

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: 193P100

Luminaire Tested: **PGX2048-232S26I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 193P100
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: PGX2048-232S26I-PAF
Description: 20 X 48 Recessed Convertible Body Troffer with a
4" deep 12 cell semi-specular parabolic louver.
Light Source: Two-FO32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic : L.O.B.F. = 87.16

Summary

Lumens per Lamp: 2850 (2 lamps)
Luminaire Lumens: 4118.2 lumens
Efficiency: 72.2%
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.7 / 1.55
Luminous Opening: Rectangular (W 1.4' x L: 3.76' x H: 0')
CIE Type: Direct

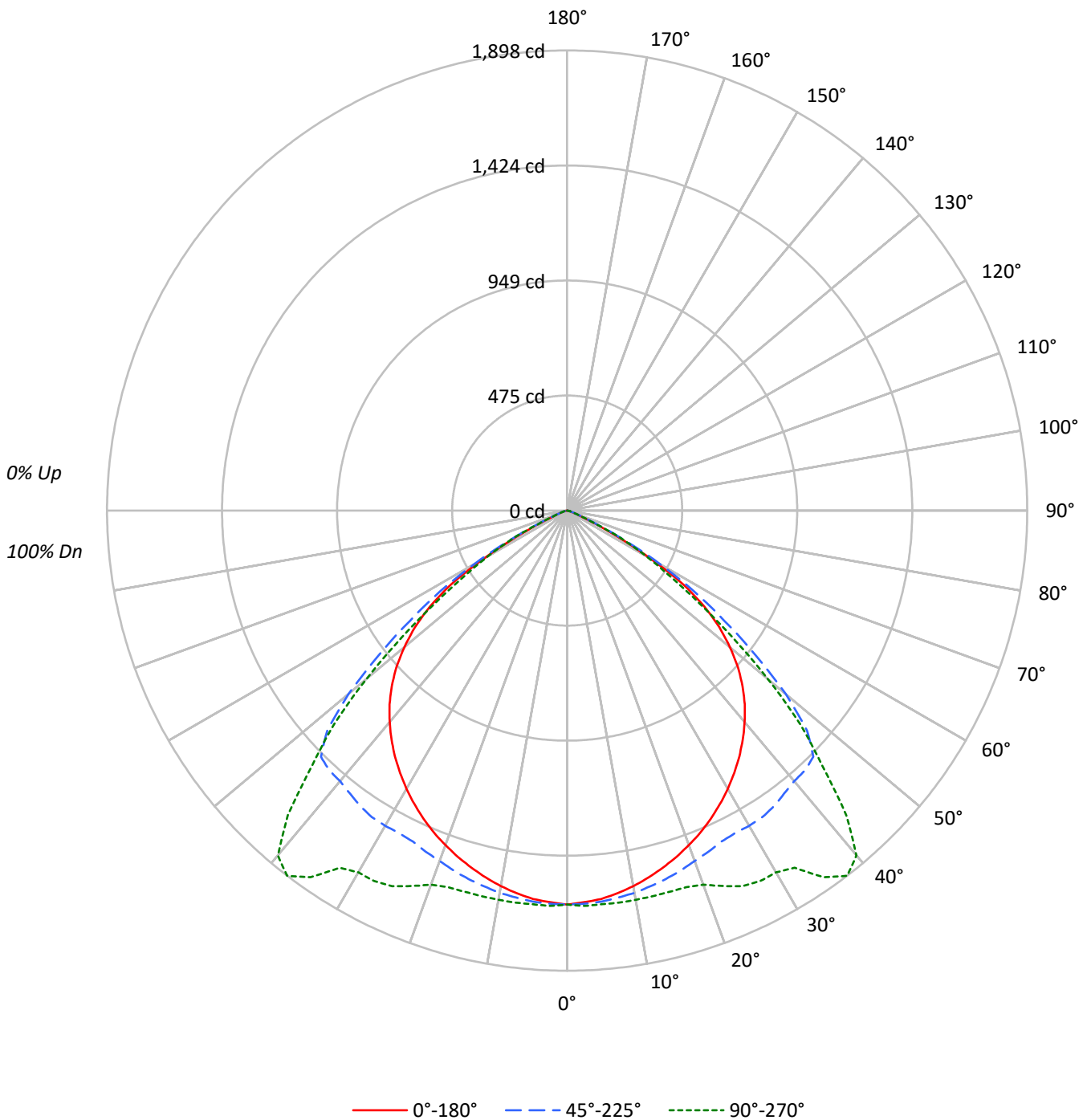
Input Watts (W): 58.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	86	86	86	86	84	84	84	84	80	80	80	77	77	77	74	74	74	72																				
1	80	78	75	73	79	76	74	72	73	71	70	70	69	68	68	67	66	64																				
2	74	69	65	62	73	68	64	61	66	63	60	63	61	59	61	59	57	56																				
3	69	62	57	53	67	61	56	53	59	55	52	57	54	51	55	52	50	49																				
4	63	56	50	46	62	55	50	46	53	48	45	51	47	44	50	47	44	42																				
5	58	50	44	40	57	49	44	40	48	43	39	46	42	39	45	41	38	37																				
6	54	45	39	35	53	45	39	35	43	38	35	42	38	34	41	37	34	33																				
7	50	41	35	31	49	40	35	31	39	34	31	38	34	30	37	33	30	29																				
8	47	37	32	28	46	37	31	28	36	31	27	35	31	27	34	30	27	26																				
9	43	34	29	25	42	34	28	25	33	28	25	32	28	25	32	27	24	23																				
10	41	32	26	22	40	31	26	22	31	26	22	30	25	22	29	25	22	21																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3320	3320	3320
5°	3298	3320	3343
10°	3263	3322	3382
15°	3226	3327	3444
20°	3192	3344	3570
25°	3161	3395	3853
30°	3126	3541	4065
35°	3088	3711	4604
40°	3038	3886	4950
45°	2956	4149	4297
50°	2788	3738	3433
55°	2461	2814	2358
60°	1643	1818	1536
65°	556	701	638
70°	197	215	209
75°	111	118	111
80°	71	82	71
85°	47	47	47



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	153.9	3.7	2.7	0°	1625	1625	1625	1625	1625	
10°-20°	445.2	10.8	7.8	5°	1608	1611	1619	1623	1630	152
20°-30°	708.3	17.2	12.4	15°	1525	1537	1573	1608	1628	430
30°-40°	942.0	22.9	16.5	25°	1402	1433	1506	1637	1709	646
40°-50°	1008.4	24.5	17.7	35°	1238	1300	1488	1671	1846	774
50°-60°	669.5	16.3	11.7	45°	1023	1145	1436	1470	1487	785
60°-70°	170.2	4.1	3.0	55°	691	865	790	687	662	600
70°-80°	18.0	0.4	0.3	65°	115	129	145	156	132	152
80°-90°	2.8	0.1	0.0	75°	14	15	15	15	14	17
90°-100°	0.0	0.0	0.0	85°	2	2	2	2	2	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°	1307.4	31.7	22.9	165°	0	0	0	0	0	0
0°-40°	2249.4	54.6	39.5	175°	0	0	0	0	0	0
0°-60°	3927.2	95.4	68.9	180°	0	0	0	0	0	0
0°-90°	4118.2	100.0	72.2							
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°	4118.2	100.0	72.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1625	1625	1625	1625	1625
2.5°	1617	1619	1623	1625	1632
5°	1608	1611	1619	1623	1630
7.5°	1592	1598	1610	1622	1631
10°	1573	1580	1601	1619	1630
12.5°	1550	1560	1587	1615	1629
15°	1525	1537	1573	1608	1628
17.5°	1498	1514	1557	1604	1629
20°	1468	1489	1538	1599	1642
22.5°	1437	1462	1523	1613	1676
25°	1402	1433	1506	1637	1709
27.5°	1365	1402	1500	1653	1723
30°	1325	1369	1501	1651	1723
32.5°	1283	1335	1499	1643	1746
35°	1238	1300	1488	1671	1846
37.5°	1190	1264	1471	1742	1898
40°	1139	1225	1457	1740	1856
42.5°	1084	1185	1453	1651	1705
45°	1023	1145	1436	1470	1487
47.5°	955	1100	1342	1262	1305
50°	877	1045	1176	1082	1080
52.5°	791	971	980	881	859
55°	691	865	790	687	662
57.5°	570	705	622	515	498
60°	402	485	445	372	376
62.5°	233	263	278	258	266
65°	115	129	145	156	132
67.5°	56	65	67	73	60
70°	33	37	36	38	35
72.5°	21	23	23	23	22
75°	14	15	15	15	14
77.5°	9	10	10	10	9
80°	6	7	7	6	6
82.5°	4	4	4	4	4
85°	2	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)