

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: 115P143

Luminaire Tested: **EP3GX-232S16I-PAF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 115P143  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: EP3GX-232S16I-PAF  
Description: 1 X 4 Recessed Convertible Body Troffer with  
a 3" deep 6 cell semi-specular low iridescent  
parabolic louver.  
Light Source: Two-F32T8/35K - 2850 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 87.6

**Summary**

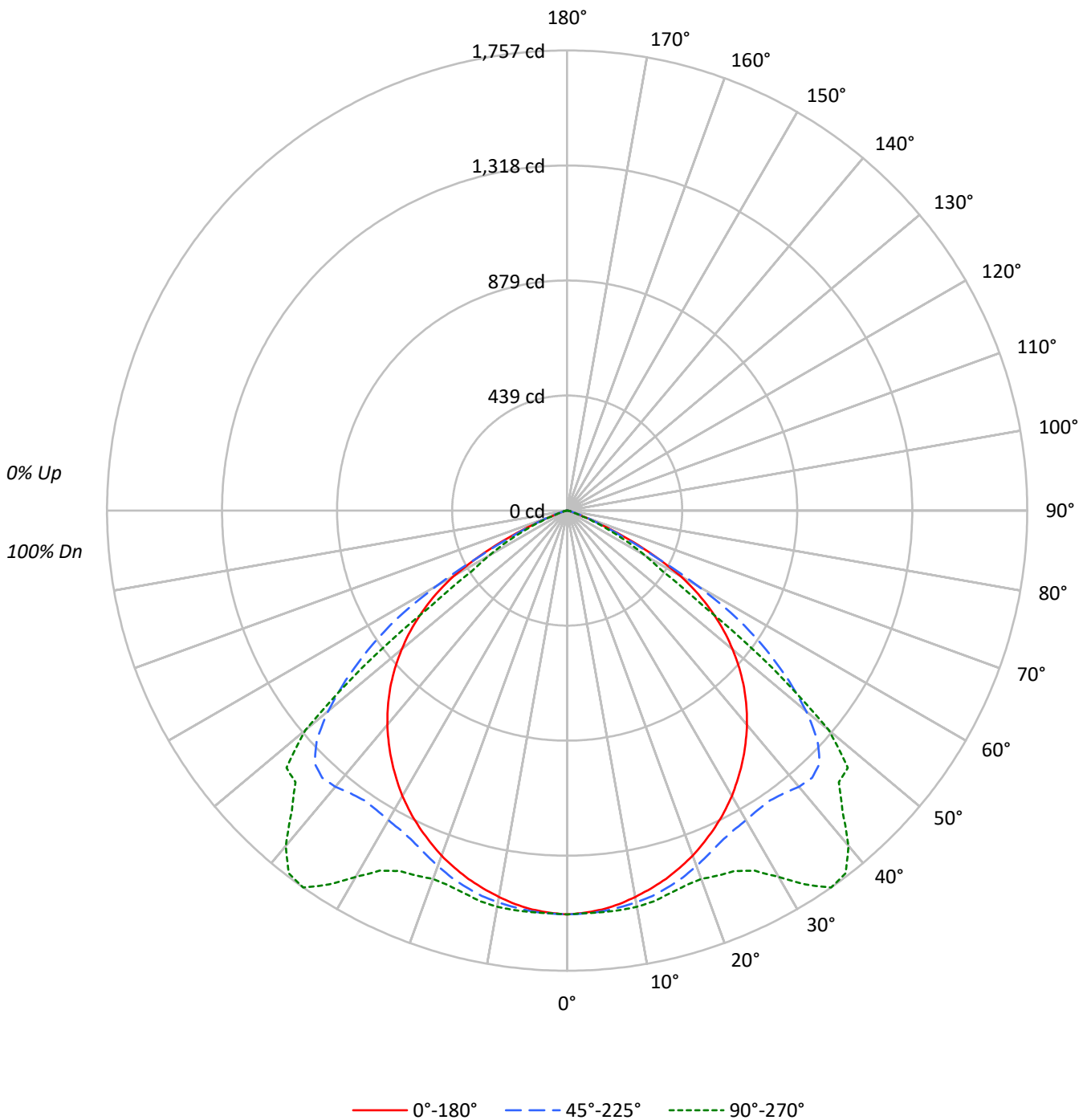
Lumens per Lamp: 2850 (2 lamps)  
Luminaire Lumens: 4075.7 lumens  
Efficiency: 71.5%  
Efficacy: 70.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.65 / 1.57  
Luminous Opening: Rectangular (W 0.73' x L: 3.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 57.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	50	30	10	0	
RCR																						
0	85	85	85	85	83	83	83	83	79	79	79	76	76	76	73	73	73	72				72
1	79	77	74	72	77	75	73	71	72	70	69	69	68	66	67	66	65	63				63
2	73	68	64	61	71	67	63	60	64	61	58	62	60	57	60	58	56	55				55
3	67	61	56	51	66	60	55	51	57	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	49	43	38	56	48	42	38	46	41	38	45	41	37	44	40	37	35				35
6	53	44	38	33	51	43	37	33	42	37	33	41	36	33	40	36	32	31				31
7	49	40	34	30	48	39	33	29	38	33	29	37	32	29	36	32	29	27				27
8	45	36	30	26	44	36	30	26	35	30	26	34	29	26	33	29	26	24				24
9	42	33	27	24	41	33	27	24	32	27	23	31	27	23	30	26	23	22				22
10	40	30	25	21	39	30	25	21	29	24	21	29	24	21	28	24	21	20				20

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

	0°	45°	90°
0°	6070	6070	6070
5°	6042	6069	6081
10°	5988	6072	6139
15°	5933	6068	6166
20°	5873	6049	6271
25°	5798	6050	6593
30°	5718	6204	7341
35°	5613	6492	8443
40°	5488	7076	8586
45°	5316	7593	8167
50°	5052	7300	7986
55°	4646	6382	4337
60°	3936	4550	2708
65°	2394	2058	1677
70°	714	875	564
75°	289	319	259
80°	159	204	181
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°	146.1	3.6	2.6	0°	1542	1542	1542	1542	1542	
10°-20°	420.2	10.3	7.4	5°	1529	1531	1536	1543	1539	145
20°-30°	655.5	16.1	11.5	15°	1456	1465	1489	1512	1513	411
30°-40°	880.8	21.6	15.5	25°	1335	1359	1393	1478	1518	615
40°-50°	970.6	23.8	17.0	35°	1168	1206	1351	1628	1757	730
50°-60°	719.7	17.7	12.6	45°	955	1041	1364	1419	1467	734
60°-70°	251.7	6.2	4.4	55°	677	850	930	776	632	600
70°-80°	27.5	0.7	0.5	65°	257	331	221	186	180	259
80°-90°	3.7	0.1	0.1	75°	19	22	21	20	17	25
90°-100°	0.0	0.0	0.0	85°	2	3	3	3	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°	1221.8	30.0	21.4	165°	0	0	0	0	0	0
0°-40°	2102.6	51.6	36.9	175°	0	0	0	0	0	0
0°-60°	3792.8	93.1	66.5	180°	0	0	0	0	0	0
0°-90°	4075.7	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°	4075.7	100.0	71.5							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1542	1542	1542	1542	1542
2.5°	1537	1538	1540	1545	1539
5°	1529	1531	1536	1543	1539
7.5°	1516	1519	1528	1541	1539
10°	1498	1504	1519	1537	1536
12.5°	1478	1485	1507	1528	1528
15°	1456	1465	1489	1512	1513
17.5°	1430	1443	1469	1493	1501
20°	1402	1419	1444	1477	1497
22.5°	1369	1390	1418	1474	1508
25°	1335	1359	1393	1478	1518
27.5°	1298	1325	1376	1484	1550
30°	1258	1288	1365	1515	1615
32.5°	1214	1248	1355	1571	1693
35°	1168	1206	1351	1628	1757
37.5°	1119	1163	1360	1661	1746
40°	1068	1121	1377	1623	1671
42.5°	1013	1081	1384	1534	1556
45°	955	1041	1364	1419	1467
47.5°	892	1001	1296	1332	1454
50°	825	958	1192	1267	1304
52.5°	754	909	1066	1074	990
55°	677	850	930	776	632
57.5°	594	772	777	494	433
60°	500	659	578	349	344
62.5°	377	511	369	264	260
65°	257	331	221	186	180
67.5°	140	171	135	117	107
70°	62	73	76	62	49
72.5°	31	36	38	31	26
75°	19	22	21	20	17
77.5°	12	14	14	14	12
80°	7	9	9	9	8
82.5°	4	5	6	6	5
85°	2	3	3	3	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)