

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: 114P110

Luminaire Tested: **EP3GX-2048-332S36I-2BC-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 114P110
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GX-2048-332S36I-2BC-PAF
Description: 20" X 48" Recessed Troffer with a 3" deep 18 cell semi-specular parabolic louver.
Light Source: Three F32T8/35K - 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: 6056.0 lumens
Efficiency: 70.8%
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.42 / 1.38
Luminous Opening: Rectangular (W 1.4' x L: 3.75' x H: 0')
CIE Type: Direct

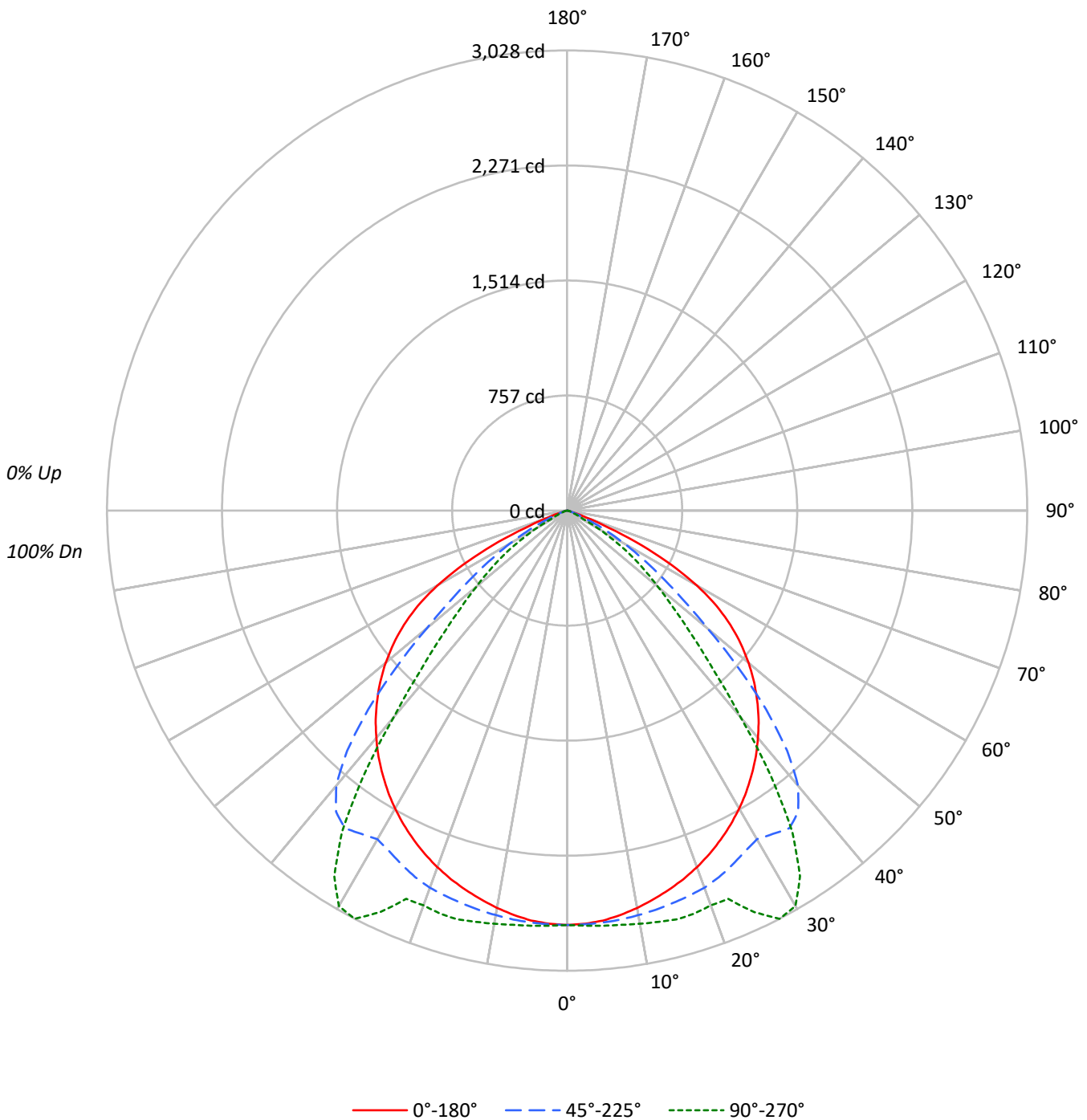
Input Watts (W): 86.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: 114P110

CATALOG NUMBER: EP3GX-2048-332S36I-2BC-PAF

Luminous Intensity Polar Plot





TEST NUMBER: 114P110

CATALOG NUMBER: EP3GX-2048-332S36I-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	84	84	84	84	82	82	82	82	79	79	79		75	75	75		72	72	72	71
1	79	76	74	72	77	75	73	71	72	70	69		69	68	67		67	66	65	63
2	73	69	65	62	72	67	64	61	65	62	60		63	60	58		61	59	57	56
3	68	62	57	53	66	61	56	53	59	55	52		57	54	51		55	53	50	49
4	63	56	50	46	61	55	50	46	53	49	46		52	48	45		50	47	44	43
5	58	50	45	41	57	50	45	41	48	44	40		47	43	40		46	42	39	38
6	54	46	40	36	53	45	40	36	44	39	36		43	39	35		42	38	35	34
7	50	42	36	32	49	41	36	32	40	35	32		39	35	32		38	35	32	30
8	47	38	33	29	46	38	33	29	37	32	29		36	32	29		35	31	29	27
9	44	35	30	26	43	35	30	26	34	29	26		33	29	26		33	29	26	25
10	41	33	27	24	40	32	27	24	32	27	24		31	27	24		30	26	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5608	5608	5608
5°	5590	5617	5660
10°	5544	5644	5765
15°	5501	5695	5929
20°	5464	5780	6049
25°	5423	5836	6614
30°	5376	5929	7136
35°	5317	6404	6484
40°	5245	6346	4770
45°	5145	5383	3382
50°	4988	3868	2495
55°	4700	2696	1825
60°	4055	1785	999
65°	2642	886	355
70°	800	337	216
75°	246	207	151
80°	130	142	107
85°	71	71	47



TEST NUMBER: 114P110

CATALOG NUMBER: EP3GX-2048-332S36I-2BC-PAF

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	259.3	4.3	3.0	0°	2727	2727	2727	2727	2727	
10°-20°	757.4	12.5	8.9	5°	2708	2710	2721	2732	2742	257
20°-30°	1206.7	19.9	14.1	15°	2584	2610	2675	2750	2785	729
30°-40°	1499.7	24.8	17.5	25°	2390	2451	2572	2717	2915	1101
40°-50°	1251.6	20.7	14.6	35°	2118	2219	2551	2641	2583	1325
50°-60°	788.4	13.0	9.2	45°	1769	1882	1851	1271	1163	1362
60°-70°	256.7	4.2	3.0	55°	1311	1347	752	542	509	1159
70°-80°	32.2	0.5	0.4	65°	543	355	182	92	73	534
80°-90°	4.1	0.1	0.0	75°	31	31	26	22	19	47
90°-100°	0.0	0.0	0.0	85°	3	3	3	3	2	4
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°	2223.4	36.7	26.0	165°	0	0	0	0	0	0
0°-40°	3723.1	61.5	43.5	175°	0	0	0	0	0	0
0°-60°	5763.1	95.2	67.4	180°	0	0	0	0	0	0
0°-90°	6056.0	100.0	70.8							
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°	6056.0	100.0	70.8							



TEST NUMBER: 114P110

CATALOG NUMBER: EP3GX-2048-332S36I-2BC-PAF

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2727	2727	2727	2727	2727
2.5°	2721	2722	2725	2728	2734
5°	2708	2710	2721	2732	2742
7.5°	2684	2691	2714	2735	2749
10°	2655	2668	2703	2741	2761
12.5°	2620	2640	2691	2746	2772
15°	2584	2610	2675	2750	2785
17.5°	2543	2576	2659	2744	2781
20°	2497	2539	2641	2722	2764
22.5°	2446	2497	2611	2697	2766
25°	2390	2451	2572	2717	2915
27.5°	2329	2399	2530	2854	3028
30°	2264	2345	2497	2900	3005
32.5°	2194	2285	2522	2829	2852
35°	2118	2219	2551	2641	2583
37.5°	2039	2144	2498	2354	2204
40°	1954	2063	2364	1975	1777
42.5°	1865	1977	2143	1587	1427
45°	1769	1882	1851	1271	1163
47.5°	1668	1778	1522	1032	951
50°	1559	1674	1209	837	780
52.5°	1440	1537	954	677	641
55°	1311	1347	752	542	509
57.5°	1166	1113	581	411	365
60°	986	850	434	278	243
62.5°	772	587	301	172	120
65°	543	355	182	92	73
67.5°	299	186	97	61	51
70°	133	89	56	43	36
72.5°	57	48	38	31	26
75°	31	31	26	22	19
77.5°	18	20	18	15	13
80°	11	13	12	10	9
82.5°	6	7	7	6	5
85°	3	3	3	3	2
87.5°	0	1	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: 114P110

CATALOG NUMBER: EP3GX-2048-332S36I-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)