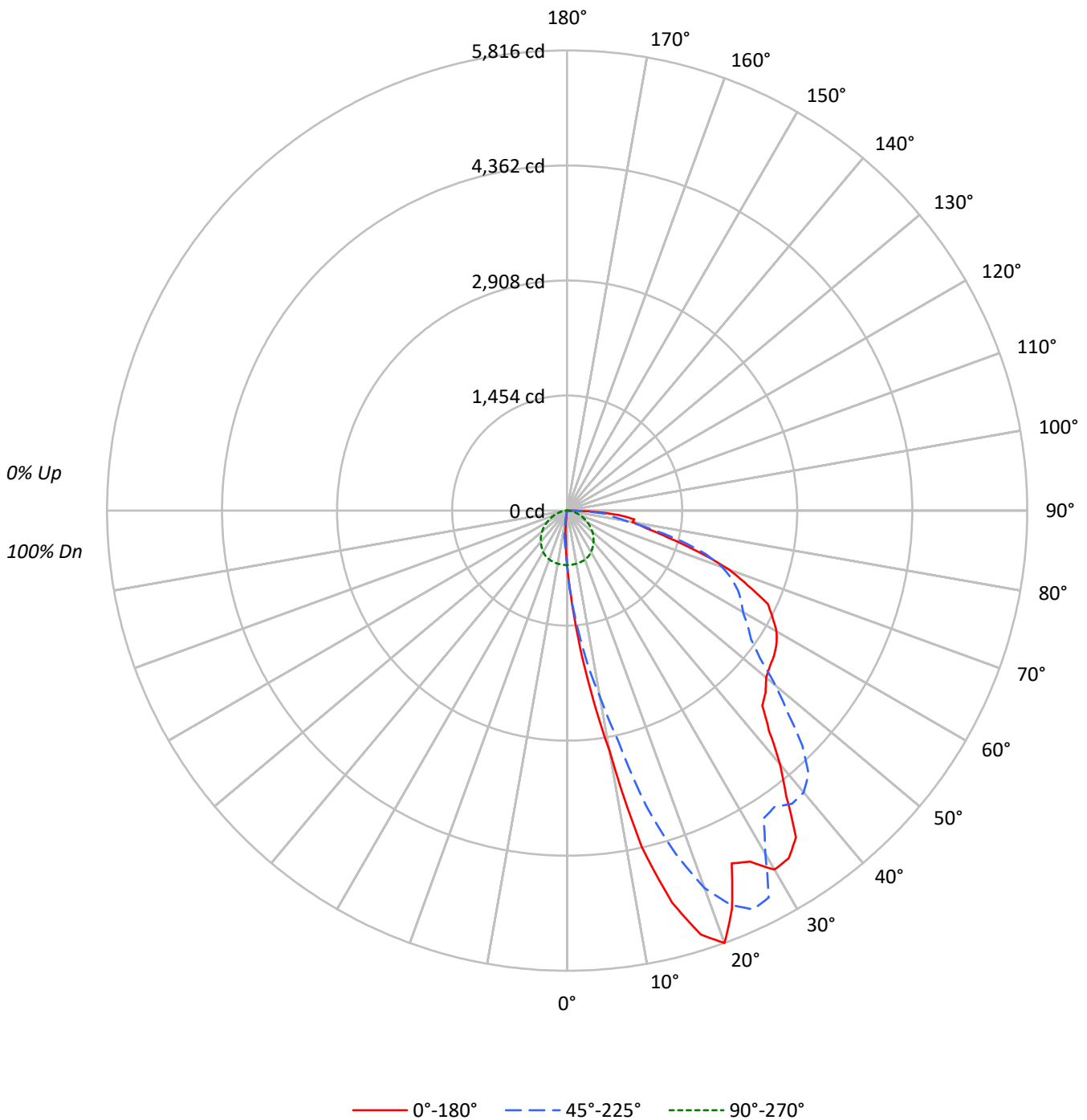
**Summary**

Lumens per Lamp: 5000 (2 lamps)  
Luminaire Lumens: 7459.4 lumens  
Efficiency: 74.6%  
Efficacy: 62.0 lumens/watt  
Spacing Criteria (0/90/45): 2.68 / 1.29 / 2.39  
Luminous Opening: Rectangular (W 3.9' x L: 0.66' x H: 0')  
CIE Type: Direct

Input Watts (W): 120.4  
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	89	89	89	89	87	87	87	87	83	83	83	79	79	79	76	76	76	75
1	80	76	73	70	78	75	71	68	71	69	66	68	66	64	66	64	62	61
2	72	66	60	55	70	64	59	55	62	57	53	59	55	52	57	54	51	49
3	65	57	50	45	64	56	50	45	54	48	44	51	47	43	49	46	42	41
4	60	50	43	38	58	49	42	37	47	41	37	45	40	36	44	39	36	34
5	54	44	37	32	53	43	37	32	42	36	31	40	35	31	39	34	31	29
6	50	39	32	27	49	39	32	27	37	31	27	36	31	27	35	30	26	25
7	46	36	29	24	45	35	28	24	34	28	23	33	27	23	32	27	23	22
8	43	32	25	21	42	32	25	21	31	25	21	30	24	21	29	24	20	19
9	40	29	23	19	39	29	23	18	28	22	18	27	22	18	26	22	18	17
10	37	27	21	17	36	26	20	16	26	20	16	25	20	16	24	20	16	15

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	2896	2896	2896
5°	6867	2903	1002
10°	13196	2915	94
15°	22354	2929	78
20°	26056	2948	67
25°	22854	2959	60
30°	25473	2936	58
35°	25913	2893	62
40°	22994	2847	60
45°	20761	2792	60
50°	21502	2718	65
55°	23436	2606	66
60°	25731	2475	76
65°	27882	2341	90
70°	26772	2191	111
75°	21552	1984	146
80°	20268	1940	218
85°	32170	1159	483



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	95.1	1.3	1.0	0°	688	688	688	688	688	
10°-20°	511.1	6.9	5.1	5°	1625	1474	687	364	237	200
20°-30°	997.4	13.4	10.0	15°	5129	3871	672	19	18	1423
30°-40°	1328.5	17.8	13.3	25°	4920	5562	637	11	13	2408
40°-50°	1353.7	18.1	13.5	35°	5042	4571	563	6	12	3050
50°-60°	1229.3	16.5	12.3	45°	3487	4203	469	4	10	2779
60°-70°	1079.3	14.5	10.8	55°	3193	2837	355	4	9	2854
70°-80°	644.9	8.6	6.4	65°	2799	2381	235	4	9	2678
80°-90°	220.2	3.0	2.2	75°	1325	1503	122	3	9	1474
90°-100°	0.0	0.0	0.0	85°	666	501	24	3	10	576
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	49
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	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°	1603.5	21.5	16.0	165°	0	0	0	0	0	0
0°-40°	2932.0	39.3	29.3	175°	0	0	0	0	0	0
0°-60°	5515.0	73.9	55.2	180°	0	0	0	0	0	0
0°-90°	7459.4	100.0	74.6							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	7459.4	100.0	74.6							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	688	688	688	688	688	688	688	688	688
2.5°	1064	1197	1079	884	689	565	483	443	370
5°	1625	1756	1474	1122	687	464	364	314	237
7.5°	2289	2368	1937	1306	684	389	273	148	60
10°	3087	3192	2398	1529	682	347	127	39	22
12.5°	4346	4299	2981	1783	677	304	41	19	20
15°	5129	5023	3871	2031	672	229	19	17	18
17.5°	5617	5560	4539	2266	666	142	15	15	17
20°	5816	5805	5075	2504	658	73	14	13	15
22.5°	5446	5629	5390	2827	649	39	12	12	14
25°	4920	5044	5562	3302	637	23	11	11	13
27.5°	5002	4929	5514	3741	622	18	9	10	12
30°	5240	5105	5010	4019	604	17	9	9	12
32.5°	5210	5176	4616	4211	584	15	7	8	12
35°	5042	5085	4571	4380	563	13	6	8	12
37.5°	4547	4746	4671	4425	540	12	5	8	12
40°	4184	4301	4649	4415	518	11	5	8	11
42.5°	3778	3951	4515	4324	494	9	5	7	10
45°	3487	3575	4203	4074	469	7	4	7	10
47.5°	3401	3366	3781	3562	443	6	4	7	10
50°	3283	3268	3435	3230	415	4	5	6	10
52.5°	3230	3149	3075	3091	385	3	4	6	10
55°	3193	3096	2837	3048	355	3	4	7	9
57.5°	3138	3033	2705	2932	324	3	3	6	9
60°	3056	2956	2565	2733	294	2	4	6	9
62.5°	2927	2841	2482	2436	265	2	4	6	9
65°	2799	2713	2381	2094	235	2	4	6	9
67.5°	2474	2463	2247	1785	206	2	4	6	9
70°	2175	2132	2086	1557	178	2	3	6	9
72.5°	1747	1745	1839	1387	149	2	3	6	9
75°	1325	1301	1503	1233	122	2	3	6	9
77.5°	1018	985	1096	1047	98	1	3	6	9
80°	836	785	763	835	80	1	3	6	9
82.5°	855	779	573	540	55	1	3	6	9
85°	666	587	501	292	24	1	3	6	10
87.5°	357	265	247	170	6	1	4	6	9
90°	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)