

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: 188P109

Luminaire Tested: **2EP3GX-332W36P-2BC-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 188P109
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-332W36P-2BC-PAF
Description: 2 X 4 Recessed Convertible Body Troffer with a
3" deep 18 cell white painted parabolic louver.
Light Source: Three - FO32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B332I120RH Electronic - L.O.B.F. = 88.9

Summary

Lumens per Lamp: 2850 (3 lamps)
Luminaire Lumens: 6217.0 lumens
Efficiency: 72.7%
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.26 / 1.27
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

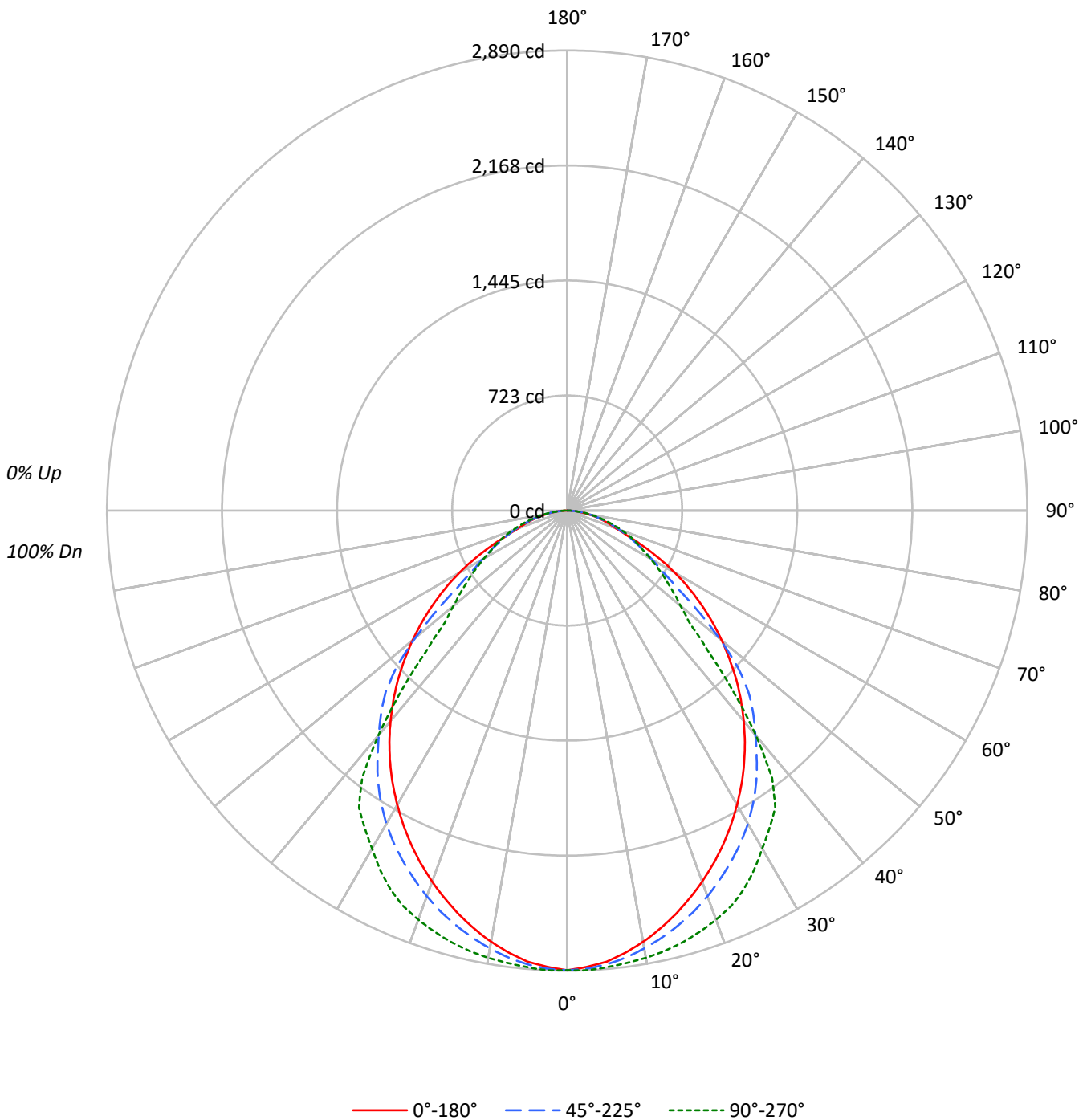
Input Watts (W): 86.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: 188P109

CATALOG NUMBER: 2EP3GX-332W36P-2BC-PAF

Luminous Intensity Polar Plot





TEST NUMBER: 188P109

CATALOG NUMBER: 2EP3GX-332W36P-2BC-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	87	87	87	87	85	85	85	85	81	81	81	77	77	77	74	74	74	73
1	80	77	74	72	78	75	73	71	72	70	68	70	68	66	67	66	64	63
2	74	68	64	60	72	67	63	60	65	61	58	62	59	57	60	58	56	54
3	68	61	56	51	66	60	55	51	58	54	50	56	52	49	54	51	48	47
4	63	55	49	44	61	54	48	44	52	47	44	50	46	43	49	45	42	41
5	58	49	43	39	57	49	43	39	47	42	38	46	41	38	44	41	38	36
6	54	45	39	34	53	44	38	34	43	38	34	42	37	34	41	37	33	32
7	50	41	35	31	49	40	35	31	39	34	31	38	34	30	37	33	30	29
8	47	38	32	28	46	37	32	28	36	31	28	35	31	27	34	30	27	26
9	44	35	29	25	43	34	29	25	33	28	25	33	28	25	32	28	25	24
10	41	32	27	23	40	32	26	23	31	26	23	30	26	23	30	26	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4792	4792	4792
5°	4739	4767	4797
10°	4635	4706	4807
15°	4513	4635	4822
20°	4381	4554	4830
25°	4242	4458	4808
30°	4090	4353	4698
35°	3927	4201	4618
40°	3740	3985	4000
45°	3526	3782	2948
50°	3272	3218	2404
55°	2972	2434	2188
60°	2596	2052	2005
65°	2066	1854	1905
70°	1597	1679	1781
75°	1456	1539	1635
80°	1310	1396	1491
85°	1124	1200	1295



TEST NUMBER: 188P109

CATALOG NUMBER: 2EP3GX-332W36P-2BC-PAF

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	271.0	4.4	3.2	0°	2887	2887	2887	2887	2887	
10°-20°	762.7	12.3	8.9	5°	2844	2851	2861	2872	2879	268
20°-30°	1126.8	18.1	13.2	15°	2626	2644	2697	2768	2806	739
30°-40°	1294.9	20.8	15.1	25°	2316	2345	2434	2549	2625	1066
40°-50°	1137.3	18.3	13.3	35°	1938	1978	2073	2173	2279	1211
50°-60°	799.4	12.9	9.3	45°	1502	1544	1611	1368	1256	1156
60°-70°	496.4	8.0	5.8	55°	1027	1058	841	747	756	917
70°-80°	256.2	4.1	3.0	65°	526	539	472	467	485	528
80°-90°	72.3	1.2	0.8	75°	227	231	240	250	255	242
90°-100°	0.0	0.0	0.0	85°	59	60	63	66	68	64
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	3
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°	2160.6	34.8	25.3	165°	0	0	0	0	0	0
0°-40°	3455.5	55.6	40.4	175°	0	0	0	0	0	0
0°-60°	5392.1	86.7	63.1	180°	0	0	0	0	0	0
0°-90°	6217.0	100.0	72.7							
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°	6217.0	100.0	72.7							



TEST NUMBER: 188P109

CATALOG NUMBER: 2EP3GX-332W36P-2BC-PAF

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2887	2887	2887	2887	2887
2.5°	2869	2873	2880	2885	2890
5°	2844	2851	2861	2872	2879
7.5°	2801	2812	2831	2853	2866
10°	2750	2762	2792	2830	2852
12.5°	2691	2705	2747	2803	2833
15°	2626	2644	2697	2768	2806
17.5°	2554	2575	2641	2722	2773
20°	2480	2503	2578	2673	2734
22.5°	2400	2427	2507	2617	2689
25°	2316	2345	2434	2549	2625
27.5°	2227	2260	2356	2471	2544
30°	2134	2170	2271	2370	2451
32.5°	2038	2077	2176	2267	2365
35°	1938	1978	2073	2173	2279
37.5°	1834	1874	1956	2069	2113
40°	1726	1768	1839	1889	1846
42.5°	1615	1659	1731	1636	1550
45°	1502	1544	1611	1368	1256
47.5°	1384	1428	1451	1111	1040
50°	1267	1308	1246	931	931
52.5°	1148	1185	1035	833	840
55°	1027	1058	841	747	756
57.5°	906	930	704	669	678
60°	782	806	618	597	604
62.5°	654	676	541	528	536
65°	526	539	472	467	485
67.5°	405	419	407	417	430
70°	329	336	346	359	367
72.5°	276	281	292	303	310
75°	227	231	240	250	255
77.5°	181	184	191	200	205
80°	137	140	146	153	156
82.5°	97	98	103	109	111
85°	59	60	63	66	68
87.5°	25	25	26	27	28
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: 188P109

CATALOG NUMBER: 2EP3GX-332W36P-2BC-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)