

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: 128P104

Luminaire Tested: **2P5MX-3U1-5/8S34M/I**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 128P104
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P5MX-3U1-5/8S34M/I
Description: 2 X 2 Surface Modular Luminaire with
a 12 cell specular low iridescent
precision cell II parabolic louver.
Light Source: Three-FBO31/35K - 2800 Lumens ea. - 31 Watts ea.
Ballast/Driver: Triad-Utrad B3321120RH Electronic

Summary

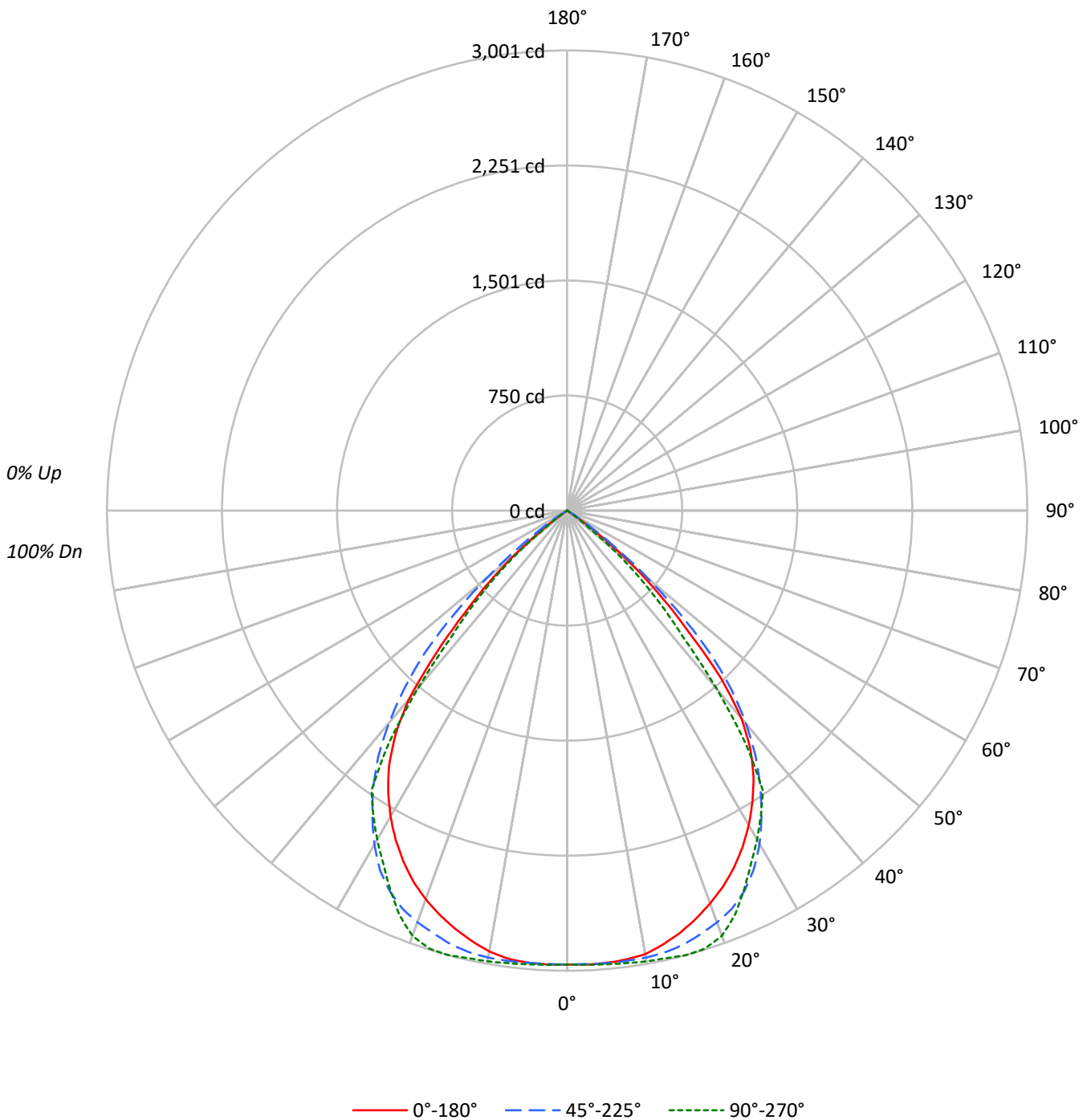
Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 4728.7 lumens
Efficiency: 56.3%
Efficacy: 57.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.22
Luminous Opening: Rectangular (W 1.74' x L: 1.76' x H: 0')
CIE Type: Direct

Input Watts (W): 82.9
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	63	63	63		60	60	60		57	57	57	56
1	63	62	60	59	62	60	59	58	58	57	56		56	55	54		54	53	53	52
2	60	57	54	52	58	56	53	51	54	52	50		52	50	49		50	49	48	47
3	56	52	49	46	55	51	48	46	49	47	45		48	46	44		47	45	43	43
4	52	48	44	41	51	47	44	41	46	43	40		44	42	40		43	41	39	39
5	49	44	40	37	48	43	40	37	42	39	37		41	38	36		40	38	36	35
6	46	40	36	34	45	40	36	33	39	36	33		38	35	33		37	35	33	32
7	43	37	33	31	42	37	33	30	36	33	30		35	32	30		35	32	30	29
8	41	34	31	28	40	34	30	28	33	30	28		33	30	28		32	30	27	27
9	38	32	28	26	38	32	28	26	31	28	25		31	28	25		30	27	25	24
10	36	30	26	24	35	30	26	24	29	26	23		29	26	23		28	25	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	10435	10435	10435
5°	10478	10510	10471
10°	10513	10685	10453
15°	10401	10953	10303
20°	10227	11071	10118
25°	10000	10611	9825
30°	9639	10083	9375
35°	9119	9567	8710
40°	8141	6958	7386
45°	5619	4268	4721
50°	3143	1958	2347
55°	688	148	227
60°	78	78	71
65°	58	58	50
70°	41	52	41
75°	27	41	27
80°	20	20	0
85°	0	0	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	282.7	6.0	3.4	0°	2960	2960	2960	2960	2960	
10°-20°	825.2	17.4	9.8	5°	2961	2963	2970	2961	2959	282
20°-30°	1233.5	26.1	14.7	15°	2850	2930	3001	2929	2823	803
30°-40°	1341.3	28.4	16.0	25°	2571	2736	2728	2738	2526	1181
40°-50°	866.8	18.3	10.3	35°	2119	2197	2223	2203	2024	1312
50°-60°	169.4	3.6	2.0	45°	1127	1326	856	1311	947	882
60°-70°	7.1	0.2	0.1	55°	112	201	24	200	37	160
70°-80°	2.5	0.1	0.0	65°	7	7	7	6	6	7
80°-90°	0.2	0.0	0.0	75°	2	2	3	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°	2341.4	49.5	27.9	165°	0	0	0	0	0	0
0°-40°	3682.7	77.9	43.8	175°	0	0	0	0	0	0
0°-60°	4718.9	99.8	56.2	180°	0	0	0	0	0	0
0°-90°	4728.7	100.0	56.3							
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°	4728.7	100.0	56.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2960	2960	2960	2960	2960	2960	2960	2960	2960
2.5°	2963	2961	2960	2962	2965	2963	2959	2960	2963
5°	2961	2960	2963	2966	2970	2967	2961	2960	2959
7.5°	2953	2954	2962	2972	2977	2973	2962	2954	2948
10°	2937	2940	2961	2977	2985	2978	2960	2939	2920
12.5°	2897	2908	2951	2978	2989	2981	2951	2907	2875
15°	2850	2865	2930	2981	3001	2984	2929	2861	2823
17.5°	2791	2814	2896	2982	2994	2984	2892	2812	2764
20°	2726	2755	2858	2954	2951	2958	2856	2753	2697
22.5°	2655	2689	2810	2888	2857	2896	2810	2685	2619
25°	2571	2616	2736	2764	2728	2774	2738	2614	2526
27.5°	2476	2532	2637	2619	2597	2629	2643	2527	2421
30°	2368	2440	2510	2473	2477	2484	2514	2428	2303
32.5°	2249	2335	2360	2334	2352	2340	2366	2313	2172
35°	2119	2211	2197	2188	2223	2188	2203	2179	2024
37.5°	1964	2067	2018	1996	1910	1998	2023	2022	1838
40°	1769	1891	1816	1643	1512	1658	1807	1834	1605
42.5°	1489	1668	1589	1259	1120	1275	1569	1596	1268
45°	1127	1352	1326	902	856	915	1311	1292	947
47.5°	836	1025	1003	661	614	667	997	977	680
50°	573	725	688	434	357	437	686	691	428
52.5°	315	464	402	223	128	221	403	435	208
55°	112	231	201	67	24	71	200	199	37
57.5°	17	53	69	16	14	17	70	44	14
60°	11	13	15	11	11	12	16	12	10
62.5°	9	9	9	9	9	9	8	8	7
65°	7	7	7	7	7	7	6	6	6
67.5°	5	5	5	5	6	6	5	5	4
70°	4	4	4	4	5	4	4	4	4
72.5°	3	3	3	3	3	3	3	3	2
75°	2	3	2	2	3	3	2	2	2
77.5°	2	2	2	2	2	2	1	2	1
80°	1	1	1	1	1	1	1	1	0
82.5°	1	0	0	1	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	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°	135°	157.5°	180°
112.5°	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)