

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: 109P168

Luminaire Tested: **2P2GX-317W33P-PAF**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 109P168  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2P2GX-317W33P-PAF  
Description: 2 X 2 Recessed Convertible Body Troffer with  
a painted white 9 cell parabolic louver.  
Light Source: Three-FO17T8/35K - 1325 Lumens ea. - 17 Watts ea.  
Ballast/Driver: Triad B332I120RH Electronic

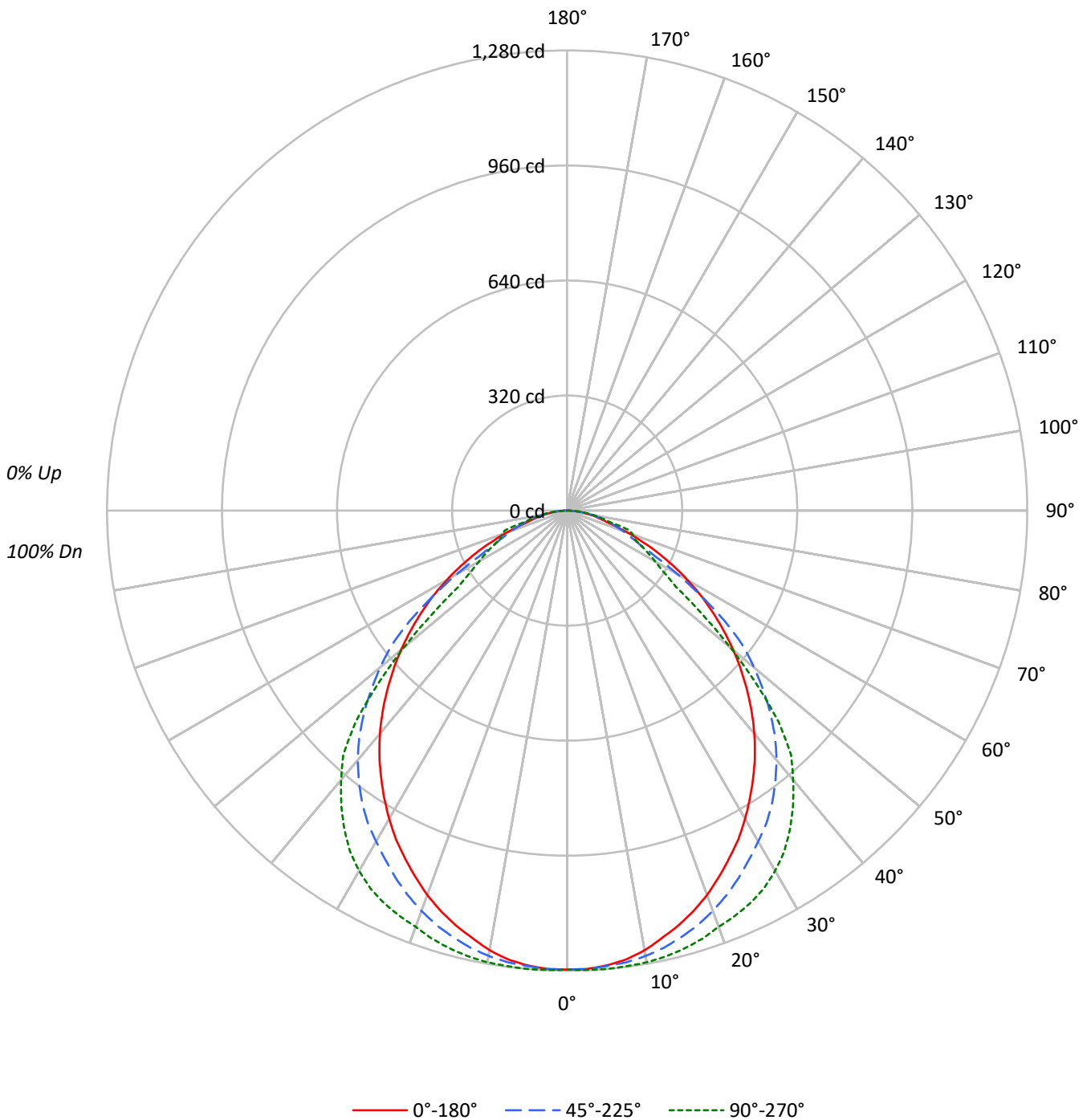
**Summary**

Lumens per Lamp: 1325 (3 lamps)  
Luminaire Lumens: 3052.7 lumens  
Efficiency: 76.8%  
Efficacy: 61.3 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.34  
Luminous Opening: Rectangular (W 1.66' x L: 1.76' 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: 109P168

CATALOG NUMBER: 2P2GX-317W33P-PAF

### Luminous Intensity Polar Plot





TEST NUMBER: 109P168

CATALOG NUMBER: 2P2GX-317W33P-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	50	30	10	0	
RCR																						
0	91	91	91	91	89	89	89	89	85	85	85	82	82	82	78	78	78	77				
1	84	81	78	76	82	79	77	74	76	74	72	73	72	70	71	69	68	66				
2	78	72	67	63	76	70	66	62	68	64	61	65	62	60	63	61	58	57				
3	71	64	58	54	69	63	57	53	60	56	52	58	55	51	56	53	50	49				
4	66	57	51	46	64	56	50	46	54	49	45	53	48	45	51	47	44	42				
5	61	51	45	40	59	51	45	40	49	44	40	48	43	39	46	42	39	37				
6	56	47	40	35	55	46	40	35	44	39	35	43	38	35	42	38	34	33				
7	52	42	36	32	51	42	36	31	41	35	31	40	35	31	39	34	31	29				
8	49	39	33	28	48	38	32	28	37	32	28	36	31	28	35	31	28	26				
9	46	36	30	26	45	35	29	25	34	29	25	34	29	25	33	28	25	24				
10	43	33	27	23	42	33	27	23	32	27	23	31	26	23	30	26	23	22				

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

	0°	45°	90°
0°	4728	4728	4728
5°	4720	4728	4757
10°	4670	4730	4797
15°	4581	4707	4834
20°	4484	4669	4854
25°	4359	4608	4923
30°	4233	4545	4947
35°	4082	4493	4886
40°	3915	4379	4727
45°	3707	4189	4357
50°	3473	3911	3410
55°	3195	3447	2382
60°	2866	2629	2096
65°	2453	1945	1954
70°	1927	1775	2100
75°	1473	1688	1745
80°	1386	1514	1620
85°	1232	1359	1444



TEST NUMBER: 109P168

CATALOG NUMBER: 2P2GX-317W33P-PAF

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	121.1	4.0	3.0	0°	1277	1277	1277	1277	1277	
10°-20°	346.5	11.4	8.7	5°	1270	1271	1272	1277	1280	120
20°-30°	521.9	17.1	13.1	15°	1195	1206	1228	1253	1261	337
30°-40°	619.6	20.3	15.6	25°	1067	1090	1128	1178	1205	492
40°-50°	599.7	19.6	15.1	35°	903	934	994	1053	1081	564
50°-60°	430.4	14.1	10.8	45°	708	741	800	830	832	546
60°-70°	250.7	8.2	6.3	55°	495	532	534	409	369	442
70°-80°	127.1	4.2	3.2	65°	280	298	222	220	223	277
80°-90°	35.8	1.2	0.9	75°	103	109	118	127	122	117
90°-100°	0.0	0.0	0.0	85°	29	30	32	33	34	31
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	2
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°	989.5	32.4	24.9	165°	0	0	0	0	0	0
0°-40°	1609.0	52.7	40.5	175°	0	0	0	0	0	0
0°-60°	2639.2	86.5	66.4	180°	0	0	0	0	0	0
0°-90°	3052.7	100.0	76.8							
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°	3052.7	100.0	76.8							



TEST NUMBER: 109P168

CATALOG NUMBER: 2P2GX-317W33P-PAF

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1277	1277	1277	1277	1277
2.5°	1276	1276	1276	1277	1279
5°	1270	1271	1272	1277	1280
7.5°	1259	1260	1267	1275	1278
10°	1242	1245	1258	1270	1276
12.5°	1218	1227	1245	1264	1270
15°	1195	1206	1228	1253	1261
17.5°	1168	1181	1209	1237	1249
20°	1138	1153	1185	1218	1232
22.5°	1103	1123	1158	1196	1220
25°	1067	1090	1128	1178	1205
27.5°	1031	1054	1095	1156	1185
30°	990	1016	1063	1127	1157
32.5°	947	976	1031	1093	1124
35°	903	934	994	1053	1081
37.5°	858	889	951	1005	1032
40°	810	841	906	950	978
42.5°	760	792	856	892	922
45°	708	741	800	830	832
47.5°	656	691	740	740	715
50°	603	640	679	628	592
52.5°	549	587	615	515	473
55°	495	532	534	409	369
57.5°	442	476	442	323	317
60°	387	418	355	280	283
62.5°	333	358	277	249	252
65°	280	298	222	220	223
67.5°	227	242	191	193	200
70°	178	188	164	175	194
72.5°	135	141	138	158	180
75°	103	109	118	127	122
77.5°	84	87	94	97	98
80°	65	67	71	75	76
82.5°	47	48	51	54	55
85°	29	30	32	33	34
87.5°	12	13	13	14	15
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: 109P168

CATALOG NUMBER: 2P2GX-317W33P-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)