

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: 132P115

Luminaire Tested: **2M-2U6T8A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 132P115
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2M-2U6T8A
Description: 2 X 2 Surface Modular luminaire with a
.095 pattern 12 acrylic lens.
Light Source: Two - FB31T8/TL735/6 - 2600 Lumens ea. - 31 Watts ea.
Ballast/Driver: Advance REL-2P32-RH-TP Electronic - L.O.B.F. = 85.4

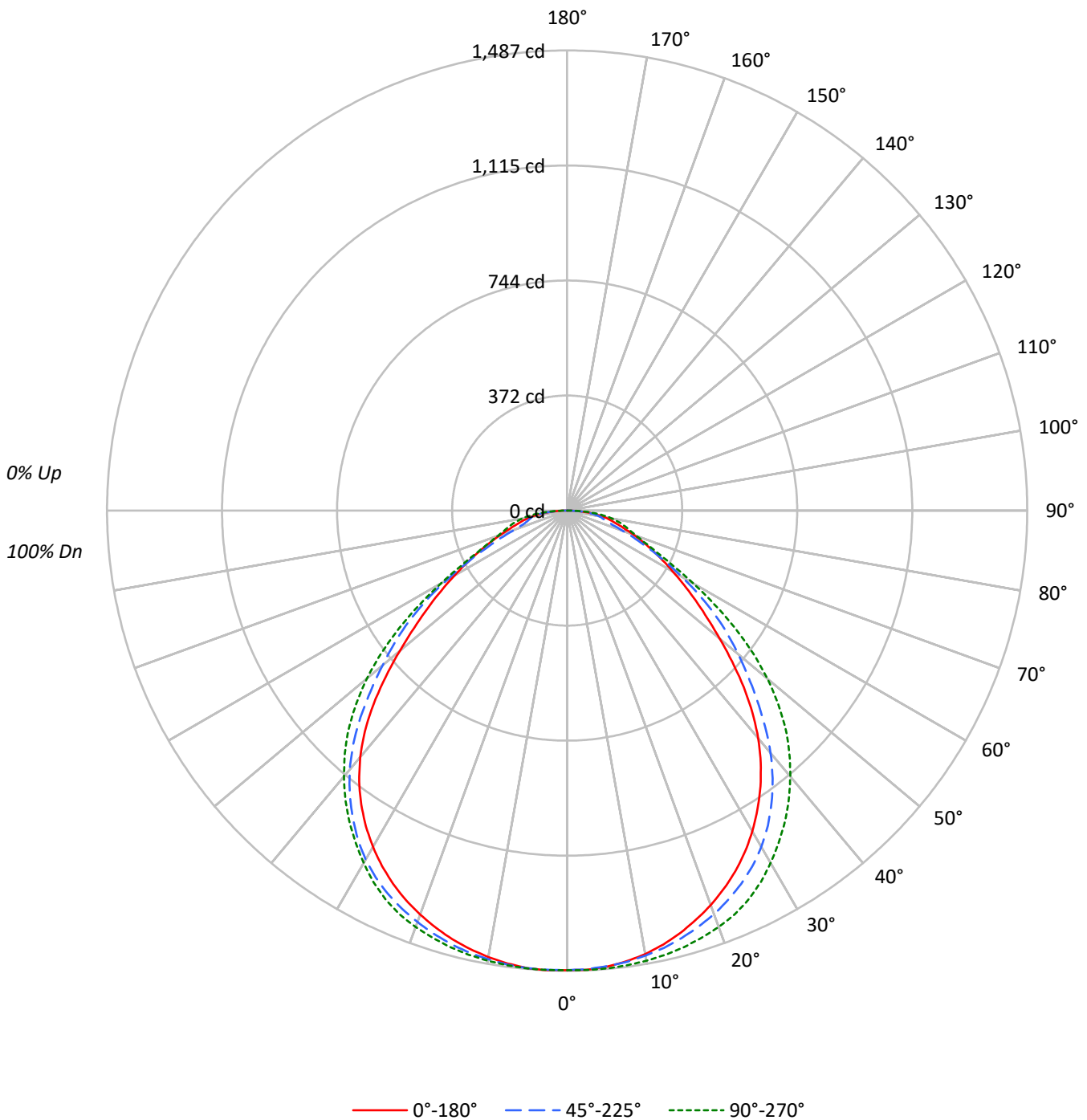
Summary

Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 3689.7 lumens
Efficiency: 71.0%
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.33
Luminous Opening: Rectangular (W 1.79' x L: 1.81' x H: 0')
CIE Type: Direct

Input Watts (W): 54.4
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	84	84	84	84	83	83	83	83	79	79	79	75	75	75	72	72	72	71
1	78	75	72	69	76	73	70	68	70	68	66	67	66	64	65	63	62	61
2	71	66	61	58	69	65	60	57	62	59	56	60	57	54	58	55	53	52
3	65	58	53	49	64	57	52	48	55	51	47	53	50	47	52	48	46	44
4	60	52	46	42	59	51	46	42	50	45	41	48	44	40	46	43	40	38
5	56	47	41	36	54	46	40	36	45	40	36	43	39	35	42	38	35	34
6	52	42	36	32	50	42	36	32	41	35	32	39	35	31	38	34	31	30
7	48	39	33	28	47	38	32	28	37	32	28	36	31	28	35	31	28	26
8	45	35	30	26	44	35	29	25	34	29	25	33	29	25	32	28	25	24
9	42	33	27	23	41	32	27	23	31	26	23	31	26	23	30	26	23	21
10	39	30	25	21	38	30	24	21	29	24	21	28	24	21	28	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4922	4922	4922
5°	4921	4941	4938
10°	4897	4971	4931
15°	4849	5010	4921
20°	4787	5051	4899
25°	4703	5073	4868
30°	4581	5033	4803
35°	4406	4965	4694
40°	4158	4855	4500
45°	3783	4683	4148
50°	3316	4357	3641
55°	2930	3826	3178
60°	2619	3116	2791
65°	2392	2510	2463
70°	2210	2297	2200
75°	2126	2459	2126
80°	2348	2806	2271
85°	2510	3118	2282



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	140.9	3.8	2.7	0°	1485	1485	1485	1485	1485	
10°-20°	406.6	11.0	7.8	5°	1479	1478	1485	1484	1484	140
20°-30°	620.2	16.8	11.9	15°	1413	1430	1460	1450	1434	398
30°-40°	734.0	19.9	14.1	25°	1286	1331	1387	1368	1331	591
40°-50°	700.8	19.0	13.5	35°	1089	1152	1227	1209	1160	679
50°-60°	530.6	14.4	10.2	45°	807	868	999	944	885	620
60°-70°	311.3	8.4	6.0	55°	507	580	662	625	550	457
70°-80°	174.8	4.7	3.4	65°	305	295	320	292	314	304
80°-90°	70.7	1.9	1.4	75°	166	131	192	133	166	179
90°-100°	0.0	0.0	0.0	85°	66	60	82	68	60	66
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	5
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°	1167.6	31.6	22.5	165°	0	0	0	0	0	0
0°-40°	1901.6	51.5	36.6	175°	0	0	0	0	0	0
0°-60°	3133.0	84.9	60.2	180°	0	0	0	0	0	0
0°-90°	3689.7	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°	3689.7	100.0	71.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1485	1485	1485	1485	1485	1485	1485	1485	1485
2.5°	1485	1482	1483	1482	1486	1483	1485	1484	1487
5°	1479	1475	1478	1479	1485	1482	1484	1481	1484
7.5°	1469	1464	1471	1474	1482	1479	1480	1475	1476
10°	1455	1452	1460	1468	1477	1474	1472	1467	1465
12.5°	1436	1434	1447	1459	1470	1467	1463	1455	1451
15°	1413	1413	1430	1447	1460	1457	1450	1440	1434
17.5°	1386	1388	1410	1432	1447	1444	1434	1420	1413
20°	1357	1360	1388	1414	1432	1427	1415	1399	1389
22.5°	1323	1328	1361	1392	1413	1408	1393	1375	1362
25°	1286	1292	1331	1365	1387	1383	1368	1345	1331
27.5°	1244	1251	1296	1332	1354	1351	1338	1313	1295
30°	1197	1208	1255	1292	1315	1312	1302	1276	1255
32.5°	1145	1158	1207	1245	1272	1268	1259	1233	1210
35°	1089	1101	1152	1195	1227	1221	1209	1184	1160
37.5°	1028	1039	1091	1140	1177	1171	1154	1128	1104
40°	961	969	1023	1078	1122	1116	1093	1064	1040
42.5°	887	892	947	1008	1063	1055	1023	991	968
45°	807	812	868	932	999	982	944	910	885
47.5°	723	734	793	857	925	900	860	825	796
50°	643	658	721	783	845	812	779	740	706
52.5°	571	585	652	708	757	729	703	659	623
55°	507	514	580	630	662	644	625	580	550
57.5°	448	444	503	547	565	554	539	500	483
60°	395	381	427	466	470	463	448	424	421
62.5°	348	329	358	396	386	382	365	358	365
65°	305	285	295	335	320	319	292	303	314
67.5°	265	247	239	287	272	272	231	256	269
70°	228	214	191	247	237	237	181	218	227
72.5°	194	185	154	212	212	208	149	187	193
75°	166	159	131	182	192	181	133	161	166
77.5°	144	133	118	154	171	156	124	136	143
80°	123	107	105	126	147	131	114	111	119
82.5°	95	82	85	101	118	107	95	86	90
85°	66	57	60	72	82	78	68	62	60
87.5°	37	31	32	38	40	42	37	35	28
90°	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)