

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: 104P174

Luminaire Tested: **2P2GX-232S511I-PAF**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 104P174  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2P2GX-232S511I-PAF  
Description: 2 X 4 Recessed Convertible Body Troffer with  
a 2" deep 55 cell semi-specular low iridescent  
parabolic louver.  
Light Source: Two-F32T8/35K - 2900 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Triad-Utrad B232I120RH Electronic

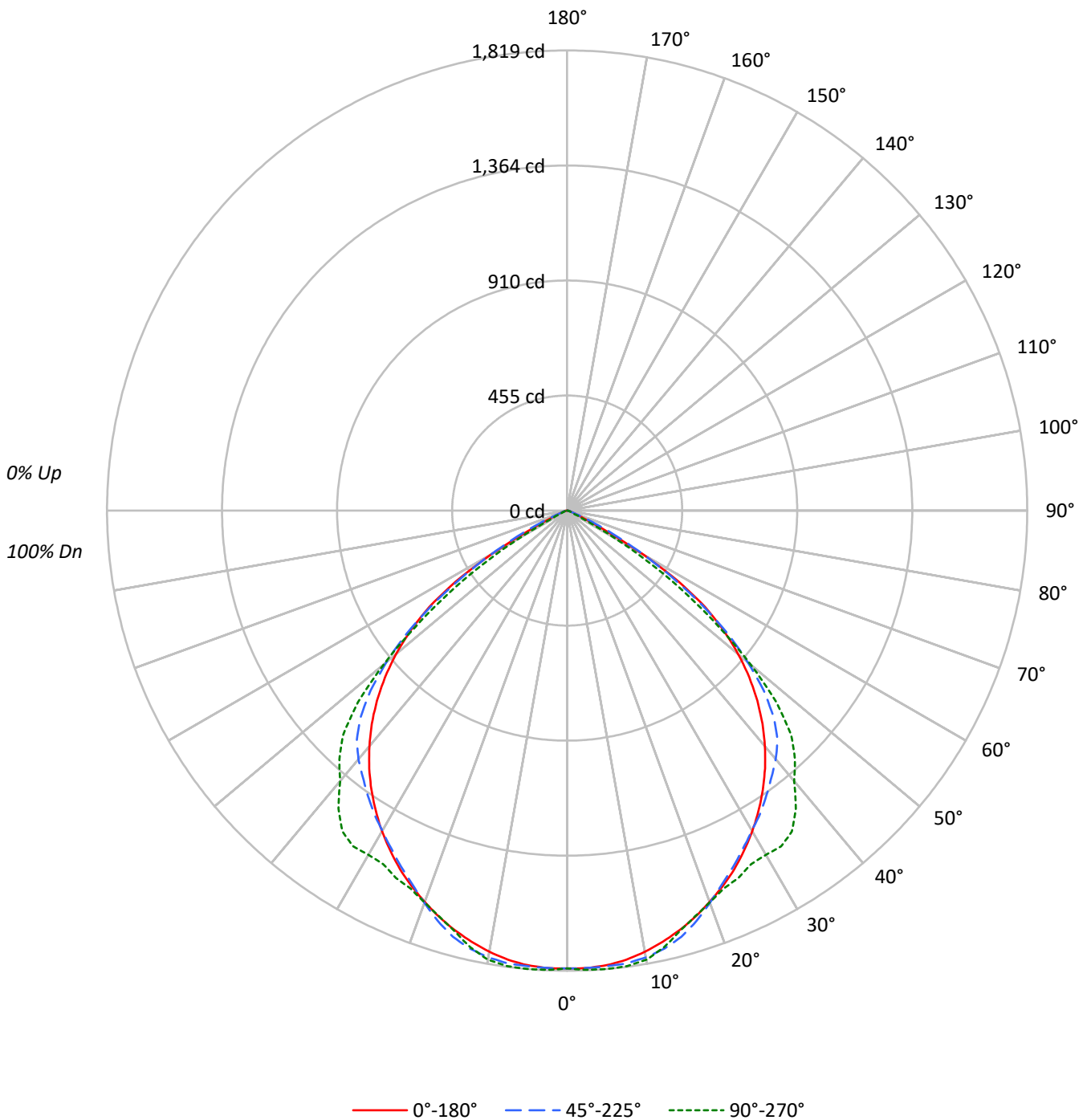
**Summary**

Lumens per Lamp: 2900 (2 lamps)  
Luminaire Lumens: 3816.5 lumens  
Efficiency: 65.8%  
Efficacy: 60.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.33 / 1.35  
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 62.8  
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	0
RCR																				
0	78	78	78	78	77	77	77	77	73	73	73		70	70	70		67	67	67	66
1	73	71	69	67	72	70	68	66	67	65	64		64	63	62		62	61	60	59
2	68	64	60	57	67	63	59	57	61	58	55		58	56	54		57	55	53	52
3	63	57	53	50	62	56	52	49	55	51	48		53	50	48		51	49	47	46
4	58	52	47	43	57	51	46	43	49	45	42		48	45	42		47	44	41	40
5	54	47	42	38	53	46	41	38	45	41	37		44	40	37		42	39	37	35
6	50	43	37	34	49	42	37	33	41	36	33		40	36	33		39	35	33	31
7	47	39	34	30	46	38	33	30	37	33	30		36	32	30		36	32	29	28
8	44	36	30	27	43	35	30	27	34	30	27		34	30	27		33	29	26	25
9	41	33	28	24	40	32	28	24	32	27	24		31	27	24		30	27	24	23
10	38	30	25	22	38	30	25	22	29	25	22		29	25	22		28	25	22	21

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

	0°	45°	90°
0°	2978	2978	2978
5°	2980	2986	3005
10°	2959	2996	3013
15°	2925	2971	2932
20°	2882	2889	2886
25°	2840	2820	2909
30°	2782	2776	2985
35°	2710	2760	3112
40°	2612	2756	2999
45°	2474	2685	2913
50°	2260	2386	2429
55°	1911	1870	1655
60°	1132	1145	708
65°	273	467	101
70°	125	115	72
75°	89	83	57
80°	66	66	47
85°	57	57	38



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	172.0	4.5	3.0	0°	1810	1810	1810	1810	1810	
10°-20°	487.2	12.8	8.4	5°	1804	1802	1808	1811	1819	171
20°-30°	725.2	19.0	12.5	15°	1717	1729	1744	1726	1721	484
30°-40°	880.6	23.1	15.2	25°	1564	1579	1553	1576	1602	720
40°-50°	867.9	22.7	15.0	35°	1349	1345	1374	1491	1549	842
50°-60°	555.7	14.6	9.6	45°	1063	1059	1154	1190	1252	816
60°-70°	110.4	2.9	1.9	55°	666	656	652	597	577	575
70°-80°	14.0	0.4	0.2	65°	70	95	120	38	26	113
80°-90°	3.5	0.1	0.1	75°	14	15	13	11	9	15
90°-100°	0.0	0.0	0.0	85°	3	3	3	3	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°	1384.5	36.3	23.9	165°	0	0	0	0	0	0
0°-40°	2265.1	59.3	39.1	175°	0	0	0	0	0	0
0°-60°	3688.6	96.6	63.6	180°	0	0	0	0	0	0
0°-90°	3816.5	100.0	65.8							
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°	3816.5	100.0	65.8							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1810	1810	1810	1810	1810
2.5°	1810	1807	1810	1808	1817
5°	1804	1802	1808	1811	1819
7.5°	1791	1792	1805	1808	1816
10°	1771	1777	1793	1797	1803
12.5°	1746	1756	1774	1770	1768
15°	1717	1729	1744	1726	1721
17.5°	1684	1698	1701	1680	1682
20°	1646	1664	1650	1643	1648
22.5°	1607	1624	1599	1604	1617
25°	1564	1579	1553	1576	1602
27.5°	1515	1527	1506	1548	1575
30°	1464	1470	1461	1522	1571
32.5°	1408	1409	1420	1506	1574
35°	1349	1345	1374	1491	1549
37.5°	1285	1277	1327	1447	1485
40°	1216	1208	1283	1372	1396
42.5°	1143	1136	1231	1272	1333
45°	1063	1059	1154	1190	1252
47.5°	977	974	1054	1079	1122
50°	883	881	932	936	949
52.5°	781	777	801	769	759
55°	666	656	652	597	577
57.5°	522	513	494	428	398
60°	344	361	348	274	215
62.5°	168	212	221	128	68
65°	70	95	120	38	26
67.5°	39	45	53	24	20
70°	26	29	24	18	15
72.5°	18	20	17	14	11
75°	14	15	13	11	9
77.5°	10	11	10	8	7
80°	7	8	7	6	5
82.5°	5	5	5	4	4
85°	3	3	3	3	2
87.5°	2	2	2	2	2
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)