

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: 115P119

Luminaire Tested: **EP3GX-132S18M/I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 115P119
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GX-132S18M/I-PAF
Description: 1 X 4 Recessed Convertible Body Troffer with
a 3" deep 8 cell specular low iridescent
parabolic louver.
Light Source: F32T8/35K - 2900 lumens - 32 Watts.
Ballast/Driver: Triad-Utrad B232I120RH Electronic

Summary

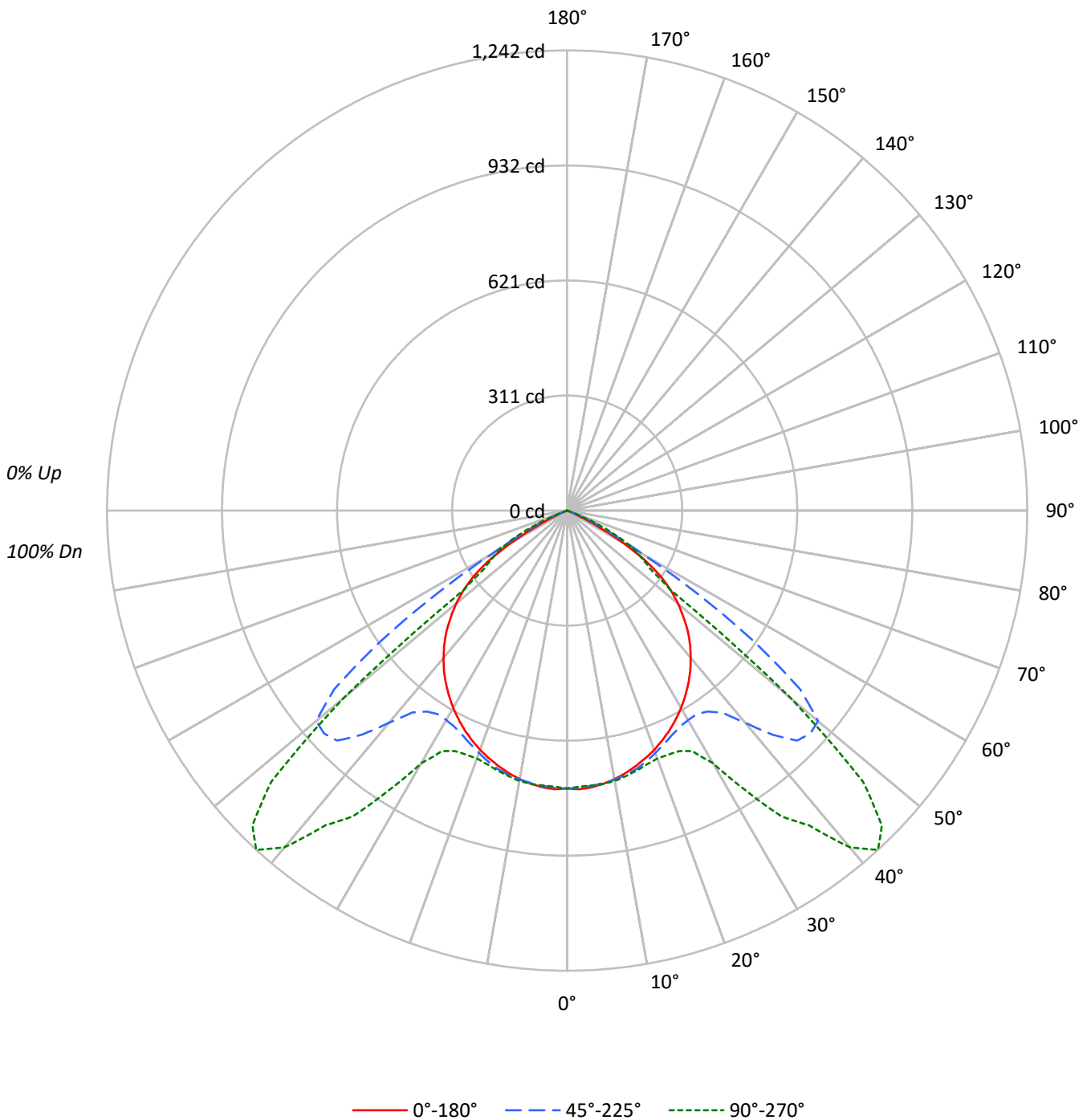
Lumens per Lamp: 2900 (1 lamp)
Luminaire Lumens: 2177.2 lumens
Efficiency: 75.1%
Efficacy: 58.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 2.09 / 1.8
Luminous Opening: Rectangular (W 0.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 37.4
Input Voltage (V): NR
Input Current (A_{in}): 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									
RC	80									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	50	30	10	0													
RCR																																					
0	89	89	89	89	87	87	87	87	83	83	83	80	80	80	77	77	77	75						75													
1	83	81	78	76	81	79	77	74	76	74	72	73	71	70	70	69	68	66						66													
2	77	72	67	64	75	70	66	63	68	64	62	65	63	60	63	61	59	57						57													
3	71	64	58	54	69	63	58	54	60	56	53	58	55	52	57	54	51	49						49													
4	65	57	51	46	63	56	50	46	54	49	45	52	48	45	51	47	44	43						43													
5	60	51	44	40	58	50	44	40	48	43	39	47	42	39	46	42	38	37						37													
6	55	46	39	35	54	45	39	35	44	38	34	42	38	34	41	37	34	32						32													
7	51	41	35	30	50	41	35	30	39	34	30	38	33	30	37	33	30	28						28													
8	47	37	31	27	46	37	31	27	36	30	27	35	30	26	34	30	26	25						25													
9	44	34	28	24	43	34	28	24	33	27	24	32	27	24	31	27	24	22						22													
10	41	31	25	22	40	31	25	21	30	25	21	29	25	21	29	24	21	20						20													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2952	2952	2952
5°	2964	2948	2944
10°	2942	2946	2962
15°	2910	2942	2959
20°	2878	2916	2983
25°	2840	2906	3110
30°	2795	2968	3577
35°	2739	3181	4839
40°	2667	3838	6094
45°	2561	4888	6686
50°	2394	5413	4838
55°	2100	4207	1874
60°	1370	1858	1638
65°	363	810	997
70°	35	150	138
75°	30	30	30
80°	23	23	23
85°	45	0	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	71.0	3.3	2.4	0°	750	750	750	750	750	
10°-20°	203.3	9.3	7.0	5°	750	746	746	747	745	71
20°-30°	315.0	14.5	10.9	15°	714	714	722	726	726	201
30°-40°	460.8	21.2	15.9	25°	654	659	669	701	716	301
40°-50°	626.8	28.8	21.6	35°	570	580	662	892	1007	356
50°-60°	400.4	18.4	13.8	45°	460	516	878	1149	1201	353
60°-70°	96.2	4.4	3.3	55°	306	513	613	295	273	265
70°-80°	3.3	0.1	0.1	65°	39	65	87	103	107	57
80°-90°	0.4	0.0	0.0	75°	2	2	2	2	2	2
90°-100°	0.0	0.0	0.0	85°	1	0	0	0	0	1
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°	589.4	27.1	20.3	165°	0	0	0	0	0	0
0°-40°	1050.1	48.2	36.2	175°	0	0	0	0	0	0
0°-60°	2077.3	95.4	71.6	180°	0	0	0	0	0	0
0°-90°	2177.2	100.0	75.1							
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°	2177.2	100.0	75.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	750	750	750	750	750
2.5°	753	749	749	749	746
5°	750	746	746	747	745
7.5°	744	741	742	745	744
10°	736	733	737	742	741
12.5°	726	724	731	735	734
15°	714	714	722	726	726
17.5°	701	702	710	716	718
20°	687	690	696	706	712
22.5°	671	675	682	702	713
25°	654	659	669	701	716
27.5°	635	642	658	706	732
30°	615	622	653	726	787
32.5°	593	601	651	791	895
35°	570	580	662	892	1007
37.5°	546	560	687	991	1070
40°	519	541	747	1042	1186
42.5°	491	526	820	1136	1242
45°	460	516	878	1149	1201
47.5°	426	511	890	1063	1083
50°	391	513	884	880	790
52.5°	352	520	792	569	351
55°	306	513	613	295	273
57.5°	248	463	412	236	239
60°	174	335	236	197	208
62.5°	96	177	137	153	161
65°	39	65	87	103	107
67.5°	10	18	44	55	54
70°	3	5	13	17	12
72.5°	2	3	3	4	3
75°	2	2	2	2	2
77.5°	1	2	2	1	1
80°	1	1	1	1	1
82.5°	1	1	1	1	1
85°	1	0	0	0	0
87.5°	0	0	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



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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)