

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: 167P106

Luminaire Tested: **RWW-1BX50**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 167P106  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: RWW-1BX50  
Description: Biaxial Wall Wash Luminaire  
Light Source: One - PL-L 50W/35/RS - 4300 Lumens - 50 Watts  
Ballast/Driver: Valmont E150SB120G01 Electronic

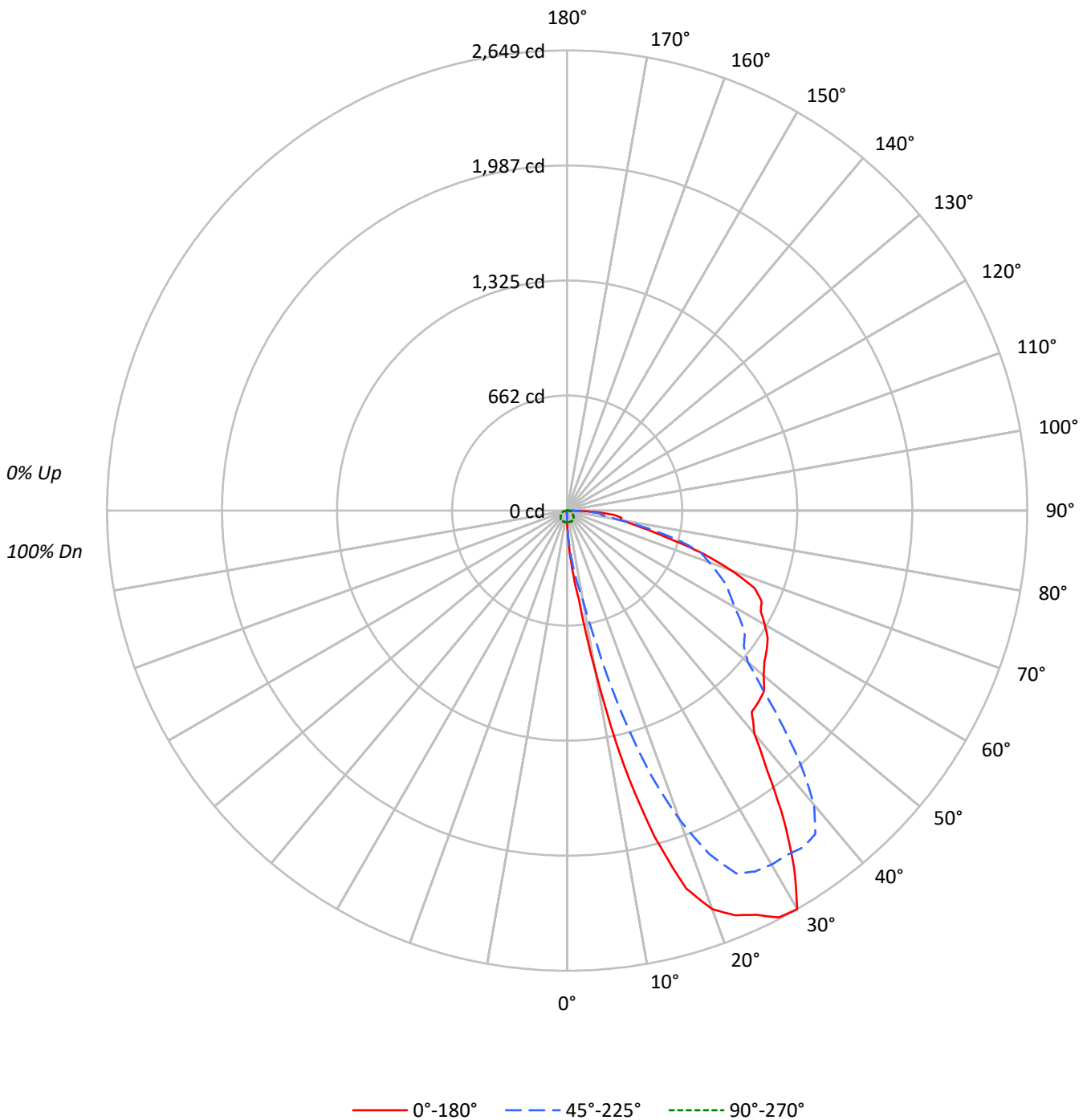
**Summary**

Lumens per Lamp: 4300 (1 lamp)  
Luminaire Lumens: 3074.1 lumens  
Efficiency: 71.5%  
Efficacy: 58.6 lumens/watt  
Spacing Criteria (0/90/45): 4.72 / 1.39 / 3.88  
Luminous Opening: Rectangular (W 1.9' x L: 0.69' x H: 0')  
CIE Type: Direct

Input Watts (W): 52.5  
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	85	85	85	85	83	83	83	83	79	79	79	76	76	76	73	73	73	71
1	77	73	70	67	75	71	68	66	68	66	63	66	63	62	63	61	60	58
2	69	63	57	53	67	61	56	52	59	55	51	56	53	50	54	51	49	47
3	62	54	48	43	61	53	47	42	51	46	42	49	45	41	47	43	40	38
4	57	47	41	35	55	46	40	35	45	39	35	43	38	34	41	37	34	32
5	52	42	35	30	50	41	34	30	39	34	29	38	33	29	37	32	29	27
6	47	37	30	25	46	36	30	25	35	29	25	34	29	25	33	28	25	23
7	44	33	27	22	42	33	26	22	32	26	22	30	25	21	29	25	21	20
8	40	30	24	19	39	30	23	19	29	23	19	28	22	19	27	22	19	17
9	37	27	21	17	36	27	21	17	26	20	17	25	20	17	24	20	16	15
10	35	25	19	15	34	24	19	15	24	18	15	23	18	15	22	18	15	13

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

	0°	90°	180°
0°	578	578	578
5°	2802	547	133
10°	7833	562	92
15°	16604	573	68
20°	21453	589	44
25°	23391	601	36
30°	25261	620	29
35°	21928	635	30
40°	18069	625	22
45°	18196	607	23
50°	18964	604	26
55°	20187	590	29
60°	21704	595	33
65°	24134	645	39
70°	24243	700	48
75°	18603	830	64
80°	14838	809	48
85°	25110	379	190



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	17.2	0.6	0.4	0°	70	70	70	70	70	
10°-20°	164.5	5.3	3.8	5°	338	270	66	18	16	48
20°-30°	413.3	13.4	9.6	15°	1942	1198	67	9	8	547
30°-40°	577.0	18.8	13.4	25°	2567	2305	66	4	4	1192
40°-50°	565.6	18.4	13.2	35°	2175	2367	63	1	3	1348
50°-60°	532.8	17.3	12.4	45°	1558	1756	52	0	2	1208
60°-70°	450.6	14.7	10.5	55°	1402	1248	41	1	2	1254
70°-80°	272.8	8.9	6.3	65°	1235	1009	33	0	2	1194
80°-90°	80.4	2.6	1.9	75°	583	665	26	0	2	651
90°-100°	0.0	0.0	0.0	85°	265	188	4	0	2	218
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	17
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°	595.0	19.4	13.8	165°	0	0	0	0	0	0
0°-40°	1172.0	38.1	27.3	175°	0	0	0	0	0	0
0°-60°	2270.3	73.9	52.8	180°	0	0	0	0	0	0
0°-90°	3074.1	100.0	71.5							
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°	3074.1	100.0	71.5							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	70	70	70	70	70	70	70	70	70
2.5°	169	194	156	110	66	39	27	24	21
5°	338	352	270	160	66	22	18	17	16
7.5°	515	521	395	220	67	18	14	14	13
10°	934	889	526	287	67	16	12	11	11
12.5°	1491	1415	793	353	67	14	10	9	9
15°	1942	1868	1198	421	67	13	9	8	8
17.5°	2281	2205	1586	492	67	12	7	7	7
20°	2441	2424	1895	590	67	10	5	5	5
22.5°	2521	2494	2141	758	66	9	5	4	4
25°	2567	2529	2305	980	66	8	4	3	4
27.5°	2640	2584	2342	1168	66	7	3	2	4
30°	2649	2626	2353	1366	65	6	2	2	3
32.5°	2429	2514	2352	1525	64	5	1	2	3
35°	2175	2295	2367	1650	63	5	1	2	3
37.5°	1896	2027	2347	1733	61	4	1	2	3
40°	1676	1775	2211	1769	58	4	1	1	2
42.5°	1573	1595	1996	1754	55	4	1	1	2
45°	1558	1526	1756	1703	52	3	0	1	2
47.5°	1538	1508	1530	1644	49	2	1	1	2
50°	1476	1465	1358	1587	47	1	1	1	2
52.5°	1431	1401	1281	1531	44	1	0	1	2
55°	1402	1357	1248	1444	41	1	1	1	2
57.5°	1369	1322	1185	1323	38	1	0	1	2
60°	1314	1278	1112	1139	36	0	0	1	2
62.5°	1256	1210	1059	957	34	0	0	1	2
65°	1235	1170	1009	803	33	0	0	1	2
67.5°	1168	1127	938	713	31	0	0	1	2
70°	1004	996	869	646	29	0	0	1	2
72.5°	813	812	807	562	28	0	0	1	2
75°	583	587	665	490	26	0	0	0	2
77.5°	419	409	475	414	24	0	0	1	2
80°	312	299	295	327	17	0	0	1	1
82.5°	315	290	202	201	10	0	0	1	2
85°	265	237	188	88	4	0	0	1	2
87.5°	127	101	87	49	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)