

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: 132P113

Luminaire Tested: **2P5MX-340S39M/I**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 132P113
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P5MX-340S39M/I
Description: 2 X 4 Surface Modular Luminaire with
a 27 cell specular low iridescent
precision cell II parabolic louver.
Light Source: Three-F40T12/WW - 3150 Lumens ea. - 40 Watts ea.
Ballast/Driver: Universal 412-L-SLH-TC-P Electromagnetic

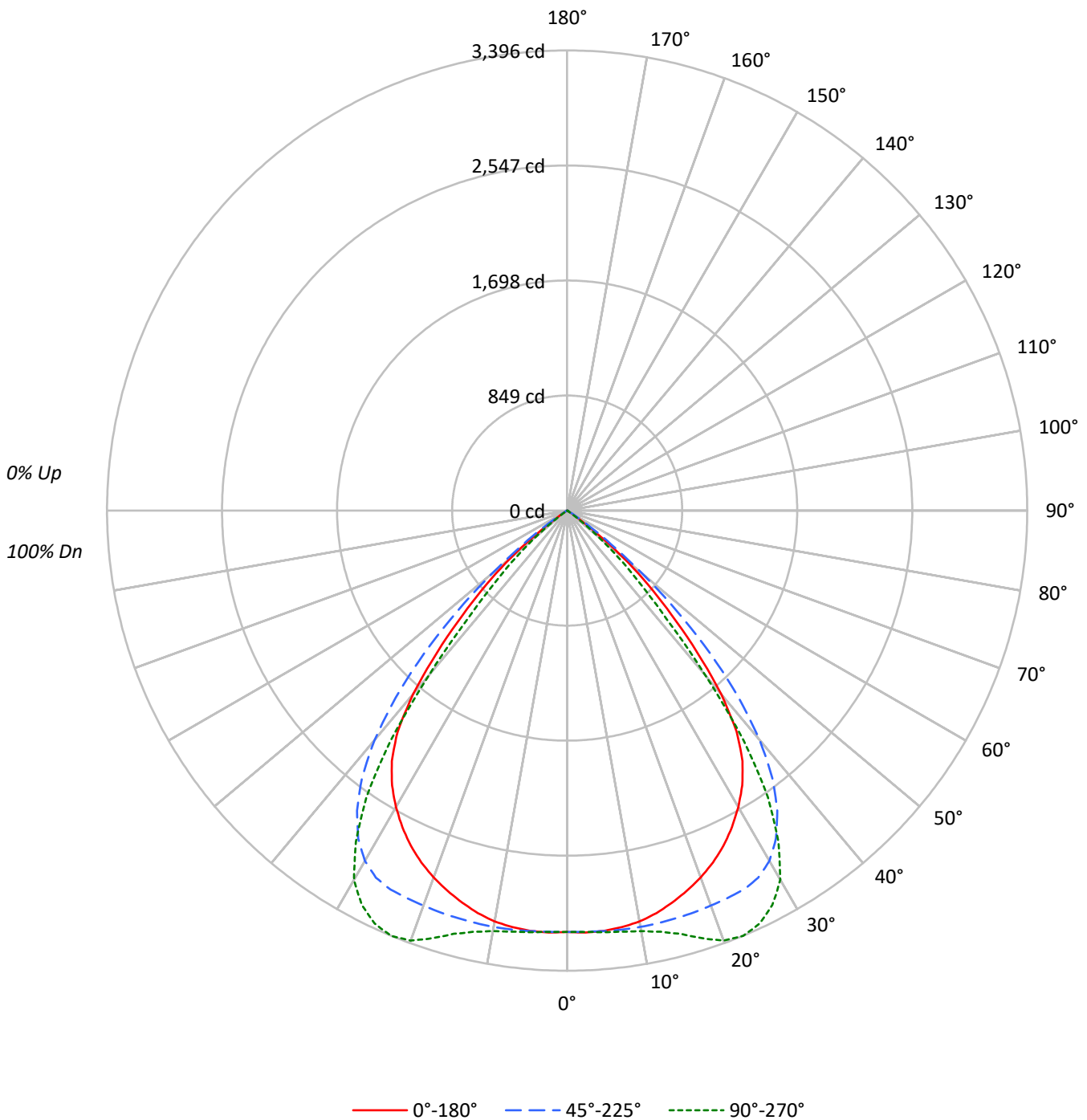
Summary

Lumens per Lamp: 3150 (3 lamps)
Luminaire Lumens: 5279.0 lumens
Efficiency: 55.9%
Efficacy: 39.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.34 / 1.27
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 134.1
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	67	67	67	67	65	65	65	65	62	62	62		59	59	59		57	57	57	56
1	63	61	60	58	62	60	59	57	58	57	56		56	55	54		54	53	52	51
2	59	56	54	51	58	55	53	51	53	51	50		52	50	49		50	49	48	47
3	56	51	48	46	54	51	48	45	49	47	45		48	46	44		46	45	43	42
4	52	47	44	41	51	47	43	41	45	42	40		44	42	40		43	41	39	38
5	49	43	40	37	48	43	39	37	42	39	36		41	38	36		40	37	36	35
6	46	40	36	33	45	39	36	33	39	35	33		38	35	33		37	34	32	31
7	43	37	33	30	42	36	33	30	36	32	30		35	32	30		34	32	30	29
8	40	34	30	28	40	34	30	28	33	30	27		33	29	27		32	29	27	26
9	38	32	28	25	37	31	28	25	31	27	25		30	27	25		30	27	25	24
10	36	29	26	23	35	29	26	23	29	25	23		28	25	23		28	25	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5124	5124	5124
5°	5149	5152	5166
10°	5152	5220	5272
15°	5109	5312	5517
20°	5052	5439	5922
25°	4962	5609	6114
30°	4806	5679	5986
35°	4538	5439	5198
40°	3803	4754	3418
45°	2533	3484	1764
50°	1392	1848	751
55°	227	552	69
60°	43	53	33
65°	35	27	23
70°	24	19	14
75°	19	13	13
80°	9	9	9
85°	0	0	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	297.4	5.6	3.1	0°	3110	3110	3110	3110	3110	
10°-20°	883.6	16.7	9.4	5°	3113	3109	3115	3121	3123	296
20°-30°	1409.2	26.7	14.9	15°	2995	3031	3114	3200	3234	845
30°-40°	1567.9	29.7	16.6	25°	2729	2835	3085	3321	3363	1254
40°-50°	941.3	17.8	10.0	35°	2256	2489	2704	2624	2584	1383
50°-60°	168.9	3.2	1.8	45°	1087	1521	1495	890	757	854
60°-70°	7.6	0.1	0.1	55°	79	187	192	72	24	141
70°-80°	2.7	0.1	0.0	65°	9	8	7	6	6	9
80°-90°	0.1	0.0	0.0	75°	3	3	2	2	2	3
90°-100°	0.0	0.0	0.0	85°	0	0	0	0	0	0
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°	2590.3	49.1	27.4	165°	0	0	0	0	0	0
0°-40°	4158.3	78.8	44.0	175°	0	0	0	0	0	0
0°-60°	5268.5	99.8	55.8	180°	0	0	0	0	0	0
0°-90°	5279.0	100.0	55.9							
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°	5279.0	100.0	55.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3110	3110	3110	3110	3110
2.5°	3117	3110	3111	3112	3112
5°	3113	3109	3115	3121	3123
7.5°	3101	3103	3119	3131	3134
10°	3079	3090	3120	3142	3151
12.5°	3043	3065	3118	3165	3184
15°	2995	3031	3114	3200	3234
17.5°	2941	2991	3110	3249	3309
20°	2881	2945	3102	3309	3377
22.5°	2811	2893	3094	3343	3396
25°	2729	2835	3085	3321	3363
27.5°	2634	2768	3055	3251	3281
30°	2526	2691	2985	3120	3146
32.5°	2405	2601	2869	2923	2901
35°	2256	2489	2704	2624	2584
37.5°	2055	2350	2487	2263	2142
40°	1768	2153	2210	1816	1589
42.5°	1421	1870	1873	1307	1089
45°	1087	1521	1495	890	757
47.5°	812	1161	1100	602	511
50°	543	806	721	384	293
52.5°	273	464	407	196	127
55°	79	187	192	72	24
57.5°	20	42	65	16	12
60°	13	15	16	11	10
62.5°	11	10	9	8	8
65°	9	8	7	6	6
67.5°	7	6	6	5	5
70°	5	5	4	4	3
72.5°	4	4	3	3	3
75°	3	3	2	2	2
77.5°	2	2	2	2	2
80°	1	1	1	1	1
82.5°	0	0	0	0	0
85°	0	0	0	0	0
87.5°	0	0	0	0	0
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)