

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: 117P103

Luminaire Tested: **2GCAPL-2U6T8PB2S-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 117P103
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCAPL-2U6T8PB2S-PAF
Description: 2 X 2 Recessed Air Supply Troffer with a
1.5" X 1.5" X 1" Plastic 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

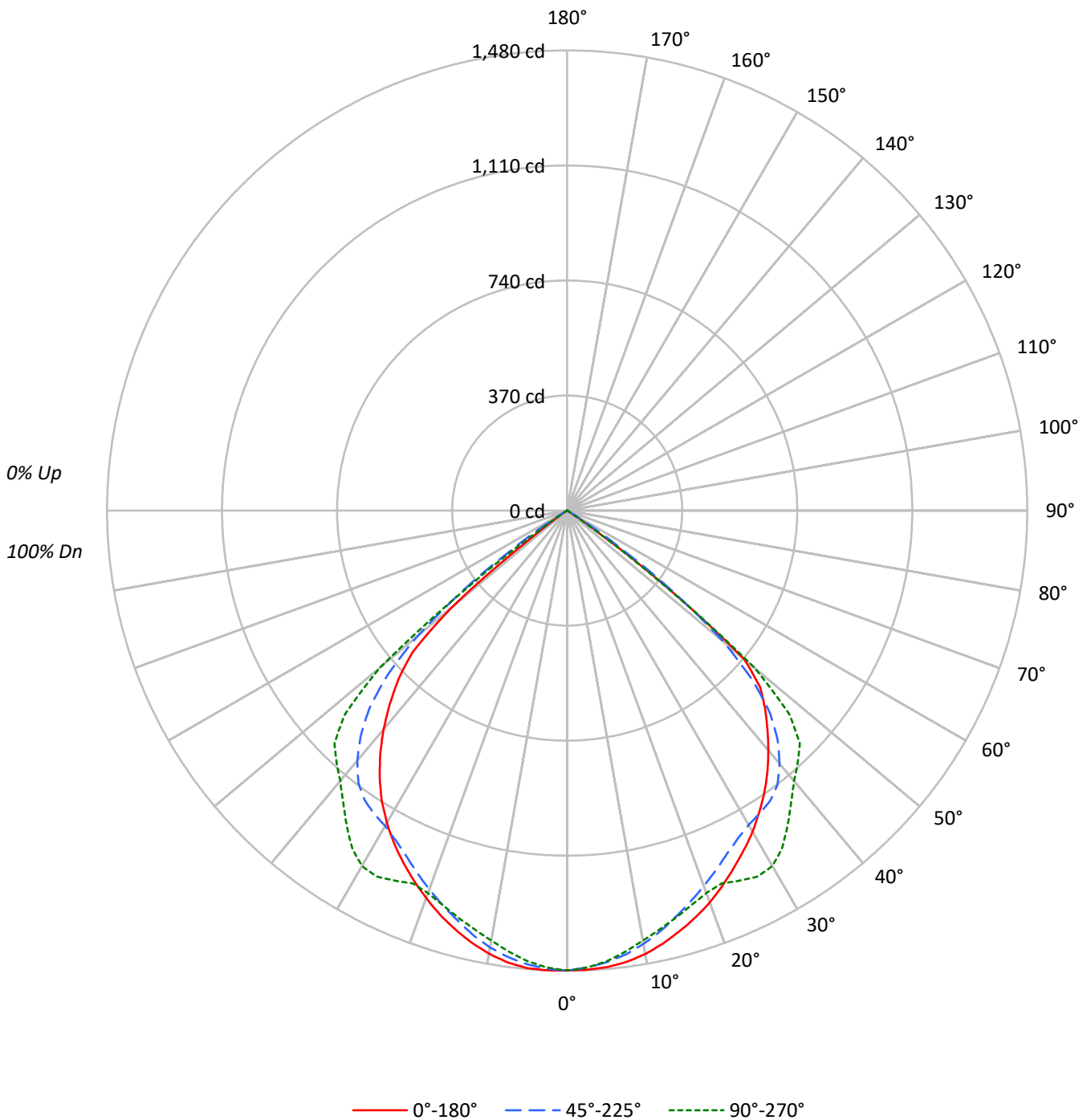
Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 2693.0 lumens
Efficiency: 51.8%
Efficacy: 49.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.32 / 1.34
Luminous Opening: Rectangular (W 1.71' x L: 1.71' x H: 0')
CIE Type: Direct

Input Watts (W): 54.3
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	62	62	62	62	60	60	60	60	58	58	58	55	55	55	53	53	53	52
1	58	56	55	54	57	55	54	53	53	52	51	51	50	50	49	49	48	47
2	54	51	49	47	53	50	48	46	49	47	45	47	45	44	46	44	43	42
3	51	47	43	41	50	46	43	41	44	42	40	43	41	39	42	40	39	38
4	47	42	39	36	46	42	38	36	41	38	35	39	37	35	38	36	35	34
5	44	39	35	32	43	38	35	32	37	34	32	36	34	31	35	33	31	30
6	41	35	32	29	40	35	31	29	34	31	28	33	30	28	32	30	28	27
7	38	32	29	26	38	32	28	26	31	28	26	31	28	25	30	27	25	24
8	36	30	26	23	35	29	26	23	29	26	23	28	25	23	28	25	23	22
9	34	28	24	21	33	27	24	21	27	23	21	26	23	21	26	23	21	20
10	32	25	22	19	31	25	22	19	25	22	19	24	21	19	24	21	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	5422	5422	5422
5°	5424	5355	5435
10°	5390	5227	5387
15°	5314	5143	5291
20°	5232	5107	5173
25°	5129	5311	5048
30°	5050	5588	4906
35°	4950	5532	4704
40°	4819	5432	4393
45°	4666	5485	3977
50°	4243	4489	2778
55°	620	473	198
60°	22	15	15
65°	17	17	17
70°	21	11	11
75°	14	14	14
80°	0	0	21
85°	0	0	42



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	138.4	5.1	2.7	0°	1479	1479	1479	1479	1479	
10°-20°	385.5	14.3	7.4	5°	1474	1458	1455	1465	1477	140
20°-30°	578.9	21.5	11.1	15°	1400	1352	1355	1364	1394	395
30°-40°	709.3	26.3	13.6	25°	1268	1217	1313	1225	1248	585
40°-50°	687.6	25.5	13.2	35°	1106	1139	1236	1136	1051	691
50°-60°	190.1	7.1	3.7	45°	900	924	1058	899	767	689
60°-70°	2.0	0.1	0.0	55°	97	200	74	195	31	189
70°-80°	1.0	0.0	0.0	65°	2	2	2	2	2	2
80°-90°	0.3	0.0	0.0	75°	1	1	1	1	1	1
90°-100°	0.0	0.0	0.0	85°	0	0	0	0	1	0
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
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°	1102.7	40.9	21.2	165°	0	0	0	0	0	0
0°-40°	1812.0	67.3	34.8	175°	0	0	0	0	0	0
0°-60°	2689.7	99.9	51.7	180°	0	0	0	0	0	0
0°-90°	2693.0	100.0	51.8							
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°	2693.0	100.0	51.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1479	1479	1479	1479	1479	1479	1479	1479	1479
2.5°	1478	1476	1471	1469	1471	1469	1475	1479	1480
5°	1474	1467	1458	1453	1455	1455	1465	1475	1477
7.5°	1464	1452	1440	1431	1431	1435	1449	1463	1466
10°	1448	1432	1415	1404	1404	1410	1427	1444	1447
12.5°	1426	1404	1386	1378	1379	1384	1398	1416	1423
15°	1400	1373	1352	1351	1355	1359	1364	1384	1394
17.5°	1372	1338	1319	1325	1330	1334	1331	1349	1362
20°	1341	1301	1285	1299	1309	1308	1296	1309	1326
22.5°	1306	1261	1251	1277	1298	1286	1261	1266	1288
25°	1268	1221	1217	1270	1313	1279	1225	1222	1248
27.5°	1231	1181	1189	1279	1327	1285	1195	1177	1206
30°	1193	1140	1167	1278	1320	1285	1171	1131	1159
32.5°	1150	1099	1154	1252	1287	1260	1156	1083	1109
35°	1106	1056	1139	1210	1236	1216	1136	1032	1051
37.5°	1058	1016	1111	1153	1183	1158	1103	979	987
40°	1007	974	1063	1095	1135	1100	1050	925	918
42.5°	953	928	1002	1037	1098	1041	983	866	844
45°	900	874	924	977	1058	983	899	797	767
47.5°	842	794	811	885	969	889	785	702	674
50°	744	631	656	688	787	694	631	545	487
52.5°	393	400	436	429	385	435	422	324	147
55°	97	126	200	145	74	158	195	92	31
57.5°	9	20	56	18	5	22	54	15	3
60°	3	3	9	2	2	2	9	2	2
62.5°	2	2	2	2	2	2	2	2	2
65°	2	2	2	2	2	2	2	2	2
67.5°	2	2	1	1	1	2	1	1	2
70°	2	2	1	1	1	1	1	1	1
72.5°	1	1	1	1	1	1	1	1	1
75°	1	1	1	1	1	1	1	1	1
77.5°	1	1	1	1	0	1	1	1	1
80°	0	1	1	1	0	1	1	1	1
82.5°	1	1	0	0	0	0	1	1	1
85°	0	0	0	0	0	0	0	0	1
87.5°	0	0	0	0	0	0	0	0	0
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)