

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: 167P117

Luminaire Tested: **RWW-1BX40MI**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 167P117  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: RWW-1BX40MI  
Description: Recessed Biaxial Wall Wash Luminaire  
Light Source: One - F40BX/SPX35/RS - 3150 Lumens - 40 Watts  
Ballast/Driver: Sylvania QT 1X40/120 DL - Electronic - L.O.B.F. = 97.8%

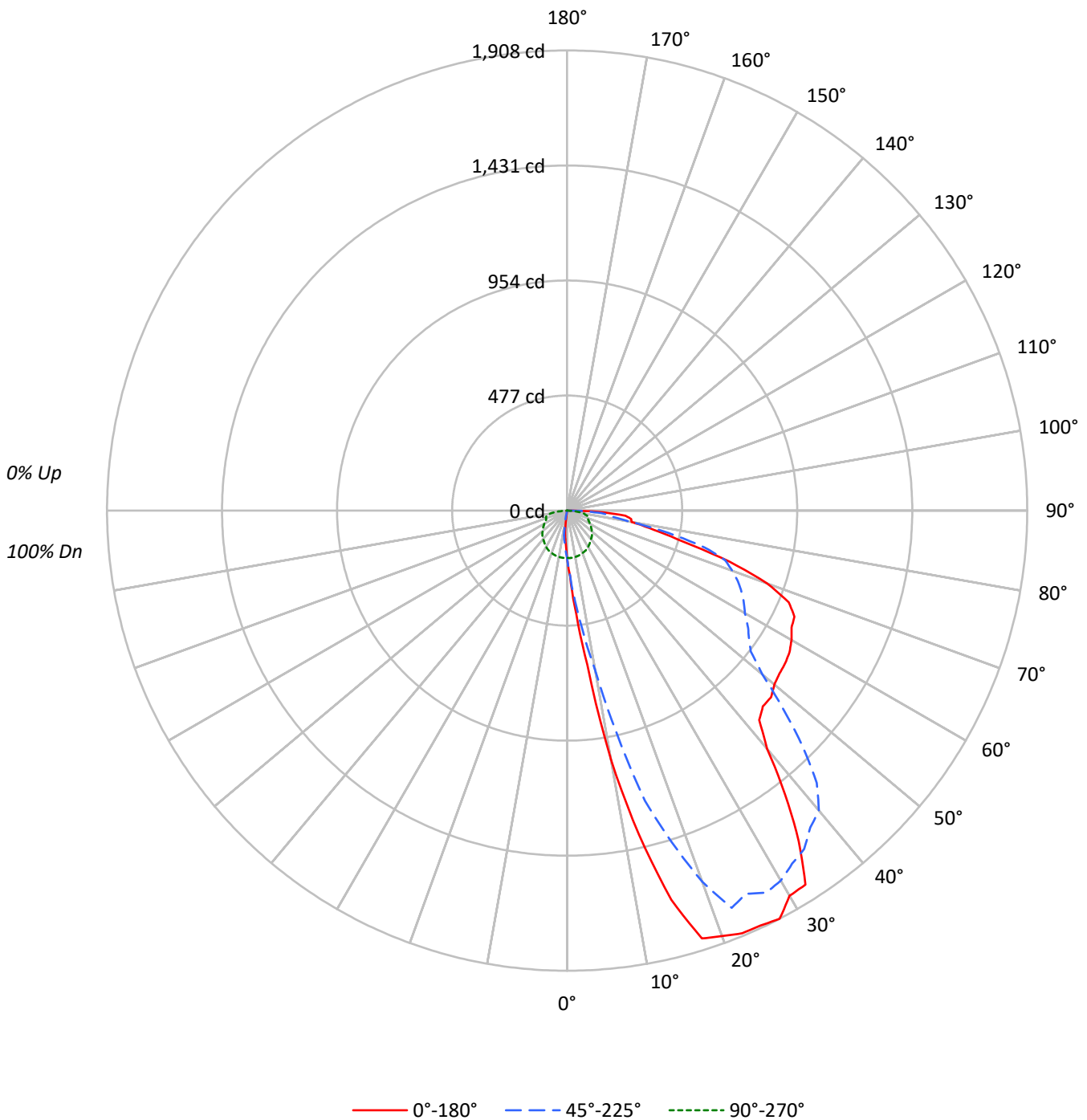
**Summary**

Lumens per Lamp: 3150 (1 lamp)  
Luminaire Lumens: 2528.6 lumens  
Efficiency: 80.3%  
Efficacy: 65.3 lumens/watt  
Spacing Criteria (0/90/45): 2.94 / 1.31 / 2.53  
Luminous Opening: Rectangular (W 1.85' x L: 0.66' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.7  
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: 167P117  
CATALOG NUMBER: RWW-1BX40MI

### Luminous Intensity Polar Plot





TEST NUMBER: 167P117

CATALOG NUMBER: RWW-1BX40MI

**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	77	74	71	73	71	69	70	68	67	65
2	78	70	64	59	75	69	63	58	66	61	57	63	59	56	61	57	54	52
3	70	61	54	48	68	59	53	47	57	51	47	55	50	46	53	48	45	43
4	64	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	33	44	38	33	43	37	33	41	36	32	30
6	53	42	34	29	52	41	34	29	40	33	28	38	32	28	37	32	28	26
7	49	38	30	25	48	37	30	25	36	29	25	35	29	24	33	28	24	23
8	46	34	27	22	44	34	27	22	32	26	22	31	26	21	30	25	21	20
9	42	31	24	19	41	31	24	19	30	23	19	29	23	19	28	23	19	17
10	40	28	22	17	39	28	22	17	27	21	17	26	21	17	26	21	17	15

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

	0°	90°	180°
0°	1734	1734	1734
5°	3818	1749	844
10°	9440	1751	45
15°	15302	1758	27
20°	17668	1760	28
25°	18524	1776	29
30°	18834	1777	20
35°	18087	1771	22
40°	14895	1778	23
45°	14360	1814	25
50°	15440	1830	28
55°	17025	1866	31
60°	19000	1928	35
65°	21767	2051	42
70°	22810	2405	52
75°	16951	3007	68
80°	13804	3617	102
85°	24560	2436	203



TEST NUMBER: 167P117

CATALOG NUMBER: RWW-1BX40MI

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	27.1	1.1	0.9	0°	196	196	196	196	196	
10°-20°	159.9	6.3	5.1	5°	430	376	197	128	95	59
20°-30°	337.2	13.3	10.7	15°	1671	1245	192	3	3	464
30°-40°	450.5	17.8	14.3	25°	1898	1753	182	2	3	875
40°-50°	440.2	17.4	14.0	35°	1675	1713	164	1	2	1024
50°-60°	416.5	16.5	13.2	45°	1148	1380	145	1	2	904
60°-70°	377.3	14.9	12.0	55°	1104	920	121	0	2	988
70°-80°	243.1	9.6	7.7	65°	1040	798	98	1	2	1007
80°-90°	76.8	3.0	2.4	75°	496	591	88	0	2	565
90°-100°	0.0	0.0	0.0	85°	242	157	24	0	2	193
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	18
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°	524.2	20.7	16.6	165°	0	0	0	0	0	0
0°-40°	974.6	38.5	30.9	175°	0	0	0	0	0	0
0°-60°	1831.3	72.4	58.1	180°	0	0	0	0	0	0
0°-90°	2528.6	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°	2528.6	100.0	80.3							



TEST NUMBER: 167P117

CATALOG NUMBER: RWW-1BX40MI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	196	196	196	196	196	196	196	196	196
2.5°	272	299	270	233	197	175	160	150	135
5°	430	453	376	276	197	155	128	112	95
7.5°	645	656	509	331	196	138	99	51	17
10°	1051	1014	674	395	195	122	45	6	5
12.5°	1376	1356	938	465	194	107	7	4	4
15°	1671	1618	1245	539	192	84	3	3	3
17.5°	1860	1841	1441	627	190	52	3	3	3
20°	1877	1853	1637	732	187	21	2	2	3
22.5°	1897	1900	1783	891	185	7	2	2	3
25°	1898	1889	1753	1070	182	4	2	2	3
27.5°	1908	1892	1786	1169	178	4	1	1	2
30°	1844	1867	1772	1249	174	3	1	1	2
32.5°	1839	1836	1736	1329	169	3	1	1	2
35°	1675	1752	1713	1399	164	2	1	1	2
37.5°	1485	1579	1656	1423	159	2	1	1	3
40°	1290	1390	1624	1353	154	2	1	1	2
42.5°	1178	1221	1532	1336	150	1	1	1	2
45°	1148	1135	1380	1300	145	1	1	1	2
47.5°	1146	1113	1211	1240	139	1	0	1	2
50°	1122	1098	1056	1180	133	1	0	1	2
52.5°	1110	1069	959	1129	128	0	0	1	2
55°	1104	1054	920	1059	121	0	0	1	2
57.5°	1093	1039	888	1005	115	0	0	1	2
60°	1074	1023	851	910	109	0	0	1	2
62.5°	1049	994	826	786	104	0	0	1	2
65°	1040	980	798	653	98	0	1	1	2
67.5°	995	953	766	550	94	0	0	1	2
70°	882	874	728	496	93	0	0	1	2
72.5°	706	718	688	448	93	0	0	1	2
75°	496	518	591	403	88	0	0	1	2
77.5°	368	350	430	354	77	0	0	1	2
80°	271	263	261	294	71	0	0	1	2
82.5°	268	248	182	197	51	0	0	1	2
85°	242	216	157	97	24	0	0	1	2
87.5°	130	109	86	50	2	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



TEST NUMBER: 167P117

CATALOG NUMBER: RWW-1BX40MI

**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)