

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: 104P171

Luminaire Tested: **2PGX-332S39M/I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 104P171
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-332S39M/I-PAF
Description: 2 X 4 Recessed Convertible Body Troffer with
a 4" deep 27 cell specular low iridescent
parabolic louver.
Light Source: Three-F32T8/35K - 2900 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B332I120 Electronic

Summary

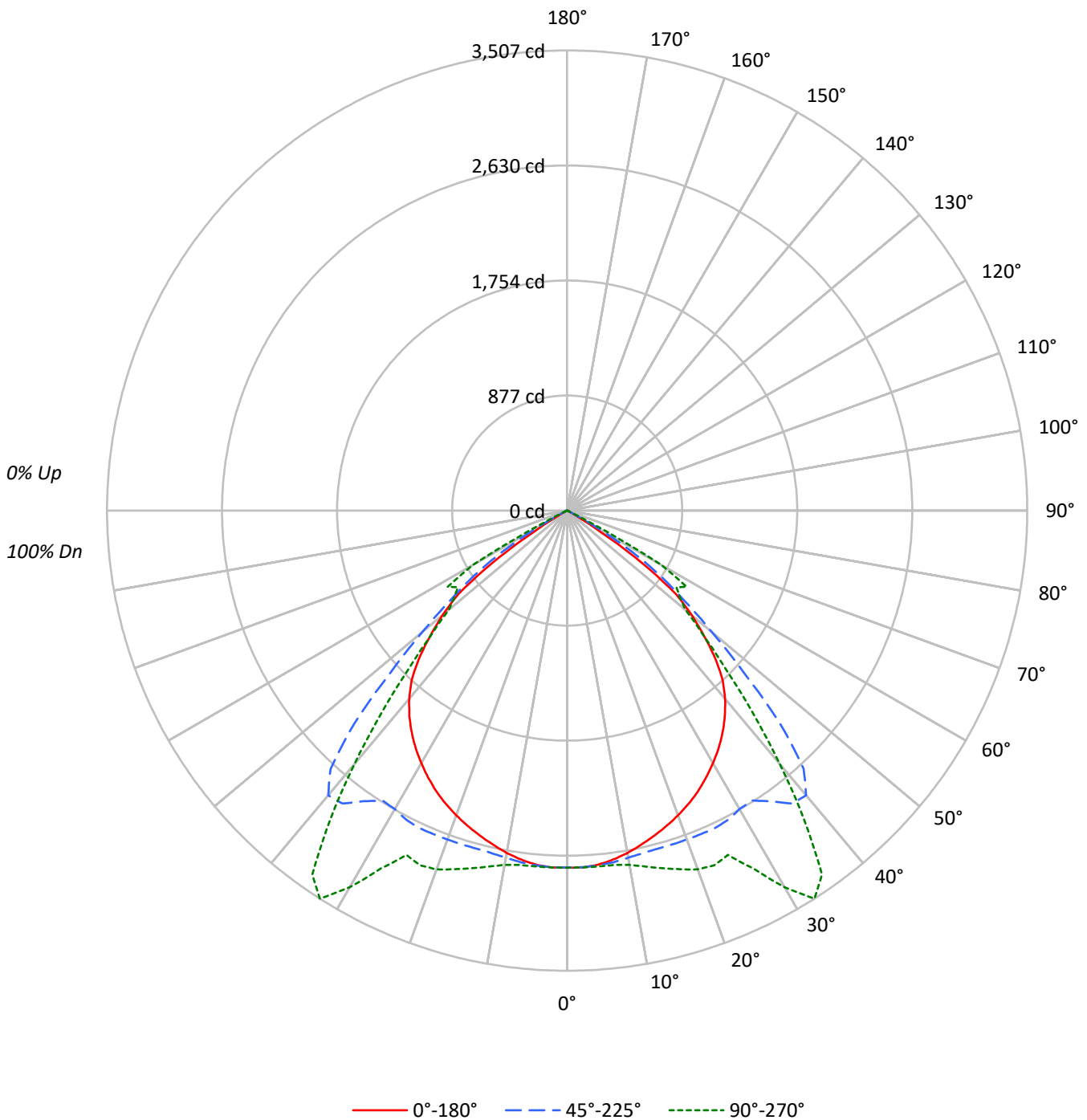
Lumens per Lamp: 2900 (3 lamps)
Luminaire Lumens: 6291.8 lumens
Efficiency: 72.3%
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.58 / 1.47
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 90.1
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



TEST NUMBER: 104P171
CATALOG NUMBER: 2PGX-332S39M/I-PAF

Luminous Intensity Polar Plot





TEST NUMBER: 104P171

CATALOG NUMBER: 2PGX-332S39M/I-PAF

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	50	30	10	0													
RCR																																					
0	86	86	86	86	84	84	84	84	80	80	80	77	77	77	74	74	74	72																			
1	81	78	76	74	79	77	75	73	74	72	71	71	70	69	69	67	67	65																			
2	75	71	67	64	74	69	66	63	67	64	62	65	62	60	63	61	59	58																			
3	70	64	59	55	68	63	58	55	61	57	54	59	56	53	57	54	52	51																			
4	65	58	52	48	63	57	52	48	55	51	47	53	50	47	52	49	46	45																			
5	60	52	47	42	59	51	46	42	50	45	42	49	45	41	47	44	41	40																			
6	56	47	42	38	54	47	41	37	45	41	37	44	40	37	43	40	37	35																			
7	52	43	38	34	51	43	37	33	42	37	33	41	36	33	40	36	33	32																			
8	48	39	34	30	47	39	34	30	38	33	30	37	33	30	36	33	30	28																			
9	45	36	31	27	44	36	31	27	35	30	27	34	30	27	34	30	27	26																			
10	42	33	28	25	41	33	28	25	32	28	25	32	27	24	31	27	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4477	4477	4477
5°	4475	4484	4498
10°	4428	4488	4580
15°	4369	4543	4807
20°	4327	4672	5096
25°	4285	4846	5258
30°	4222	4991	6297
35°	4148	5432	6802
40°	4023	6085	5415
45°	3723	5341	3977
50°	3169	3684	3010
55°	2043	2490	2915
60°	211	941	2712
65°	51	70	97
70°	38	43	48
75°	32	32	38
80°	28	28	38
85°	38	38	38



TEST NUMBER: 104P171

CATALOG NUMBER: 2PGX-332S39M/I-PAF

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	258.2	4.1	3.0	0°	2721	2721	2721	2721	2721	
10°-20°	759.8	12.1	8.7	5°	2709	2707	2715	2720	2723	257
20°-30°	1231.3	19.6	14.2	15°	2565	2583	2667	2777	2822	724
30°-40°	1678.8	26.7	19.3	25°	2360	2435	2669	2839	2896	1087
40°-50°	1481.0	23.5	17.0	35°	2065	2253	2704	3307	3386	1289
50°-60°	798.6	12.7	9.2	45°	1600	1989	2295	1782	1709	1218
60°-70°	76.4	1.2	0.9	55°	712	856	868	1033	1016	592
70°-80°	5.8	0.1	0.1	65°	13	14	18	30	25	19
80°-90°	1.8	0.0	0.0	75°	5	5	5	5	6	5
90°-100°	0.0	0.0	0.0	85°	2	2	2	2	2	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°	2249.4	35.8	25.9	165°	0	0	0	0	0	0
0°-40°	3928.1	62.4	45.2	175°	0	0	0	0	0	0
0°-60°	6207.7	98.7	71.4	180°	0	0	0	0	0	0
0°-90°	6291.8	100.0	72.3							
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°	6291.8	100.0	72.3							



TEST NUMBER: 104P171

CATALOG NUMBER: 2PGX-332S39M/I-PAF

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2721	2721	2721	2721	2721
2.5°	2722	2717	2720	2720	2722
5°	2709	2707	2715	2720	2723
7.5°	2683	2685	2703	2716	2724
10°	2650	2657	2686	2723	2741
12.5°	2608	2622	2673	2745	2779
15°	2565	2583	2667	2777	2822
17.5°	2520	2543	2668	2807	2866
20°	2471	2505	2668	2840	2910
22.5°	2419	2470	2668	2857	2926
25°	2360	2435	2669	2839	2896
27.5°	2294	2397	2656	2839	3076
30°	2222	2355	2627	3046	3314
32.5°	2148	2306	2619	3244	3507
35°	2065	2253	2704	3307	3386
37.5°	1975	2191	2814	3086	2965
40°	1873	2119	2833	2625	2521
42.5°	1755	2052	2668	2175	2096
45°	1600	1989	2295	1782	1709
47.5°	1417	1909	1822	1459	1409
50°	1238	1733	1439	1221	1176
52.5°	1043	1382	1120	1067	1081
55°	712	856	868	1033	1016
57.5°	285	412	588	942	1081
60°	64	122	286	591	824
62.5°	19	29	67	183	208
65°	13	14	18	30	25
67.5°	10	10	12	14	14
70°	8	8	9	10	10
72.5°	6	6	7	7	7
75°	5	5	5	5	6
77.5°	4	4	4	4	5
80°	3	3	3	3	4
82.5°	2	2	2	2	3
85°	2	2	2	2	2
87.5°	1	1	1	1	1
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: 104P171

CATALOG NUMBER: 2PGX-332S39M/I-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)