

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: 193P105

Luminaire Tested: **PGX2048-232S28I-PAF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 193P105  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: PGX2048-232S28I-PAF  
Description: 20 X 48 Recessed Convertible Body Luminaire with a 4" deep  
16 cell semi-specular low iridescent parabolic louver.  
Light Source: Two - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 88.22

**Summary**

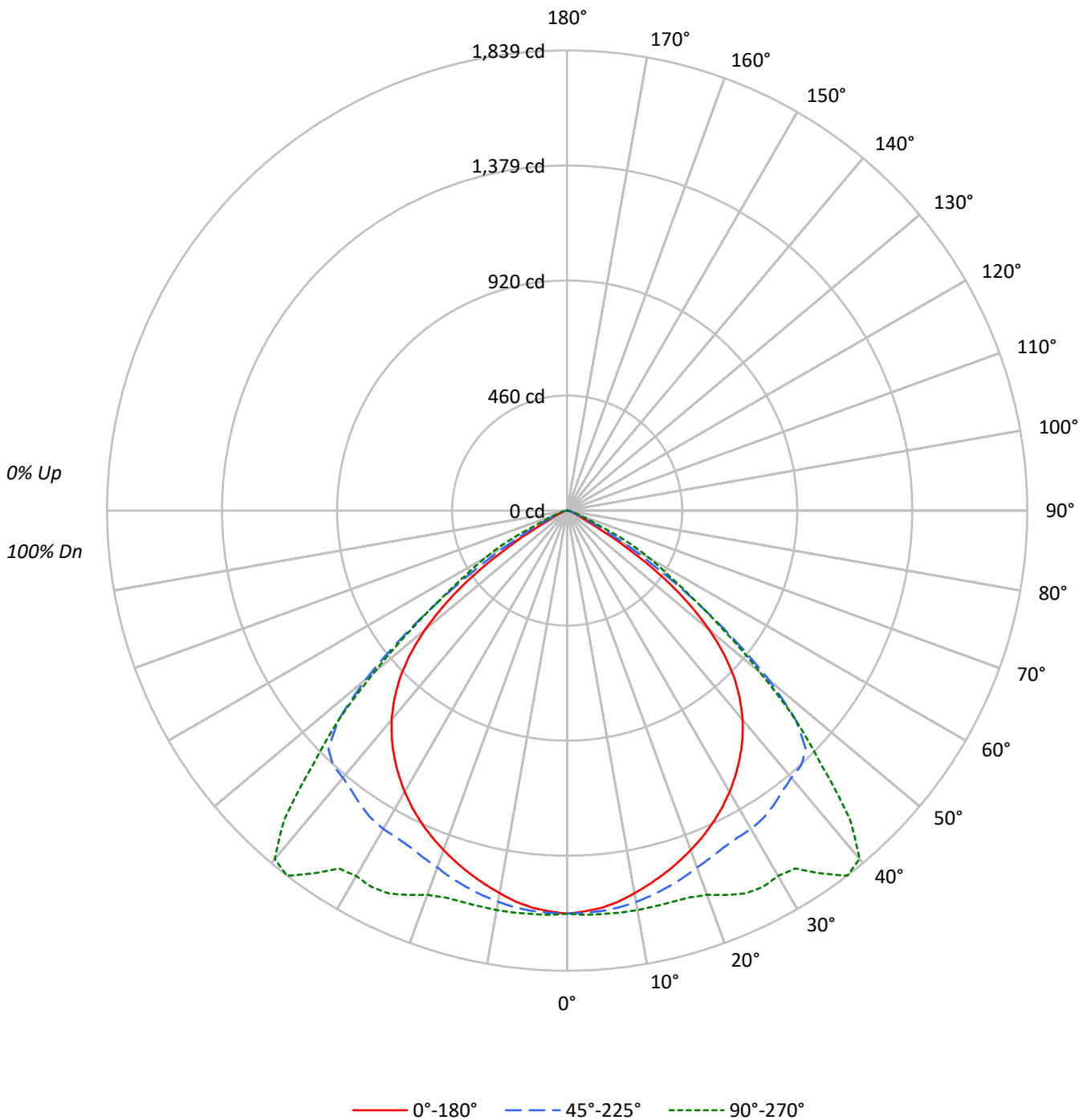
Lumens per Lamp: 2800 (2 lamps)  
Luminaire Lumens: 3831.6 lumens  
Efficiency: 68.4%  
Efficacy: 67.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.69 / 1.51  
Luminous Opening: Rectangular (W 1.41' x L: 3.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 57.2  
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	50	30	10	50	30	10	0		
RCR																										
0	81	81	81	81	80	80	80	80	76	76	76	73	73	73	70	70	70	70	70	70	70	70	70	68		
1	76	74	72	70	74	72	70	68	69	68	66	67	66	64	64	63	62	64	63	62	64	63	62	61		
2	71	66	62	59	69	65	62	59	63	60	57	60	58	56	59	57	55	59	57	55	59	57	55	54		
3	65	59	55	51	64	58	54	51	56	53	50	55	52	49	53	50	48	53	50	48	53	50	48	47		
4	60	53	48	44	59	53	48	44	51	47	43	49	46	43	48	45	42	48	45	42	48	45	42	41		
5	56	48	43	39	55	47	42	39	46	42	38	45	41	38	44	40	37	44	40	37	44	40	37	36		
6	52	44	38	34	51	43	38	34	42	37	34	41	37	34	40	36	33	40	36	33	40	36	33	32		
7	48	40	34	30	47	39	34	30	38	33	30	37	33	30	36	33	30	36	33	30	36	33	30	28		
8	45	36	31	27	44	36	31	27	35	30	27	34	30	27	33	30	27	33	30	27	33	30	27	25		
9	42	33	28	25	41	33	28	24	32	28	24	31	27	24	31	27	24	31	27	24	31	27	24	23		
10	39	31	26	22	38	30	25	22	30	25	22	29	25	22	29	25	22	29	25	22	29	25	22	21		

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

	0°	45°	90°
0°	3288	3288	3288
5°	3264	3291	3315
10°	3219	3291	3360
15°	3174	3290	3421
20°	3136	3297	3549
25°	3101	3342	3802
30°	3059	3462	3974
35°	3000	3583	4410
40°	2907	3714	4844
45°	2725	3894	4148
50°	2356	3337	3201
55°	1687	2156	2192
60°	694	1082	1547
65°	270	435	676
70°	161	227	304
75°	110	150	189
80°	71	106	129
85°	47	70	70



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	152.7	4.0	2.7	0°	1611	1611	1611	1611	1611	
10°-20°	441.0	11.5	7.9	5°	1593	1597	1606	1614	1618	151
20°-30°	697.5	18.2	12.5	15°	1502	1518	1557	1601	1619	424
30°-40°	911.9	23.8	16.3	25°	1377	1411	1484	1616	1688	634
40°-50°	948.4	24.8	16.9	35°	1204	1268	1438	1606	1770	752
50°-60°	535.8	14.0	9.6	45°	944	1074	1349	1403	1437	719
60°-70°	118.7	3.1	2.1	55°	474	629	606	604	616	413
70°-80°	21.8	0.6	0.4	65°	56	70	90	128	140	69
80°-90°	3.8	0.1	0.1	75°	14	16	19	22	24	15
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°	1291.3	33.7	23.1	165°	0	0	0	0	0	0
0°-40°	2203.2	57.5	39.3	175°	0	0	0	0	0	0
0°-60°	3687.4	96.2	65.8	180°	0	0	0	0	0	0
0°-90°	3831.6	100.0	68.4							
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°	3831.6	100.0	68.4							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1611	1611	1611	1611	1611
2.5°	1603	1605	1609	1614	1617
5°	1593	1597	1606	1614	1618
7.5°	1576	1583	1599	1615	1621
10°	1553	1564	1588	1613	1621
12.5°	1528	1541	1574	1608	1620
15°	1502	1518	1557	1601	1619
17.5°	1474	1493	1539	1595	1621
20°	1444	1468	1518	1591	1634
22.5°	1412	1440	1501	1600	1663
25°	1377	1411	1484	1616	1688
27.5°	1340	1381	1474	1622	1695
30°	1298	1347	1469	1611	1686
32.5°	1253	1309	1458	1593	1696
35°	1204	1268	1438	1606	1770
37.5°	1151	1226	1413	1661	1839
40°	1091	1180	1394	1671	1818
42.5°	1022	1129	1383	1589	1673
45°	944	1074	1349	1403	1437
47.5°	852	1011	1240	1172	1239
50°	742	927	1051	977	1008
52.5°	617	805	828	779	797
55°	474	629	606	604	616
57.5°	315	418	418	456	478
60°	170	234	265	336	379
62.5°	89	120	159	227	275
65°	56	70	90	128	140
67.5°	38	46	56	70	79
70°	27	32	38	46	51
72.5°	19	23	27	31	35
75°	14	16	19	22	24
77.5°	9	12	13	15	16
80°	6	8	9	10	11
82.5°	4	5	6	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)