

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: 132P119

Luminaire Tested: **2M-332A125T**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 132P119
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2M-332A125T
Description: 2 X 4 Surface Modular Luminaire with a
.125 pattern 12 tinted acrylic lens.
Light Source: Three - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B332I120RH Electronic - L.O.B.F. = 88.9

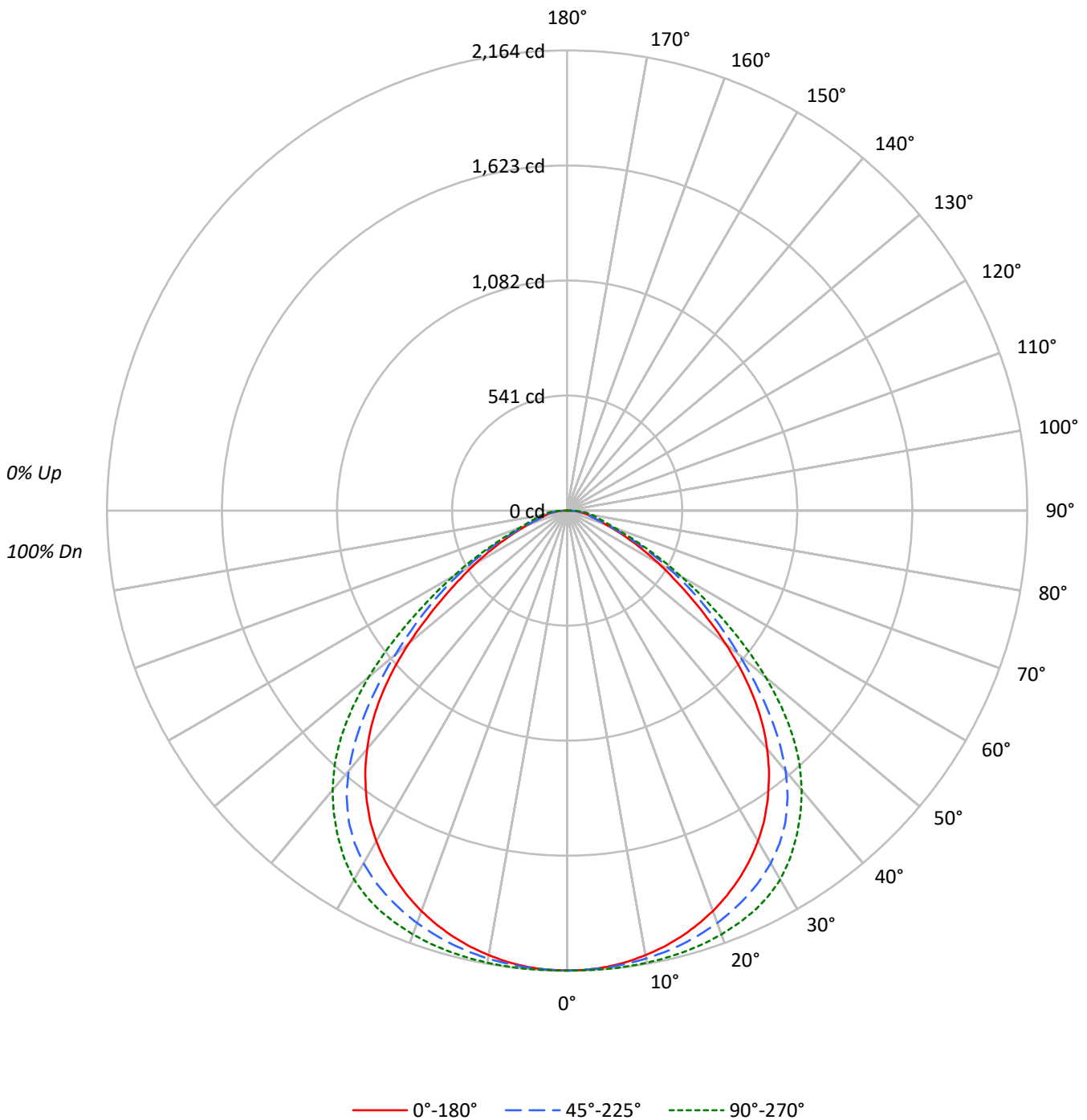
Summary

Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 5167.7 lumens
Efficiency: 61.5%
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.35 / 1.35
Luminous Opening: Rectangular (W 1.79' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 85.7
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	73	73	73	73	72	72	72	72	68	68	68	65	65	65	63	63	63	62
1	68	65	63	61	66	64	62	60	61	60	58	59	58	56	57	56	55	53
2	63	58	54	51	61	57	54	51	55	52	50	53	50	48	51	49	47	46
3	58	52	47	44	56	51	47	43	49	45	43	47	44	42	46	43	41	40
4	53	46	41	38	52	46	41	37	44	40	37	43	39	37	41	38	36	35
5	49	42	37	33	48	41	36	33	40	36	32	39	35	32	38	34	32	31
6	45	38	33	29	44	37	32	29	36	32	29	35	31	28	34	31	28	27
7	42	34	29	26	41	34	29	26	33	29	26	32	28	25	31	28	25	24
8	39	32	27	23	39	31	26	23	30	26	23	30	26	23	29	25	23	22
9	37	29	24	21	36	29	24	21	28	24	21	27	24	21	27	23	21	20
10	35	27	22	19	34	27	22	19	26	22	19	25	22	19	25	21	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3413	3413	3413
5°	3412	3417	3428
10°	3402	3427	3459
15°	3388	3445	3506
20°	3365	3466	3562
25°	3329	3484	3618
30°	3271	3489	3651
35°	3171	3446	3618
40°	3016	3294	3535
45°	2767	2992	3352
50°	2381	2590	2992
55°	1937	2201	2476
60°	1559	1796	1953
65°	1213	1359	1460
70°	913	941	1093
75°	768	738	994
80°	781	854	1090
85°	887	1086	1358



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	205.4	4.0	2.4	0°	2163	2163	2163	2163	2163	
10°-20°	595.9	11.5	7.1	5°	2154	2153	2157	2161	2164	205
20°-30°	920.2	17.8	11.0	15°	2074	2083	2109	2135	2146	585
30°-40°	1105.1	21.4	13.2	25°	1912	1939	2001	2054	2078	880
40°-50°	1036.9	20.1	12.3	35°	1646	1697	1789	1849	1878	1026
50°-60°	721.9	14.0	8.6	45°	1240	1262	1341	1442	1502	948
60°-70°	369.2	7.1	4.4	55°	704	740	800	871	900	637
70°-80°	150.5	2.9	1.8	65°	325	337	364	398	391	329
80°-90°	62.5	1.2	0.7	75°	126	121	121	150	163	139
90°-100°	0.0	0.0	0.0	85°	49	51	60	75	75	47
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	4
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°	1721.5	33.3	20.5	165°	0	0	0	0	0	0
0°-40°	2826.7	54.7	33.7	175°	0	0	0	0	0	0
0°-60°	4585.5	88.7	54.6	180°	0	0	0	0	0	0
0°-90°	5167.7	100.0	61.5							
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°	5167.7	100.0	61.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2163	2163	2163	2163	2163
2.5°	2161	2159	2160	2162	2163
5°	2154	2153	2157	2161	2164
7.5°	2141	2142	2149	2158	2162
10°	2123	2127	2139	2153	2159
12.5°	2101	2107	2126	2145	2154
15°	2074	2083	2109	2135	2146
17.5°	2041	2054	2088	2121	2136
20°	2004	2021	2064	2103	2121
22.5°	1961	1983	2035	2082	2102
25°	1912	1939	2001	2054	2078
27.5°	1857	1891	1962	2020	2046
30°	1795	1835	1915	1976	2004
32.5°	1726	1772	1858	1920	1947
35°	1646	1697	1789	1849	1878
37.5°	1560	1611	1703	1767	1801
40°	1464	1509	1599	1676	1716
42.5°	1359	1394	1477	1568	1618
45°	1240	1262	1341	1442	1502
47.5°	1110	1124	1199	1301	1367
50°	970	987	1055	1153	1219
52.5°	831	858	924	1007	1060
55°	704	740	800	871	900
57.5°	593	629	682	742	752
60°	494	524	569	619	619
62.5°	405	427	462	504	500
65°	325	337	364	398	391
67.5°	256	260	277	307	302
70°	198	198	204	236	237
72.5°	156	152	151	184	194
75°	126	121	121	150	163
77.5°	105	101	105	129	140
80°	86	86	94	114	120
82.5°	67	70	79	97	100
85°	49	51	60	75	75
87.5°	27	29	33	45	44
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)