

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: 115P121

Luminaire Tested: **EP3GX-232S18I-PAF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 115P121  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: EP3GX-232S18I-PAF  
Description: 1 X 4 Recessed Convertible Body Troffer with  
a 3" deep 8 cell semi-specular low iridescent  
parabolic louver.  
Light Source: Two-F32T8/35K - 2900 Lumens ea.- 32 Watts ea.  
Ballast/Driver: Triad-Utrad B232I120RH Electronic

**Summary**

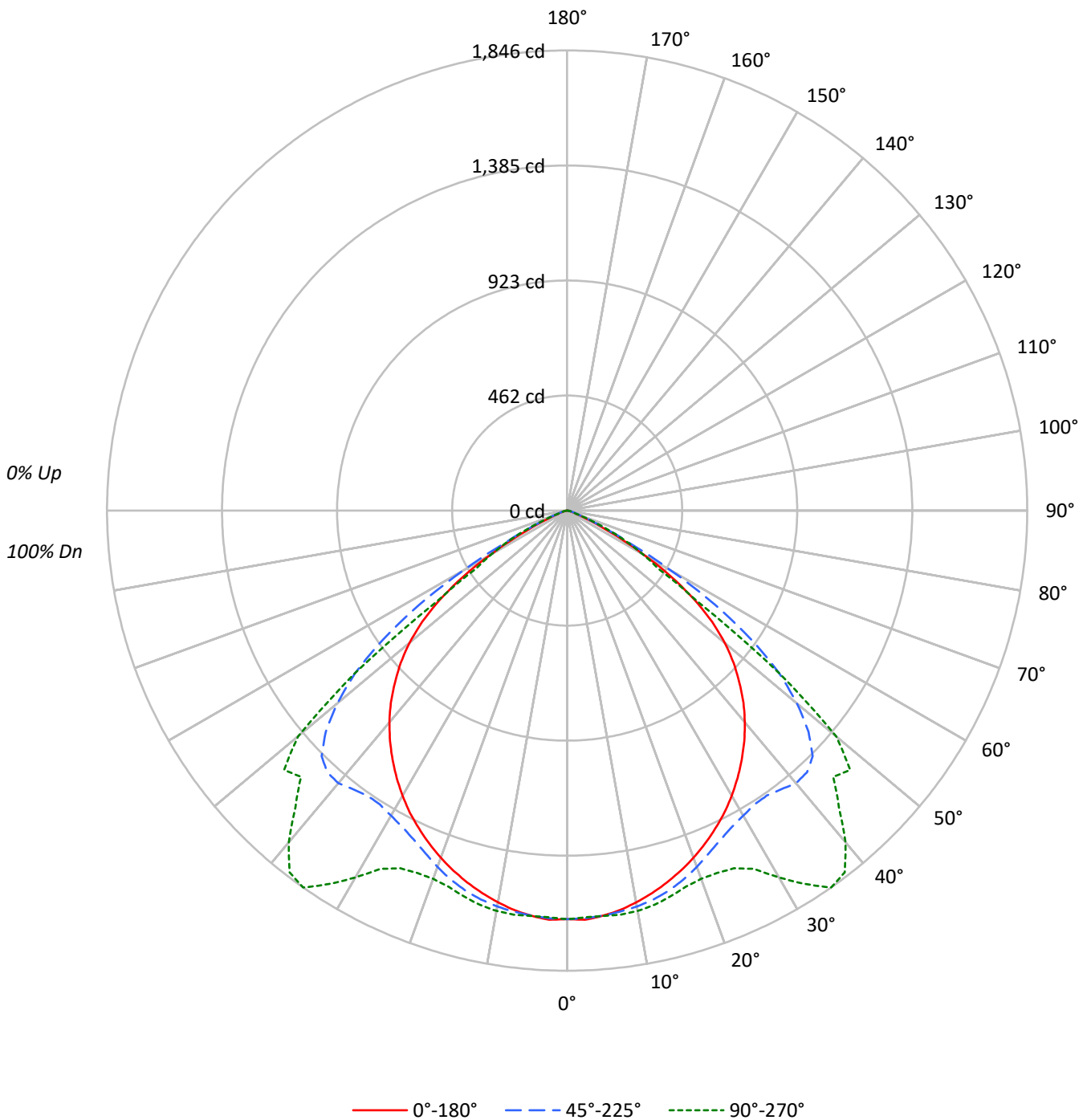
Lumens per Lamp: 2900 (2 lamps)  
Luminaire Lumens: 4114.3 lumens  
Efficiency: 70.9%  
Efficacy: 67.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.63 / 1.54  
Luminous Opening: Rectangular (W 0.73' x L: 3.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 61.3  
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	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	72	70	72	70	68	69	68	66	66	65	64	63
2	73	68	64	61	71	67	63	60	64	61	59	62	60	57	60	58	56	55
3	67	61	56	52	65	60	55	51	58	54	50	56	52	50	54	51	49	47
4	62	54	49	45	60	53	48	44	52	47	44	50	46	43	49	45	43	41
5	57	49	43	39	56	48	43	39	47	42	38	45	41	38	44	40	37	36
6	53	44	38	34	51	43	38	34	42	37	34	41	37	33	40	36	33	32
7	49	40	34	30	48	39	34	30	38	33	30	37	33	30	36	32	29	28
8	46	36	31	27	44	36	31	27	35	30	27	34	30	26	33	29	26	25
9	42	33	28	24	41	33	28	24	32	27	24	31	27	24	31	27	24	22
10	40	31	25	22	39	30	25	22	30	25	22	29	25	22	28	24	21	20

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

	0°	45°	90°
0°	6452	6452	6452
5°	6449	6445	6453
10°	6379	6447	6519
15°	6296	6431	6528
20°	6208	6371	6585
25°	6111	6324	6875
30°	6004	6422	7722
35°	5867	6708	8871
40°	5699	7338	8931
45°	5444	7755	8406
50°	5058	7373	8629
55°	4276	6190	4433
60°	2834	3795	2748
65°	1239	1528	1658
70°	437	610	495
75°	274	335	274
80°	159	227	204
85°	135	135	181



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	155.2	3.8	2.7	0°	1639	1639	1639	1639	1639	
10°-20°	444.3	10.8	7.7	5°	1632	1627	1631	1636	1633	155
20°-30°	685.5	16.7	11.8	15°	1545	1550	1578	1598	1602	436
30°-40°	915.5	22.3	15.8	25°	1407	1428	1456	1532	1583	648
40°-50°	995.9	24.2	17.2	35°	1221	1252	1396	1691	1846	763
50°-60°	700.3	17.0	12.1	45°	978	1064	1393	1450	1510	752
60°-70°	188.5	4.6	3.2	55°	623	810	902	803	646	545
70°-80°	24.9	0.6	0.4	65°	133	175	164	174	178	155
80°-90°	4.1	0.1	0.1	75°	18	21	22	22	18	21
90°-100°	0.0	0.0	0.0	85°	3	3	3	4	4	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°	1285.0	31.2	22.2	165°	0	0	0	0	0	0
0°-40°	2200.6	53.5	37.9	175°	0	0	0	0	0	0
0°-60°	3896.8	94.7	67.2	180°	0	0	0	0	0	0
0°-90°	4114.3	100.0	70.9							
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°	4114.3	100.0	70.9							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1639	1639	1639	1639	1639
2.5°	1643	1636	1637	1639	1633
5°	1632	1627	1631	1636	1633
7.5°	1617	1613	1623	1635	1635
10°	1596	1594	1613	1629	1631
12.5°	1572	1573	1598	1617	1620
15°	1545	1550	1578	1598	1602
17.5°	1515	1525	1552	1573	1582
20°	1482	1496	1521	1550	1572
22.5°	1446	1463	1487	1537	1573
25°	1407	1428	1456	1532	1583
27.5°	1366	1388	1431	1540	1620
30°	1321	1346	1413	1574	1699
32.5°	1272	1300	1398	1639	1776
35°	1221	1252	1396	1691	1846
37.5°	1167	1202	1409	1723	1829
40°	1109	1155	1428	1675	1738
42.5°	1047	1109	1424	1570	1614
45°	978	1064	1393	1450	1510
47.5°	906	1019	1313	1355	1540
50°	826	969	1204	1307	1409
52.5°	733	905	1072	1114	1077
55°	623	810	902	803	646
57.5°	498	674	706	484	433
60°	360	496	482	335	349
62.5°	233	314	285	252	265
65°	133	175	164	174	178
67.5°	66	89	96	107	100
70°	38	48	53	55	43
72.5°	26	32	32	31	25
75°	18	21	22	22	18
77.5°	12	14	15	16	13
80°	7	9	10	11	9
82.5°	5	5	6	7	6
85°	3	3	3	4	4
87.5°	1	1	1	1	2
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)