

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: 167P116

Luminaire Tested: **RWW-217MI**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 167P116
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: RWW-217MI
Description: Recessed Wall Wash Luminaire
Light Source: Two - FO17/35K - 1300 Lumens ea. - 17 Watts ea.
Ballast/Driver: Advance - REL-2P32-RH-TP - Electronic

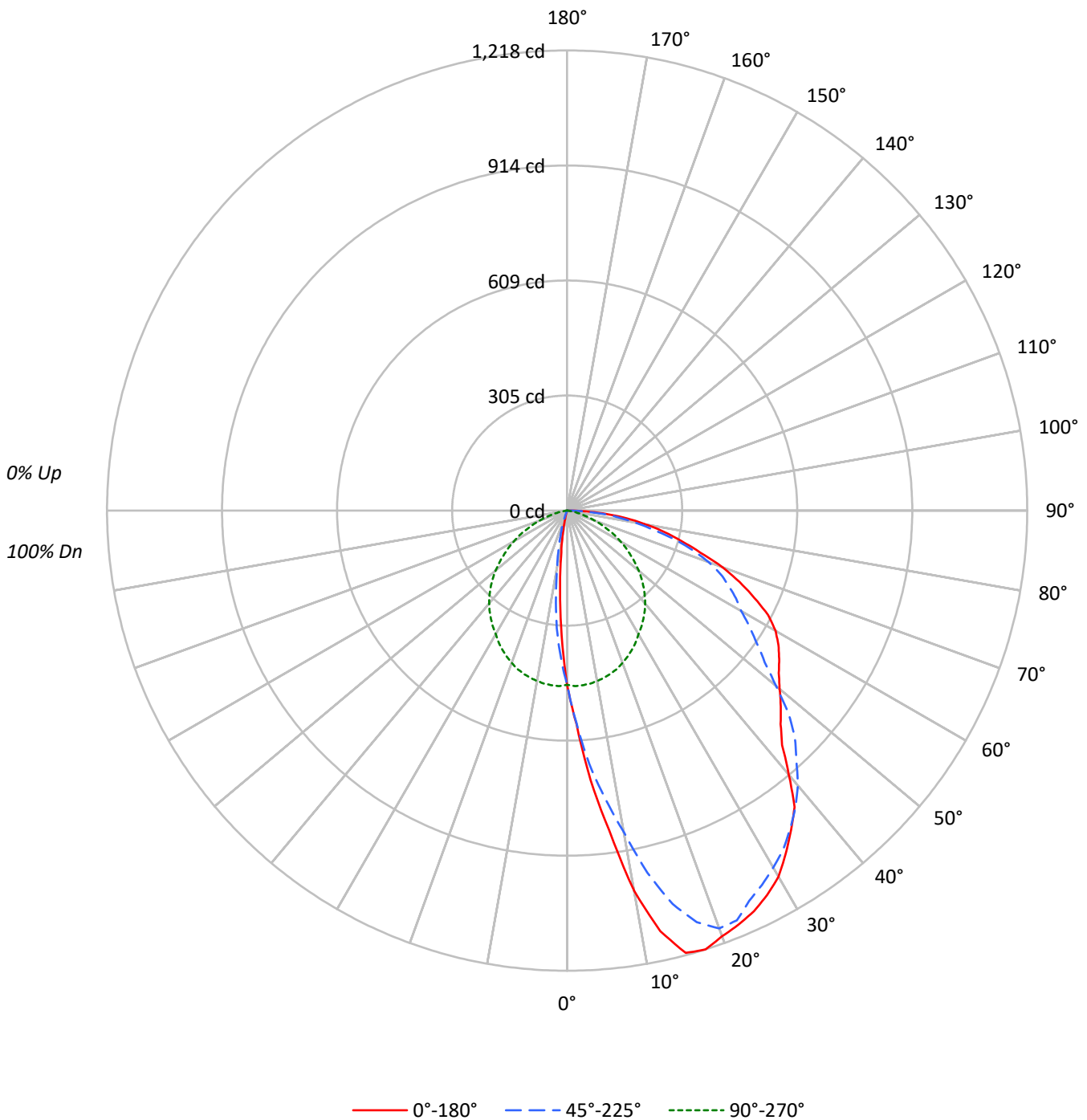
Summary

Lumens per Lamp: 1300 (2 lamps)
Luminaire Lumens: 1738.2 lumens
Efficiency: 66.9%
Efficacy: 51.3 lumens/watt
Spacing Criteria (0/90/45): 1.59 / 1.22 / 1.58
Luminous Opening: Rectangular (W 1.9' x L: 0.66' x H: 0')
CIE Type: Direct

Input Watts (W): 33.9
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	80	80	80	80	78	78	78	78	74	74	74	71	71	71	68	68	68	67
1	72	69	66	63	71	68	65	62	65	62	60	62	60	58	60	58	57	55
2	66	60	55	51	64	59	54	51	56	53	49	54	51	48	52	49	47	46
3	60	52	47	42	58	51	46	42	49	45	41	47	44	40	46	42	40	38
4	55	46	40	36	53	45	40	35	44	39	35	42	38	34	41	37	34	32
5	50	41	35	31	49	40	35	30	39	34	30	38	33	30	36	33	29	28
6	46	37	31	27	45	36	31	26	35	30	26	34	29	26	33	29	26	24
7	43	34	28	23	42	33	27	23	32	27	23	31	26	23	30	26	23	21
8	40	31	25	21	39	30	25	21	29	24	21	28	24	20	28	23	20	19
9	37	28	22	19	36	28	22	19	27	22	18	26	22	18	25	21	18	17
10	35	26	20	17	34	25	20	17	25	20	17	24	20	17	24	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	3988	3988	3988
5°	6227	4029	1850
10°	8987	4023	624
15°	10855	4003	54
20°	11038	3950	37
25°	11168	3875	29
30°	11178	3776	30
35°	10910	3707	32
40°	10311	3625	45
45°	9775	3499	24
50°	9879	3324	27
55°	10332	3092	30
60°	11022	2820	35
65°	11197	2456	41
70°	11028	1998	51
75°	10496	1404	67
80°	10512	747	100
85°	10621	298	199



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	46.9	2.7	1.8	0°	461	461	461	461	461	
10°-20°	154.3	8.9	5.9	5°	717	674	464	313	213	77
20°-30°	249.2	14.3	9.6	15°	1212	1078	447	68	6	334
30°-40°	305.4	17.6	11.7	25°	1170	1140	406	3	3	538
40°-50°	304.7	17.5	11.7	35°	1033	1029	351	2	3	644
50°-60°	275.1	15.8	10.6	45°	799	853	286	1	2	624
60°-70°	224.0	12.9	8.6	55°	685	613	205	1	2	614
70°-80°	136.3	7.8	5.2	65°	547	472	120	1	2	539
80°-90°	42.2	2.4	1.6	75°	314	295	42	1	2	336
90°-100°	0.0	0.0	0.0	85°	107	86	3	1	2	108
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	7
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°	450.4	25.9	17.3	165°	0	0	0	0	0	0
0°-40°	755.8	43.5	29.1	175°	0	0	0	0	0	0
0°-60°	1335.6	76.8	51.4	180°	0	0	0	0	0	0
0°-90°	1738.2	100.0	66.9							
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°	1738.2	100.0	66.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	461	461	461	461	461	461	461	461	461
2.5°	566	598	563	513	465	422	388	366	331
5°	717	731	674	572	464	380	313	262	213
7.5°	853	858	768	634	462	340	228	161	122
10°	1023	1012	864	687	458	294	152	98	71
12.5°	1140	1129	982	732	453	245	104	56	33
15°	1212	1201	1078	773	447	196	68	21	6
17.5°	1218	1221	1142	815	439	153	39	5	4
20°	1199	1198	1177	862	429	120	14	4	4
22.5°	1186	1185	1174	911	418	95	4	3	3
25°	1170	1169	1140	947	406	73	3	3	3
27.5°	1147	1145	1117	970	393	53	3	2	3
30°	1119	1118	1091	982	378	37	2	2	3
32.5°	1077	1084	1064	982	365	21	2	2	3
35°	1033	1033	1029	970	351	9	2	2	3
37.5°	989	990	992	939	337	5	2	2	3
40°	913	934	950	893	321	4	1	2	4
42.5°	842	853	898	853	304	3	1	2	2
45°	799	790	853	815	286	3	1	2	2
47.5°	767	747	795	774	267	2	1	2	2
50°	734	712	721	730	247	2	1	2	2
52.5°	706	679	659	684	226	1	1	1	2
55°	685	652	613	637	205	1	1	2	2
57.5°	663	630	572	586	184	1	1	1	2
60°	637	604	532	530	163	1	1	1	2
62.5°	600	580	504	475	142	1	1	1	2
65°	547	533	472	415	120	1	1	1	2
67.5°	494	478	440	358	99	1	1	1	2
70°	436	423	399	310	79	1	1	1	2
72.5°	370	357	348	268	59	0	1	1	2
75°	314	299	295	233	42	0	1	1	2
77.5°	266	252	232	193	27	0	1	1	2
80°	211	199	184	153	15	0	1	1	2
82.5°	161	150	135	103	6	0	1	1	2
85°	107	96	86	63	3	0	1	1	2
87.5°	50	39	35	26	1	0	1	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)