

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: 193P104

Luminaire Tested: **PGX2048-232S29I-PAF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 193P104  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: PGX2048-232S29I-PAF  
Description: 20" X 48" Recessed Convertible Body Luminaire  
with a 4" deep 18 cell semi-specular low iridescent  
parabolic louver.  
Light Source: Two - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Magnetek B2321120RH Electronic - L.O.B.F. = 88.22

**Summary**

Lumens per Lamp: 2800 (2 lamps)  
Luminaire Lumens: 3748.4 lumens  
Efficiency: 66.9%  
Efficacy: 64.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.71 / 1.51  
Luminous Opening: Rectangular (W 1.41' x L: 3.76' x H: 0')  
CIE Type: Direct

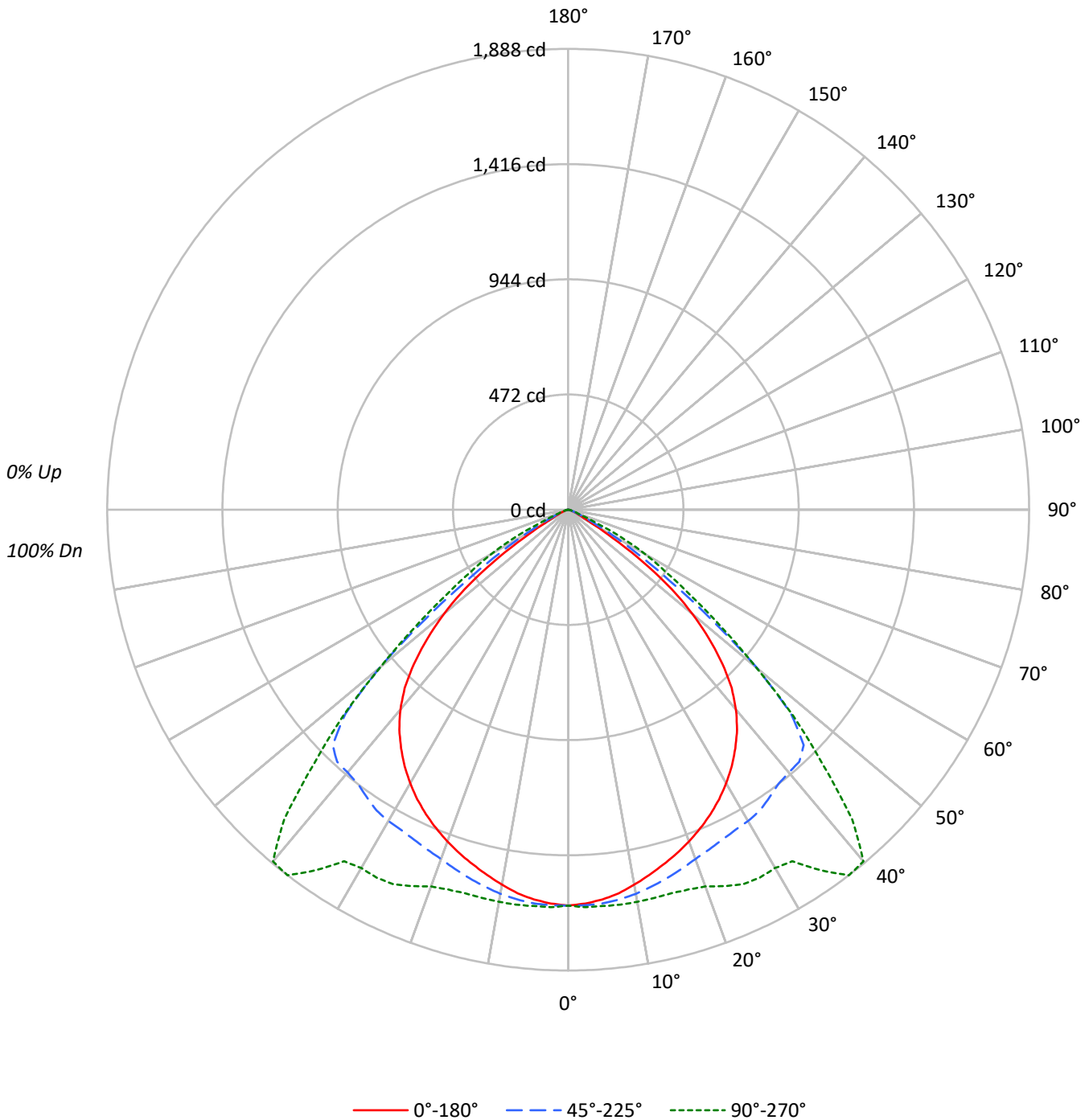
Input Watts (W): 58.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																				
0	80	80	80	80	78	78	78	78	74	74	74		71	71	71		68	68	68	67
1	75	72	70	68	73	71	69	67	68	66	65		66	64	63		63	62	61	60
2	69	65	61	58	68	64	61	58	62	59	56		59	57	55		58	56	54	53
3	64	58	54	50	63	57	53	50	56	52	49		54	51	48		52	50	48	46
4	59	53	48	44	58	52	47	44	50	46	43		49	45	43		47	44	42	41
5	55	48	42	39	54	47	42	38	46	41	38		44	41	38		43	40	37	36
6	51	43	38	34	50	43	38	34	41	37	34		40	36	33		39	36	33	32
7	47	39	34	30	46	39	34	30	38	33	30		37	33	30		36	32	30	28
8	44	36	31	27	43	35	31	27	35	30	27		34	30	27		33	29	27	25
9	41	33	28	24	40	33	28	24	32	27	24		31	27	24		31	27	24	23
10	39	30	26	22	38	30	25	22	29	25	22		29	25	22		28	25	22	21

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

	0°	45°	90°
0°	3306	3306	3306
5°	3280	3313	3335
10°	3229	3307	3376
15°	3176	3298	3433
20°	3136	3303	3562
25°	3097	3355	3808
30°	3046	3467	3989
35°	2968	3578	4486
40°	2844	3738	5005
45°	2577	3932	4249
50°	2106	3200	3184
55°	1340	1802	2175
60°	440	860	1488
65°	212	323	535
70°	125	161	209
75°	87	102	118
80°	59	70	70
85°	23	47	47



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	153.7	4.1	2.7	0°	1622	1622	1622	1622	1622	
10°-20°	442.7	11.8	7.9	5°	1603	1610	1619	1624	1630	152
20°-30°	699.0	18.6	12.5	15°	1505	1523	1563	1605	1627	425
30°-40°	915.8	24.4	16.4	25°	1377	1414	1492	1618	1693	634
40°-50°	944.4	25.2	16.9	35°	1193	1263	1438	1619	1803	744
50°-60°	481.8	12.9	8.6	45°	894	1049	1364	1424	1474	680
60°-70°	93.1	2.5	1.7	55°	377	515	507	590	612	334
70°-80°	15.4	0.4	0.3	65°	44	51	67	95	111	50
80°-90°	2.6	0.1	0.0	75°	11	12	13	15	15	12
90°-100°	0.0	0.0	0.0	85°	1	2	2	2	2	2
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°	1295.4	34.6	23.1	165°	0	0	0	0	0	0
0°-40°	2211.1	59.0	39.5	175°	0	0	0	0	0	0
0°-60°	3637.3	97.0	65.0	180°	0	0	0	0	0	0
0°-90°	3748.4	100.0	66.9							
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°	3748.4	100.0	66.9							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1622	1622	1622	1622	1622
2.5°	1615	1618	1622	1625	1630
5°	1603	1610	1619	1624	1630
7.5°	1585	1593	1610	1623	1632
10°	1560	1573	1598	1619	1631
12.5°	1533	1548	1581	1614	1629
15°	1505	1523	1563	1605	1627
17.5°	1477	1498	1543	1600	1632
20°	1446	1472	1523	1597	1642
22.5°	1413	1444	1507	1604	1669
25°	1377	1414	1492	1618	1693
27.5°	1338	1382	1480	1621	1699
30°	1294	1345	1473	1611	1695
32.5°	1246	1305	1461	1597	1708
35°	1193	1263	1438	1619	1803
37.5°	1136	1219	1415	1688	1888
40°	1069	1168	1405	1709	1881
42.5°	991	1112	1401	1625	1722
45°	894	1049	1364	1424	1474
47.5°	783	965	1238	1182	1249
50°	664	854	1009	968	1004
52.5°	534	704	741	764	793
55°	377	515	507	590	612
57.5°	214	311	334	442	472
60°	108	156	211	313	365
62.5°	65	81	123	191	243
65°	44	51	67	95	111
67.5°	30	34	41	50	56
70°	21	24	27	32	35
72.5°	15	17	19	22	23
75°	11	12	13	15	15
77.5°	8	8	9	10	10
80°	5	6	6	7	6
82.5°	3	3	4	4	4
85°	1	2	2	2	2
87.5°	1	1	1	1	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)