

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: 117P102

Luminaire Tested: **2GCAML-2U6T8S66I-PAF**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 117P102  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2GCAML-2U6T8S66I-PAF  
Description: 2 X 2 Recessed Air Supply Troffer with a 1.5"  
deep 36 cell specular low iridescent parabolic louver.  
Light Source: Two-FB31T8/TL735 - 2600 Lumens ea. - 31 Watts ea.  
Ballast/Driver: Advance REL-2P32-RH-TP Electronic: L.O.B.F. = 85.4

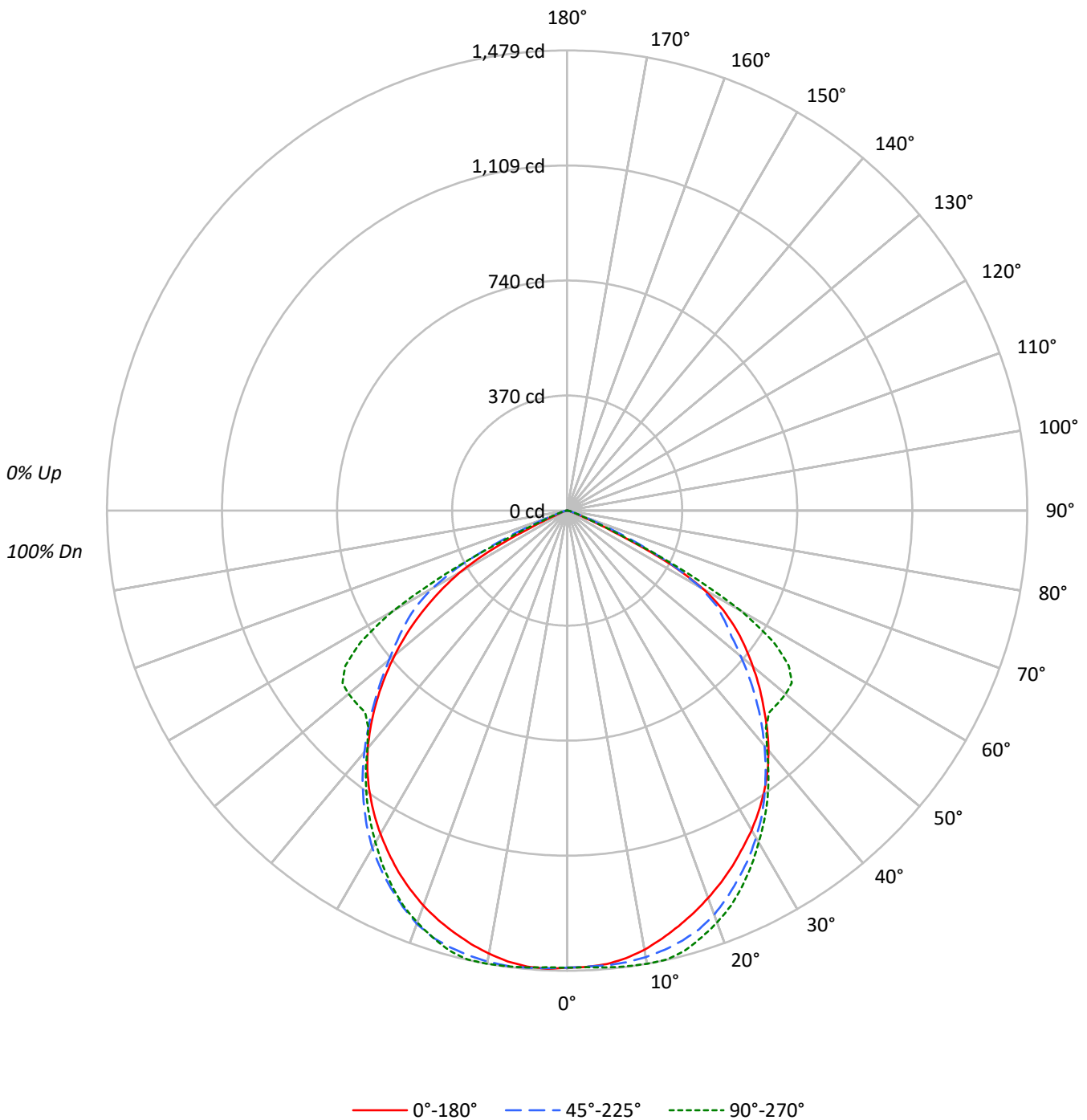
**Summary**

Lumens per Lamp: 2600 (2 lamps)  
Luminaire Lumens: 3400.0 lumens  
Efficiency: 65.4%  
Efficacy: 62.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.31  
Luminous Opening: Rectangular (W 1.74' x L: 1.76' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 54.6  
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	78	78	78	78	76	76	76	76	73	73	73		70	70	70		67	67	67	65
1	73	70	68	66	71	69	67	65	66	64	63		63	62	61		61	60	59	58
2	67	63	59	56	65	61	58	55	59	56	54		57	55	53		55	53	51	50
3	62	56	51	47	60	55	51	47	53	49	46		51	48	45		50	47	45	43
4	57	50	45	41	55	49	44	41	48	43	40		46	42	40		45	42	39	38
5	53	45	40	36	51	44	39	35	43	38	35		42	38	35		40	37	34	33
6	49	41	35	31	47	40	35	31	39	34	31		38	34	31		37	33	30	29
7	45	37	32	28	44	36	31	28	35	31	28		35	30	27		34	30	27	26
8	42	34	29	25	41	33	28	25	33	28	25		32	28	25		31	27	24	23
9	39	31	26	23	38	31	26	23	30	26	22		29	25	22		29	25	22	21
10	37	29	24	21	36	28	24	20	28	23	20		27	23	20		27	23	20	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	5179	5179	5179
5°	5177	5216	5206
10°	5130	5294	5176
15°	5047	5343	5124
20°	4971	5286	5068
25°	4897	5181	4987
30°	4828	5015	4885
35°	4751	4837	4764
40°	4634	4597	4588
45°	4452	4577	4317
50°	4272	5029	3971
55°	4069	5347	3503
60°	3596	4576	2820
65°	1568	1760	984
70°	309	443	237
75°	177	245	150
80°	142	162	122
85°	81	81	81



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	45°	90°	135°	180°	Flux
0°-10°	140.1	4.1	2.7	0°	1469	1469	1469	1469	
10°-20°	404.7	11.9	7.8	5°	1463	1467	1474	1475	139
20°-30°	604.9	17.8	11.6	15°	1383	1431	1464	1453	390
30°-40°	701.4	20.6	13.5	25°	1259	1304	1332	1340	580
40°-50°	686.3	20.2	13.2	35°	1104	1107	1124	1141	690
50°-60°	604.2	17.8	11.6	45°	893	859	918	878	690
60°-70°	237.0	7.0	4.6	55°	662	618	870	635	586
70°-80°	18.5	0.5	0.4	65°	188	255	211	258	220
80°-90°	2.9	0.1	0.1	75°	13	14	18	14	16
90°-100°	0.0	0.0	0.0	85°	2	2	2	2	3
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0
0°-30°	1149.7	33.8	22.1	165°	0	0	0	0	0
0°-40°	1851.1	54.4	35.6	175°	0	0	0	0	0
0°-60°	3141.6	92.4	60.4	180°	0	0	0	0	0
0°-90°	3400.0	100.0	65.4						
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°	3400.0	100.0	65.4						



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1469	1469	1469	1469	1469	1469	1469	1469	1469
2.5°	1468	1467	1467	1467	1469	1471	1472	1474	1474
5°	1463	1462	1467	1470	1474	1476	1475	1474	1471
7.5°	1451	1453	1464	1472	1477	1479	1476	1469	1462
10°	1433	1439	1457	1472	1479	1480	1472	1459	1446
12.5°	1409	1418	1446	1470	1478	1481	1464	1444	1427
15°	1383	1396	1431	1458	1464	1471	1453	1426	1404
17.5°	1355	1371	1411	1432	1438	1447	1438	1405	1379
20°	1325	1344	1382	1402	1409	1417	1413	1381	1351
22.5°	1293	1315	1345	1364	1375	1383	1379	1353	1318
25°	1259	1286	1304	1321	1332	1342	1340	1322	1282
27.5°	1222	1253	1262	1271	1284	1292	1298	1288	1242
30°	1186	1216	1214	1217	1232	1241	1252	1248	1200
32.5°	1146	1174	1164	1160	1179	1184	1199	1205	1155
35°	1104	1128	1107	1101	1124	1128	1141	1156	1107
37.5°	1058	1077	1048	1039	1063	1069	1080	1100	1055
40°	1007	1022	987	972	999	1005	1014	1040	997
42.5°	951	961	923	903	946	941	946	973	933
45°	893	894	859	848	918	889	878	901	866
47.5°	837	826	794	822	918	860	811	825	796
50°	779	760	728	817	917	848	747	746	724
52.5°	722	690	667	803	910	828	690	667	649
55°	662	621	618	773	870	794	635	588	570
57.5°	595	545	569	702	787	718	577	505	487
60°	510	451	496	583	649	600	502	413	400
62.5°	382	336	389	421	438	437	396	310	282
65°	188	190	255	232	211	243	258	187	118
67.5°	60	74	127	93	81	102	130	70	39
70°	30	31	50	42	43	44	53	29	23
72.5°	19	19	22	25	27	26	22	19	16
75°	13	13	14	17	18	17	14	13	11
77.5°	9	9	10	11	12	11	10	9	8
80°	7	6	7	7	8	7	7	6	6
82.5°	4	4	4	5	5	5	4	4	4
85°	2	2	2	2	2	2	2	2	2
87.5°	1	1	1	1	1	1	1	1	1
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)