

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: 167P119

Luminaire Tested: **RWW-214T5MI**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 167P119  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: RWW-214T5MI  
Description: Recessed Wall Wash Luminaire  
Light Source: Two - F14T5/835 - 1350 Lumens ea. - 14 Watts ea.  
Ballast/Driver: Energy Savings - ES-2-T5-14-120-F - L.O.B.F. = 88.5%

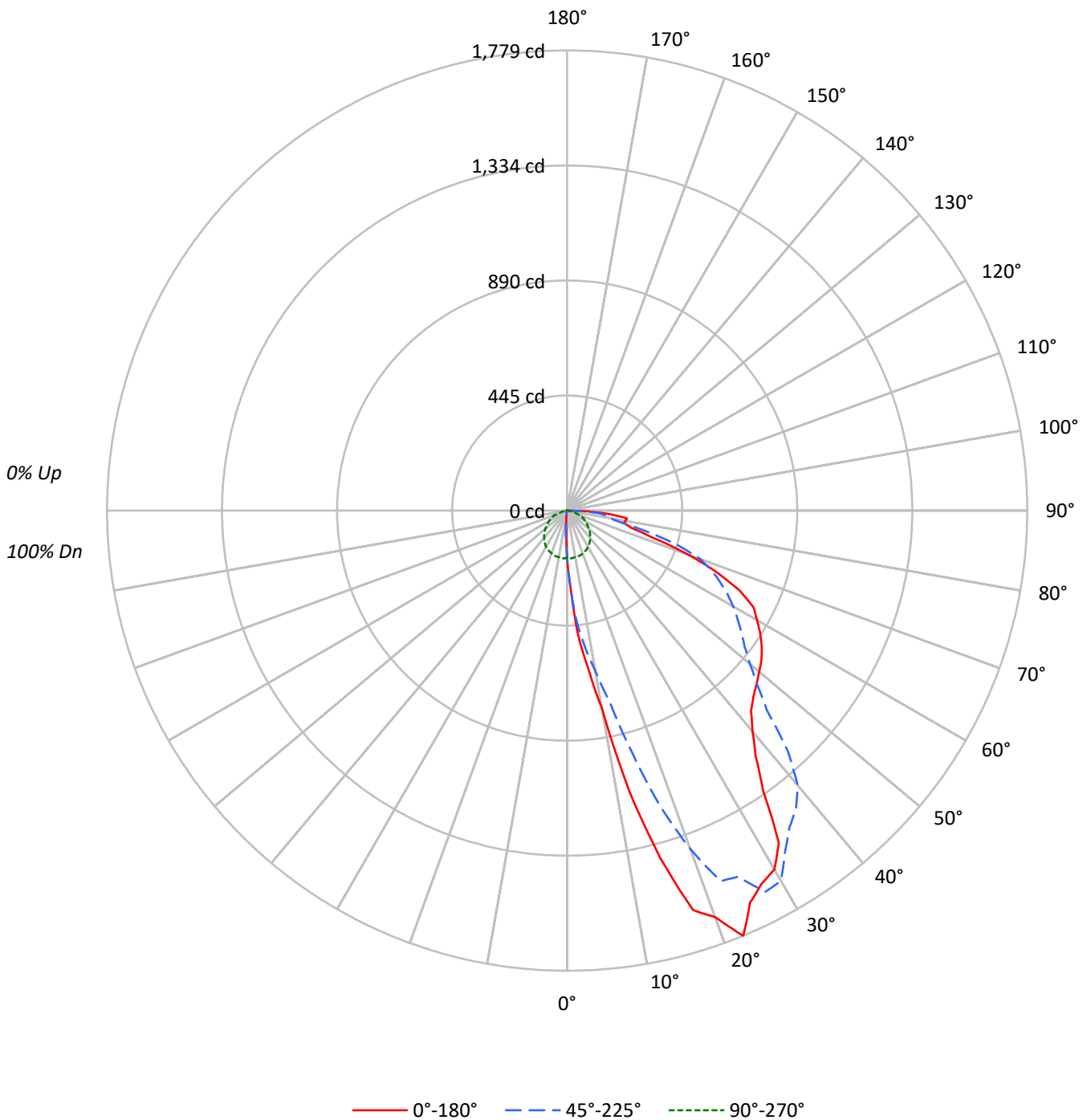
**Summary**

Lumens per Lamp: 1350 (2 lamps)  
Luminaire Lumens: 2067.6 lumens  
Efficiency: 76.6%  
Efficacy: 68.0 lumens/watt  
Spacing Criteria (0/90/45): 2.81 / 1.32 / 2.47  
Luminous Opening: Rectangular (W 1.9' x L: 0.65' x H: 0')  
CIE Type: Direct

Input Watts (W): 30.4  
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																		
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	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	91	91	91	91	89	89	89	89	85	85	85	81	81	81	78	78	78	77																												
1	83	79	75	72	81	77	74	71	74	71	69	71	69	67	68	66	65	63																												
2	75	68	63	58	73	67	62	57	64	60	56	61	58	55	59	56	53	52																												
3	68	59	53	47	66	58	52	47	56	50	46	54	49	45	52	48	45	43																												
4	62	52	45	40	60	51	44	39	49	43	39	47	42	38	46	41	38	36																												
5	56	46	39	34	55	45	38	33	44	38	33	42	37	33	41	36	32	30																												
6	52	41	34	29	50	40	34	29	39	33	28	38	32	28	36	32	28	26																												
7	48	37	30	25	46	36	30	25	35	29	25	34	29	25	33	28	24	23																												
8	44	33	27	22	43	33	26	22	32	26	22	31	26	22	30	25	21	20																												
9	41	30	24	19	40	30	24	19	29	23	19	28	23	19	27	23	19	18																												
10	38	28	22	17	37	27	21	17	27	21	17	26	21	17	25	20	17	16																												

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

	0°	90°	180°
0°	1570	1570	1570
5°	4185	1620	368
10°	6881	1621	44
15°	12542	1634	36
20°	15518	1634	28
25°	16100	1636	19
30°	16134	1631	20
35°	14054	1608	21
40°	12695	1583	23
45°	12556	1542	25
50°	13148	1493	27
55°	13974	1429	30
60°	14792	1395	35
65°	15251	1403	41
70°	12725	1250	51
75°	8660	977	67
80°	11502	402	100
85°	17212	0	100



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	25.1	1.2	0.9	0°	180	180	180	180	180	
10°-20°	137.1	6.6	5.1	5°	478	432	185	65	42	54
20°-30°	296.2	14.3	11.0	15°	1389	968	181	3	4	392
30°-40°	384.4	18.6	14.2	25°	1673	1562	170	2	2	775
40°-50°	383.5	18.5	14.2	35°	1320	1498	151	1	2	841
50°-60°	354.7	17.2	13.1	45°	1018	1092	125	0	2	793
60°-70°	288.4	13.9	10.7	55°	919	822	94	0	2	820
70°-80°	146.5	7.1	5.4	65°	739	652	68	0	2	706
80°-90°	51.8	2.5	1.9	75°	257	330	29	0	2	313
90°-100°	0.0	0.0	0.0	85°	172	127	0	0	1	153
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	11
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°	458.4	22.2	17.0	165°	0	0	0	0	0	0
0°-40°	842.8	40.8	31.2	175°	0	0	0	0	0	0
0°-60°	1581.0	76.5	58.6	180°	0	0	0	0	0	0
0°-90°	2067.6	100.0	76.6							
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°	2067.6	100.0	76.6							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	180	180	180	180	180	180	180	180	180
2.5°	293	340	299	243	185	136	110	95	69
5°	478	500	432	308	185	104	65	51	42
7.5°	611	626	535	381	184	78	44	34	21
10°	777	798	631	453	183	58	32	10	5
12.5°	1110	1099	755	505	182	47	12	4	4
15°	1389	1358	968	554	181	41	3	3	4
17.5°	1620	1574	1201	604	179	34	3	3	3
20°	1672	1630	1392	656	176	24	2	2	3
22.5°	1779	1755	1550	719	173	11	2	2	2
25°	1673	1702	1562	822	170	5	2	2	2
27.5°	1627	1635	1661	942	166	4	1	1	2
30°	1602	1599	1653	1049	162	4	1	1	2
32.5°	1523	1554	1567	1118	157	3	1	1	2
35°	1320	1427	1498	1197	151	3	1	1	2
37.5°	1197	1242	1453	1247	145	2	1	1	2
40°	1115	1146	1386	1209	139	2	1	1	2
42.5°	1052	1072	1263	1222	132	1	1	1	2
45°	1018	1018	1092	1212	125	1	0	1	2
47.5°	993	983	996	1137	118	1	1	1	2
50°	969	955	923	1049	110	0	1	1	2
52.5°	947	929	865	968	102	0	1	1	2
55°	919	898	822	908	94	0	0	1	2
57.5°	885	863	782	825	87	0	0	1	2
60°	848	826	741	711	80	0	0	1	2
62.5°	812	791	698	606	74	0	0	1	2
65°	739	740	652	535	68	0	0	1	2
67.5°	631	641	605	471	60	0	0	1	1
70°	499	521	547	416	49	0	0	1	2
72.5°	343	364	453	361	39	0	0	1	2
75°	257	258	330	297	29	0	0	1	2
77.5°	224	217	212	233	17	0	0	1	2
80°	229	213	158	162	8	0	0	1	2
82.5°	234	212	150	93	2	0	0	1	2
85°	172	152	127	61	0	0	0	1	1
87.5°	80	63	55	29	0	0	0	1	2
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)