

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: 116P107

Luminaire Tested: **EP3GX2024-2U3S34I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 116P107
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GX2024-2U3S34I-PAF
Description: 20" X 24" Recessed Troffer with a 3" deep
12 cell semi-specular parabolic louver.
Light Source: TWO-F40CW/U/3 - 2725 Lumens ea. - 40 Watts ea.
Ballast/Driver: Advance REL-2S40-RH-TP Electronic: L.O.B.F. = 84.2

Summary

Lumens per Lamp: 2725 (2 lamps)
Luminaire Lumens: 3048.7 lumens
Efficiency: 55.9%
Efficacy: 46.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.36 / 1.38
Luminous Opening: Rectangular (W 1.4' x L: 1.75' x H: 0')
CIE Type: Direct

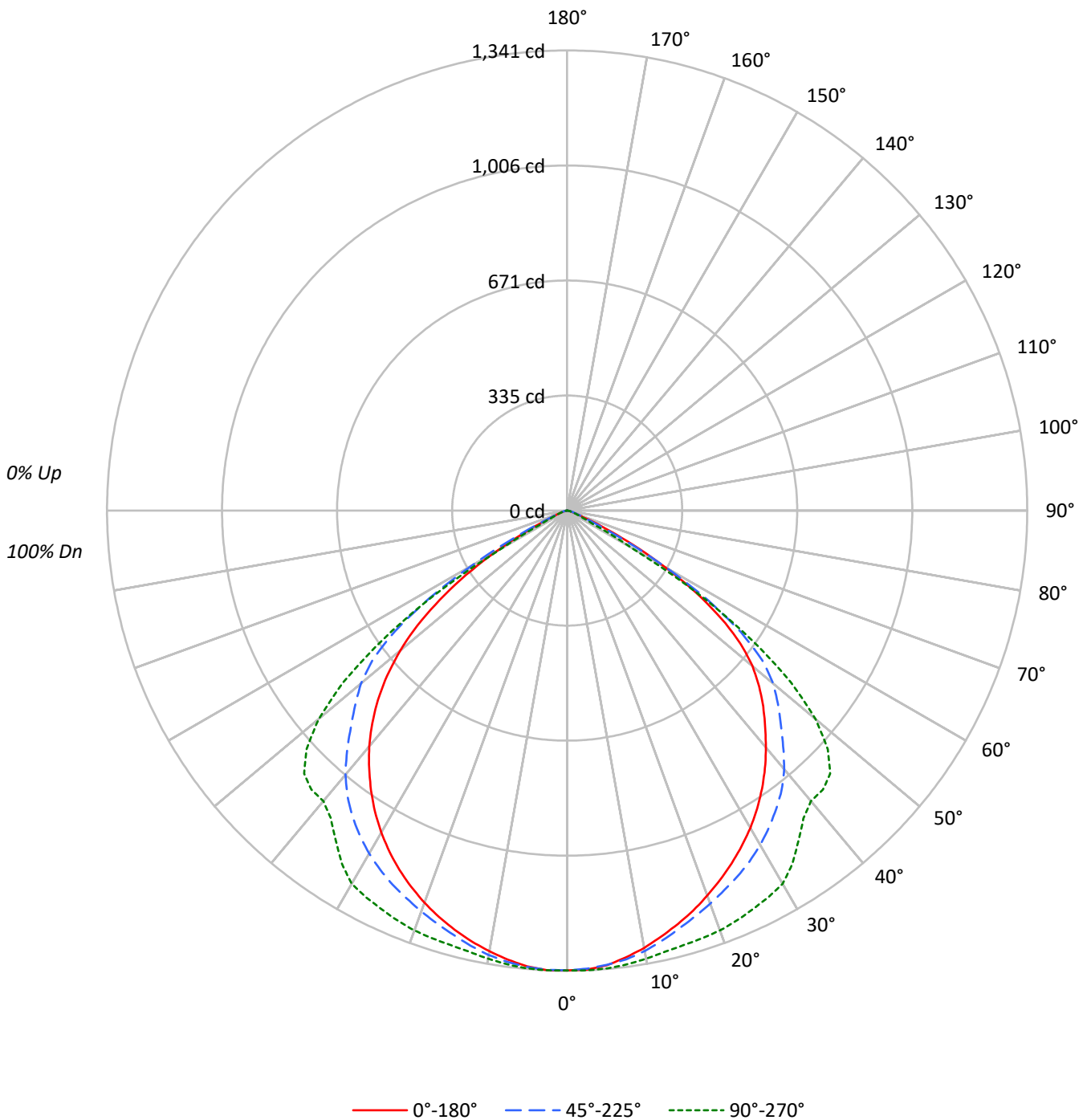
Input Watts (W): 65.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: 116P107

CATALOG NUMBER: EP3GX2024-2U3S34I-PAF

Luminous Intensity Polar Plot





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CATALOG NUMBER: EP3GX2024-2U3S34I-PAF

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	67	67	67	67	65	65	65	65	62	62	62	60	60	60	57	57	57	56
1	62	60	58	57	61	59	57	56	57	55	54	55	53	52	53	52	51	50
2	58	54	51	48	56	53	50	48	51	49	47	49	47	46	48	46	45	44
3	53	48	44	41	52	47	44	41	46	43	40	44	42	40	43	41	39	38
4	49	43	39	36	48	43	39	36	41	38	35	40	37	35	39	36	34	33
5	45	39	35	31	44	39	34	31	37	34	31	36	33	31	35	33	30	29
6	42	35	31	28	41	35	31	28	34	30	27	33	30	27	32	29	27	26
7	39	32	28	25	38	32	28	24	31	27	24	30	27	24	29	26	24	23
8	36	29	25	22	36	29	25	22	28	25	22	28	24	22	27	24	22	21
9	34	27	23	20	33	27	23	20	26	22	20	26	22	20	25	22	20	19
10	32	25	21	18	31	25	21	18	24	20	18	24	20	18	23	20	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	5905	5905	5905
5°	5883	5923	5897
10°	5790	5933	5835
15°	5689	5981	5771
20°	5599	6106	5702
25°	5514	6228	5621
30°	5434	6391	5511
35°	5326	6321	5358
40°	5183	6356	5160
45°	5035	6755	4861
50°	4833	6478	4353
55°	4218	5040	3480
60°	2900	1912	2124
65°	1272	532	813
70°	387	309	309
75°	221	204	170
80°	127	127	102
85°	51	51	51



TEST NUMBER: 116P107

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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	126.6	4.2	2.3	0°	1340	1340	1340	1340	1340	
10°-20°	361.1	11.8	6.6	5°	1330	1329	1339	1335	1333	126
20°-30°	553.3	18.1	10.2	15°	1247	1261	1311	1280	1265	352
30°-40°	672.3	22.1	12.3	25°	1134	1176	1281	1203	1156	523
40°-50°	696.8	22.9	12.8	35°	990	1062	1175	1090	996	619
50°-60°	509.5	16.7	9.3	45°	808	880	1084	891	780	622
60°-70°	110.8	3.6	2.0	55°	549	618	656	613	453	479
70°-80°	16.1	0.5	0.3	65°	122	91	51	86	78	140
80°-90°	2.2	0.1	0.0	75°	13	16	12	15	10	15
90°-100°	0.0	0.0	0.0	85°	1	2	1	2	1	2
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°	1041.1	34.1	19.1	165°	0	0	0	0	0	0
0°-40°	1713.4	56.2	31.4	175°	0	0	0	0	0	0
0°-60°	2919.7	95.8	53.6	180°	0	0	0	0	0	0
0°-90°	3048.7	100.0	55.9							
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°	3048.7	100.0	55.9							



TEST NUMBER: 116P107

CATALOG NUMBER: EP3GX2024-2U3S34I-PAF

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1340	1340	1340	1340	1340	1340	1340	1340	1340
2.5°	1339	1337	1336	1339	1341	1340	1339	1341	1341
5°	1330	1327	1329	1335	1339	1338	1335	1335	1333
7.5°	1313	1312	1319	1328	1334	1333	1327	1324	1320
10°	1294	1293	1303	1317	1326	1323	1315	1310	1304
12.5°	1271	1271	1283	1304	1317	1311	1299	1293	1286
15°	1247	1248	1261	1292	1311	1301	1280	1274	1265
17.5°	1222	1223	1240	1280	1307	1290	1262	1253	1242
20°	1194	1196	1219	1268	1302	1280	1243	1228	1216
22.5°	1165	1167	1197	1255	1293	1268	1223	1200	1187
25°	1134	1135	1176	1236	1281	1251	1203	1169	1156
27.5°	1102	1103	1152	1216	1270	1232	1180	1136	1121
30°	1068	1070	1125	1197	1256	1214	1154	1101	1083
32.5°	1030	1034	1095	1170	1221	1188	1124	1063	1042
35°	990	997	1062	1125	1175	1144	1090	1021	996
37.5°	947	958	1027	1074	1131	1092	1051	977	948
40°	901	916	984	1030	1105	1046	1005	930	897
42.5°	854	872	932	1002	1103	1018	949	880	841
45°	808	825	880	983	1084	1000	891	824	780
47.5°	759	772	833	940	1030	956	837	763	711
50°	705	713	783	866	945	882	784	695	635
52.5°	637	644	717	765	822	778	714	616	551
55°	549	557	618	627	656	637	613	521	453
57.5°	447	450	487	454	465	463	477	412	349
60°	329	331	336	278	217	280	323	292	241
62.5°	217	214	190	121	86	120	180	186	145
65°	122	123	91	62	51	62	86	106	78
67.5°	54	63	48	41	34	41	45	56	39
70°	30	33	32	29	24	29	30	31	24
72.5°	19	22	22	20	17	20	22	20	16
75°	13	15	16	15	12	14	15	14	10
77.5°	8	10	11	10	8	10	10	9	7
80°	5	6	7	7	5	6	7	6	4
82.5°	3	3	4	4	3	4	4	3	2
85°	1	1	2	2	1	2	2	1	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



TEST NUMBER: 116P107

CATALOG NUMBER: EP3GX2024-2U3S34I-PAF

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)