

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: 218P111

Luminaire Tested: **EP3MX-132S18I**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 218P111  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: EP3MX-132S18I  
Description: 1 X 4 Surface Mount Fixture with a 3" deep 8 cell  
semi-specular low iridescent parabolic louver.  
Light Source: One - FO32T8/735 - 2850 Lumens - 32 Watts  
Ballast/Driver: Advance R1P32-TP Electronic - L.O.B.F. = 95.4

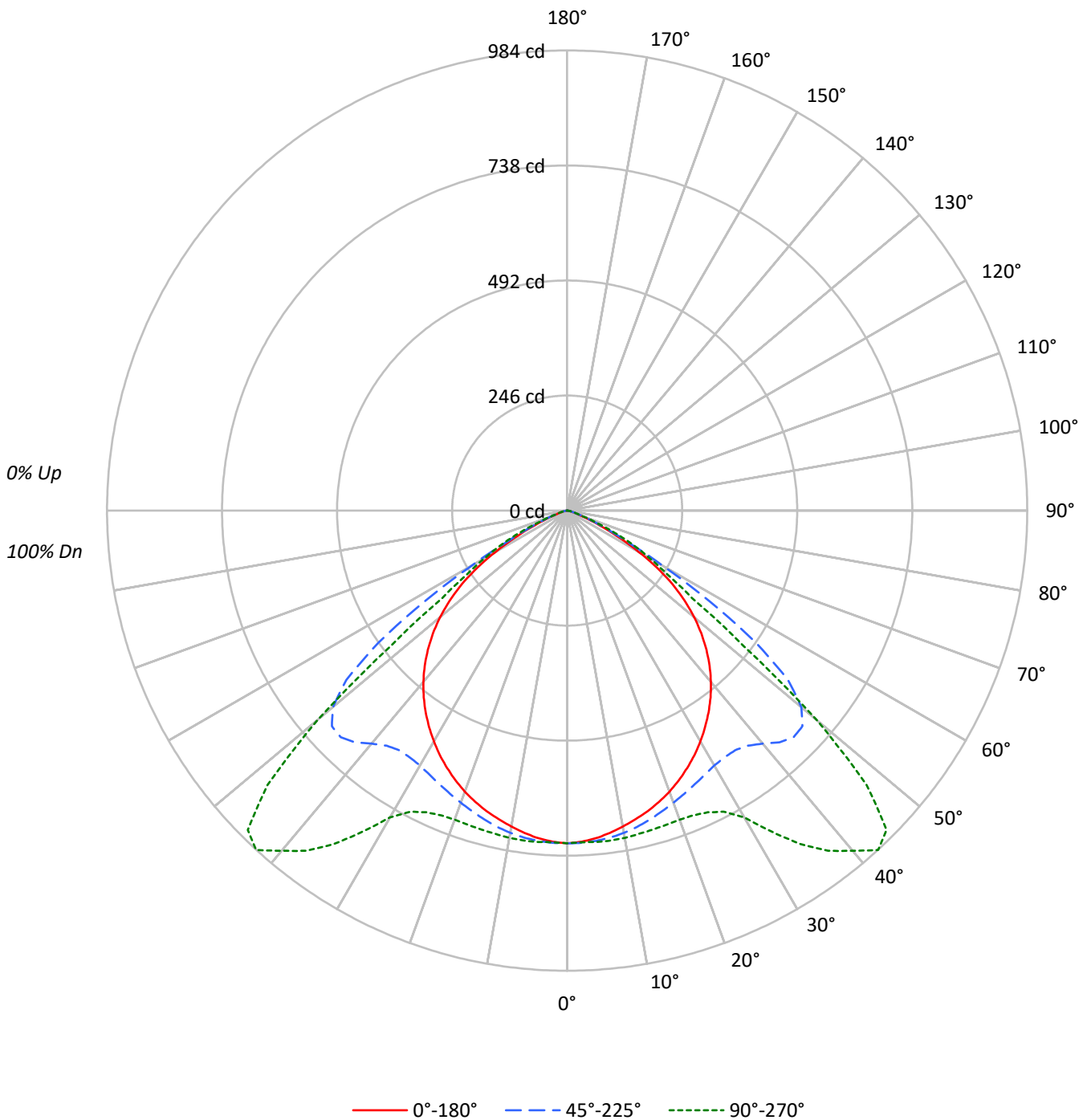
**Summary**

Lumens per Lamp: 2850 (1 lamp)  
Luminaire Lumens: 1971.7 lumens  
Efficiency: 69.2%  
Efficacy: 53.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.95 / 1.68  
Luminous Opening: Rectangular (W 0.73' x L: 3.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 36.8  
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	82	82	82	82	80	80	80	80	77	77	77		74	74	74		71	71	71	69
1	77	74	72	69	75	73	70	68	70	68	66		67	66	64		65	63	62	61
2	71	66	62	58	69	65	61	58	62	59	56		60	57	55		58	56	54	53
3	65	59	54	50	63	57	53	49	55	52	48		54	50	47		52	49	47	45
4	60	52	47	42	58	51	46	42	50	45	42		48	44	41		47	43	41	39
5	55	47	41	37	54	46	41	36	45	40	36		43	39	36		42	38	35	34
6	51	42	36	32	49	41	36	32	40	35	32		39	35	31		38	34	31	30
7	47	38	32	28	46	37	32	28	36	31	28		35	31	28		35	31	27	26
8	44	35	29	25	43	34	29	25	33	28	25		32	28	25		32	28	24	23
9	41	32	26	22	40	31	26	22	30	26	22		30	25	22		29	25	22	21
10	38	29	24	20	37	29	24	20	28	23	20		27	23	20		27	23	20	19

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

	0°	45°	90°
0°	2801	2801	2801
5°	2779	2802	2810
10°	2743	2797	2840
15°	2711	2787	2878
20°	2679	2784	2946
25°	2638	2805	3092
30°	2590	2861	3442
35°	2533	3007	4184
40°	2458	3342	4880
45°	2345	3814	5377
50°	2172	4004	4262
55°	1889	3382	2241
60°	1397	1867	1605
65°	777	883	1048
70°	330	396	424
75°	187	201	214
80°	118	131	147
85°	72	81	95



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	67.4	3.4	2.4	0°	712	712	712	712	712	
10°-20°	193.7	9.8	6.8	5°	703	705	709	713	711	67
20°-30°	302.3	15.3	10.6	15°	665	671	684	700	706	188
30°-40°	417.1	21.2	14.6	25°	607	618	646	686	712	280
40°-50°	512.6	26.0	18.0	35°	527	549	626	779	871	329
50°-60°	349.6	17.7	12.3	45°	421	477	685	875	966	324
60°-70°	109.9	5.6	3.9	55°	275	386	493	362	326	242
70°-80°	16.6	0.8	0.6	65°	83	110	95	106	112	89
80°-90°	2.5	0.1	0.1	75°	12	13	13	14	14	15
90°-100°	0.0	0.0	0.0	85°	2	2	2	2	2	2
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°	563.3	28.6	19.8	165°	0	0	0	0	0	0
0°-40°	980.5	49.7	34.4	175°	0	0	0	0	0	0
0°-60°	1842.7	93.5	64.7	180°	0	0	0	0	0	0
0°-90°	1971.7	100.0	69.2							
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°	1971.7	100.0	69.2							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	711.5	711.5	711.5	711.5	711.5
2.5°	708.7	709.2	711.1	713.1	709.7
5°	703.4	704.9	709.1	713.3	711.2
7.5°	695.5	698.6	705.4	712.1	711.7
10°	686.2	690.9	699.8	709.6	710.5
12.5°	676.1	681.8	692.6	705.3	708.2
15°	665.3	671.4	683.8	700.2	706.2
17.5°	653.3	659.8	674.3	695.3	704.6
20°	639.6	646.9	664.6	690.7	703.3
22.5°	624.2	633.0	655.1	686.2	705.1
25°	607.3	617.8	645.9	686.4	711.9
27.5°	589.4	601.7	636.7	689.8	725.7
30°	569.9	584.9	629.5	702.8	757.3
32.5°	549.1	567.3	625.8	732.4	813.8
35°	527.2	549.3	625.7	779.3	870.7
37.5°	503.7	531.1	633.6	821.2	916.8
40°	478.3	513.0	650.3	852.1	949.6
42.5°	450.9	495.0	671.9	869.7	984.2
45°	421.2	477.0	685.2	874.6	965.9
47.5°	389.1	459.3	682.3	826.3	868.9
50°	354.6	440.9	653.9	708.7	695.9
52.5°	316.9	418.1	595.0	537.1	475.4
55°	275.3	385.7	492.8	362.4	326.5
57.5°	229.0	337.0	361.7	254.4	252.8
60°	177.5	266.6	237.1	195.0	203.9
62.5°	127.1	183.1	146.6	148.8	159.5
65°	83.4	109.9	94.8	106.4	112.5
67.5°	48.8	60.2	59.4	67.9	68.8
70°	28.7	32.6	34.4	38.5	36.8
72.5°	18.4	19.9	20.1	21.4	20.7
75°	12.3	13.0	13.2	14.3	14.1
77.5°	8.1	8.7	9.0	9.9	9.7
80°	5.2	5.5	5.8	6.7	6.5
82.5°	3.0	3.2	3.6	4.1	4.0
85°	1.6	1.6	1.8	2.1	2.1
87.5°	0.7	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)