

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: 189P108

Luminaire Tested: **PGX-232S18I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 189P108
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: PGX-232S18I-PAF
Description: 1 X 4 Recessed Convertible Body Troffer with a
4" deep 8 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. = 87.6

Summary

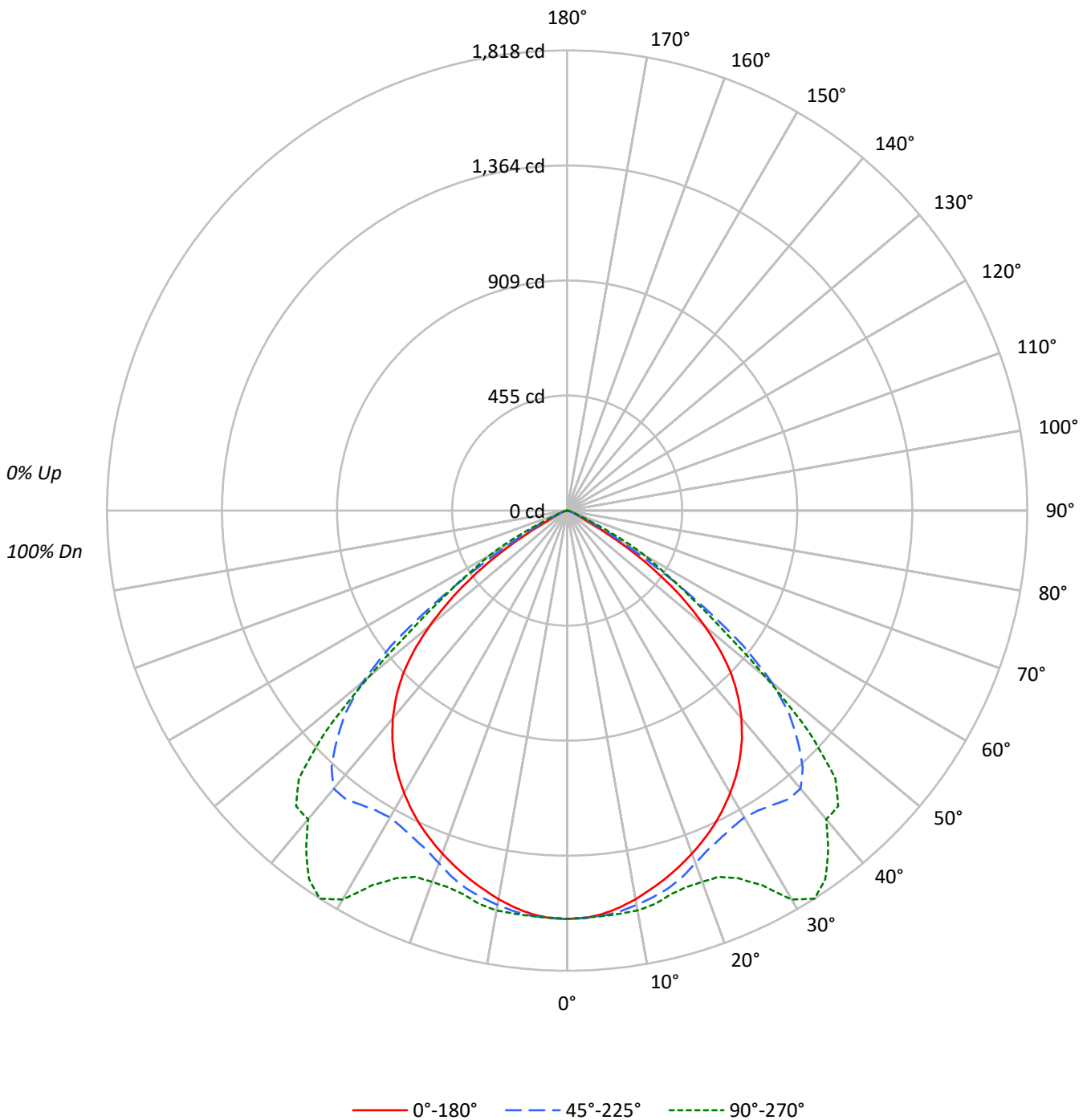
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3757.8 lumens
Efficiency: 67.1%
Efficacy: 64.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.58 / 1.49
Luminous Opening: Rectangular (W 0.74' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 57.9
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



TEST NUMBER: 189P108
CATALOG NUMBER: PGX-232S18I-PAF

Luminous Intensity Polar Plot





TEST NUMBER: 189P108

CATALOG NUMBER: PGX-232S18I-PAF

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	75	75	75	71	71	71	68	68	68	67
1	75	72	70	68	73	71	69	67	68	67	65	66	64	63	63	62	61	60
2	69	65	61	58	68	64	60	58	62	59	56	59	57	55	57	56	54	53
3	64	58	54	50	63	57	53	50	55	52	49	54	51	48	52	50	47	46
4	59	52	47	44	58	52	47	43	50	46	43	49	45	42	47	44	42	40
5	55	47	42	38	54	47	42	38	45	41	38	44	40	37	43	40	37	36
6	51	43	38	34	50	42	37	34	41	37	33	40	36	33	39	35	33	31
7	47	39	34	30	46	38	33	30	38	33	30	37	32	29	36	32	29	28
8	44	36	30	27	43	35	30	27	34	30	27	34	29	26	33	29	26	25
9	41	33	28	24	40	32	27	24	32	27	24	31	27	24	30	27	24	23
10	39	30	25	22	38	30	25	22	29	25	22	29	25	22	28	24	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6260	6260	6260
5°	6233	6261	6264
10°	6144	6234	6321
15°	6043	6208	6312
20°	5956	6121	6447
25°	5875	6124	6864
30°	5772	6274	7950
35°	5643	6723	8424
40°	5426	7265	8065
45°	5044	7075	8227
50°	4287	6376	6183
55°	3085	4303	4033
60°	1413	1940	2717
65°	468	771	946
70°	250	340	363
75°	165	210	225
80°	112	134	156
85°	45	89	89



TEST NUMBER: 189P108

CATALOG NUMBER: PGX-232S18I-PAF

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	152.6	4.1	2.7	0°	1613	1613	1613	1613	1613	
10°-20°	435.3	11.6	7.8	5°	1600	1601	1607	1613	1608	151
20°-30°	679.0	18.1	12.1	15°	1504	1513	1545	1570	1571	424
30°-40°	902.3	24.0	16.1	25°	1372	1394	1430	1531	1603	632
40°-50°	929.0	24.7	16.6	35°	1191	1224	1419	1688	1778	743
50°-60°	533.6	14.2	9.5	45°	919	1048	1289	1392	1499	700
60°-70°	107.9	2.9	1.9	55°	456	612	636	588	596	401
70°-80°	15.6	0.4	0.3	65°	51	66	84	105	103	68
80°-90°	2.6	0.1	0.0	75°	11	12	14	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°	1266.8	33.7	22.6	165°	0	0	0	0	0	0
0°-40°	2169.1	57.7	38.7	175°	0	0	0	0	0	0
0°-60°	3631.7	96.6	64.9	180°	0	0	0	0	0	0
0°-90°	3757.8	100.0	67.1							
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°	3757.8	100.0	67.1							



TEST NUMBER: 189P108

CATALOG NUMBER: PGX-232S18I-PAF

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1613	1613	1613	1613	1613
2.5°	1611	1610	1612	1616	1609
5°	1600	1601	1607	1613	1608
7.5°	1582	1585	1597	1609	1606
10°	1559	1564	1582	1604	1604
12.5°	1532	1540	1565	1594	1593
15°	1504	1513	1545	1570	1571
17.5°	1474	1486	1517	1544	1560
20°	1442	1457	1482	1534	1561
22.5°	1408	1427	1451	1525	1566
25°	1372	1394	1430	1531	1603
27.5°	1332	1357	1412	1563	1669
30°	1288	1315	1400	1619	1774
32.5°	1242	1271	1405	1691	1818
35°	1191	1224	1419	1688	1778
37.5°	1134	1180	1437	1623	1694
40°	1071	1138	1434	1530	1592
42.5°	1000	1095	1378	1435	1585
45°	919	1048	1289	1392	1499
47.5°	823	990	1190	1250	1298
50°	710	907	1056	1030	1024
52.5°	587	780	874	781	776
55°	456	612	636	588	596
57.5°	319	429	412	443	453
60°	182	256	250	318	350
62.5°	90	131	150	206	233
65°	51	66	84	105	103
67.5°	33	40	46	52	52
70°	22	26	30	32	32
72.5°	16	18	20	22	21
75°	11	12	14	15	15
77.5°	7	8	9	10	10
80°	5	5	6	7	7
82.5°	3	3	4	4	4
85°	1	2	2	2	2
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: 189P108

CATALOG NUMBER: PGX-232S18I-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)