

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: 104P230

Luminaire Tested: **2PGX-232S26I-PAF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 104P230  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2PGX-232S26I-PAF  
Description: 2 X 4 Recessed Convertible Body Troffer with  
a 4" deep 12 cell semi-specular low iridescent  
parabolic louver and dedicated T8 lamp sockets.  
Light Source: Two - FO32T8/35K - 2850 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Magnetek B2321120RH Electronic - L.O.B.F = 88.1

**Summary**

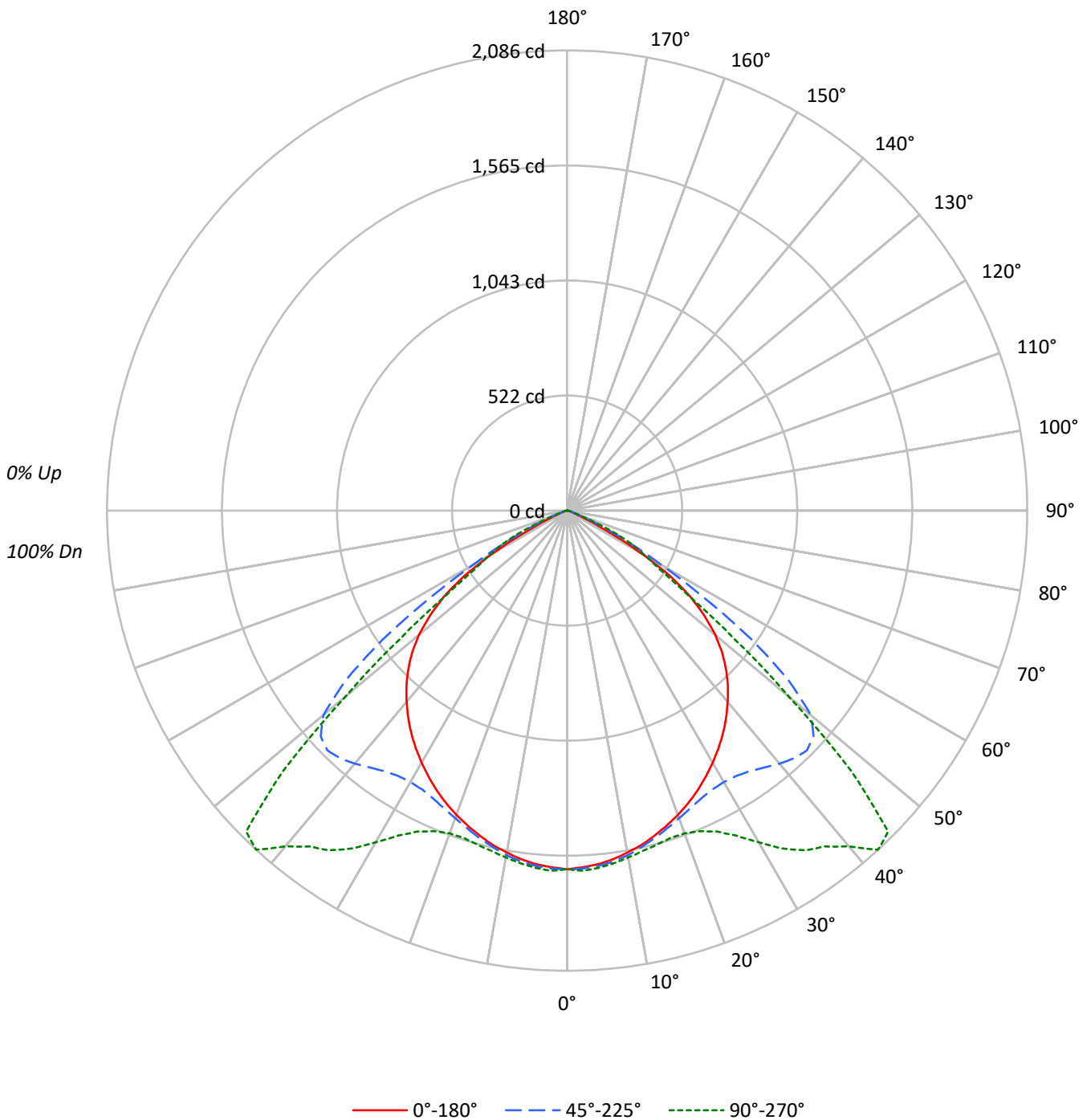
Lumens per Lamp: 2850 (2 lamps)  
Luminaire Lumens: 4327.6 lumens  
Efficiency: 75.9%  
Efficacy: 73.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.87 / 1.64  
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 59.3  
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



TEST NUMBER: 104P230  
CATALOG NUMBER: 2PGX-232S26I-PAF

### Luminous Intensity Polar Plot





TEST NUMBER: 104P230

CATALOG NUMBER: 2PGX-232S26I-PAF

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	90	90	90	90	88	88	88	88	84	84	84	81	81	81	77	77	77	76																				
1	84	81	79	77	82	80	77	75	77	75	73	74	72	71	71	70	69	67																				
2	78	73	68	65	76	71	67	64	69	65	62	66	63	61	64	62	60	58																				
3	72	65	59	55	70	63	58	54	61	57	54	59	56	53	57	54	52	50																				
4	66	58	52	47	64	57	51	47	55	50	46	53	49	46	52	48	45	44																				
5	61	52	45	41	59	51	45	41	49	44	40	48	43	40	47	43	39	38																				
6	56	47	40	36	55	46	40	36	45	39	35	43	39	35	42	38	35	33																				
7	52	42	36	31	51	42	36	31	40	35	31	39	35	31	38	34	31	29																				
8	48	38	32	28	47	38	32	28	37	32	28	36	31	28	35	31	27	26																				
9	45	35	29	25	44	35	29	25	34	29	25	33	28	25	32	28	25	23																				
10	42	32	26	23	41	32	26	23	31	26	22	30	26	22	30	25	22	21																				

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

	0°	45°	90°
0°	2699	2699	2699
5°	2681	2694	2709
10°	2653	2673	2692
15°	2622	2640	2695
20°	2593	2621	2750
25°	2562	2636	2940
30°	2528	2724	3327
35°	2497	2922	3810
40°	2453	3244	4306
45°	2392	3608	4831
50°	2262	3724	3396
55°	1977	2963	1936
60°	1295	1647	1358
65°	424	742	927
70°	141	228	238
75°	90	135	128
80°	67	96	86
85°	57	57	57



TEST NUMBER: 104P230

CATALOG NUMBER: 2PGX-232S26I-PAF

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	153.3	3.5	2.7	0°	1626	1626	1626	1626	1626	
10°-20°	435.8	10.1	7.6	5°	1609	1613	1617	1620	1626	152
20°-30°	682.6	15.8	12.0	15°	1526	1530	1536	1554	1568	431
30°-40°	938.2	21.7	16.5	25°	1399	1396	1439	1542	1605	645
40°-50°	1129.2	26.1	19.8	35°	1232	1239	1442	1743	1880	770
50°-60°	755.1	17.4	13.2	45°	1019	1104	1537	1887	2058	782
60°-70°	205.7	4.8	3.6	55°	683	936	1024	749	669	592
70°-80°	23.6	0.5	0.4	65°	108	146	189	222	236	144
80°-90°	4.0	0.1	0.1	75°	14	18	21	23	20	16
90°-100°	0.0	0.0	0.0	85°	3	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°	1271.6	29.4	22.3	165°	0	0	0	0	0	0
0°-40°	2209.9	51.1	38.8	175°	0	0	0	0	0	0
0°-60°	4094.3	94.6	71.8	180°	0	0	0	0	0	0
0°-90°	4327.6	100.0	75.9							
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°	4327.6	100.0	75.9							



TEST NUMBER: 104P230

CATALOG NUMBER: 2PGX-232S26I-PAF

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1626	1626	1626	1626	1626
2.5°	1618	1621	1624	1626	1634
5°	1609	1613	1617	1620	1626
7.5°	1594	1598	1605	1607	1613
10°	1574	1579	1586	1591	1597
12.5°	1553	1557	1562	1572	1581
15°	1526	1530	1536	1554	1568
17.5°	1498	1501	1510	1538	1556
20°	1468	1469	1484	1527	1557
22.5°	1435	1434	1460	1527	1573
25°	1399	1396	1439	1542	1605
27.5°	1360	1358	1425	1571	1661
30°	1319	1317	1421	1621	1736
32.5°	1277	1278	1426	1682	1816
35°	1232	1239	1442	1743	1880
37.5°	1184	1202	1468	1786	1919
40°	1132	1167	1497	1819	1987
42.5°	1078	1133	1523	1871	2086
45°	1019	1104	1537	1887	2058
47.5°	953	1076	1515	1755	1745
50°	876	1045	1442	1399	1315
52.5°	785	1003	1268	1030	954
55°	683	936	1024	749	669
57.5°	556	805	736	534	499
60°	390	576	496	404	409
62.5°	222	316	321	315	334
65°	108	146	189	222	236
67.5°	51	69	98	124	111
70°	29	38	47	57	49
72.5°	20	26	30	33	30
75°	14	18	21	23	20
77.5°	10	13	15	16	14
80°	7	9	10	11	9
82.5°	4	6	6	7	6
85°	3	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



TEST NUMBER: 104P230

CATALOG NUMBER: 2PGX-232S26I-PAF

**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)