

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: 132P101

Luminaire Tested: **2MXF-240KSH12/125**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 132P101
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2MXF-240KSH12/125
Description: 2 X 4 Surface Modular with a .125" thick
KSH pattern 12 lens.
Light Source: Two-F40CW - 3150 Lumens ea. - 40 Watts ea.
Ballast/Driver: -

Summary

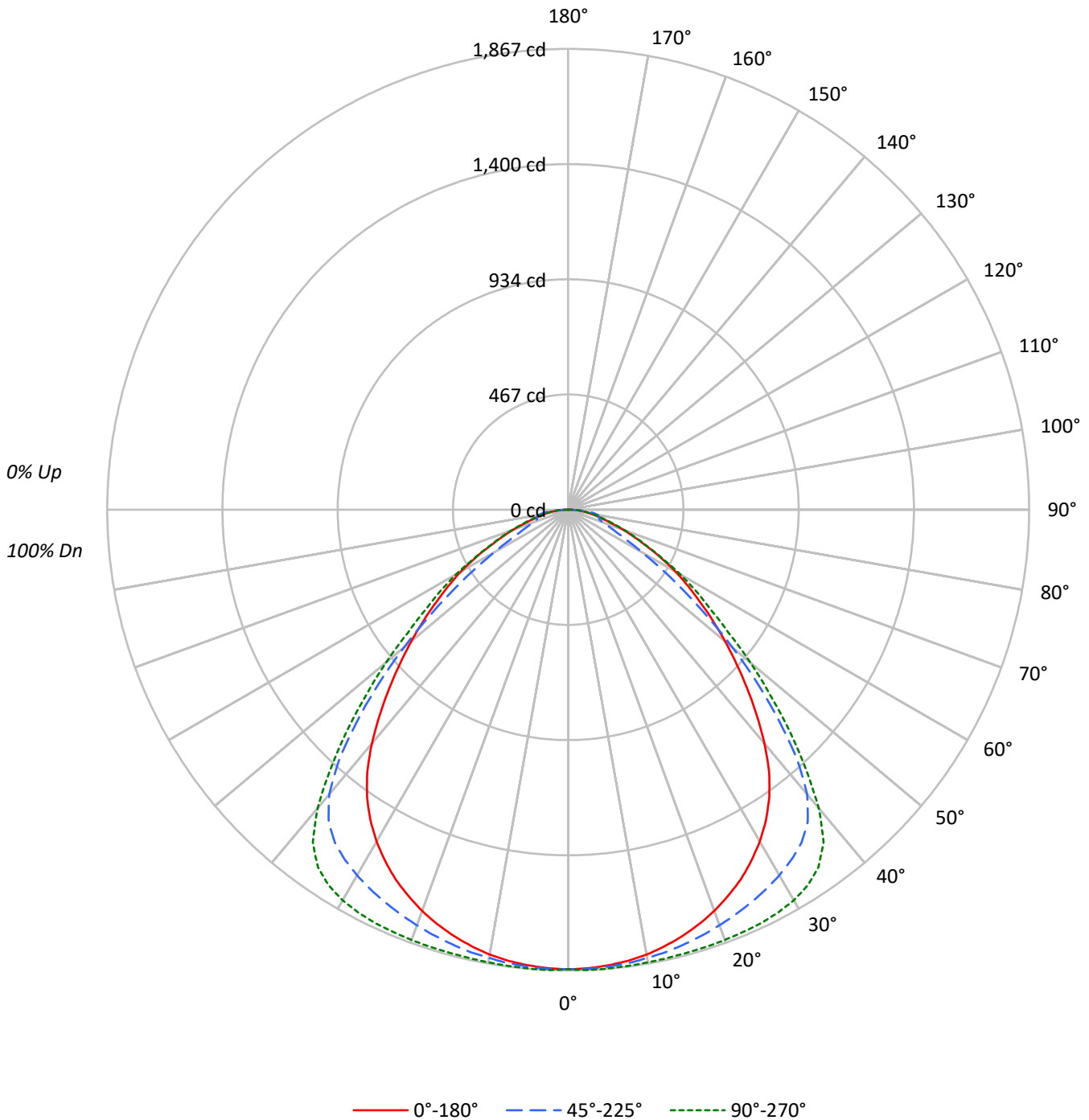
Lumens per Lamp: 3150 (2 lamps)
Luminaire Lumens: 4475.6 lumens
Efficiency: 71.0%
Efficacy: 50.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.44 / 1.38
Luminous Opening: Rectangular (W 1.76' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 88.3
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	85	85	85	85	83	83	83	83	79	79	79	76	76	76	72	72	72	71
1	78	75	73	70	76	74	71	69	71	69	67	68	66	65	66	64	63	62
2	72	67	63	59	70	66	62	58	63	60	57	61	58	56	59	57	55	53
3	67	60	55	51	65	59	54	50	57	53	49	55	51	48	53	50	48	46
4	61	54	48	44	60	53	48	43	51	47	43	49	46	42	48	45	42	40
5	57	48	43	38	55	48	42	38	46	41	38	45	41	37	44	40	37	36
6	53	44	38	34	51	43	38	34	42	37	33	41	37	33	40	36	33	32
7	49	40	34	30	48	40	34	30	38	33	30	37	33	30	37	33	29	28
8	46	37	31	27	45	36	31	27	35	30	27	34	30	27	34	30	27	25
9	43	34	28	25	42	33	28	24	33	28	24	32	27	24	31	27	24	23
10	40	31	26	22	39	31	26	22	30	25	22	30	25	22	29	25	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3011	3011	3011
5°	3008	3016	3029
10°	3005	3028	3057
15°	2993	3050	3110
20°	2977	3084	3192
25°	2949	3131	3297
30°	2898	3193	3411
35°	2803	3251	3488
40°	2611	3179	3333
45°	2344	2760	2897
50°	2085	2186	2423
55°	1835	1604	1982
60°	1623	1116	1695
65°	1343	819	1366
70°	1116	704	1149
75°	900	806	975
80°	875	1127	922
85°	928	1336	965



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	176.9	4.0	2.8	0°	1862	1862	1862	1862	1862	
10°-20°	515.2	11.5	8.2	5°	1853	1854	1858	1859	1866	176
20°-30°	808.3	18.1	12.8	15°	1788	1797	1822	1844	1858	505
30°-40°	1007.7	22.5	16.0	25°	1653	1682	1755	1819	1848	760
40°-50°	907.2	20.3	14.4	35°	1420	1508	1647	1744	1767	882
50°-60°	554.2	12.4	8.8	45°	1025	1109	1207	1258	1267	792
60°-70°	275.9	6.2	4.4	55°	651	565	569	626	703	587
70°-80°	162.2	3.6	2.6	65°	351	247	214	256	357	354
80°-90°	67.9	1.5	1.1	75°	144	164	129	171	156	161
90°-100°	0.0	0.0	0.0	85°	50	70	72	67	52	50
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°	1500.4	33.5	23.8	165°	0	0	0	0	0	0
0°-40°	2508.1	56.0	39.8	175°	0	0	0	0	0	0
0°-60°	3969.6	88.7	63.0	180°	0	0	0	0	0	0
0°-90°	4475.6	100.0	71.0							
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°	4475.6	100.0	71.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1862	1862	1862	1862	1862
2.5°	1859	1859	1862	1860	1867
5°	1853	1854	1858	1859	1866
7.5°	1844	1845	1853	1856	1864
10°	1830	1833	1844	1853	1862
12.5°	1811	1817	1835	1849	1860
15°	1788	1797	1822	1844	1858
17.5°	1761	1774	1808	1839	1857
20°	1730	1747	1792	1833	1855
22.5°	1693	1716	1774	1827	1852
25°	1653	1682	1755	1819	1848
27.5°	1605	1644	1734	1808	1840
30°	1552	1603	1710	1794	1827
32.5°	1491	1558	1682	1774	1805
35°	1420	1508	1647	1744	1767
37.5°	1337	1449	1594	1688	1699
40°	1237	1369	1506	1584	1579
42.5°	1130	1254	1373	1432	1425
45°	1025	1109	1207	1258	1267
47.5°	924	966	1037	1097	1108
50°	829	829	869	939	963
52.5°	738	691	710	776	818
55°	651	565	569	626	703
57.5°	575	456	447	495	614
60°	502	365	345	391	524
62.5°	426	296	269	311	434
65°	351	247	214	256	357
67.5°	289	213	179	218	295
70°	236	187	149	190	243
72.5°	186	173	134	178	195
75°	144	164	129	171	156
77.5°	116	147	127	155	126
80°	94	124	121	127	99
82.5°	72	98	103	98	75
85°	50	70	72	67	52
87.5°	28	34	37	32	29
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)