

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: 167P104

Luminaire Tested: **RWW-T2BX40**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 167P104
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: RWW-T2BX40
Description: Biaxial Wall Wash Luminaire.
Light Source: Two - F40BX/SPX35/RS - 3150 Lumens ea. - 40 Watts ea.
Ballast/Driver: Magnetek B240I120HP Electronic

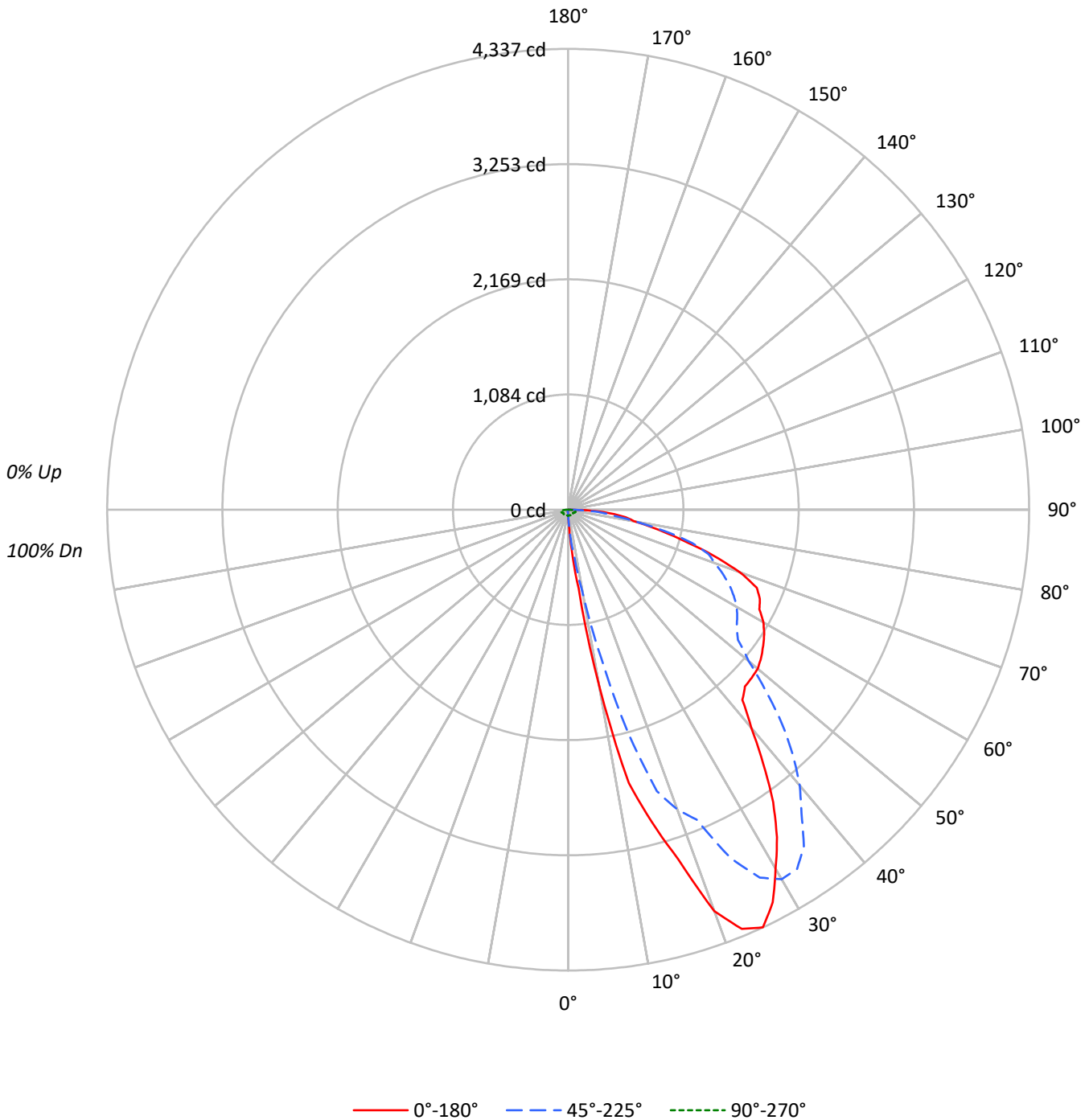
Summary

Lumens per Lamp: 3150 (2 lamps)
Luminaire Lumens: 5060.5 lumens
Efficiency: 80.3%
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 5.76 / 1.56 / 4.84
Luminous Opening: Rectangular (W 3.89' x L: 0.66' x H: 0')
CIE Type: Direct

Input Watts (W): 68
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: 167P104
CATALOG NUMBER: RWW-T2BX40

Luminous Intensity Polar Plot





TEST NUMBER: 167P104
 CATALOG NUMBER: RWW-T2BX40

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	96	96	96	96	93	93	93	93	89	89	89	85	85	85	82	82	82	80
1	86	82	78	74	84	80	76	73	76	73	71	73	71	68	70	68	66	65
2	77	70	64	59	75	68	63	58	65	61	56	63	59	55	60	57	54	52
3	70	60	53	47	68	59	52	47	57	51	46	54	49	45	52	48	44	42
4	63	53	45	39	61	52	44	39	49	43	38	48	42	38	46	41	37	35
5	58	46	39	33	56	46	38	33	44	37	32	42	36	32	41	35	31	30
6	53	41	34	28	51	40	33	28	39	32	27	38	32	27	36	31	27	25
7	49	37	29	24	47	36	29	24	35	29	24	34	28	24	33	27	23	22
8	45	33	26	21	44	33	26	21	32	25	21	31	25	21	30	24	20	19
9	42	30	23	18	41	30	23	18	29	23	18	28	22	18	27	22	18	16
10	39	28	21	16	38	27	21	16	26	20	16	26	20	16	25	20	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	238	238	238
5°	1570	227	109
10°	7199	229	81
15°	13167	238	56
20°	17892	249	36
25°	20014	263	18
30°	18849	275	14
35°	17160	296	15
40°	14643	322	5
45°	13912	349	6
50°	15141	377	0
55°	16319	408	0
60°	17733	477	0
65°	19694	614	0
70°	21009	832	0
75°	18115	1147	0
80°	15222	1638	0
85°	19531	2255	0



TEST NUMBER: 167P104
 CATALOG NUMBER: RWW-T2BX40

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	23.2	0.5	0.4	0°	57	57	57	57	57	
10°-20°	263.9	5.2	4.2	5°	374	287	54	28	26	73
20°-30°	679.1	13.4	10.8	15°	3041	2166	55	15	13	879
30°-40°	908.4	18.0	14.4	25°	4337	3618	57	6	4	1935
40°-50°	912.9	18.0	14.5	35°	3361	3866	58	1	3	2077
50°-60°	863.4	17.1	13.7	45°	2352	2842	59	0	1	1860
60°-70°	749.6	14.8	11.9	55°	2238	1934	56	0	0	2003
70°-80°	502.3	9.9	8.0	65°	1990	1672	62	0	0	1948
80°-90°	157.6	3.1	2.5	75°	1121	1205	71	0	0	1212
90°-100°	0.0	0.0	0.0	85°	407	322	47	0	0	374
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	29
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°	966.3	19.1	15.3	165°	0	0	0	0	0	0
0°-40°	1874.7	37.0	29.8	175°	0	0	0	0	0	0
0°-60°	3651.0	72.1	58.0	180°	0	0	0	0	0	0
0°-90°	5060.5	100.0	80.3							
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°	5060.5	100.0	80.3							



TEST NUMBER: 167P104
 CATALOG NUMBER: RWW-T2BX40

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	57	57	57	57	57	57	57	57	57
2.5°	141	176	131	86	55	40	35	35	32
5°	374	395	287	136	54	33	28	27	26
7.5°	746	813	466	210	54	29	23	23	22
10°	1695	1608	821	302	54	26	20	19	19
12.5°	2634	2525	1425	405	54	24	17	16	16
15°	3041	3049	2166	524	55	22	15	13	13
17.5°	3454	3259	2777	715	56	19	12	10	10
20°	4020	3843	3003	1012	56	17	10	8	8
22.5°	4270	4166	3156	1396	56	16	8	7	5
25°	4337	4277	3618	1832	57	14	6	3	4
27.5°	4167	4242	3903	2180	57	13	5	2	4
30°	3903	3961	4016	2476	57	12	2	2	3
32.5°	3656	3741	4007	2603	57	10	1	1	3
35°	3361	3478	3866	2579	58	9	1	1	3
37.5°	3014	3177	3604	2671	58	7	0	0	3
40°	2682	2839	3387	2878	59	6	0	0	1
42.5°	2426	2531	3128	2993	59	5	0	0	1
45°	2352	2336	2842	3002	59	3	0	0	1
47.5°	2342	2280	2519	2938	59	1	0	0	0
50°	2327	2259	2219	2814	58	0	0	0	0
52.5°	2289	2229	2013	2623	57	0	0	0	0
55°	2238	2179	1934	2408	56	0	0	0	0
57.5°	2187	2120	1885	2198	56	0	0	0	0
60°	2120	2054	1831	1960	57	0	0	0	0
62.5°	2028	1958	1756	1687	59	0	0	0	0
65°	1990	1881	1672	1412	62	0	0	0	0
67.5°	1920	1833	1574	1206	66	0	0	0	0
70°	1718	1692	1466	1103	68	0	0	0	0
72.5°	1431	1418	1382	999	71	0	0	0	0
75°	1121	1120	1205	895	71	0	0	0	0
77.5°	871	841	928	784	71	0	0	0	0
80°	632	618	645	648	68	0	0	0	0
82.5°	543	498	438	469	55	0	0	0	0
85°	407	365	322	250	47	0	0	0	0
87.5°	215	170	156	117	16	0	0	0	0
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: 167P104
 CATALOG NUMBER: RWW-T2BX40

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)