

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: 115P147

Luminaire Tested: **EP3GX-232W18P-PAF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 115P147  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: EP3GX-232W18P-PAF  
Description: 1 X 4 Convertible Body Troffer with an 8 cell  
white parabolic louver.  
Light Source: Two - FO32T8/35K - 2850 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 87.6

**Summary**

Lumens per Lamp: 2850 (2 lamps)  
Luminaire Lumens: 4115.7 lumens  
Efficiency: 72.2%  
Efficacy: 71.7 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.36 / 1.3  
Luminous Opening: Rectangular (W 0.73' x L: 3.75' x H: 0')  
CIE Type: Direct

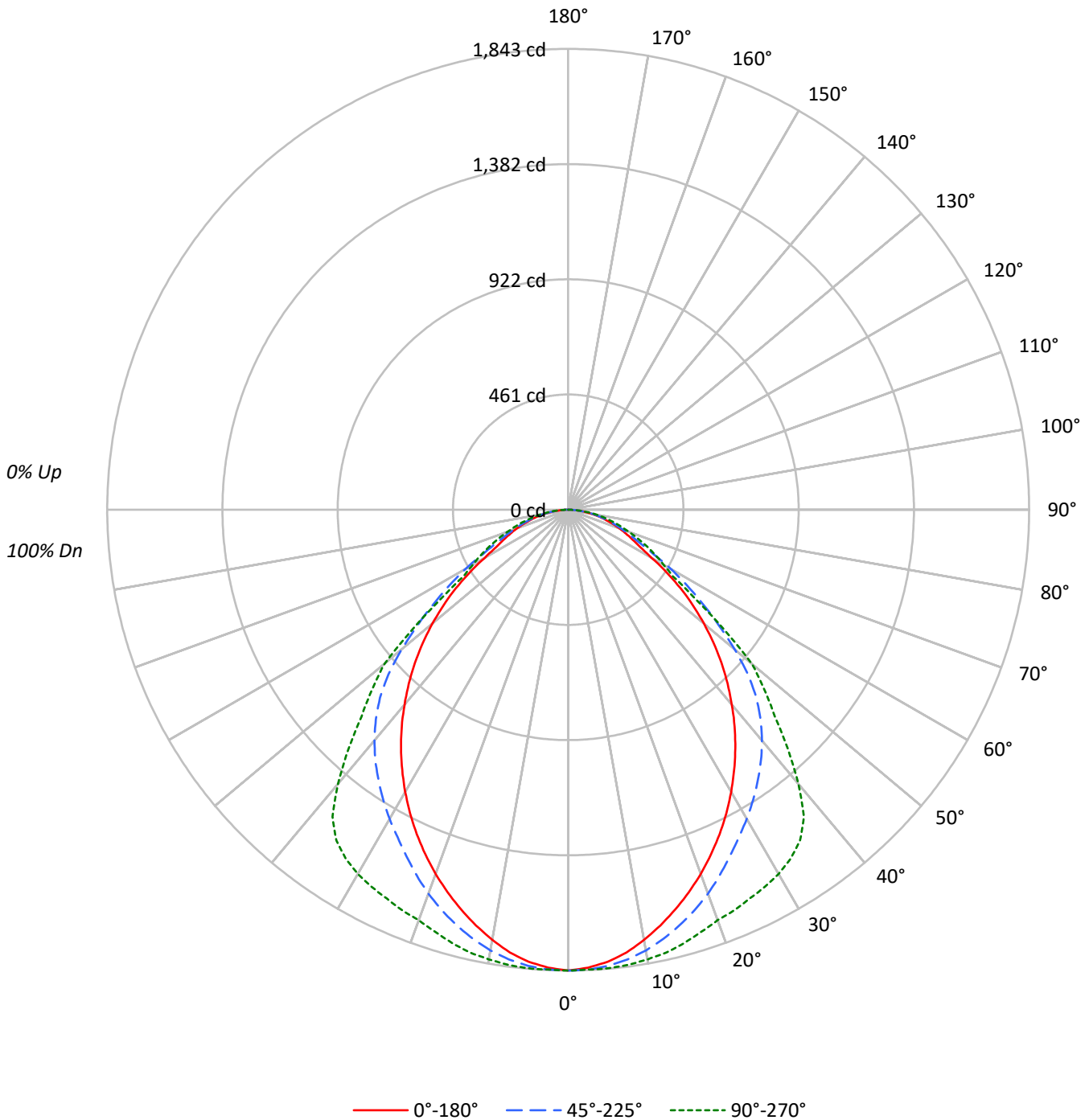
Input Watts (W): 57.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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	86	86	86	86	84	84	84	84	80	80	80	77	77	77	74	74	74	72
1	79	76	74	71	78	75	72	70	72	70	68	69	67	66	66	65	64	62
2	73	68	63	60	71	66	62	59	64	60	58	62	59	56	59	57	55	54
3	67	60	55	51	65	59	54	50	57	53	49	55	52	48	53	50	48	46
4	62	54	48	44	60	53	48	43	51	47	43	50	46	42	48	45	42	40
5	57	49	43	38	56	48	42	38	46	41	38	45	41	37	44	40	37	35
6	53	44	38	34	52	43	38	34	42	37	33	41	36	33	40	36	33	31
7	49	40	34	30	48	40	34	30	39	33	30	38	33	30	37	33	29	28
8	46	37	31	27	45	36	31	27	35	30	27	35	30	27	34	30	27	25
9	43	34	28	24	42	34	28	24	33	28	24	32	27	24	31	27	24	23
10	41	31	26	22	40	31	26	22	30	26	22	30	25	22	29	25	22	21

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

	0°	45°	90°
0°	7255	7255	7255
5°	7172	7235	7274
10°	6983	7155	7299
15°	6744	7013	7311
20°	6493	6845	7318
25°	6220	6641	7453
30°	5923	6491	7645
35°	5598	6353	7765
40°	5231	6192	7358
45°	4821	5923	6502
50°	4336	5316	5873
55°	3761	4502	4241
60°	3039	3724	3464
65°	2655	2953	3232
70°	2497	2647	2958
75°	2342	2479	2783
80°	2154	2290	2584
85°	1897	1987	2258



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	173.4	4.2	3.0	0°	1843	1843	1843	1843	1843	
10°-20°	485.6	11.8	8.5	5°	1815	1819	1831	1843	1841	171
20°-30°	716.0	17.4	12.6	15°	1655	1675	1721	1776	1794	466
30°-40°	843.6	20.5	14.8	25°	1432	1462	1529	1646	1716	658
40°-50°	791.5	19.2	13.9	35°	1165	1202	1322	1501	1616	727
50°-60°	560.1	13.6	9.8	45°	866	912	1064	1117	1168	667
60°-70°	318.6	7.7	5.6	55°	548	607	656	639	618	489
70°-80°	175.7	4.3	3.1	65°	285	293	317	332	347	287
80°-90°	51.2	1.2	0.9	75°	154	156	163	174	183	163
90°-100°	0.0	0.0	0.0	85°	42	43	44	47	50	45
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°	1374.9	33.4	24.1	165°	0	0	0	0	0	0
0°-40°	2218.6	53.9	38.9	175°	0	0	0	0	0	0
0°-60°	3570.2	86.7	62.6	180°	0	0	0	0	0	0
0°-90°	4115.7	100.0	72.2							
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°	4115.7	100.0	72.2							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1843	1843	1843	1843	1843
2.5°	1833	1834	1841	1846	1841
5°	1815	1819	1831	1843	1841
7.5°	1786	1793	1814	1835	1836
10°	1747	1758	1790	1821	1826
12.5°	1703	1718	1758	1802	1814
15°	1655	1675	1721	1776	1794
17.5°	1604	1626	1680	1743	1770
20°	1550	1574	1634	1708	1747
22.5°	1492	1519	1583	1676	1734
25°	1432	1462	1529	1646	1716
27.5°	1369	1402	1477	1615	1701
30°	1303	1338	1428	1583	1682
32.5°	1235	1272	1376	1547	1655
35°	1165	1202	1322	1501	1616
37.5°	1093	1131	1266	1445	1548
40°	1018	1059	1205	1360	1432
42.5°	943	986	1138	1243	1301
45°	866	912	1064	1117	1168
47.5°	788	839	975	994	1063
50°	708	763	868	890	959
52.5°	629	686	760	786	780
55°	548	607	656	639	618
57.5°	467	524	563	512	496
60°	386	435	473	424	440
62.5°	324	350	385	376	394
65°	285	293	317	332	347
67.5°	250	255	270	288	301
70°	217	221	230	246	257
72.5°	185	188	196	210	221
75°	154	156	163	174	183
77.5°	124	126	131	141	148
80°	95	97	101	108	114
82.5°	68	69	72	77	82
85°	42	43	44	47	50
87.5°	18	18	18	19	21
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



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**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)