

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: 185P107

Luminaire Tested: **2EP3MX-332S36I**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 185P107
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3MX-332S36I
Description: 2 X 4 Surface Mount Luminaire with a 3" deep 18 cell
semi-specular low iridescent parabolic louver
Light Source: Three - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B332I120RH Electronic - L.O.B.F. = 88.9

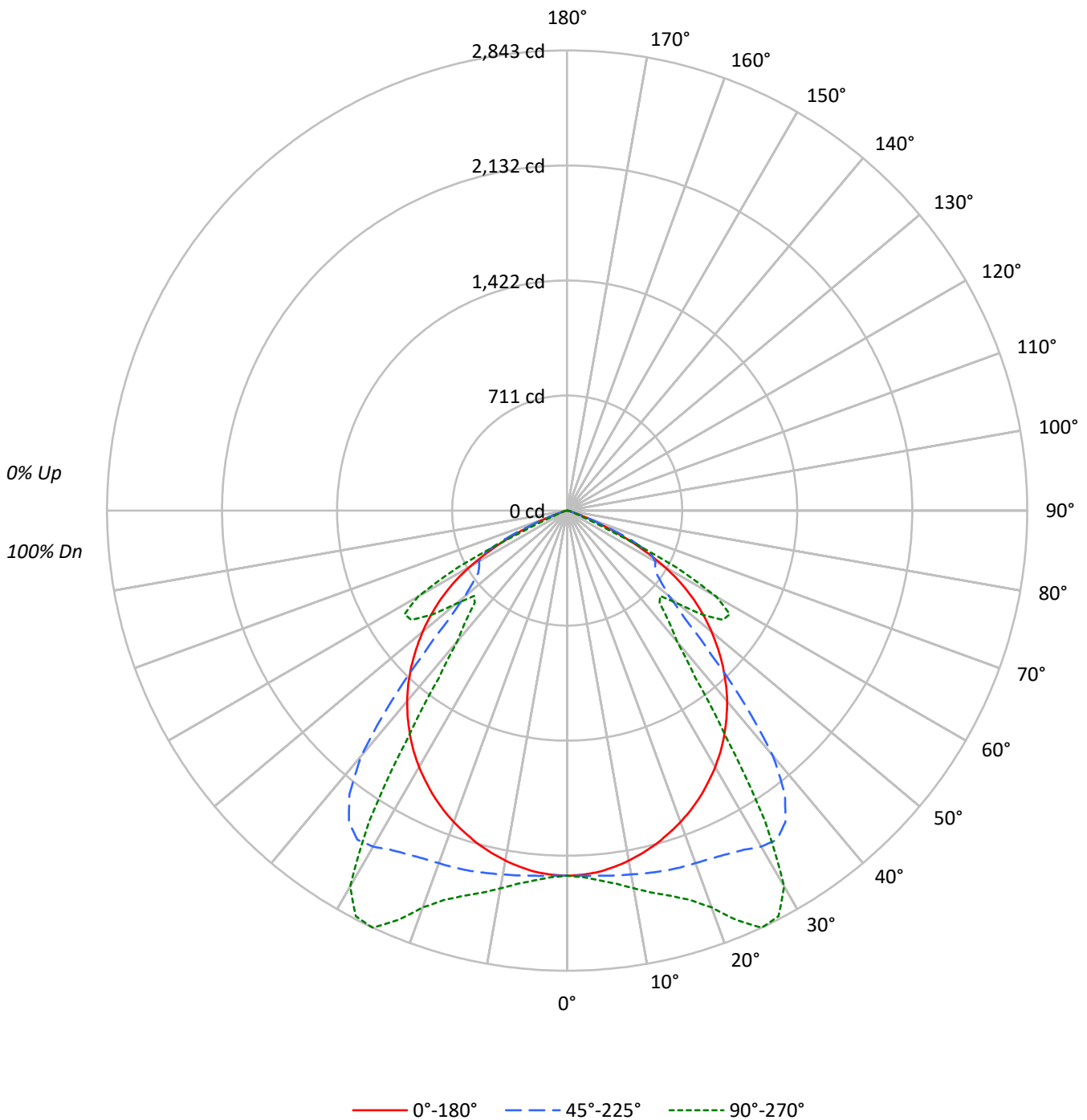
Summary

Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 5425.6 lumens
Efficiency: 64.6%
Efficacy: 62.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.34 / 1.33
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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	77	77	77	77	75	75	75	75	72	72	72		69	69	69		66	66	66	65
1	72	69	67	65	70	68	66	64	65	64	62		63	61	60		61	59	59	57
2	66	62	58	55	65	61	57	55	59	56	53		57	54	52		55	53	51	50
3	61	55	51	47	60	54	50	47	53	49	46		51	48	45		49	47	45	43
4	57	50	45	41	55	49	44	41	47	43	40		46	43	40		45	42	39	38
5	52	45	40	36	51	44	39	36	43	39	35		42	38	35		41	37	35	33
6	49	41	36	32	47	40	35	32	39	35	31		38	34	31		37	34	31	30
7	45	37	32	28	44	37	32	28	36	31	28		35	31	28		34	30	28	27
8	42	34	29	25	41	34	29	25	33	28	25		32	28	25		31	28	25	24
9	39	31	26	23	39	31	26	23	30	26	23		30	26	23		29	25	23	22
10	37	29	24	21	36	29	24	21	28	24	21		27	24	21		27	23	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3745	3745	3745
5°	3734	3774	3821
10°	3701	3848	3995
15°	3662	3961	4233
20°	3618	4095	4609
25°	3568	4288	5207
30°	3506	4594	5139
35°	3431	4762	3494
40°	3333	4286	2286
45°	3195	2960	1894
50°	3009	2123	2306
55°	2755	1939	3403
60°	2314	2088	3526
65°	1504	1748	1119
70°	558	645	272
75°	186	199	160
80°	105	134	105
85°	57	76	76



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	216.8	4.0	2.6	0°	2256	2256	2256	2256	2256	
10°-20°	652.7	12.0	7.8	5°	2241	2246	2265	2284	2293	212
20°-30°	1091.4	20.1	13.0	15°	2131	2185	2305	2415	2463	601
30°-40°	1237.7	22.8	14.7	25°	1948	2078	2341	2692	2843	897
40°-50°	957.0	17.6	11.4	35°	1693	1919	2350	2047	1724	1058
50°-60°	825.0	15.2	9.8	45°	1361	1663	1261	859	807	1047
60°-70°	398.6	7.3	4.7	55°	952	1082	670	939	1176	843
70°-80°	41.2	0.8	0.5	65°	383	333	445	423	285	383
80°-90°	5.2	0.1	0.1	75°	29	33	31	29	25	43
90°-100°	0.0	0.0	0.0	85°	3	4	4	4	4	4
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°	1960.9	36.1	23.3	165°	0	0	0	0	0	0
0°-40°	3198.5	59.0	38.1	175°	0	0	0	0	0	0
0°-60°	4980.5	91.8	59.3	180°	0	0	0	0	0	0
0°-90°	5425.6	100.0	64.6							
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°	5425.6	100.0	64.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2256	2256	2256	2256	2256
2.5°	2252	2252	2258	2264	2267
5°	2241	2246	2265	2284	2293
7.5°	2221	2236	2274	2312	2325
10°	2196	2222	2283	2342	2370
12.5°	2165	2205	2294	2380	2417
15°	2131	2185	2305	2415	2463
17.5°	2090	2161	2313	2452	2521
20°	2048	2135	2318	2506	2609
22.5°	2000	2108	2326	2589	2739
25°	1948	2078	2341	2692	2843
27.5°	1890	2046	2363	2739	2826
30°	1829	2006	2397	2668	2681
32.5°	1764	1965	2411	2471	2275
35°	1693	1919	2350	2047	1724
37.5°	1617	1869	2209	1551	1301
40°	1538	1811	1978	1184	1055
42.5°	1452	1742	1628	975	929
45°	1361	1663	1261	859	807
47.5°	1265	1567	984	764	780
50°	1165	1442	822	751	893
52.5°	1061	1276	736	825	1059
55°	952	1082	670	939	1176
57.5°	833	873	644	996	1191
60°	697	659	629	927	1062
62.5°	542	478	584	723	758
65°	383	333	445	423	285
67.5°	228	222	264	133	88
70°	115	129	133	65	56
72.5°	53	59	51	43	37
75°	29	33	31	29	25
77.5°	18	20	21	20	17
80°	11	13	14	13	11
82.5°	6	7	8	8	7
85°	3	4	4	4	4
87.5°	1	1	2	2	2
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)