

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: 132P112

Luminaire Tested: **2P5MX-332S39M/I**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 132P112
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P5MX-332S39M/I
Description: 2 X 4 Surface Modular Luminaire with
a 27 cell specular low iridescent
precision cell II parabolic louver.
Light Source: Three-F32T8/35K - 2900 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B332I120 Electronic

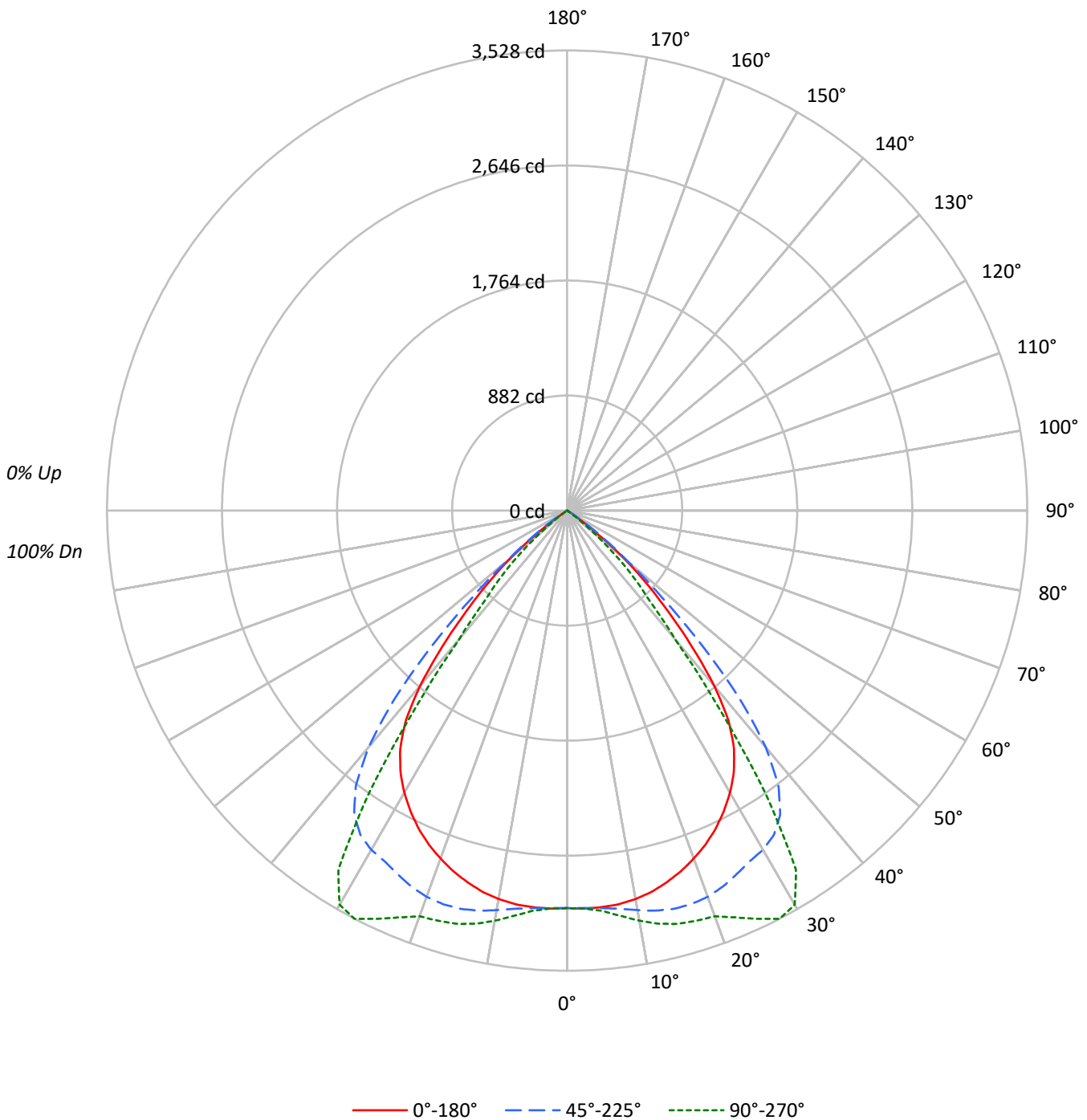
Summary

Lumens per Lamp: 2900 (3 lamps)
Luminaire Lumens: 5297.5 lumens
Efficiency: 60.9%
Efficacy: 59.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.38 / 1.29
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 89.2
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	72	72	72	72	71	71	71	71	68	68	68	65	65	65	62	62	62	61				61
1	69	67	65	64	67	65	64	62	63	62	61	61	60	59	59	58	57				56	
2	65	61	58	56	63	60	58	55	58	56	54	56	55	53	55	53	52				51	
3	61	56	53	50	59	55	52	49	54	51	49	52	50	48	51	49	47				46	
4	57	51	48	45	56	51	47	44	49	46	44	48	45	43	47	45	43				42	
5	53	47	43	40	52	47	43	40	46	42	40	44	42	39	43	41	39				38	
6	50	44	39	36	49	43	39	36	42	39	36	41	38	36	40	38	35				34	
7	47	40	36	33	46	40	36	33	39	35	33	38	35	33	37	35	32				31	
8	44	37	33	30	43	37	33	30	36	33	30	35	32	30	35	32	30				29	
9	41	35	30	28	41	34	30	28	34	30	27	33	30	27	33	29	27				26	
10	39	32	28	25	38	32	28	25	31	28	25	31	28	25	30	27	25				24	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5022	5022	5022
5°	5048	5060	5094
10°	5060	5205	5342
15°	5032	5392	5595
20°	4978	5525	5802
25°	4894	5592	6280
30°	4751	5714	6640
35°	4488	5727	5351
40°	3775	5091	2781
45°	2552	3404	1659
50°	1456	1582	713
55°	273	520	69
60°	46	56	33
65°	35	31	27
70°	24	24	19
75°	19	19	19
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°	293.8	5.5	3.4	0°	3048	3048	3048	3048	3048	
10°-20°	886.1	16.7	10.2	5°	3052	3049	3059	3073	3080	290
20°-30°	1426.1	26.9	16.4	15°	2950	3009	3161	3254	3280	832
30°-40°	1613.4	30.5	18.5	25°	2692	2871	3076	3348	3454	1237
40°-50°	905.7	17.1	10.4	35°	2231	2496	2847	2902	2660	1368
50°-60°	160.7	3.0	1.8	45°	1095	1515	1461	775	712	858
60°-70°	8.3	0.2	0.1	55°	95	174	181	68	24	155
70°-80°	3.0	0.1	0.0	65°	9	9	8	7	7	9
80°-90°	0.3	0.0	0.0	75°	3	3	3	2	3	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°	2606.0	49.2	30.0	165°	0	0	0	0	0	0
0°-40°	4219.5	79.7	48.5	175°	0	0	0	0	0	0
0°-60°	5285.9	99.8	60.8	180°	0	0	0	0	0	0
0°-90°	5297.5	100.0	60.9							
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°	5297.5	100.0	60.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3048	3048	3048	3048	3048
2.5°	3054	3049	3050	3053	3055
5°	3052	3049	3059	3073	3080
7.5°	3044	3048	3079	3118	3134
10°	3024	3042	3111	3171	3193
12.5°	2994	3028	3141	3219	3244
15°	2950	3009	3161	3254	3280
17.5°	2900	2987	3164	3270	3297
20°	2839	2959	3151	3274	3309
22.5°	2771	2920	3120	3289	3376
25°	2692	2871	3076	3348	3454
27.5°	2600	2808	3031	3380	3528
30°	2497	2728	3003	3375	3490
32.5°	2378	2624	2949	3234	3264
35°	2231	2496	2847	2902	2660
37.5°	2034	2342	2660	2280	1919
40°	1755	2142	2367	1611	1293
42.5°	1417	1863	1960	1089	925
45°	1095	1515	1461	775	712
47.5°	822	1145	990	568	481
50°	568	791	617	361	278
52.5°	303	447	359	185	121
55°	95	174	181	68	24
57.5°	22	42	63	16	13
60°	14	16	17	11	10
62.5°	11	11	10	9	8
65°	9	9	8	7	7
67.5°	7	7	6	6	5
70°	5	6	5	5	4
72.5°	4	4	4	3	3
75°	3	3	3	2	3
77.5°	2	2	2	2	2
80°	1	1	1	1	1
82.5°	0	1	1	0	1
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)