

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: 132P118

Luminaire Tested: **2M-432A125T**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 132P118  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2M-432A125T  
Description: 2 X 4 Surface Modular Luminaire with a  
.125 pattern 12 tinted acrylic lens.  
Light Source: Four - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Magnetek B432I120RH Electronic - L.O.B.F. = 89.7

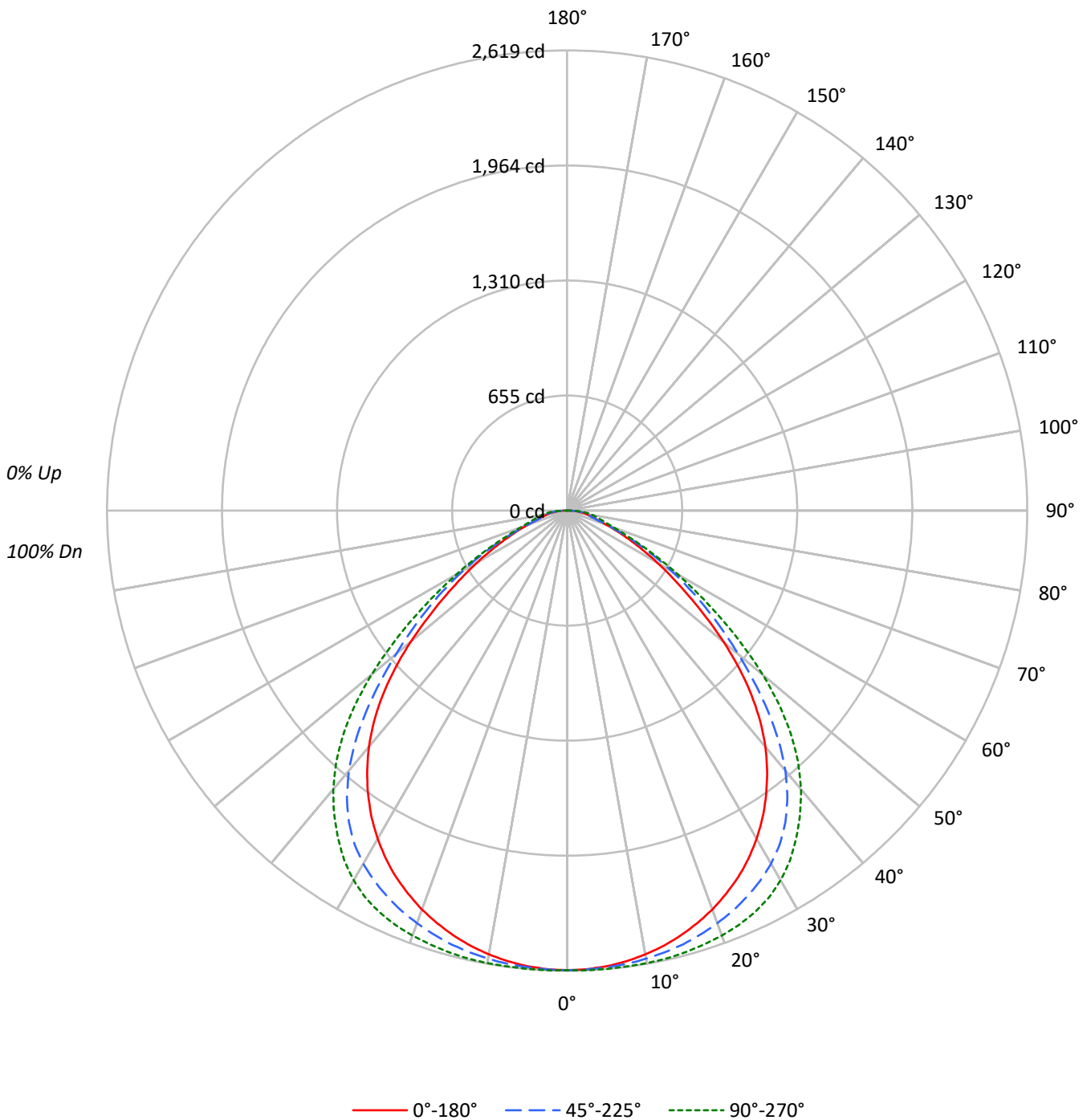
**Summary**

Lumens per Lamp: 2800 (4 lamps)  
Luminaire Lumens: 6227.4 lumens  
Efficiency: 55.6%  
Efficacy: 56.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.35 / 1.35  
Luminous Opening: Rectangular (W 1.79' x L: 3.81' x H: 0')  
CIE Type: Direct

Input Watts (W): 111  
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: 132P118  
CATALOG NUMBER: 2M-432A125T

### 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	66	66	66	66	65	65	65	65	62	62	62		59	59	59		57	57	57	56
1	61	59	57	55	60	58	56	54	55	54	53		53	52	51		51	50	49	48
2	57	52	49	46	55	51	48	46	50	47	45		48	46	44		46	44	43	42
3	52	47	43	40	51	46	42	39	44	41	39		43	40	38		41	39	37	36
4	48	42	38	34	47	41	37	34	40	36	33		39	36	33		37	35	33	31
5	44	38	33	30	43	37	33	30	36	32	29		35	32	29		34	31	29	28
6	41	34	30	26	40	34	29	26	33	29	26		32	28	26		31	28	26	25
7	38	31	27	23	37	31	26	23	30	26	23		29	26	23		28	25	23	22
8	36	29	24	21	35	28	24	21	27	24	21		27	23	21		26	23	21	20
9	33	26	22	19	33	26	22	19	25	22	19		25	21	19		24	21	19	18
10	31	24	20	17	31	24	20	17	23	20	17		23	20	17		22	19	17	16

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

	0°	45°	90°
0°	4128	4128	4128
5°	4123	4133	4147
10°	4110	4150	4190
15°	4089	4174	4251
20°	4057	4196	4322
25°	4010	4220	4394
30°	3930	4229	4428
35°	3804	4172	4380
40°	3615	3980	4266
45°	3312	3613	4023
50°	2850	3118	3569
55°	2319	2644	2938
60°	1859	2149	2297
65°	1452	1624	1710
70°	1103	1121	1301
75°	933	884	1207
80°	954	1036	1327
85°	1104	1322	1702



TEST NUMBER: 132P118  
 CATALOG NUMBER: 2M-432A125T

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	248.5	4.0	2.2	0°	2616	2616	2616	2616	2616	
10°-20°	721.3	11.6	6.4	5°	2603	2604	2609	2615	2618	247
20°-30°	1113.9	17.9	9.9	15°	2503	2518	2555	2587	2602	706
30°-40°	1335.2	21.4	11.9	25°	2303	2342	2424	2494	2524	1059
40°-50°	1247.1	20.0	11.1	35°	1975	2047	2166	2239	2274	1231
50°-60°	863.9	13.9	7.7	45°	1484	1519	1619	1734	1803	1135
60°-70°	439.2	7.1	3.9	55°	843	889	961	1040	1068	763
70°-80°	181.0	2.9	1.6	65°	389	406	435	467	458	393
80°-90°	77.3	1.2	0.7	75°	153	146	145	181	198	169
90°-100°	0.0	0.0	0.0	85°	61	63	73	93	94	58
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	5
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°	2083.7	33.5	18.6	165°	0	0	0	0	0	0
0°-40°	3418.9	54.9	30.5	175°	0	0	0	0	0	0
0°-60°	5529.9	88.8	49.4	180°	0	0	0	0	0	0
0°-90°	6227.4	100.0	55.6							
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°	6227.4	100.0	55.6							



TEST NUMBER: 132P118  
 CATALOG NUMBER: 2M-432A125T

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2616	2616	2616	2616	2616
2.5°	2612	2612	2614	2616	2619
5°	2603	2604	2609	2615	2618
7.5°	2587	2591	2602	2611	2617
10°	2565	2571	2590	2606	2615
12.5°	2537	2547	2574	2599	2611
15°	2503	2518	2555	2587	2602
17.5°	2462	2482	2529	2571	2590
20°	2416	2441	2499	2552	2574
22.5°	2362	2395	2465	2526	2553
25°	2303	2342	2424	2494	2524
27.5°	2234	2282	2377	2452	2485
30°	2157	2214	2321	2398	2430
32.5°	2071	2136	2252	2327	2361
35°	1975	2047	2166	2239	2274
37.5°	1870	1942	2059	2138	2178
40°	1755	1819	1932	2024	2071
42.5°	1627	1677	1785	1891	1946
45°	1484	1519	1619	1734	1803
47.5°	1328	1352	1443	1558	1637
50°	1161	1187	1270	1377	1454
52.5°	995	1032	1111	1203	1260
55°	843	889	961	1040	1068
57.5°	709	756	818	885	889
60°	589	630	681	735	728
62.5°	484	512	554	593	584
65°	389	406	435	467	458
67.5°	307	313	330	361	356
70°	239	239	243	279	282
72.5°	188	184	180	219	232
75°	153	146	145	181	198
77.5°	127	122	127	156	170
80°	105	104	114	138	146
82.5°	83	86	97	119	124
85°	61	63	73	93	94
87.5°	35	37	42	58	56
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



TEST NUMBER: 132P118  
CATALOG NUMBER: 2M-432A125T

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)