

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: 114P109

Luminaire Tested: **P2GX2048-332S36I-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 114P109
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: P2GX2048-332S36I-PAF
Description: 20 X 48 Recessed Convertible Body Troffer with a
2" deep 18 cell semi-specular parabolic louver.
Light Source: Three-FO32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Two-Triad B232I120RH Electronic; L.O.B.F. = 87.78,87.16

Summary

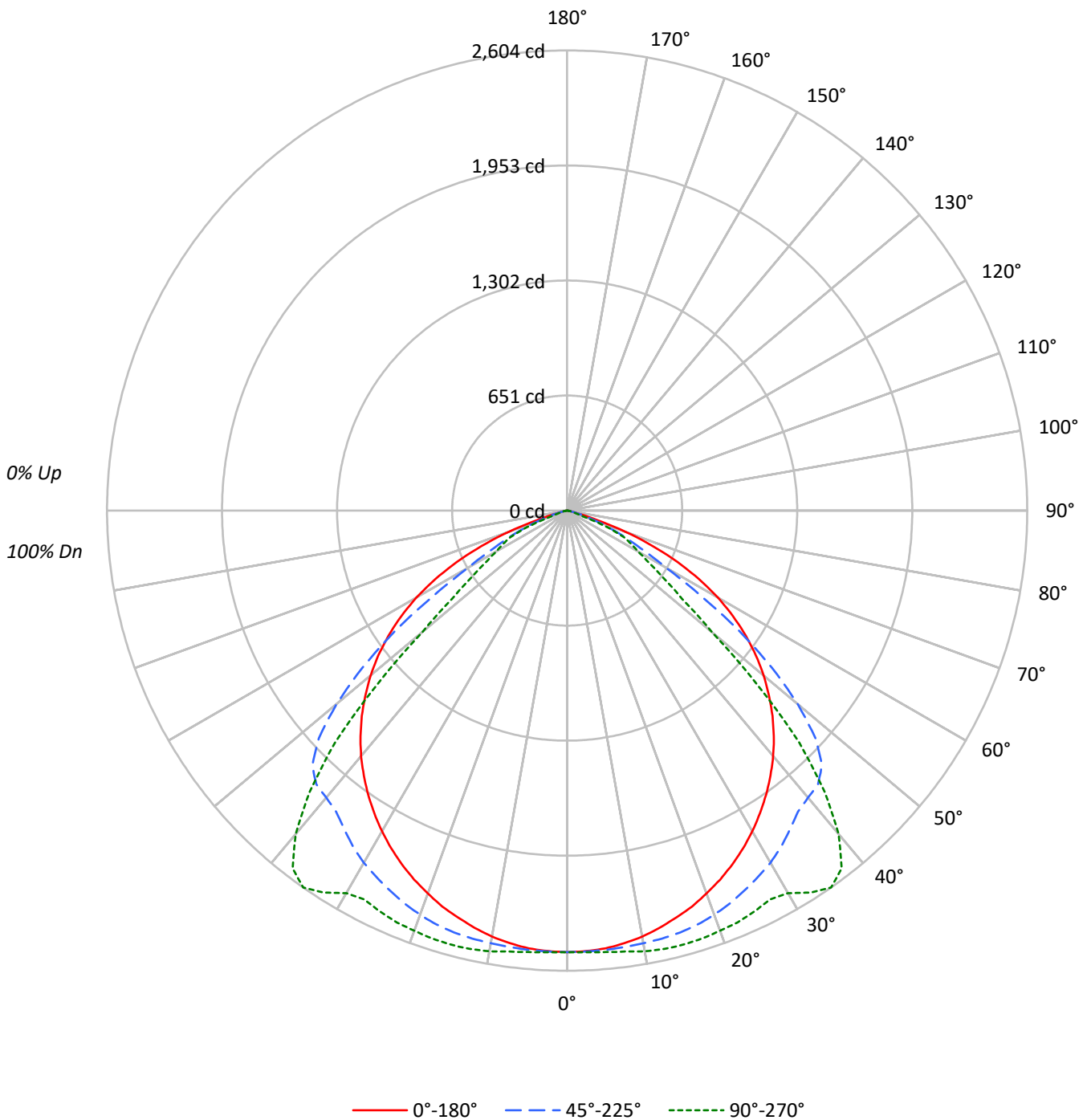
Lumens per Lamp: 2850 (3 lamps)
Luminaire Lumens: 6347.2 lumens
Efficiency: 74.2%
Efficacy: 68.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.55 / 1.5
Luminous Opening: Rectangular (W 1.49' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 92.7
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: 114P109

CATALOG NUMBER: P2GX2048-332S36I-PAF

Luminous Intensity Polar Plot





TEST NUMBER: 114P109

CATALOG NUMBER: P2GX2048-332S36I-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	88	88	88	88	86	86	86	86	82	82	82	79	79	79	76	76	76	74				
1	82	79	77	75	80	78	76	73	75	73	71	72	70	69	69	68	67	65				
2	76	71	66	63	74	69	65	62	67	64	61	65	62	59	62	60	58	57				
3	70	63	58	54	68	62	57	53	60	56	52	58	54	51	56	53	50	49				
4	64	56	51	46	63	55	50	46	54	49	45	52	48	45	50	47	44	43				
5	59	51	45	40	58	50	44	40	48	43	40	47	43	39	46	42	39	37				
6	55	46	40	35	54	45	39	35	44	39	35	43	38	35	42	37	34	33				
7	51	42	36	31	50	41	35	31	40	35	31	39	34	31	38	34	31	29				
8	48	38	32	28	46	38	32	28	37	31	28	36	31	28	35	31	27	26				
9	44	35	29	25	43	34	29	25	34	29	25	33	28	25	32	28	25	23				
10	42	32	27	23	41	32	26	23	31	26	23	30	26	23	30	26	22	21				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4815	4815	4815
5°	4811	4826	4851
10°	4790	4864	4954
15°	4756	4931	5073
20°	4727	4991	5188
25°	4699	5045	5324
30°	4664	5120	5560
35°	4618	5173	6126
40°	4563	5335	6009
45°	4477	5557	5061
50°	4350	5105	3208
55°	4146	3998	2234
60°	3792	2478	1788
65°	3142	1692	1614
70°	1966	1008	592
75°	447	409	238
80°	200	189	144
85°	111	111	88



TEST NUMBER: 114P109

CATALOG NUMBER: P2GX2048-332S36I-PAF

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	238.0	3.7	2.8	0°	2499	2499	2499	2499	2499	
10°-20°	697.2	11.0	8.2	5°	2487	2489	2495	2501	2508	236
20°-30°	1092.7	17.2	12.8	15°	2384	2407	2472	2525	2543	673
30°-40°	1403.6	22.1	16.4	25°	2210	2275	2373	2467	2504	1019
40°-50°	1420.3	22.4	16.6	35°	1963	2065	2199	2461	2604	1228
50°-60°	944.8	14.9	11.1	45°	1643	1760	2039	1953	1857	1265
60°-70°	466.8	7.4	5.5	55°	1234	1321	1190	719	665	1098
70°-80°	77.2	1.2	0.9	65°	689	695	371	330	354	671
80°-90°	6.6	0.1	0.1	75°	60	59	55	37	32	118
90°-100°	0.0	0.0	0.0	85°	5	6	5	4	4	7
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°	2027.9	31.9	23.7	165°	0	0	0	0	0	0
0°-40°	3431.4	54.1	40.1	175°	0	0	0	0	0	0
0°-60°	5796.5	91.3	67.8	180°	0	0	0	0	0	0
0°-90°	6347.2	100.0	74.2							
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°	6347.2	100.0	74.2							



TEST NUMBER: 114P109

CATALOG NUMBER: P2GX2048-332S36I-PAF

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2499	2499	2499	2499	2499
2.5°	2495	2496	2497	2499	2502
5°	2487	2489	2495	2501	2508
7.5°	2470	2476	2491	2507	2517
10°	2448	2458	2486	2518	2532
12.5°	2418	2434	2481	2525	2541
15°	2384	2407	2472	2525	2543
17.5°	2350	2378	2456	2516	2539
20°	2305	2346	2434	2500	2530
22.5°	2261	2313	2406	2485	2522
25°	2210	2275	2373	2467	2504
27.5°	2155	2231	2338	2434	2482
30°	2096	2182	2301	2407	2499
32.5°	2031	2127	2255	2420	2563
35°	1963	2065	2199	2461	2604
37.5°	1890	1999	2147	2464	2552
40°	1814	1925	2121	2380	2389
42.5°	1731	1846	2101	2200	2155
45°	1643	1760	2039	1953	1857
47.5°	1549	1668	1906	1649	1465
50°	1451	1565	1703	1282	1070
52.5°	1347	1449	1459	933	821
55°	1234	1321	1190	719	665
57.5°	1113	1195	896	580	548
60°	984	1057	643	473	464
62.5°	842	891	486	393	407
65°	689	695	371	330	354
67.5°	524	485	269	255	244
70°	349	291	179	148	105
72.5°	178	141	108	58	50
75°	60	59	55	37	32
77.5°	29	29	27	24	21
80°	18	19	17	15	13
82.5°	11	11	10	9	8
85°	5	6	5	4	4
87.5°	2	2	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: 114P109

CATALOG NUMBER: P2GX2048-332S36I-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)