

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: 185P104

Luminaire Tested: **2EP3MX-432S36I**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 185P104
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3MX-432S36I
Description: 2 X 4 Surface Mount Luminaire with a 3" deep 18 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

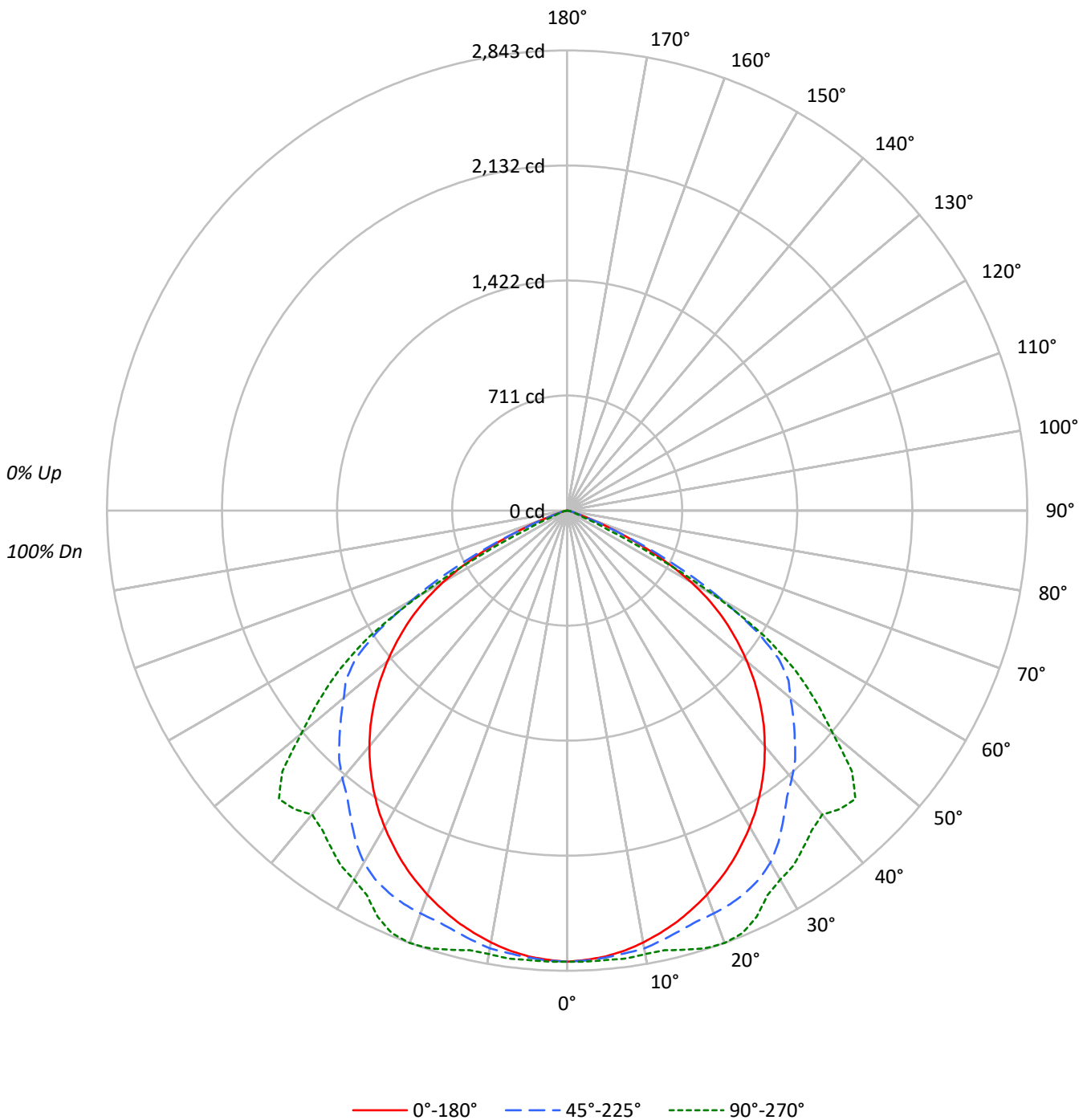
Summary

Lumens per Lamp: 2800 (4 lamps)
Luminaire Lumens: 7119.2 lumens
Efficiency: 63.6%
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.4 / 1.43
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	76	76	76	76	74	74	74	74	71	71	71		68	68	68		65	65	65	64
1	70	68	66	64	69	67	65	63	64	62	61		62	60	59		59	58	57	56
2	65	60	57	54	63	59	56	53	57	54	52		55	53	51		53	51	50	48
3	60	54	49	46	58	53	49	45	51	47	44		49	46	44		48	45	43	42
4	55	48	43	39	54	47	42	39	46	42	38		44	41	38		43	40	37	36
5	51	43	38	34	49	42	37	34	41	37	33		40	36	33		39	35	33	31
6	47	39	33	30	46	38	33	30	37	33	29		36	32	29		35	32	29	28
7	43	35	30	26	42	35	30	26	34	29	26		33	29	26		32	28	26	24
8	40	32	27	23	39	32	27	23	31	26	23		30	26	23		29	26	23	22
9	38	29	24	21	37	29	24	21	28	24	21		28	24	21		27	23	21	20
10	35	27	22	19	34	27	22	19	26	22	19		26	22	19		25	21	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4626	4626	4626
5°	4606	4617	4644
10°	4566	4630	4689
15°	4518	4619	4827
20°	4462	4679	5022
25°	4399	4773	5072
30°	4326	4815	5047
35°	4235	4720	5153
40°	4117	4681	5313
45°	3958	4669	5913
50°	3747	4651	5534
55°	3453	4619	4981
60°	2935	3685	3546
65°	1956	2168	1100
70°	747	636	325
75°	250	257	192
80°	134	163	124
85°	76	95	57



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	263.9	3.7	2.4	0°	2787	2787	2787	2787	2787	
10°-20°	765.6	10.8	6.8	5°	2764	2765	2771	2781	2787	262
20°-30°	1190.9	16.7	10.6	15°	2629	2643	2688	2765	2809	741
30°-40°	1452.6	20.4	13.0	25°	2402	2441	2606	2731	2769	1106
40°-50°	1569.3	22.0	14.0	35°	2090	2184	2329	2460	2543	1306
50°-60°	1314.8	18.5	11.7	45°	1686	1838	1989	2285	2519	1299
60°-70°	503.8	7.1	4.5	55°	1193	1323	1596	1617	1721	1057
70°-80°	52.0	0.7	0.5	65°	498	576	552	381	280	495
80°-90°	6.4	0.1	0.1	75°	39	45	40	36	30	57
90°-100°	0.0	0.0	0.0	85°	4	5	5	5	3	5
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°	2220.3	31.2	19.8	165°	0	0	0	0	0	0
0°-40°	3672.9	51.6	32.8	175°	0	0	0	0	0	0
0°-60°	6557.0	92.1	58.5	180°	0	0	0	0	0	0
0°-90°	7119.2	100.0	63.6							
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°	7119.2	100.0	63.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2787	2787	2787	2787	2787
2.5°	2778	2779	2782	2785	2789
5°	2764	2765	2771	2781	2787
7.5°	2741	2742	2758	2781	2791
10°	2709	2714	2747	2770	2782
12.5°	2671	2681	2718	2757	2782
15°	2629	2643	2688	2765	2809
17.5°	2579	2602	2661	2779	2835
20°	2526	2555	2649	2784	2843
22.5°	2466	2501	2632	2773	2827
25°	2402	2441	2606	2731	2769
27.5°	2330	2377	2568	2653	2679
30°	2257	2312	2512	2558	2633
32.5°	2177	2249	2430	2507	2602
35°	2090	2184	2329	2460	2543
37.5°	1999	2110	2231	2383	2486
40°	1900	2030	2160	2319	2452
42.5°	1798	1939	2085	2270	2499
45°	1686	1838	1989	2285	2519
47.5°	1572	1724	1895	2251	2386
50°	1451	1598	1801	2092	2143
52.5°	1323	1461	1723	1839	1937
55°	1193	1323	1596	1617	1721
57.5°	1050	1180	1388	1374	1451
60°	884	1011	1110	1068	1068
62.5°	694	802	835	698	638
65°	498	576	552	381	280
67.5°	304	349	284	150	107
70°	154	174	131	81	67
72.5°	70	82	63	53	44
75°	39	45	40	36	30
77.5°	24	28	27	24	20
80°	14	17	17	16	13
82.5°	8	10	11	9	7
85°	4	5	5	5	3
87.5°	2	2	2	1	1
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)