

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: 115P120

Luminaire Tested: **EP3GX-132S18I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 115P120
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GX-132S18I-PAF
Description: 1 X 4 Recessed Convertible Body Troffer with
a 3" deep 8 cell semi-specular low iridescent
parabolic louver.
Light Source: F32T8/35K - 2900 lumens - 32 Watts.
Ballast/Driver: Triad-Utrad B232I120RH Electronic

Summary

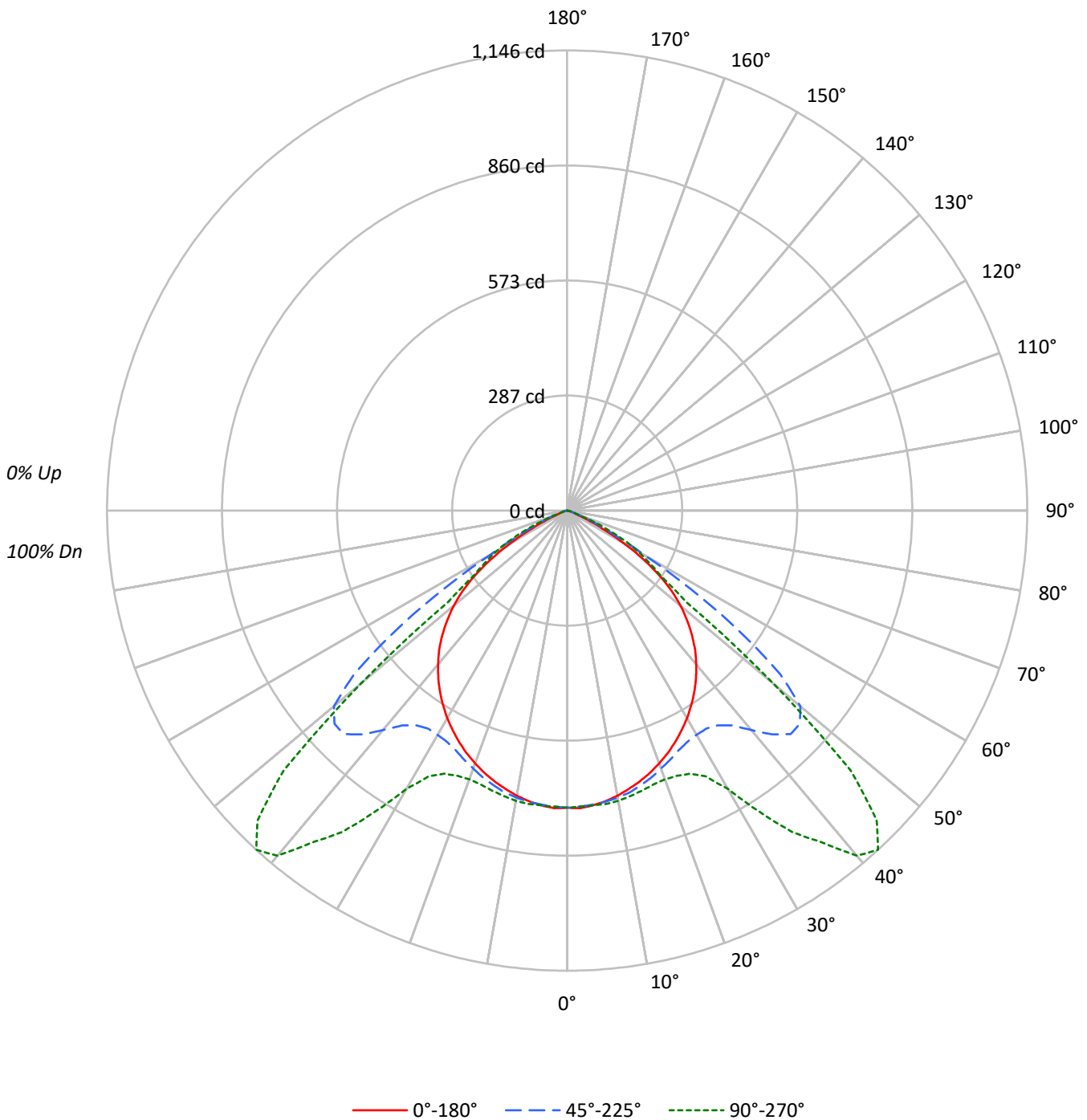
Lumens per Lamp: 2900 (1 lamp)
Luminaire Lumens: 2073.3 lumens
Efficiency: 71.5%
Efficacy: 55.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 2.03 / 1.73
Luminous Opening: Rectangular (W 0.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 37.6
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										
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	50	30	10	50	30	10	0														
RCR																																						
0	85	85	85	85	83	83	83	83	79	79	79	76	76	76	73	73	73	71							71													
1	79	77	74	72	78	75	73	71	72	70	69	69	68	67	67	66	65	63							63													
2	73	68	64	61	71	67	63	60	64	61	59	62	60	57	60	58	56	55							55													
3	67	61	56	51	66	60	55	51	58	53	50	56	52	49	54	51	48	47							47													
4	62	54	48	44	60	53	48	44	51	47	43	50	46	43	48	45	42	41							41													
5	57	48	42	38	55	48	42	38	46	41	37	45	40	37	44	40	37	35							35													
6	52	44	38	33	51	43	37	33	42	37	33	40	36	33	39	35	32	31							31													
7	49	39	33	29	47	39	33	29	38	33	29	37	32	29	36	32	29	27							27													
8	45	36	30	26	44	35	30	26	34	29	26	33	29	26	33	29	25	24							24													
9	42	33	27	23	41	32	27	23	31	26	23	31	26	23	30	26	23	21							21													
10	39	30	24	21	38	30	24	21	29	24	21	28	24	21	28	24	21	19							19													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2913	2913	2913
5°	2912	2904	2912
10°	2882	2902	2934
15°	2844	2885	2942
20°	2807	2865	2983
25°	2762	2858	3140
30°	2714	2932	3636
35°	2653	3138	4695
40°	2569	3664	5765
45°	2449	4381	6068
50°	2260	4642	4103
55°	1908	3596	1963
60°	1283	1771	1614
65°	587	848	1025
70°	219	345	288
75°	122	183	152
80°	68	113	91
85°	45	45	45



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	70.0	3.4	2.4	0°	740	740	740	740	740	
10°-20°	200.1	9.7	6.9	5°	737	734	735	738	737	70
20°-30°	311.2	15.0	10.7	15°	698	698	708	718	722	197
30°-40°	448.1	21.6	15.5	25°	636	643	658	698	723	293
40°-50°	570.7	27.5	19.7	35°	552	567	653	860	977	345
50°-60°	356.5	17.2	12.3	45°	440	497	787	1014	1090	338
60°-70°	102.1	4.9	3.5	55°	278	429	524	301	286	244
70°-80°	13.2	0.6	0.5	65°	63	88	91	104	110	72
80°-90°	1.6	0.1	0.1	75°	8	11	12	12	10	10
90°-100°	0.0	0.0	0.0	85°	1	1	1	1	1	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°	581.2	28.0	20.0	165°	0	0	0	0	0	0
0°-40°	1029.3	49.6	35.5	175°	0	0	0	0	0	0
0°-60°	1956.5	94.4	67.5	180°	0	0	0	0	0	0
0°-90°	2073.3	100.0	71.5							
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°	2073.3	100.0	71.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	740	740	740	740	740
2.5°	742	738	738	739	738
5°	737	734	735	738	737
7.5°	730	728	731	736	737
10°	721	719	726	732	734
12.5°	710	709	719	726	728
15°	698	698	708	718	722
17.5°	685	687	697	709	715
20°	670	674	684	700	712
22.5°	654	659	671	697	715
25°	636	643	658	698	723
27.5°	617	625	649	706	746
30°	597	606	645	731	800
32.5°	575	587	644	785	888
35°	552	567	653	860	977
37.5°	527	547	674	932	1041
40°	500	528	713	978	1122
42.5°	472	511	756	1027	1146
45°	440	497	787	1014	1090
47.5°	406	486	786	926	957
50°	369	475	758	760	670
52.5°	327	460	668	506	373
55°	278	429	524	301	286
57.5°	223	369	368	235	243
60°	163	275	225	191	205
62.5°	107	170	139	149	159
65°	63	88	91	104	110
67.5°	33	46	55	64	61
70°	19	25	30	32	25
72.5°	13	16	17	17	14
75°	8	11	12	12	10
77.5°	6	7	8	8	7
80°	3	4	5	6	4
82.5°	2	2	3	3	3
85°	1	1	1	1	1
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)