

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: 132P107

Luminaire Tested: **2M-432A125**

Issue Date: 3/3/2020



**Test Information**

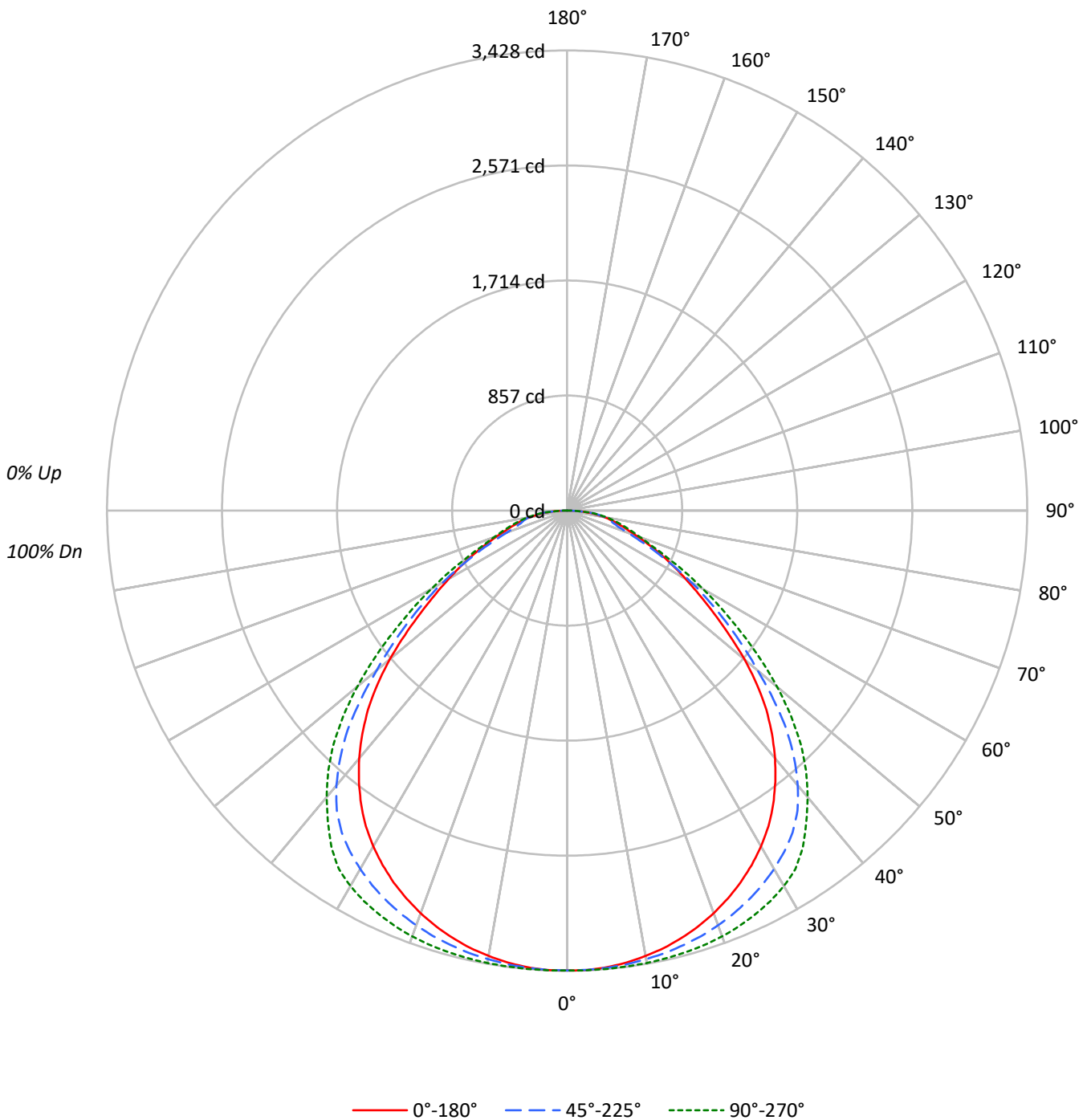
Test Method: LM-41-14  
Report Number: 132P107  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2M-432A125  
Description: 2 X 4 Surface Modular Luminaire with  
a .125 pattern 12 acrylic lens.  
Light Source: Four-F32T8/35K - 2900 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Triad-Utrad B432I120RH Electronic

**Summary**

Lumens per Lamp: 2900 (4 lamps)  
Luminaire Lumens: 8952.8 lumens  
Efficiency: 77.2%  
Efficacy: 81.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.39  
Luminous Opening: Rectangular (W 1.79' x L: 3.81' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 109.5  
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	50	30	10	0	
RCR																						
0	92	92	92	92	90	90	90	90	86	86	86	82	82	82	79	79	79	77				
1	85	81	78	75	82	79	77	74	76	74	72	73	71	70	70	69	68	66				
2	78	72	67	63	76	70	66	62	67	64	60	65	62	59	63	60	58	56				
3	71	63	58	53	69	62	57	52	60	55	51	58	54	51	56	53	50	48				
4	65	57	50	45	64	56	50	45	54	48	44	52	47	44	50	46	43	42				
5	60	51	44	39	59	50	44	39	48	43	39	47	42	38	45	41	38	36				
6	56	46	39	35	54	45	39	34	44	38	34	43	38	34	41	37	34	32				
7	52	42	35	31	51	41	35	31	40	34	30	39	34	30	38	33	30	28				
8	48	38	32	27	47	38	32	27	37	31	27	36	31	27	35	30	27	25				
9	45	35	29	25	44	35	29	25	34	28	25	33	28	24	32	28	24	23				
10	42	32	26	22	41	32	26	22	31	26	22	31	26	22	30	25	22	21				

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

	0°	45°	90°
0°	5399	5399	5399
5°	5402	5408	5421
10°	5391	5429	5475
15°	5377	5467	5558
20°	5353	5514	5661
25°	5315	5564	5769
30°	5257	5610	5877
35°	5148	5633	5890
40°	4957	5501	5733
45°	4675	5154	5487
50°	4229	4543	5003
55°	3662	3964	4352
60°	3211	3356	3690
65°	2852	2711	3031
70°	2534	2188	2663
75°	2435	2149	2612
80°	2541	2632	2786
85°	2640	2983	2929



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	325.5	3.6	2.8	0°	3426	3426	3426	3426	3426	
10°-20°	947.0	10.6	8.2	5°	3415	3411	3419	3423	3427	325
20°-30°	1472.2	16.4	12.7	15°	3296	3309	3351	3390	3407	930
30°-40°	1802.6	20.1	15.5	25°	3057	3100	3200	3283	3318	1408
40°-50°	1755.5	19.6	15.1	35°	2676	2765	2928	3020	3062	1669
50°-60°	1307.0	14.6	11.3	45°	2098	2173	2313	2418	2462	1608
60°-70°	768.0	8.6	6.6	55°	1333	1379	1443	1546	1584	1204
70°-80°	408.8	4.6	3.5	65°	765	736	727	796	813	763
80°-90°	166.1	1.9	1.4	75°	400	357	353	384	429	428
90°-100°	0.0	0.0	0.0	85°	146	150	165	169	162	146
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	10
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°	2744.7	30.7	23.7	165°	0	0	0	0	0	0
0°-40°	4547.4	50.8	39.2	175°	0	0	0	0	0	0
0°-60°	7609.9	85.0	65.6	180°	0	0	0	0	0	0
0°-90°	8952.8	100.0	77.2							
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°	8952.8	100.0	77.2							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3426	3426	3426	3426	3426
2.5°	3426	3421	3425	3426	3428
5°	3415	3411	3419	3423	3427
7.5°	3396	3396	3409	3419	3425
10°	3369	3374	3393	3412	3422
12.5°	3337	3344	3375	3402	3415
15°	3296	3309	3351	3390	3407
17.5°	3248	3267	3323	3372	3394
20°	3192	3218	3288	3349	3376
22.5°	3128	3162	3247	3320	3351
25°	3057	3100	3200	3283	3318
27.5°	2977	3030	3146	3239	3279
30°	2889	2952	3083	3186	3230
32.5°	2790	2865	3012	3119	3166
35°	2676	2765	2928	3020	3062
37.5°	2547	2649	2819	2884	2927
40°	2410	2514	2674	2741	2787
42.5°	2259	2356	2504	2590	2635
45°	2098	2173	2313	2418	2462
47.5°	1918	1967	2087	2213	2259
50°	1725	1755	1853	1981	2041
52.5°	1524	1560	1642	1757	1813
55°	1333	1379	1443	1546	1584
57.5°	1165	1208	1250	1341	1369
60°	1019	1041	1065	1144	1171
62.5°	887	881	892	963	984
65°	765	736	727	796	813
67.5°	650	607	586	652	677
70°	550	499	475	538	578
72.5°	466	417	399	451	499
75°	400	357	353	384	429
77.5°	341	309	328	335	367
80°	280	268	290	296	307
82.5°	216	214	234	242	239
85°	146	150	165	169	162
87.5°	72	75	77	84	79
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



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**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)