

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: 185P105

Luminaire Tested: **2EP3MX-432S26I**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 185P105
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3MX-432S26I
Description: 2 X 4 Surface Mount Luminaire with a 3" deep 12 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

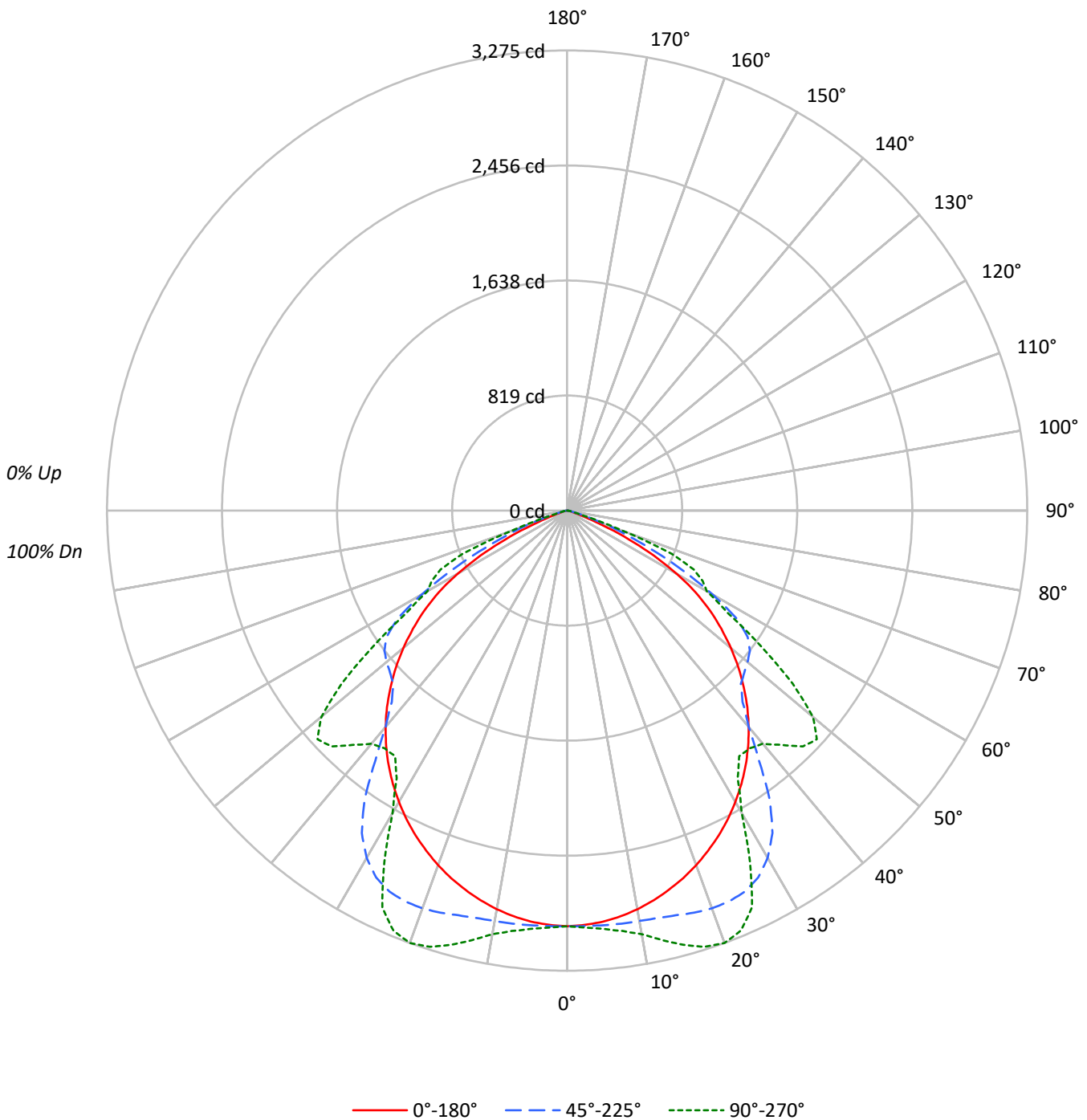
Summary

Lumens per Lamp: 2800 (4 lamps)
Luminaire Lumens: 7576.6 lumens
Efficiency: 67.6%
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.3
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 114.1
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

TEST NUMBER: 185P105
CATALOG NUMBER: 2EP3MX-432S26I

Luminous Intensity Polar Plot





TEST NUMBER: 185P105

CATALOG NUMBER: 2EP3MX-432S26I

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	81	81	81	81	79	79	79	79	75	75	75		72	72	72		69	69	69	68
1	75	72	70	68	73	71	69	67	68	66	64		65	64	63		63	62	61	59
2	69	64	60	57	67	63	59	56	60	57	55		58	56	54		56	54	52	51
3	63	57	52	48	62	56	51	48	54	50	47		52	49	46		50	48	45	44
4	58	51	45	41	57	50	45	41	48	44	40		47	43	40		45	42	39	38
5	54	46	40	36	52	45	39	36	43	39	35		42	38	35		41	37	34	33
6	50	41	35	31	48	40	35	31	39	35	31		38	34	31		37	33	30	29
7	46	37	32	28	45	37	31	28	36	31	27		35	31	27		34	30	27	26
8	43	34	29	25	42	34	28	25	33	28	25		32	28	24		31	27	24	23
9	40	31	26	22	39	31	26	22	30	25	22		29	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°	4912	4912	4912
5°	4894	4936	4981
10°	4856	4999	5159
15°	4803	5125	5499
20°	4743	5321	5785
25°	4674	5482	5705
30°	4589	5468	4761
35°	4489	5094	4326
40°	4355	4355	4694
45°	4174	4103	5571
50°	3928	4328	5898
55°	3594	4538	4882
60°	2995	3971	3808
65°	1901	2710	3900
70°	636	1490	2077
75°	257	410	340
80°	153	239	220
85°	95	152	152



TEST NUMBER: 185P105

CATALOG NUMBER: 2EP3MX-432S26I

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	282.9	3.7	2.5	0°	2959	2959	2959	2959	2959	
10°-20°	847.2	11.2	7.6	5°	2937	2943	2962	2980	2989	279
20°-30°	1323.1	17.5	11.8	15°	2795	2848	2982	3138	3200	788
30°-40°	1461.4	19.3	13.0	25°	2552	2689	2993	3110	3115	1175
40°-50°	1534.3	20.3	13.7	35°	2215	2466	2514	2129	2135	1384
50°-60°	1330.7	17.6	11.9	45°	1778	2030	1748	2098	2373	1368
60°-70°	685.9	9.1	6.1	55°	1242	1313	1568	1698	1687	1099
70°-80°	101.4	1.3	0.9	65°	484	571	690	818	993	484
80°-90°	9.7	0.1	0.1	75°	40	51	64	71	53	53
90°-100°	0.0	0.0	0.0	85°	5	6	8	9	8	6
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°	2453.3	32.4	21.9	165°	0	0	0	0	0	0
0°-40°	3914.6	51.7	35.0	175°	0	0	0	0	0	0
0°-60°	6779.6	89.5	60.5	180°	0	0	0	0	0	0
0°-90°	7576.6	100.0	67.6							
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°	7576.6	100.0	67.6							



TEST NUMBER: 185P105

CATALOG NUMBER: 2EP3MX-432S26I

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2959	2959	2959	2959	2959
2.5°	2951	2952	2960	2965	2970
5°	2937	2943	2962	2980	2989
7.5°	2913	2927	2965	3000	3018
10°	2881	2906	2966	3030	3061
12.5°	2841	2879	2970	3080	3131
15°	2795	2848	2982	3138	3200
17.5°	2743	2812	3001	3182	3255
20°	2685	2772	3012	3207	3275
22.5°	2620	2731	3011	3188	3234
25°	2552	2689	2993	3110	3115
27.5°	2476	2644	2944	2942	2818
30°	2394	2595	2853	2627	2484
32.5°	2308	2538	2720	2328	2258
35°	2215	2466	2514	2129	2135
37.5°	2115	2383	2243	2026	2133
40°	2010	2286	2010	2019	2166
42.5°	1898	2169	1848	2040	2262
45°	1778	2030	1748	2098	2373
47.5°	1653	1872	1709	2145	2410
50°	1521	1699	1676	2124	2284
52.5°	1383	1507	1639	1962	2022
55°	1242	1313	1568	1698	1687
57.5°	1086	1137	1431	1370	1355
60°	902	970	1196	1089	1147
62.5°	695	782	940	920	1087
65°	484	571	690	818	993
67.5°	276	361	473	664	805
70°	131	183	307	439	428
72.5°	65	88	158	175	148
75°	40	51	64	71	53
77.5°	25	32	38	39	35
80°	16	20	25	26	23
82.5°	9	12	15	17	15
85°	5	6	8	9	8
87.5°	2	2	3	4	3
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



TEST NUMBER: 185P105

CATALOG NUMBER: 2EP3MX-432S26I

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)