

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: 118P102

Luminaire Tested: **2G-2U6T8A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 118P102
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2G-2U6T8A
Description: 2 X 2 Recessed Troffer 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

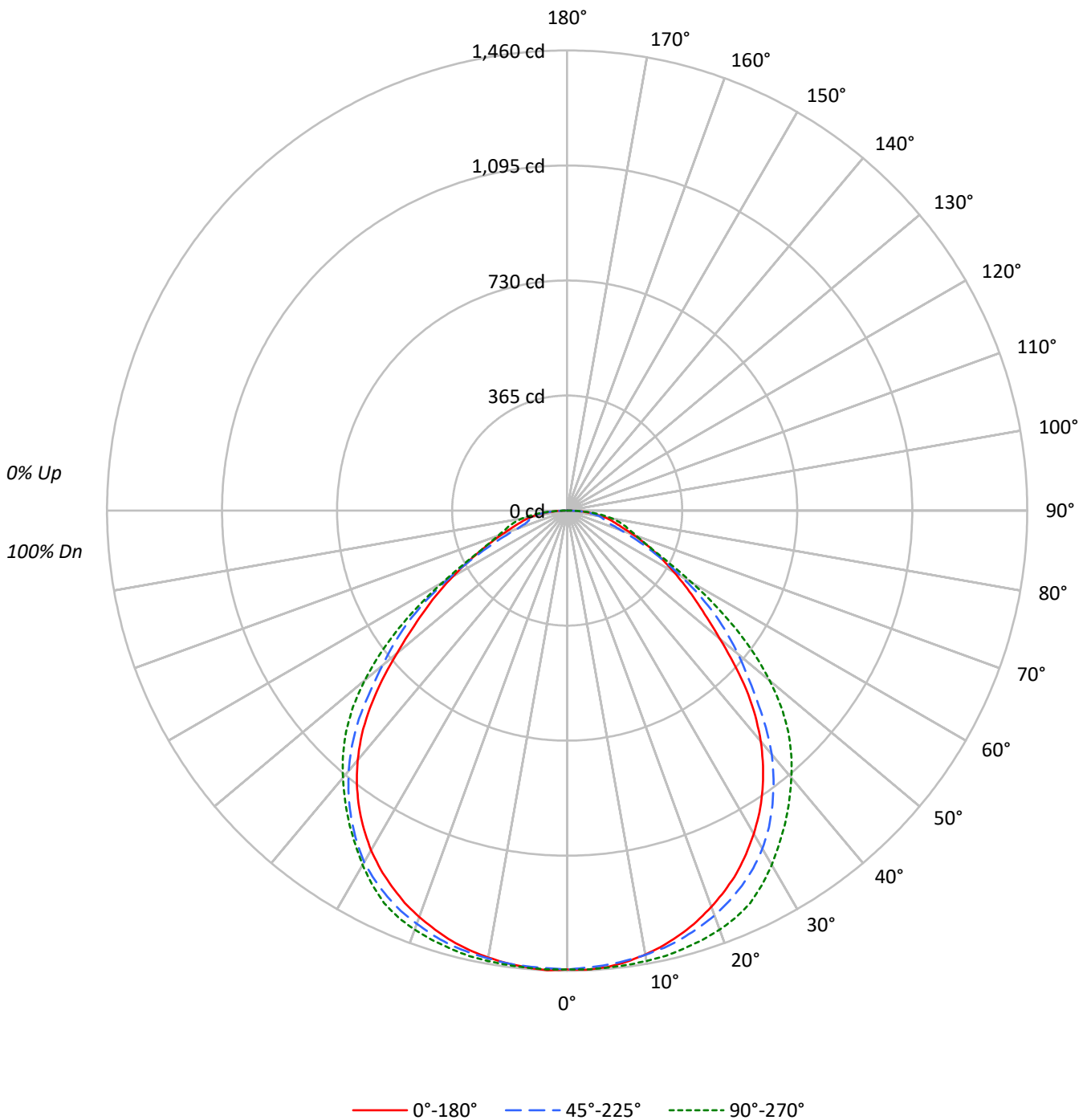
Summary

Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 3636.7 lumens
Efficiency: 69.9%
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.31 / 1.34
Luminous Opening: Rectangular (W 1.79' x L: 1.81' x H: 0')
CIE Type: Direct

Input Watts (W): 53.6
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	83	83	83	83	81	81	81	81	78	78	78		74	74	74		71	71	71	70
1	77	74	71	68	75	72	69	67	69	67	65		66	65	63		64	62	61	60
2	70	65	61	57	69	64	60	56	61	58	55		59	56	54		57	55	52	51
3	65	58	52	48	63	57	52	48	55	50	47		53	49	46		51	48	45	44
4	59	51	46	41	58	51	45	41	49	44	40		47	43	40		46	42	39	38
5	55	46	40	36	53	46	40	36	44	39	35		43	38	35		41	38	35	33
6	51	42	36	32	49	41	36	32	40	35	31		39	34	31		38	34	31	29
7	47	38	32	28	46	38	32	28	37	31	28		36	31	28		35	31	27	26
8	44	35	29	25	43	34	29	25	34	29	25		33	28	25		32	28	25	23
9	41	32	27	23	40	32	26	23	31	26	23		30	26	22		29	25	22	21
10	39	30	24	21	38	29	24	21	29	24	21		28	24	20		27	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4826	4826	4826
5°	4838	4844	4841
10°	4813	4884	4847
15°	4777	4934	4852
20°	4720	4991	4839
25°	4648	5025	4813
30°	4532	4968	4761
35°	4374	4884	4657
40°	4136	4790	4474
45°	3769	4650	4148
50°	3259	4326	3635
55°	2878	3774	3184
60°	2599	3023	2778
65°	2369	2408	2384
70°	2151	2258	2113
75°	2075	2433	2036
80°	2291	2768	2214
85°	2472	3004	2282



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	138.3	3.8	2.7	0°	1456	1456	1456	1456	1456	
10°-20°	400.7	11.0	7.7	5°	1454	1447	1456	1452	1455	138
20°-30°	613.4	16.9	11.8	15°	1392	1406	1438	1427	1414	392
30°-40°	725.9	20.0	14.0	25°	1271	1313	1374	1351	1316	584
40°-50°	693.4	19.1	13.3	35°	1081	1136	1207	1194	1151	674
50°-60°	523.9	14.4	10.1	45°	804	851	992	934	885	616
60°-70°	303.4	8.3	5.8	55°	498	569	653	615	551	449
70°-80°	168.8	4.6	3.2	65°	302	285	307	281	304	301
80°-90°	68.9	1.9	1.3	75°	162	126	190	127	159	175
90°-100°	0.0	0.0	0.0	85°	65	61	79	68	60	64
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°	1152.4	31.7	22.2	165°	0	0	0	0	0	0
0°-40°	1878.3	51.6	36.1	175°	0	0	0	0	0	0
0°-60°	3095.6	85.1	59.5	180°	0	0	0	0	0	0
0°-90°	3636.7	100.0	69.9							
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°	3636.7	100.0	69.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1456	1456	1456	1456	1456	1456	1456	1456	1456
2.5°	1458	1456	1451	1454	1457	1455	1453	1458	1460
5°	1454	1449	1447	1452	1456	1456	1452	1457	1455
7.5°	1444	1440	1440	1450	1454	1453	1449	1451	1449
10°	1430	1428	1431	1444	1451	1450	1443	1443	1440
12.5°	1413	1412	1421	1438	1447	1445	1436	1433	1429
15°	1392	1393	1406	1428	1438	1437	1427	1421	1414
17.5°	1367	1368	1388	1415	1428	1426	1413	1404	1394
20°	1338	1342	1367	1399	1415	1413	1395	1384	1372
22.5°	1306	1312	1342	1379	1398	1395	1376	1360	1347
25°	1271	1277	1313	1353	1374	1372	1351	1333	1316
27.5°	1229	1238	1279	1320	1339	1339	1322	1302	1283
30°	1184	1194	1239	1278	1298	1298	1288	1266	1244
32.5°	1136	1148	1192	1229	1253	1253	1244	1225	1200
35°	1081	1093	1136	1178	1207	1205	1194	1177	1151
37.5°	1021	1031	1076	1124	1158	1155	1139	1122	1096
40°	956	962	1010	1065	1107	1103	1078	1059	1034
42.5°	884	887	933	998	1053	1041	1011	988	965
45°	804	804	851	920	992	970	934	907	885
47.5°	716	724	776	841	921	888	846	819	797
50°	632	648	707	769	839	802	766	733	705
52.5°	559	576	639	698	750	720	691	655	622
55°	498	505	569	624	653	639	615	577	551
57.5°	443	439	494	544	552	549	530	498	485
60°	392	378	418	465	456	459	438	421	419
62.5°	346	328	348	393	371	376	353	351	356
65°	302	284	285	329	307	309	281	295	304
67.5°	261	243	229	277	263	262	218	247	259
70°	222	208	181	237	233	228	169	208	218
72.5°	188	179	146	204	209	200	140	179	185
75°	162	153	126	175	190	175	127	155	159
77.5°	142	128	116	147	170	149	122	131	138
80°	120	103	105	120	145	125	113	107	116
82.5°	93	80	85	97	116	104	94	84	88
85°	65	57	61	69	79	76	68	60	60
87.5°	35	30	32	36	37	39	36	34	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)