

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: 167P114

Luminaire Tested: **RWW-T1BX40MI**

Issue Date: 3/3/2020



**Test Information**

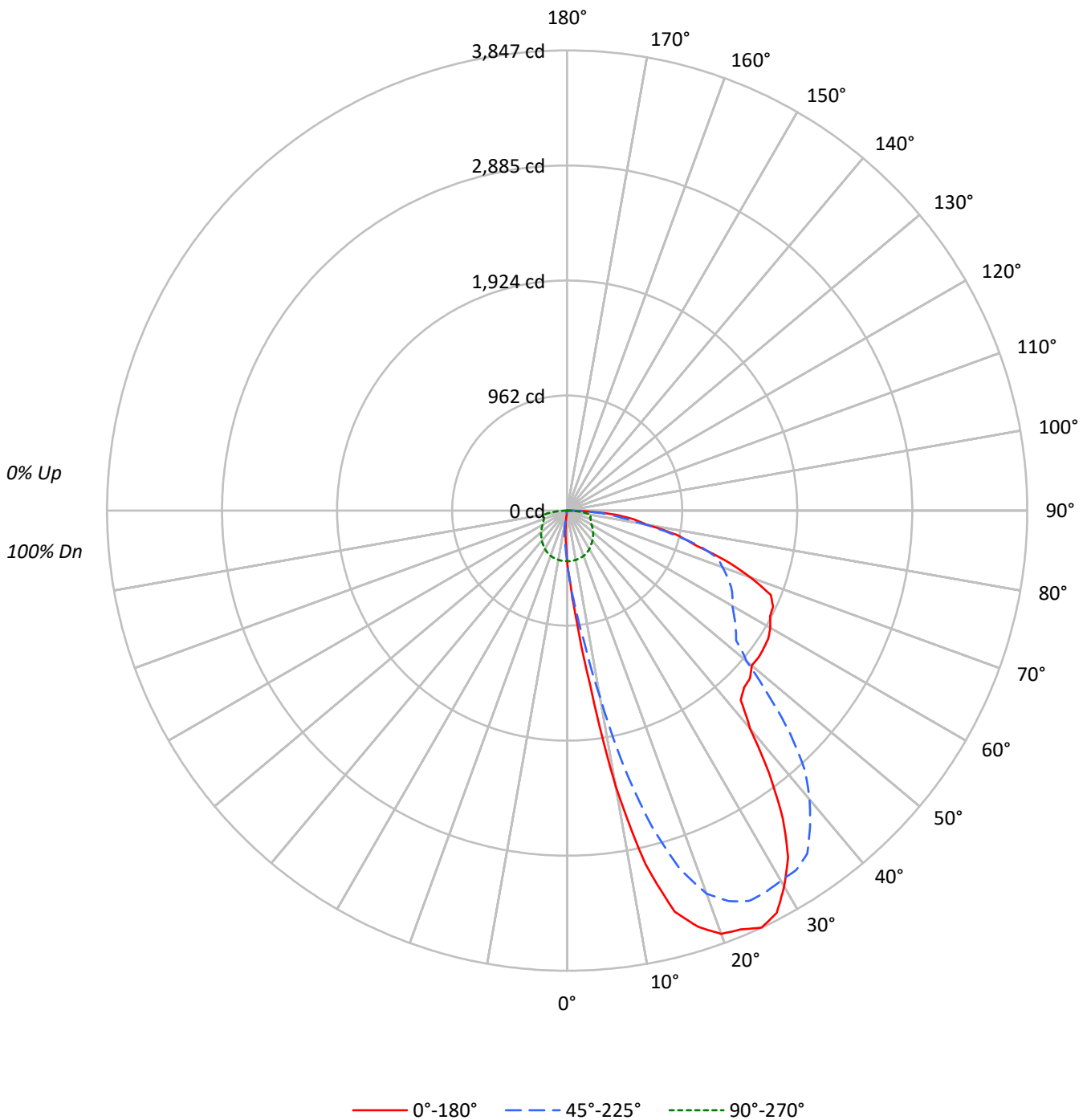
Test Method: LM-41-14  
Report Number: 167P114  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: RWW-T1BX40MI  
Description: Tandem Recessed Biaxial Wall Wash Luminaire  
Light Source: Two - F40BX/SPX35/RS - 3150 Lumens ea. - 40 Watts ea.  
Ballast/Driver: Sylvania QT 2X40/120 DL - Electronic - L.O.B.F. = 95.8%

**Summary**

Lumens per Lamp: 3150 (2 lamps)  
Luminaire Lumens: 5026.0 lumens  
Efficiency: 79.8%  
Efficacy: 69.0 lumens/watt  
Spacing Criteria (0/90/45): 2.72 / 1.31 / 2.4  
Luminous Opening: Rectangular (W 3.9' x L: 0.65' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 72.8  
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

TEST NUMBER: 167P114  
CATALOG NUMBER: RWW-T1BX40MI

### Luminous Intensity Polar Plot





TEST NUMBER: 167P114

CATALOG NUMBER: RWW-T1BX40MI

**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	95	95	95	95	93	93	93	93	89	89	89	85	85	85	81	81	81	80
1	86	81	77	74	83	79	76	73	76	73	70	73	70	68	70	68	66	64
2	77	70	64	59	75	68	63	58	65	61	57	63	59	55	60	57	54	52
3	70	61	53	48	68	59	53	47	57	51	46	55	50	46	52	48	45	43
4	63	53	46	40	62	52	45	39	50	44	39	48	43	38	46	42	38	36
5	58	47	39	34	56	46	39	34	44	38	33	43	37	33	41	36	32	31
6	53	42	34	29	52	41	34	29	40	33	29	38	33	28	37	32	28	26
7	49	38	30	25	48	37	30	25	36	30	25	35	29	25	34	28	25	23
8	46	34	27	22	44	34	27	22	33	26	22	32	26	22	31	25	22	20
9	42	31	24	20	41	31	24	20	30	24	20	29	23	19	28	23	19	18
10	40	29	22	18	39	28	22	18	27	22	17	27	21	17	26	21	17	16

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

	0°	90°	180°
0°	1793	1793	1793
5°	3998	1817	683
10°	10174	1820	61
15°	15374	1825	49
20°	17146	1835	36
25°	18160	1836	33
30°	17928	1833	35
35°	16426	1823	37
40°	13281	1832	28
45°	12658	1851	36
50°	13405	1884	33
55°	14963	1939	37
60°	16780	2019	43
65°	19224	2217	51
70°	20402	2614	63
75°	18167	3356	99
80°	16631	4706	123
85°	19881	4860	245



TEST NUMBER: 167P114

CATALOG NUMBER: RWW-T1BX40MI

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	59.2	1.2	0.9	0°	419	419	419	419	419	
10°-20°	340.9	6.8	5.4	5°	931	826	423	246	159	132
20°-30°	695.5	13.8	11.0	15°	3471	2733	412	11	11	955
30°-40°	898.4	17.9	14.3	25°	3847	3601	389	6	7	1749
40°-50°	853.3	17.0	13.5	35°	3145	3500	349	4	7	1926
50°-60°	798.6	15.9	12.7	45°	2092	2635	306	3	6	1644
60°-70°	714.0	14.2	11.3	55°	2006	1721	260	2	5	1795
70°-80°	499.4	9.9	7.9	65°	1899	1514	219	2	5	1847
80°-90°	166.8	3.3	2.6	75°	1099	1146	203	2	6	1206
90°-100°	0.0	0.0	0.0	85°	405	326	99	2	5	380
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	25
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°	1095.5	21.8	17.4	165°	0	0	0	0	0	0
0°-40°	1993.9	39.7	31.6	175°	0	0	0	0	0	0
0°-60°	3645.8	72.5	57.9	180°	0	0	0	0	0	0
0°-90°	5026.0	100.0	79.8							
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°	5026.0	100.0	79.8							



TEST NUMBER: 167P114

CATALOG NUMBER: RWW-T1BX40MI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	419	419	419	419	419	419	419	419	419
2.5°	608	675	613	519	425	345	304	285	254
5°	931	994	826	627	423	294	246	207	159
7.5°	1468	1543	1118	736	421	262	174	83	28
10°	2342	2316	1586	857	419	234	68	16	14
12.5°	3030	2978	2191	1014	415	195	15	12	12
15°	3471	3416	2733	1205	412	141	11	10	11
17.5°	3649	3628	3143	1466	408	79	9	9	10
20°	3766	3745	3408	1781	403	32	8	8	8
22.5°	3790	3772	3535	2097	396	14	7	7	8
25°	3847	3804	3601	2385	389	13	6	5	7
27.5°	3793	3813	3596	2615	381	12	6	5	7
30°	3629	3689	3573	2797	371	10	5	5	7
32.5°	3438	3503	3564	2912	360	9	4	5	6
35°	3145	3290	3500	2937	349	9	4	4	7
37.5°	2778	2963	3336	2928	339	7	3	5	7
40°	2378	2583	3154	2879	328	7	3	5	5
42.5°	2147	2239	2940	2792	318	6	3	4	6
45°	2092	2081	2635	2696	306	5	3	4	6
47.5°	2074	2047	2281	2599	295	4	2	4	5
50°	2014	2002	1960	2496	283	3	2	4	5
52.5°	2017	1953	1781	2368	273	3	2	4	6
55°	2006	1941	1721	2204	260	2	2	4	5
57.5°	1993	1914	1658	2027	248	1	2	4	5
60°	1961	1891	1593	1816	236	1	2	4	5
62.5°	1913	1841	1559	1536	226	1	2	4	5
65°	1899	1806	1514	1245	219	1	2	4	5
67.5°	1842	1769	1449	1053	213	1	2	4	6
70°	1631	1627	1382	968	209	1	2	4	5
72.5°	1386	1369	1319	871	202	1	2	4	6
75°	1099	1094	1146	793	203	1	2	4	6
77.5°	937	884	889	697	204	1	2	4	6
80°	675	658	653	605	191	1	2	4	5
82.5°	562	526	458	445	164	1	2	4	5
85°	405	365	326	246	99	1	2	4	5
87.5°	185	146	138	114	45	1	2	4	5
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



TEST NUMBER: 167P114

CATALOG NUMBER: RWW-T1BX40MI

**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)