

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: 185P103

Luminaire Tested: **2EP3MX-432S48I**

Issue Date: 3/3/2020



**Test Information**

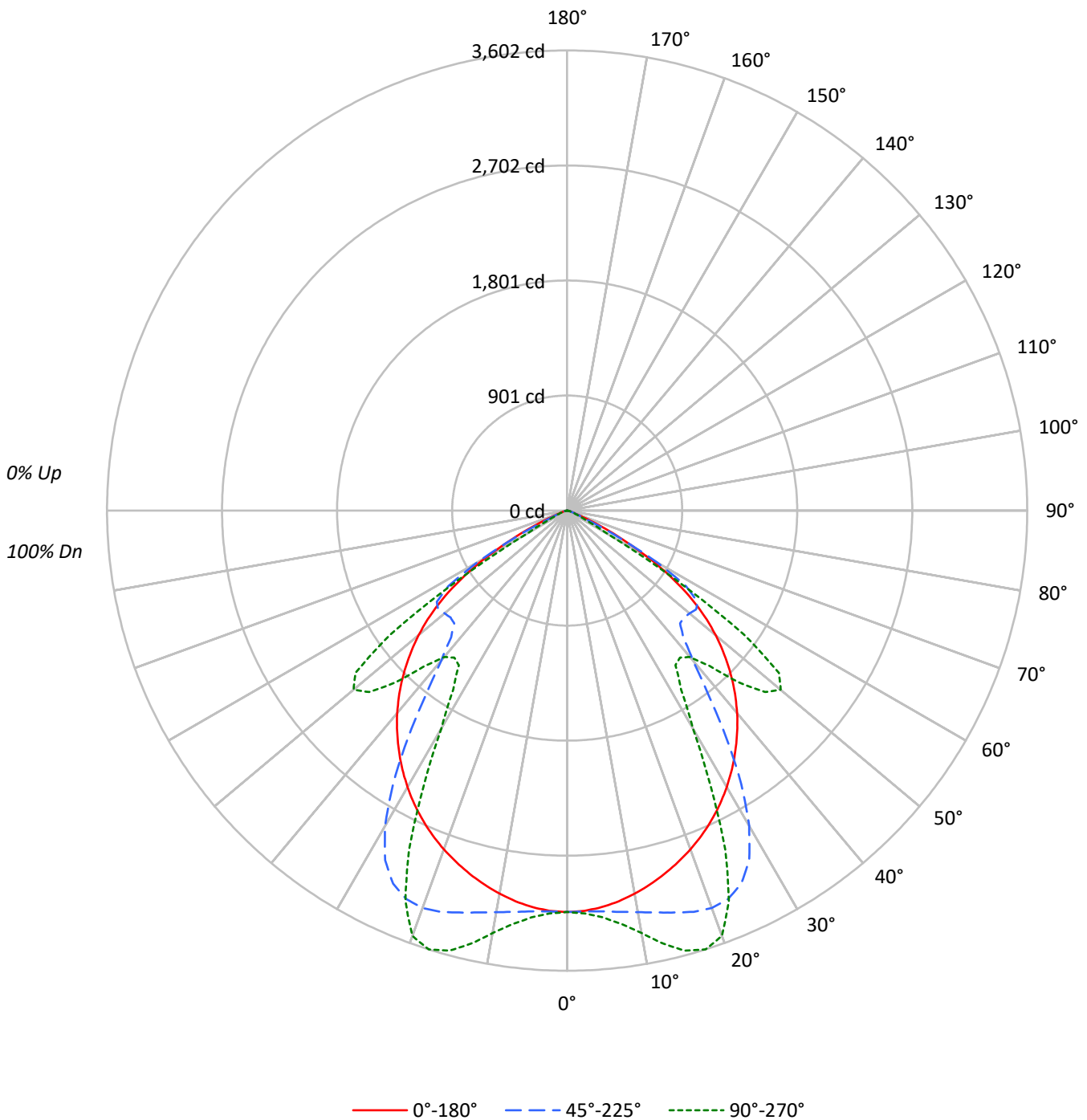
Test Method: LM-41-14  
Report Number: 185P103  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2EP3MX-432S48I  
Description: 2 X 4 Surface Mount Luminaire with a 3" deep 32 cell  
semi-specular low iridescent parabolic louver  
Light Source: Four - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Magnetek B432I120RH Electronic - L.O.B.F. = 89.5

**Summary**

Lumens per Lamp: 2800 (4 lamps)  
Luminaire Lumens: 6549.1 lumens  
Efficiency: 58.5%  
Efficacy: 58.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.07 / 1.13  
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 112.4  
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	70	70	70	70	68	68	68	68	65	65	65	62	62	62	60	60	60	58
1	65	63	61	59	64	62	60	59	59	58	57	57	56	55	55	54	53	52
2	61	57	54	51	59	56	53	50	54	51	49	52	50	48	50	48	47	46
3	56	51	47	44	55	50	46	44	48	45	43	47	44	42	45	43	41	40
4	52	46	42	38	51	45	41	38	44	40	38	43	39	37	41	39	37	35
5	48	42	37	34	47	41	37	33	40	36	33	39	35	33	38	35	32	31
6	45	38	33	30	44	37	33	30	36	32	30	35	32	29	34	31	29	28
7	42	35	30	27	41	34	30	27	33	29	26	32	29	26	32	29	26	25
8	39	32	27	24	38	31	27	24	31	27	24	30	26	24	29	26	24	23
9	36	29	25	22	36	29	25	22	28	24	22	28	24	22	27	24	22	21
10	34	27	23	20	34	27	23	20	26	23	20	26	22	20	25	22	20	19

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

	0°	45°	90°
0°	5216	5216	5216
5°	5192	5247	5325
10°	5133	5379	5660
15°	5061	5597	6128
20°	4985	5847	6259
25°	4898	5903	5366
30°	4790	5459	3776
35°	4653	4403	2993
40°	4485	3315	3242
45°	4251	2932	4467
50°	3920	3233	5635
55°	3377	3606	4888
60°	2404	2699	1242
65°	1131	782	428
70°	330	296	238
75°	173	186	154
80°	105	134	105
85°	57	76	76



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	302.2	4.6	2.7	0°	3142	3142	3142	3142	3142	
10°-20°	919.4	14.0	8.2	5°	3116	3120	3149	3180	3196	295
20°-30°	1356.7	20.7	12.1	15°	2945	3026	3257	3479	3566	830
30°-40°	1301.6	19.9	11.6	25°	2674	2896	3223	3067	2930	1231
40°-50°	1283.6	19.6	11.5	35°	2296	2621	2173	1542	1477	1434
50°-60°	1095.7	16.7	9.8	45°	1811	1932	1249	1558	1903	1392
60°-70°	251.7	3.8	2.2	55°	1167	976	1246	1595	1689	1025
70°-80°	32.9	0.5	0.3	65°	288	293	199	123	109	320
80°-90°	5.3	0.1	0.0	75°	27	29	29	27	24	33
90°-100°	0.0	0.0	0.0	85°	3	4	4	4	4	4
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
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°	2578.3	39.4	23.0	165°	0	0	0	0	0	0
0°-40°	3879.9	59.2	34.6	175°	0	0	0	0	0	0
0°-60°	6259.1	95.6	55.9	180°	0	0	0	0	0	0
0°-90°	6549.1	100.0	58.5							
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°	6549.1	100.0	58.5							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3142	3142	3142	3142	3142
2.5°	3136	3133	3141	3150	3156
5°	3116	3120	3149	3180	3196
7.5°	3085	3101	3168	3233	3263
10°	3045	3079	3191	3305	3358
12.5°	2998	3054	3222	3395	3472
15°	2945	3026	3257	3479	3566
17.5°	2885	2999	3293	3522	3602
20°	2822	2968	3310	3500	3543
22.5°	2752	2935	3291	3363	3308
25°	2674	2896	3223	3067	2930
27.5°	2591	2851	3086	2668	2431
30°	2499	2793	2848	2196	1970
32.5°	2401	2719	2537	1803	1661
35°	2296	2621	2173	1542	1477
37.5°	2186	2497	1811	1396	1451
40°	2070	2342	1530	1384	1496
42.5°	1945	2152	1345	1433	1649
45°	1811	1932	1249	1558	1903
47.5°	1669	1680	1238	1724	2102
50°	1518	1427	1252	1831	2182
52.5°	1353	1186	1272	1816	2089
55°	1167	976	1246	1595	1689
57.5°	958	802	1102	1117	990
60°	724	637	813	548	374
62.5°	488	462	461	222	175
65°	288	293	199	123	109
67.5°	136	151	92	80	72
70°	68	74	61	55	49
72.5°	42	45	42	38	34
75°	27	29	29	27	24
77.5°	17	20	21	19	17
80°	11	13	14	13	11
82.5°	6	7	9	8	7
85°	3	4	4	4	4
87.5°	1	1	2	2	2
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)