

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: 132P117

Luminaire Tested: **2M-232A125T**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 132P117
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2M-232A125T
Description: 2 X 4 Surface Modular Luminaire with a
.125 pattern 12 tinted acrylic lens.
Light Source: Two - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 88.1

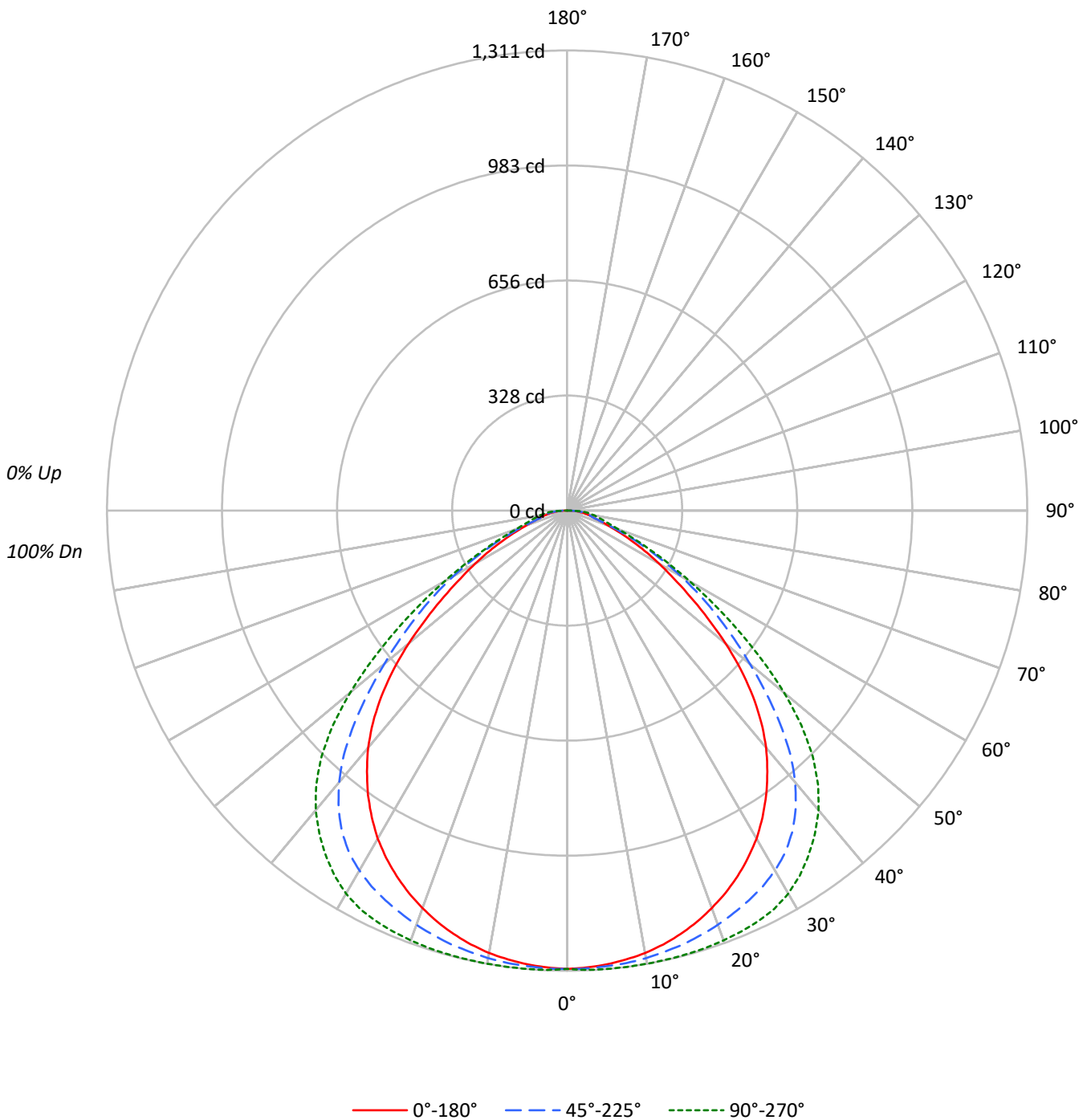
Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3236.7 lumens
Efficiency: 57.8%
Efficacy: 54.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.41 / 1.38
Luminous Opening: Rectangular (W 1.79' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 59.6
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	69	69	69	69	67	67	67	67	64	64	64	61	61	61	59	59	59	58
1	64	61	59	57	62	60	58	56	58	56	55	55	54	53	53	52	51	50
2	59	54	51	48	57	53	50	47	51	49	46	49	47	45	48	46	44	43
3	54	48	44	41	53	48	44	40	46	43	40	44	41	39	43	40	38	37
4	50	43	39	35	48	43	38	35	41	37	34	40	37	34	39	36	34	32
5	46	39	34	31	45	38	34	30	37	33	30	36	33	30	35	32	30	28
6	43	35	30	27	41	35	30	27	34	30	27	33	29	26	32	29	26	25
7	40	32	27	24	39	32	27	24	31	27	24	30	26	24	29	26	23	22
8	37	29	25	22	36	29	25	21	28	24	21	28	24	21	27	24	21	20
9	34	27	22	19	34	27	22	19	26	22	19	25	22	19	25	22	19	18
10	32	25	21	18	32	25	20	18	24	20	18	24	20	17	23	20	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2061	2061	2061
5°	2056	2064	2077
10°	2051	2075	2101
15°	2040	2089	2138
20°	2023	2109	2188
25°	2000	2133	2246
30°	1966	2157	2296
35°	1905	2154	2310
40°	1817	2083	2295
45°	1671	1915	2207
50°	1446	1669	1981
55°	1177	1433	1634
60°	953	1180	1272
65°	750	896	948
70°	572	614	706
75°	482	469	646
80°	491	545	709
85°	561	706	923



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	124.1	3.8	2.2	0°	1306	1306	1306	1306	1306	
10°-20°	361.3	11.2	6.5	5°	1298	1300	1303	1305	1311	123
20°-30°	563.4	17.4	10.1	15°	1249	1257	1279	1298	1309	352
30°-40°	688.6	21.3	12.3	25°	1149	1173	1225	1271	1290	529
40°-50°	659.3	20.4	11.8	35°	989	1035	1118	1173	1199	617
50°-60°	464.7	14.4	8.3	45°	749	779	858	943	989	573
60°-70°	238.0	7.4	4.3	55°	428	462	521	577	594	388
70°-80°	96.3	3.0	1.7	65°	201	215	240	258	254	203
80°-90°	40.9	1.3	0.7	75°	79	77	77	97	106	88
90°-100°	0.0	0.0	0.0	85°	31	33	39	50	51	30
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	2
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°	1048.9	32.4	18.7	165°	0	0	0	0	0	0
0°-40°	1737.5	53.7	31.0	175°	0	0	0	0	0	0
0°-60°	2861.4	88.4	51.1	180°	0	0	0	0	0	0
0°-90°	3236.7	100.0	57.8							
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°	3236.7	100.0	57.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1306	1306	1306	1306	1306
2.5°	1303	1304	1306	1305	1310
5°	1298	1300	1303	1305	1311
7.5°	1290	1293	1300	1305	1311
10°	1280	1284	1295	1303	1311
12.5°	1266	1271	1287	1301	1310
15°	1249	1257	1279	1298	1309
17.5°	1229	1240	1268	1293	1307
20°	1205	1220	1256	1287	1303
22.5°	1179	1198	1241	1280	1298
25°	1149	1173	1225	1271	1290
27.5°	1116	1145	1207	1257	1279
30°	1079	1113	1184	1237	1260
32.5°	1036	1077	1156	1209	1233
35°	989	1035	1118	1173	1199
37.5°	937	986	1070	1131	1160
40°	882	927	1011	1081	1114
42.5°	819	858	941	1020	1058
45°	749	779	858	943	989
47.5°	672	695	768	851	905
50°	589	611	680	757	807
52.5°	505	534	598	665	701
55°	428	462	521	577	594
57.5°	361	395	446	491	494
60°	302	331	374	407	403
62.5°	249	271	304	328	324
65°	201	215	240	258	254
67.5°	159	166	181	199	196
70°	124	126	133	152	153
72.5°	98	97	97	118	125
75°	79	77	77	97	106
77.5°	66	64	67	83	91
80°	54	54	60	74	78
82.5°	42	45	51	64	66
85°	31	33	39	50	51
87.5°	17	19	22	32	30
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)