

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: 104P228

Luminaire Tested: **2P2GX-232W26P-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 104P228
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GX-232W26P-PAF
Description: 2 X 4 Recessed Convertible Body Troffer with a
2" deep 12 cell white painted parabolic louver.
Light Source: Two - F32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 88.1

Summary

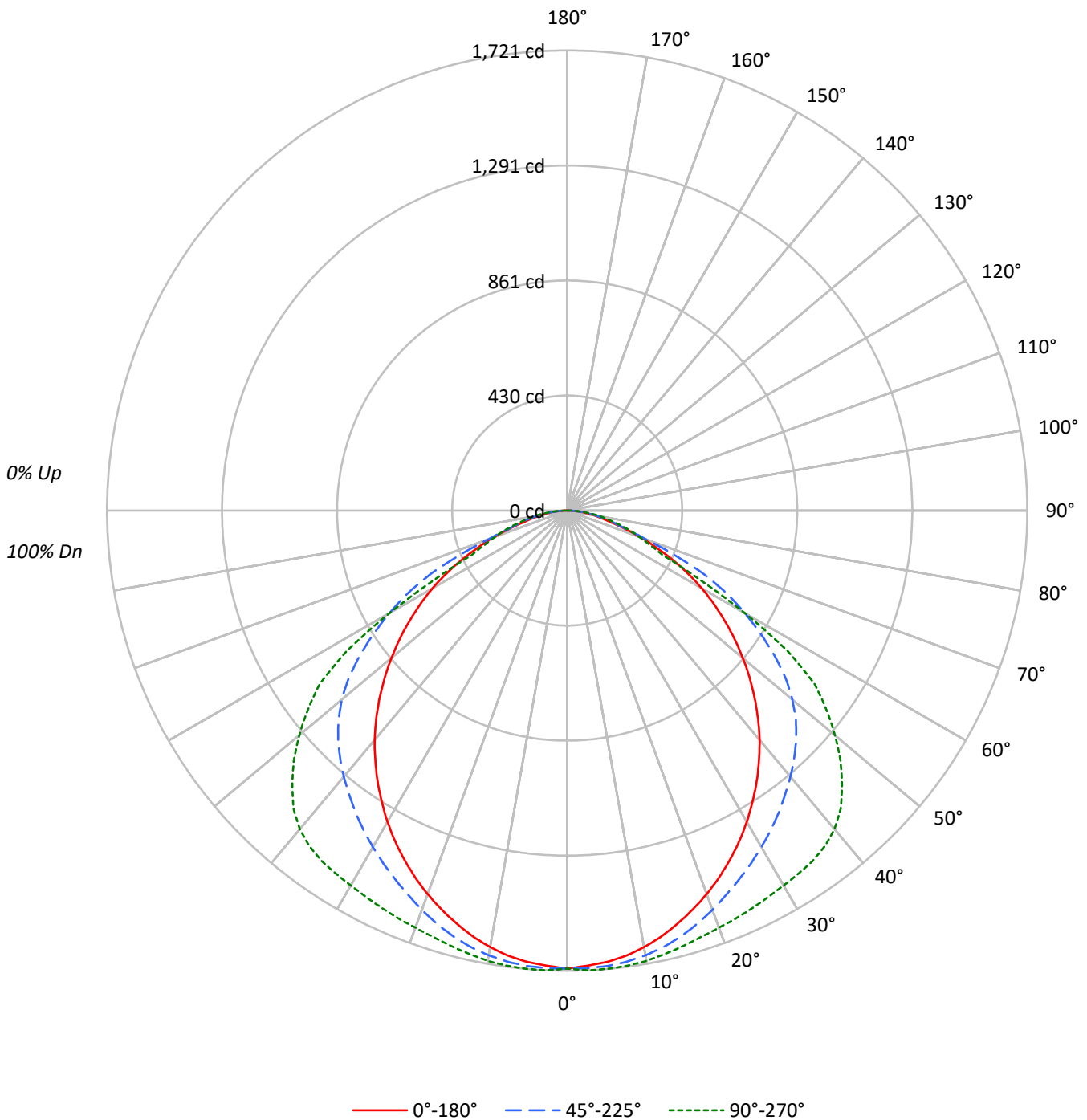
Lumens per Lamp: 2850 (2 lamps)
Luminaire Lumens: 4715.3 lumens
Efficiency: 82.7%
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.43 / 1.42
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 59.1
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									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	98	98	98	98	96	96	96	96	92	92	92	88	88	88	84	84	84	83																			
1	91	87	84	81	88	85	82	79	82	79	77	78	76	75	75	74	72	71																			
2	83	76	71	66	81	75	70	66	72	68	64	69	66	63	67	64	61	60																			
3	76	67	61	56	74	66	60	55	64	58	54	61	57	53	59	55	52	51																			
4	69	60	53	47	67	59	52	47	57	51	46	55	50	46	53	49	45	43																			
5	64	53	46	41	62	52	46	41	51	45	40	49	44	40	48	43	39	37																			
6	59	48	41	36	57	47	40	35	46	40	35	44	39	35	43	38	34	33																			
7	55	44	36	31	53	43	36	31	42	35	31	40	35	31	39	34	31	29																			
8	51	40	33	28	49	39	32	28	38	32	28	37	32	28	36	31	27	26																			
9	47	36	30	25	46	36	29	25	35	29	25	34	29	25	33	28	25	23																			
10	44	34	27	23	43	33	27	23	32	27	23	32	26	22	31	26	22	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2823	2823	2823
5°	2804	2828	2847
10°	2774	2826	2861
15°	2728	2811	2874
20°	2676	2786	2911
25°	2620	2767	2982
30°	2557	2765	3080
35°	2486	2774	3218
40°	2409	2794	3345
45°	2312	2822	3388
50°	2199	2820	3353
55°	2068	2720	3243
60°	1915	2528	2531
65°	1692	2211	1540
70°	1407	1498	1383
75°	1057	1197	1273
80°	968	1063	1205
85°	870	964	1097



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	162.3	3.4	2.8	0°	1713	1713	1713	1713	1713	
10°-20°	464.2	9.8	8.1	5°	1695	1700	1710	1715	1721	161
20°-30°	707.2	15.0	12.4	15°	1599	1617	1648	1672	1685	451
30°-40°	874.5	18.5	15.3	25°	1441	1469	1522	1599	1640	663
40°-50°	932.2	19.8	16.4	35°	1236	1271	1379	1521	1600	773
50°-60°	820.9	17.4	14.4	45°	992	1042	1211	1371	1454	765
60°-70°	489.4	10.4	8.6	55°	720	790	947	1047	1129	643
70°-80°	206.7	4.4	3.6	65°	434	514	567	435	395	430
80°-90°	57.8	1.2	1.0	75°	166	186	188	196	200	190
90°-100°	0.0	0.0	0.0	85°	46	47	51	55	58	49
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	3
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°	1333.8	28.3	23.4	165°	0	0	0	0	0	0
0°-40°	2208.3	46.8	38.7	175°	0	0	0	0	0	0
0°-60°	3961.4	84.0	69.5	180°	0	0	0	0	0	0
0°-90°	4715.3	100.0	82.7							
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°	4715.3	100.0	82.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1713	1713	1713	1713	1713
2.5°	1704	1707	1713	1715	1721
5°	1695	1700	1710	1715	1721
7.5°	1680	1688	1702	1710	1717
10°	1658	1670	1689	1701	1710
12.5°	1631	1646	1671	1688	1698
15°	1599	1617	1648	1672	1685
17.5°	1564	1586	1620	1652	1671
20°	1526	1550	1589	1635	1660
22.5°	1485	1511	1555	1617	1651
25°	1441	1469	1522	1599	1640
27.5°	1394	1423	1488	1581	1629
30°	1344	1376	1453	1561	1619
32.5°	1291	1325	1417	1541	1610
35°	1236	1271	1379	1521	1600
37.5°	1179	1215	1339	1496	1583
40°	1120	1159	1299	1467	1555
42.5°	1057	1101	1257	1426	1514
45°	992	1042	1211	1371	1454
47.5°	926	981	1160	1302	1387
50°	858	919	1100	1225	1308
52.5°	789	855	1030	1139	1222
55°	720	790	947	1047	1129
57.5°	651	727	859	945	977
60°	581	661	767	793	768
62.5°	508	591	674	608	556
65°	434	514	567	435	395
67.5°	361	429	436	326	333
70°	292	342	311	279	287
72.5°	226	260	230	237	243
75°	166	186	188	196	200
77.5°	131	136	148	156	159
80°	102	106	112	122	127
82.5°	73	76	81	88	91
85°	46	47	51	55	58
87.5°	20	21	22	24	26
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)