

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: 115P142

Luminaire Tested: **EP3GX-332S18I-PAF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 115P142  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: EP3GX-332S18I-PAF  
Description: 1 X 4 Recessed Convertible Body Troffer with a  
3" deep 8 cell semi-specular low iridescent  
parabolic louver.  
Light Source: Three-FO32T8/35K - 2850 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Triad B332I120RH Electronic: L.O.B.F.= 88.9

**Summary**

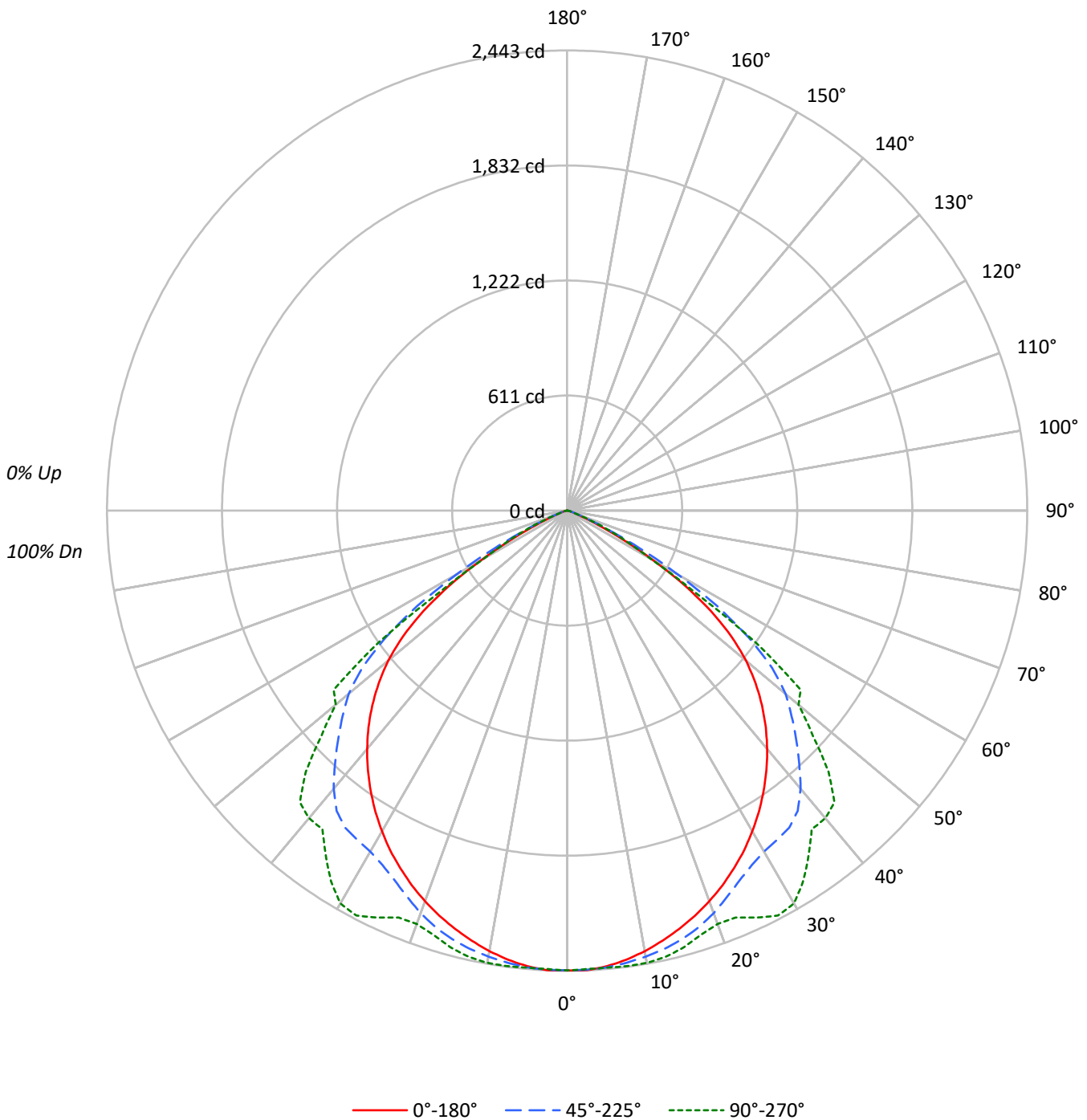
Lumens per Lamp: 2850 (3 lamps)  
Luminaire Lumens: 5764.9 lumens  
Efficiency: 67.4%  
Efficacy: 69.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.41 / 1.42  
Luminous Opening: Rectangular (W 0.73' x L: 3.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 83.3  
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



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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	80	80	80	80	78	78	78	78	75	75	75		72	72	72		69	69	69	67
1	75	73	70	68	73	71	69	67	68	67	65		66	64	63		63	62	61	60
2	69	65	61	58	68	64	60	57	61	58	56		59	57	55		57	55	54	52
3	64	58	53	50	62	57	53	49	55	51	48		53	50	47		52	49	47	45
4	59	52	47	43	58	51	46	43	49	45	42		48	44	41		47	43	41	40
5	55	47	41	37	53	46	41	37	45	40	37		43	39	36		42	39	36	35
6	51	42	37	33	49	42	37	33	41	36	32		39	35	32		38	35	32	31
7	47	38	33	29	46	38	33	29	37	32	29		36	32	29		35	31	29	27
8	44	35	30	26	43	35	30	26	34	29	26		33	29	26		32	28	26	24
9	41	32	27	24	40	32	27	23	31	27	23		30	26	23		30	26	23	22
10	38	30	25	21	37	29	25	21	29	24	21		28	24	21		28	24	21	20

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

	0°	45°	90°
0°	9609	9609	9609
5°	9594	9618	9626
10°	9493	9609	9745
15°	9369	9601	9776
20°	9245	9526	9785
25°	9099	9408	10354
30°	8936	9500	10945
35°	8736	9875	10740
40°	8489	9907	10955
45°	8144	9575	10922
50°	7594	9278	9817
55°	6403	8084	8393
60°	4149	5361	4031
65°	1704	2235	2198
70°	564	760	598
75°	319	395	319
80°	181	249	227
85°	90	135	135



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	231.4	4.0	2.7	0°	2441	2441	2441	2441	2441	
10°-20°	663.3	11.5	7.8	5°	2428	2426	2434	2441	2436	230
20°-30°	1021.1	17.7	11.9	15°	2299	2313	2356	2391	2399	648
30°-40°	1269.2	22.0	14.8	25°	2095	2134	2166	2285	2384	965
40°-50°	1310.1	22.7	15.3	35°	1818	1867	2055	2185	2235	1136
50°-60°	973.9	16.9	11.4	45°	1463	1549	1720	1883	1962	1124
60°-70°	261.8	4.5	3.1	55°	933	1094	1178	1220	1223	815
70°-80°	30.0	0.5	0.4	65°	183	229	240	233	236	218
80°-90°	4.0	0.1	0.0	75°	21	26	26	26	21	25
90°-100°	0.0	0.0	0.0	85°	2	2	3	4	3	3
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°	1915.9	33.2	22.4	165°	0	0	0	0	0	0
0°-40°	3185.0	55.2	37.3	175°	0	0	0	0	0	0
0°-60°	5469.0	94.9	64.0	180°	0	0	0	0	0	0
0°-90°	5764.9	100.0	67.4							
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°	5764.9	100.0	67.4							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2441	2441	2441	2441	2441
2.5°	2443	2437	2440	2443	2436
5°	2428	2426	2434	2441	2436
7.5°	2405	2407	2421	2439	2439
10°	2375	2381	2404	2432	2438
12.5°	2339	2348	2384	2420	2426
15°	2299	2313	2356	2391	2399
17.5°	2255	2276	2320	2349	2361
20°	2207	2233	2274	2309	2336
22.5°	2154	2186	2219	2281	2338
25°	2095	2134	2166	2285	2384
27.5°	2034	2076	2122	2316	2424
30°	1966	2012	2090	2323	2408
32.5°	1895	1942	2073	2276	2333
35°	1818	1867	2055	2185	2235
37.5°	1738	1789	2010	2076	2133
40°	1652	1710	1928	1987	2132
42.5°	1561	1630	1824	1961	2100
45°	1463	1549	1720	1883	1962
47.5°	1357	1465	1617	1723	1770
50°	1240	1371	1515	1537	1603
52.5°	1102	1253	1371	1375	1562
55°	933	1094	1178	1220	1223
57.5°	741	891	943	882	783
60°	527	652	681	552	512
62.5°	331	414	434	356	362
65°	183	229	240	233	236
67.5°	87	116	127	138	127
70°	49	61	66	69	52
72.5°	32	39	39	37	30
75°	21	26	26	26	21
77.5°	14	17	18	18	15
80°	8	10	11	12	10
82.5°	4	5	6	7	6
85°	2	2	3	4	3
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



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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)