

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: 115P125

Luminaire Tested: **PGX-232S19I-PAF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 115P125  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: PGX-232S19I-PAF  
Description: 1 X 4 Recessed Convertible Body Troffer with  
a 4" deep 9 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**

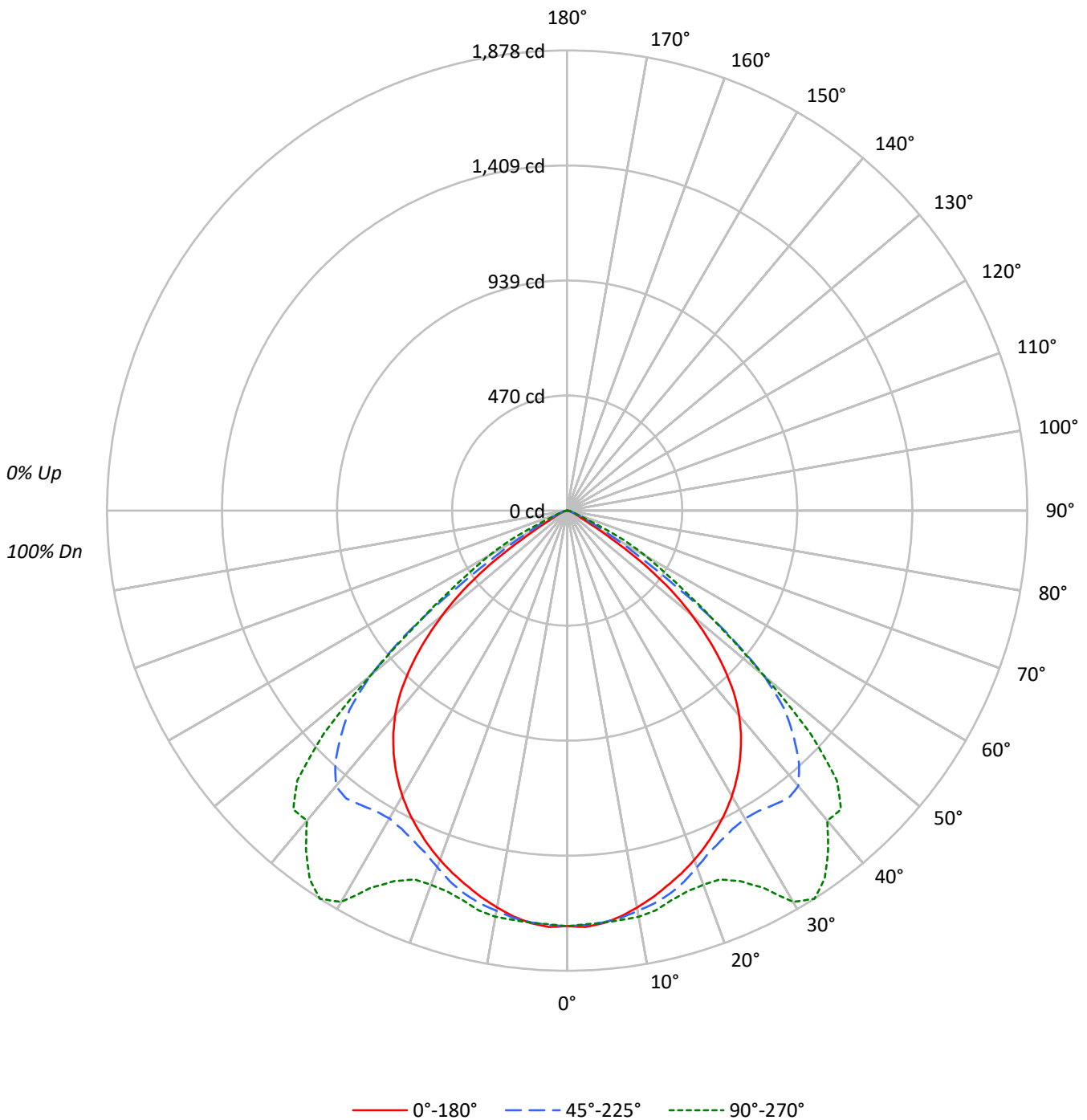
Lumens per Lamp: 2900 (2 lamps)  
Luminaire Lumens: 3819.9 lumens  
Efficiency: 65.9%  
Efficacy: 62.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.56 / 1.47  
Luminous Opening: Rectangular (W 0.73' x L: 3.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 60.9  
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	78	78	78	78	77	77	77	77	73	73	73	70	70	70	67	67	67	66
1	73	71	69	67	72	70	68	66	67	65	64	64	63	62	62	61	60	59
2	68	64	60	57	67	63	60	57	61	58	55	58	56	54	57	55	53	52
3	63	57	53	50	62	56	52	49	55	51	48	53	50	48	51	49	47	45
4	58	52	47	43	57	51	46	43	49	45	42	48	45	42	47	44	41	40
5	54	47	42	38	53	46	41	38	45	41	37	44	40	37	42	39	37	35
6	50	42	37	33	49	42	37	33	41	36	33	40	36	33	39	35	33	31
7	47	39	33	30	46	38	33	30	37	33	30	36	32	29	35	32	29	28
8	44	35	30	27	43	35	30	27	34	30	27	33	29	26	33	29	26	25
9	41	32	27	24	40	32	27	24	31	27	24	31	27	24	30	26	24	23
10	38	30	25	22	37	30	25	22	29	25	22	28	24	22	28	24	22	21

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

	0°	45°	90°
0°	6676	6676	6676
5°	6678	6666	6670
10°	6575	6631	6727
15°	6455	6598	6708
20°	6355	6489	6807
25°	6241	6454	7245
30°	6113	6595	8382
35°	5920	7049	8808
40°	5616	7543	8489
45°	5027	7281	8668
50°	4078	6430	6418
55°	2628	3809	4241
60°	858	1700	2905
65°	419	717	1090
70°	276	380	460
75°	198	259	289
80°	136	181	204
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°	160.3	4.2	2.8	0°	1696	1696	1696	1696	1696	
10°-20°	456.2	11.9	7.9	5°	1690	1684	1687	1691	1688	160
20°-30°	707.0	18.5	12.2	15°	1584	1589	1619	1643	1646	447
30°-40°	931.2	24.4	16.1	25°	1437	1456	1486	1589	1668	662
40°-50°	943.1	24.7	16.3	35°	1232	1264	1467	1737	1833	768
50°-60°	499.3	13.1	8.6	45°	903	1050	1308	1439	1557	688
60°-70°	99.8	2.6	1.7	55°	383	528	555	595	618	337
70°-80°	19.4	0.5	0.3	65°	45	55	77	105	117	51
80°-90°	3.6	0.1	0.1	75°	13	16	17	20	19	14
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°	1323.5	34.6	22.8	165°	0	0	0	0	0	0
0°-40°	2254.7	59.0	38.9	175°	0	0	0	0	0	0
0°-60°	3697.1	96.8	63.7	180°	0	0	0	0	0	0
0°-90°	3819.9	100.0	65.9							
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°	3819.9	100.0	65.9							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1696	1696	1696	1696	1696
2.5°	1701	1693	1693	1694	1690
5°	1690	1684	1687	1691	1688
7.5°	1671	1667	1676	1686	1685
10°	1645	1645	1659	1680	1683
12.5°	1616	1618	1642	1670	1671
15°	1584	1589	1619	1643	1646
17.5°	1552	1558	1588	1613	1629
20°	1517	1526	1549	1596	1625
22.5°	1479	1493	1512	1584	1629
25°	1437	1456	1486	1589	1668
27.5°	1394	1415	1464	1621	1735
30°	1345	1368	1451	1679	1844
32.5°	1291	1317	1454	1750	1878
35°	1232	1264	1467	1737	1833
37.5°	1166	1213	1481	1667	1750
40°	1093	1162	1468	1573	1652
42.5°	1007	1110	1401	1483	1654
45°	903	1050	1308	1439	1557
47.5°	789	974	1205	1282	1346
50°	666	866	1050	1045	1048
52.5°	537	717	827	785	801
55°	383	528	555	595	618
57.5°	218	326	342	448	473
60°	109	166	216	320	369
62.5°	65	86	132	202	262
65°	45	55	77	105	117
67.5°	33	39	47	58	61
70°	24	28	33	39	40
72.5°	18	21	24	27	28
75°	13	16	17	20	19
77.5°	9	11	13	14	13
80°	6	7	8	10	9
82.5°	4	5	5	6	6
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)