

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: 109P157

Luminaire Tested: **2EP3GX-317S33I-PAF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 109P157  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2EP3GX-317S33I-PAF  
Description: 2 X 2 Recessed Troffer with a 3" deep  
9 cell semi-specular low iridescent  
parabolic louver.  
Light Source: Three-F17T8/735 - 1325 Lumens ea. - 17 Watts ea.  
Ballast/Driver: Triad-Utrad B332I120 Electronic

**Summary**

Lumens per Lamp: 1325 (3 lamps)  
Luminaire Lumens: 2947.0 lumens  
Efficiency: 74.1%  
Efficacy: 59.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.68 / 1.54  
Luminous Opening: Rectangular (W 1.73' x L: 1.75' x H: 0')  
CIE Type: Direct

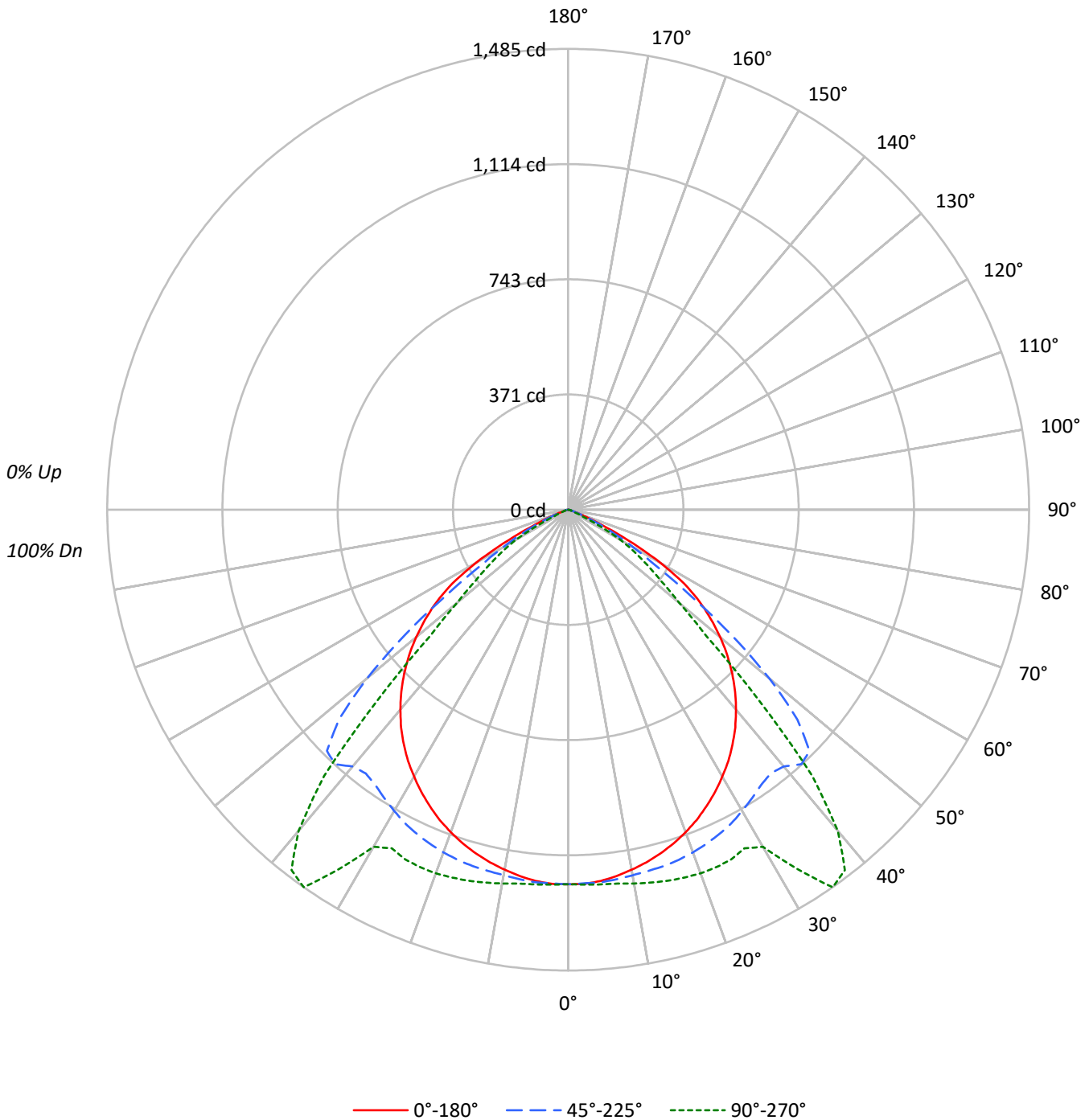
Input Watts (W): 49.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: 109P157

CATALOG NUMBER: 2EP3GX-317S33I-PAF

### Luminous Intensity Polar Plot





TEST NUMBER: 109P157

CATALOG NUMBER: 2EP3GX-317S33I-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	88	88	88	88	86	86	86	86	82	82	82		79	79	79		76	76	76	74
1	83	80	77	75	81	78	76	74	75	73	72		72	71	70		70	69	68	66
2	77	72	68	64	75	70	67	63	68	65	62		65	63	61		63	61	59	58
3	71	64	59	55	69	63	58	55	61	57	54		59	56	53		57	54	52	50
4	65	58	52	48	64	57	51	47	55	50	47		53	49	46		52	48	46	44
5	60	52	46	42	59	51	46	42	50	45	41		48	44	41		47	43	40	39
6	56	47	41	37	55	46	41	37	45	40	36		44	39	36		43	39	36	34
7	52	43	37	33	51	42	37	33	41	36	32		40	36	32		39	35	32	31
8	48	39	33	29	47	39	33	29	38	33	29		37	32	29		36	32	29	27
9	45	36	30	26	44	35	30	26	35	30	26		34	29	26		33	29	26	25
10	42	33	28	24	41	33	27	24	32	27	24		31	27	24		31	27	24	22

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

	0°	45°	90°
0°	4293	4293	4293
5°	4288	4303	4328
10°	4255	4320	4417
15°	4224	4378	4559
20°	4187	4448	4720
25°	4137	4525	4878
30°	4079	4604	5151
35°	4008	4703	6448
40°	3905	5015	6273
45°	3758	5528	4361
50°	3536	4687	2584
55°	3206	2933	1922
60°	2461	1714	1373
65°	1170	909	446
70°	364	312	166
75°	137	165	110
80°	61	123	82
85°	41	41	41



TEST NUMBER: 109P157

CATALOG NUMBER: 2EP3GX-317S33I-PAF

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	114.8	3.9	2.9	0°	1207	1207	1207	1207	1207	
10°-20°	336.7	11.4	8.5	5°	1201	1201	1205	1210	1212	114
20°-30°	530.6	18.0	13.3	15°	1147	1157	1189	1223	1238	324
30°-40°	711.7	24.1	17.9	25°	1054	1085	1153	1213	1243	486
40°-50°	703.3	23.9	17.7	35°	923	978	1083	1328	1485	577
50°-60°	412.3	14.0	10.4	45°	747	831	1099	1006	867	575
60°-70°	122.6	4.2	3.1	55°	517	621	473	320	310	453
70°-80°	13.4	0.5	0.3	65°	139	149	108	72	53	156
80°-90°	1.7	0.1	0.0	75°	10	12	12	11	8	13
90°-100°	0.0	0.0	0.0	85°	1	1	1	1	1	1
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°	982.1	33.3	24.7	165°	0	0	0	0	0	0
0°-40°	1693.8	57.5	42.6	175°	0	0	0	0	0	0
0°-60°	2809.3	95.3	70.7	180°	0	0	0	0	0	0
0°-90°	2947.0	100.0	74.1							
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°	2947.0	100.0	74.1							



TEST NUMBER: 109P157

CATALOG NUMBER: 2EP3GX-317S33I-PAF

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1207	1207	1207	1207	1207
2.5°	1207	1205	1205	1208	1209
5°	1201	1201	1205	1210	1212
7.5°	1191	1193	1201	1210	1215
10°	1178	1183	1196	1215	1223
12.5°	1164	1171	1192	1220	1231
15°	1147	1157	1189	1223	1238
17.5°	1128	1142	1183	1224	1243
20°	1106	1124	1175	1223	1247
22.5°	1082	1106	1165	1220	1247
25°	1054	1085	1153	1213	1243
27.5°	1025	1062	1139	1202	1230
30°	993	1037	1121	1190	1254
32.5°	960	1009	1102	1221	1372
35°	923	978	1083	1328	1485
37.5°	884	945	1071	1393	1464
40°	841	909	1080	1341	1351
42.5°	796	871	1112	1209	1164
45°	747	831	1099	1006	867
47.5°	696	788	1002	732	604
50°	639	742	847	519	467
52.5°	580	688	663	402	377
55°	517	621	473	320	310
57.5°	443	528	332	256	253
60°	346	408	241	197	193
62.5°	236	274	168	134	114
65°	139	149	108	72	53
67.5°	70	70	60	35	24
70°	35	36	30	21	16
72.5°	15	19	18	15	11
75°	10	12	12	11	8
77.5°	6	8	9	7	5
80°	3	5	6	5	4
82.5°	2	3	3	3	2
85°	1	1	1	1	1
87.5°	0	0	0	0	0
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



TEST NUMBER: 109P157

CATALOG NUMBER: 2EP3GX-317S33I-PAF

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)