

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: 116P106

Luminaire Tested: **EP3GX2024-2U3S33I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 116P106
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GX2024-2U3S33I-PAF
Description: 20" X 24" Recessed Troffer with a 3" deep
9 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: 3193.2 lumens
Efficiency: 58.6%
Efficacy: 48.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.37 / 1.4
Luminous Opening: Rectangular (W 1.4' x L: 1.75' x H: 0')
CIE Type: Direct

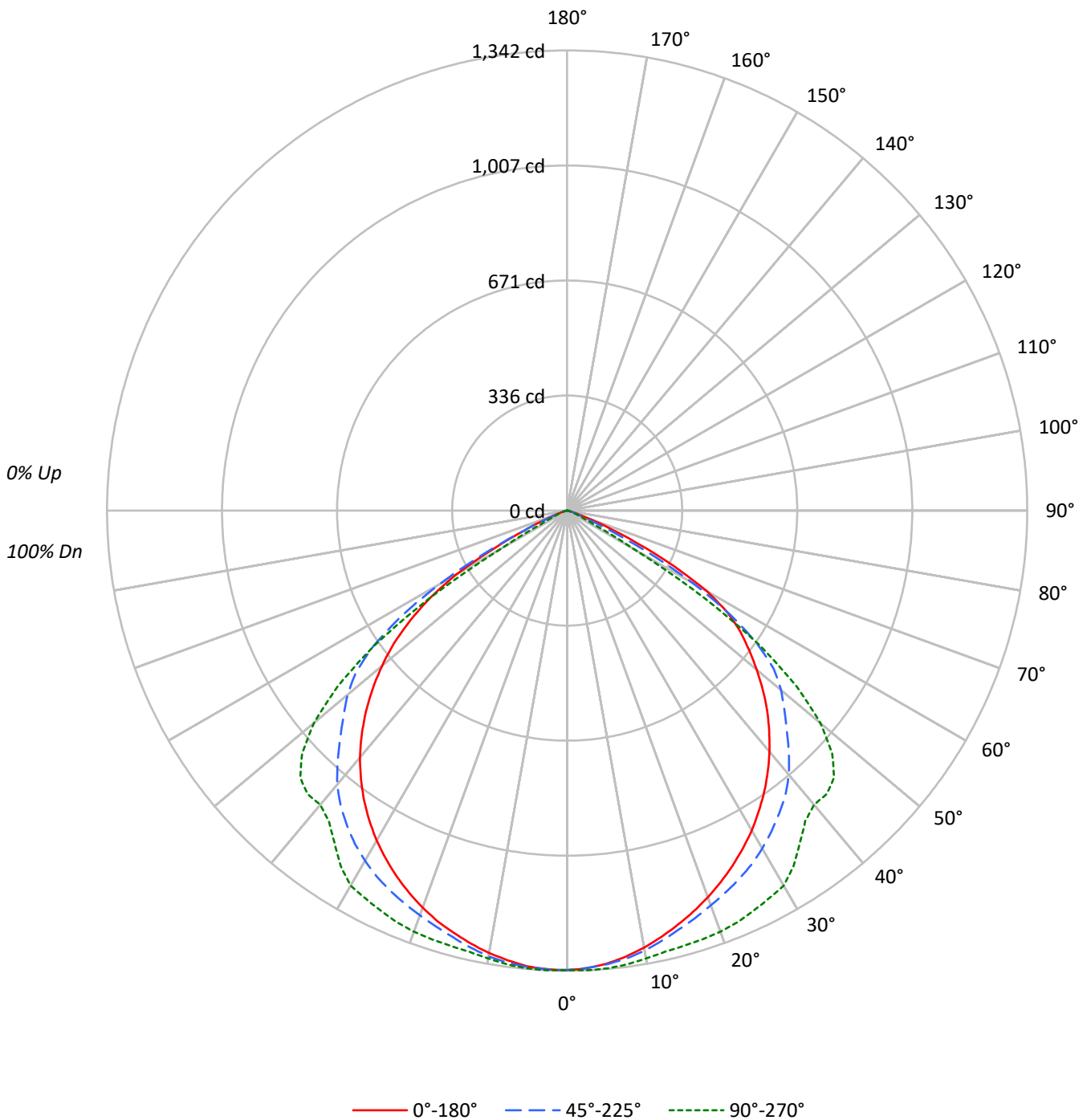
Input Watts (W): 66.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	70	70	70	70	68	68	68	68	65	65	65	62	62	62	60	60	60	59
1	65	63	61	59	64	62	60	58	59	58	56	57	56	55	55	54	53	52
2	60	56	53	50	59	55	52	50	53	51	48	51	49	47	50	48	46	45
3	56	50	46	43	54	49	46	43	48	44	42	46	43	41	45	42	40	39
4	51	45	40	37	50	44	40	37	43	39	36	42	38	36	40	38	35	34
5	47	40	36	32	46	40	35	32	39	35	32	38	34	31	36	33	31	30
6	44	37	32	28	43	36	31	28	35	31	28	34	30	28	33	30	28	26
7	41	33	28	25	40	33	28	25	32	28	25	31	27	25	30	27	25	23
8	38	30	26	22	37	30	25	22	29	25	22	28	25	22	28	24	22	21
9	35	28	23	20	34	28	23	20	27	23	20	26	23	20	26	22	20	19
10	33	26	21	18	32	25	21	18	25	21	18	24	21	18	24	20	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	5905	5905	5905
5°	5866	5927	5901
10°	5790	5933	5862
15°	5703	5995	5817
20°	5627	6129	5777
25°	5553	6258	5723
30°	5480	6427	5653
35°	5390	6364	5552
40°	5281	6443	5407
45°	5141	6861	5173
50°	4943	6609	4833
55°	4740	5278	4287
60°	4151	2018	3305
65°	2377	500	1439
70°	760	271	477
75°	255	170	204
80°	127	102	102
85°	51	51	51



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	126.6	4.0	2.3	0°	1340	1340	1340	1340	1340	
10°-20°	362.7	11.4	6.7	5°	1326	1328	1340	1336	1334	126
20°-30°	559.2	17.5	10.3	15°	1250	1264	1314	1288	1275	353
30°-40°	685.3	21.5	12.6	25°	1142	1186	1287	1223	1177	526
40°-50°	721.3	22.6	13.2	35°	1002	1078	1183	1120	1032	626
50°-60°	566.1	17.7	10.4	45°	825	905	1101	935	830	635
60°-70°	154.0	4.8	2.8	55°	617	676	687	691	558	545
70°-80°	16.2	0.5	0.3	65°	228	139	48	140	138	239
80°-90°	1.8	0.1	0.0	75°	15	13	10	14	12	22
90°-100°	0.0	0.0	0.0	85°	1	1	1	1	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°	1048.6	32.8	19.2	165°	0	0	0	0	0	0
0°-40°	1733.9	54.3	31.8	175°	0	0	0	0	0	0
0°-60°	3021.2	94.6	55.4	180°	0	0	0	0	0	0
0°-90°	3193.2	100.0	58.6							
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°	3193.2	100.0	58.6							



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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°	1336	1335	1335	1338	1342	1341	1339	1340	1339
5°	1326	1326	1328	1334	1340	1339	1336	1336	1334
7.5°	1312	1311	1318	1327	1335	1334	1330	1328	1323
10°	1294	1294	1303	1316	1326	1325	1320	1315	1310
12.5°	1273	1273	1284	1303	1318	1314	1305	1300	1294
15°	1250	1251	1264	1293	1314	1306	1288	1284	1275
17.5°	1226	1228	1245	1284	1311	1298	1272	1265	1256
20°	1200	1202	1225	1275	1307	1291	1256	1243	1232
22.5°	1172	1173	1206	1262	1299	1281	1240	1217	1206
25°	1142	1144	1186	1245	1287	1266	1223	1189	1177
27.5°	1110	1112	1164	1225	1275	1248	1203	1158	1145
30°	1077	1080	1138	1207	1263	1230	1179	1127	1111
32.5°	1040	1046	1109	1183	1229	1207	1152	1093	1073
35°	1002	1011	1078	1139	1183	1165	1120	1055	1032
37.5°	961	974	1046	1088	1141	1115	1085	1015	988
40°	918	934	1006	1046	1120	1073	1043	971	940
42.5°	872	891	957	1023	1121	1049	991	924	887
45°	825	845	905	1009	1101	1033	935	873	830
47.5°	774	795	859	967	1048	993	884	818	769
50°	721	742	814	898	964	922	836	757	705
52.5°	669	685	760	800	845	822	777	692	637
55°	617	624	676	670	687	687	691	618	558
57.5°	556	552	562	501	478	513	574	531	473
60°	471	456	423	308	229	314	431	427	375
62.5°	351	334	273	131	86	138	275	307	242
65°	228	208	139	61	48	63	140	184	138
67.5°	129	106	58	37	31	39	59	93	75
70°	59	50	30	25	21	26	31	45	37
72.5°	26	25	20	17	14	18	20	24	20
75°	15	15	13	12	10	12	14	15	12
77.5°	9	9	9	8	7	8	9	10	8
80°	5	6	6	5	4	5	6	6	4
82.5°	3	3	3	3	2	3	3	3	2
85°	1	1	1	1	1	1	1	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



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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)