

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: 115P139

Luminaire Tested: **EP3GX-232S18M/I-PAF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 115P139  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: EP3GX-232S18M/I-PAF  
Description: 1 X 4 Recessed Troffer with an 8 cell  
specular low iridescent parabolic louver.  
Light Source: Two-F32T8/35K - 2850 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Triad-Utrad B232I120RH Electronic

**Summary**

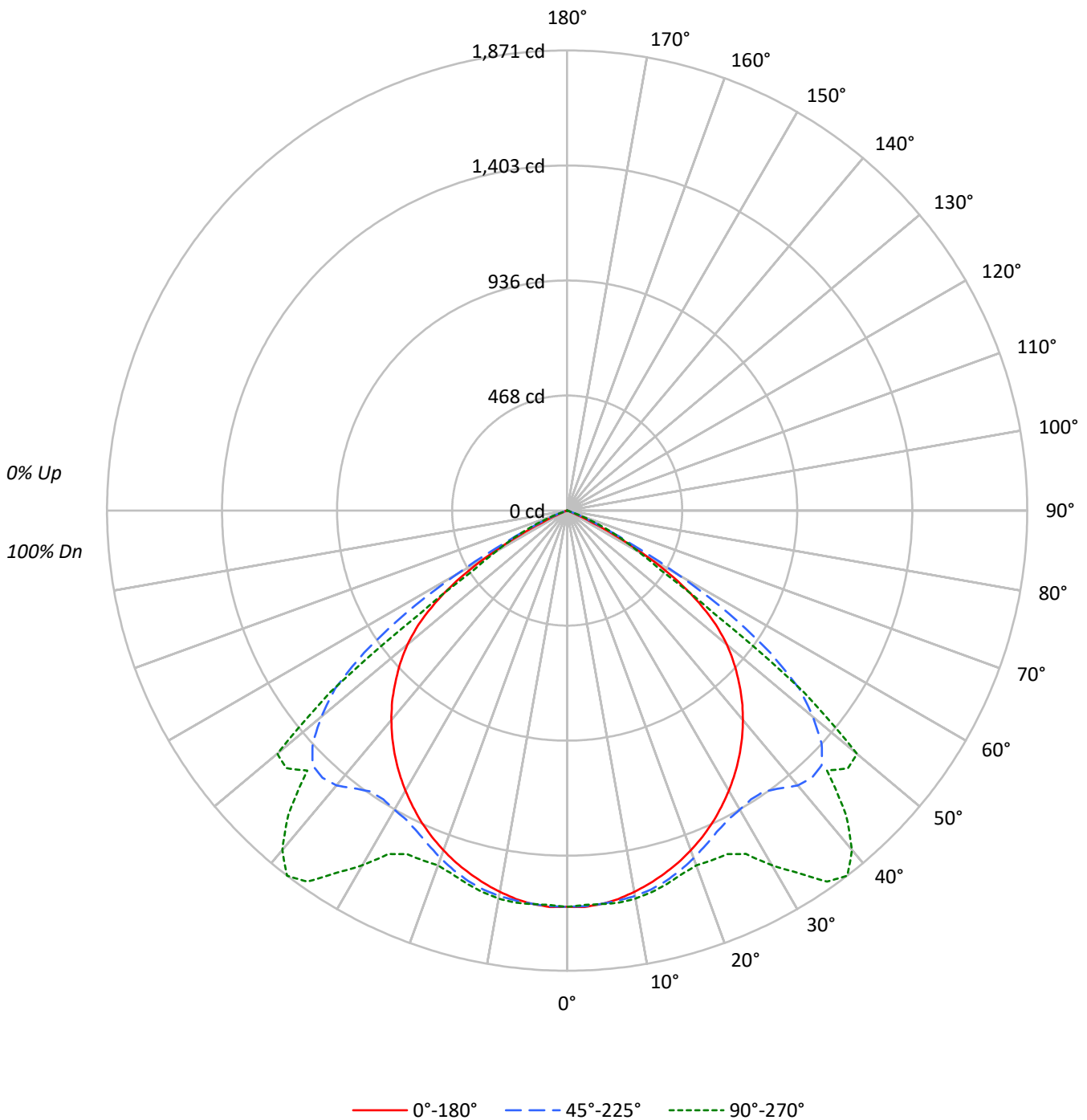
Lumens per Lamp: 2850 (2 lamps)  
Luminaire Lumens: 4177.1 lumens  
Efficiency: 73.3%  
Efficacy: 67.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.68 / 1.59  
Luminous Opening: Rectangular (W 0.73' x L: 3.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 61.5  
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	87	87	87	87	85	85	85	85	81	81	81	78	78	78	75	75	75	73
1	82	79	76	74	80	77	75	73	74	72	71	71	70	68	69	68	66	65
2	75	70	66	63	73	69	65	62	66	63	61	64	62	59	62	60	58	56
3	69	63	58	53	68	62	57	53	59	55	52	58	54	51	56	53	50	49
4	64	56	50	46	62	55	50	46	53	49	45	52	48	44	50	47	44	42
5	59	50	44	40	57	49	44	40	48	43	39	47	42	39	45	41	38	37
6	54	45	39	35	53	45	39	35	43	38	34	42	38	34	41	37	34	32
7	50	41	35	31	49	40	35	31	39	34	30	38	34	30	37	33	30	29
8	47	37	31	27	46	37	31	27	36	31	27	35	30	27	34	30	27	26
9	44	34	28	25	43	34	28	25	33	28	24	32	28	24	31	27	24	23
10	41	31	26	22	40	31	26	22	30	25	22	30	25	22	29	25	22	21

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

	0°	45°	90°
0°	6341	6341	6341
5°	6346	6342	6346
10°	6291	6359	6403
15°	6227	6349	6402
20°	6158	6300	6430
25°	6076	6259	6693
30°	5977	6382	7568
35°	5863	6699	8852
40°	5714	7497	9260
45°	5500	8150	8322
50°	5187	7986	9418
55°	4502	6918	5010
60°	3007	4102	2653
65°	838	1453	1611
70°	104	311	414
75°	61	76	61
80°	68	68	45
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°	152.8	3.7	2.7	0°	1611	1611	1611	1611	1611	
10°-20°	438.4	10.5	7.7	5°	1606	1602	1605	1610	1606	152
20°-30°	677.4	16.2	11.9	15°	1528	1536	1558	1572	1571	431
30°-40°	919.2	22.0	16.1	25°	1399	1420	1441	1509	1541	644
40°-50°	1032.3	24.7	18.1	35°	1220	1250	1394	1695	1842	762
50°-60°	769.2	18.4	13.5	45°	988	1084	1464	1530	1495	760
60°-70°	178.7	4.3	3.1	55°	656	906	1008	899	730	572
70°-80°	7.9	0.2	0.1	65°	90	148	156	167	173	127
80°-90°	1.1	0.0	0.0	75°	4	5	5	5	4	5
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°	1268.6	30.4	22.3	165°	0	0	0	0	0	0
0°-40°	2187.8	52.4	38.4	175°	0	0	0	0	0	0
0°-60°	3989.4	95.5	70.0	180°	0	0	0	0	0	0
0°-90°	4177.1	100.0	73.3							
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°	4177.1	100.0	73.3							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1611	1611	1611	1611	1611
2.5°	1613	1609	1610	1611	1605
5°	1606	1602	1605	1610	1606
7.5°	1593	1591	1599	1609	1608
10°	1574	1575	1591	1604	1602
12.5°	1553	1556	1578	1591	1589
15°	1528	1536	1558	1572	1571
17.5°	1501	1513	1533	1548	1550
20°	1470	1486	1504	1524	1535
22.5°	1436	1455	1472	1513	1539
25°	1399	1420	1441	1509	1541
27.5°	1358	1382	1417	1511	1574
30°	1315	1340	1404	1552	1665
32.5°	1269	1296	1392	1631	1746
35°	1220	1250	1394	1695	1842
37.5°	1168	1204	1423	1757	1871
40°	1112	1159	1459	1750	1802
42.5°	1053	1120	1473	1657	1679
45°	988	1084	1464	1530	1495
47.5°	921	1051	1404	1392	1550
50°	847	1017	1304	1389	1538
52.5°	763	977	1190	1252	1214
55°	656	906	1008	899	730
57.5°	535	771	780	543	452
60°	382	566	521	340	337
62.5°	217	335	288	243	254
65°	90	148	156	167	173
67.5°	21	40	77	97	100
70°	9	12	27	41	36
72.5°	6	7	8	10	7
75°	4	5	5	5	4
77.5°	3	4	4	3	3
80°	3	3	3	2	2
82.5°	1	2	2	2	1
85°	1	1	1	1	1
87.5°	1	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)