

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: 104P166

Luminaire Tested: **2P2GX-332W36P-2BC-PAF**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 104P166  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2P2GX-332W36P-2BC-PAF  
Description: 2 X 4 Recessed Convertible Body Troffer with a  
2" deep 18 cell white powder painted louver.  
Light Source: Three-F32T8/35K - 2900 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Triad-Utrad B332I120RH Electronic

**Summary**

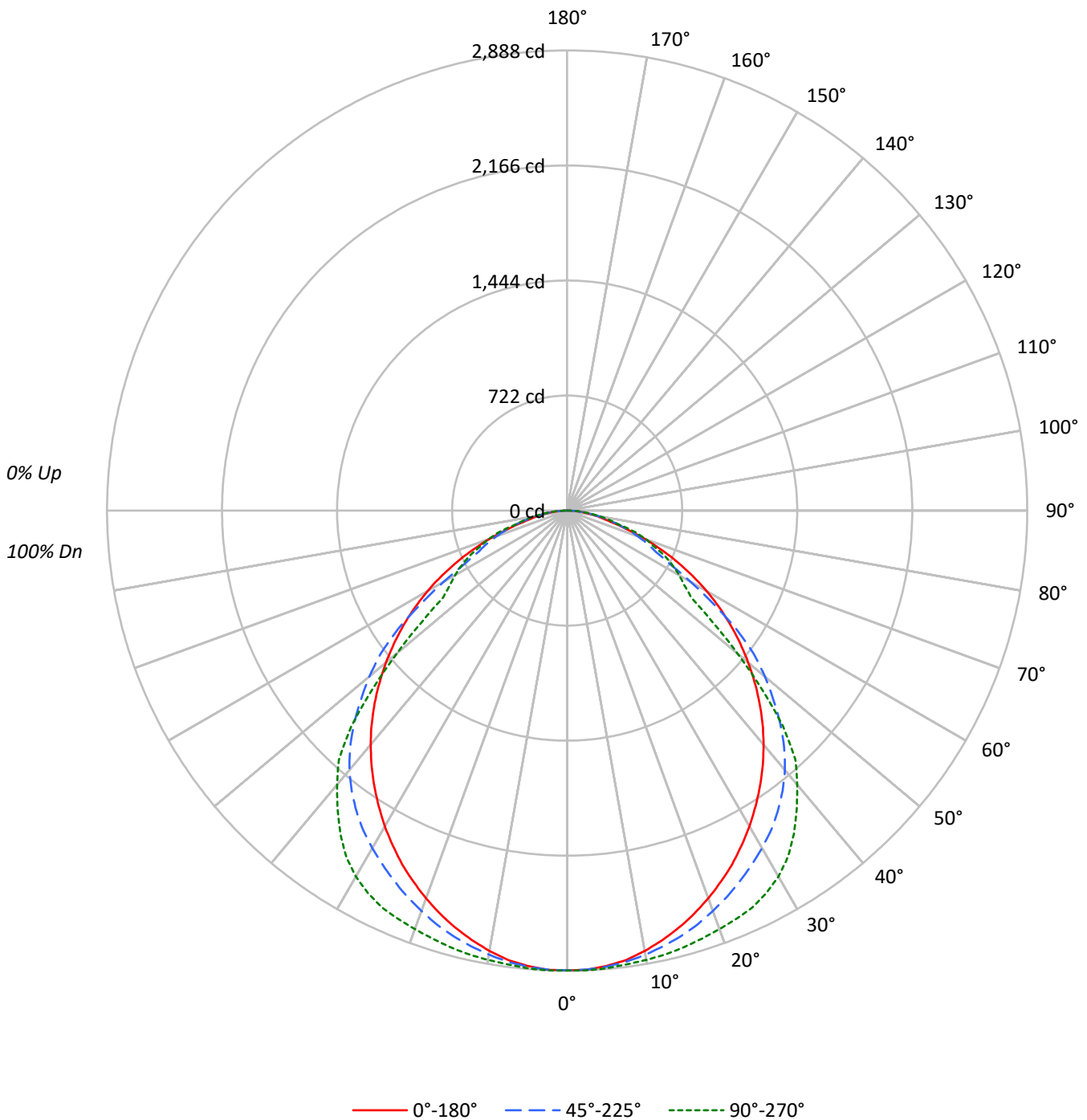
Lumens per Lamp: 2900 (3 lamps)  
Luminaire Lumens: 7304.6 lumens  
Efficiency: 84.0%  
Efficacy: 80.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.34 / 1.37  
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')  
CIE Type: Direct

Input Watts (W): 90.6  
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: 104P166

CATALOG NUMBER: 2P2GX-332W36P-2BC-PAF

### 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	100	100	100	100	98	98	98	98	93	93	93		89	89	89		86	86	86	84
1	92	88	85	82	90	86	83	81	83	80	78		80	78	76		77	75	74	72
2	84	78	73	68	82	76	71	67	73	69	66		71	67	64		68	65	63	61
3	77	69	62	57	75	68	62	57	65	60	56		63	59	55		61	57	54	52
4	71	61	54	49	69	60	54	49	58	53	48		56	51	47		55	50	47	45
5	66	55	48	43	64	54	47	42	53	47	42		51	46	41		49	45	41	39
6	61	50	43	37	59	49	42	37	48	41	37		46	41	37		45	40	36	35
7	56	45	38	33	55	45	38	33	43	37	33		42	37	33		41	36	32	31
8	52	41	35	30	51	41	34	30	40	34	29		39	33	29		38	33	29	28
9	49	38	31	27	48	38	31	27	37	31	27		36	30	26		35	30	26	25
10	46	35	29	24	45	35	29	24	34	28	24		33	28	24		32	28	24	23

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

	0°	45°	90°
0°	4749	4749	4749
5°	4737	4745	4762
10°	4688	4728	4784
15°	4616	4708	4831
20°	4535	4682	4894
25°	4448	4659	4989
30°	4349	4647	5039
35°	4240	4630	4982
40°	4120	4567	4824
45°	3975	4400	4459
50°	3799	4144	3571
55°	3592	3712	2725
60°	3330	2942	2676
65°	2967	2394	2644
70°	2478	2271	2535
75°	1869	2073	2111
80°	1677	1838	1971
85°	1510	1643	1794



TEST NUMBER: 104P166

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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	272.9	3.7	3.1	0°	2886	2886	2886	2886	2886	
10°-20°	781.1	10.7	9.0	5°	2868	2869	2873	2875	2883	272
20°-30°	1189.4	16.3	13.7	15°	2710	2722	2764	2810	2836	764
30°-40°	1432.1	19.6	16.5	25°	2450	2478	2566	2682	2748	1128
40°-50°	1414.4	19.4	16.3	35°	2111	2159	2305	2418	2480	1319
50°-60°	1072.6	14.7	12.3	45°	1708	1780	1891	1923	1916	1316
60°-70°	693.4	9.5	8.0	55°	1252	1341	1294	1018	950	1117
70°-80°	350.8	4.8	4.0	65°	762	802	615	646	679	754
80°-90°	97.9	1.3	1.1	75°	294	305	326	330	332	334
90°-100°	0.0	0.0	0.0	85°	80	81	87	92	95	85
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	5
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°	2243.4	30.7	25.8	165°	0	0	0	0	0	0
0°-40°	3675.5	50.3	42.2	175°	0	0	0	0	0	0
0°-60°	6162.5	84.4	70.8	180°	0	0	0	0	0	0
0°-90°	7304.6	100.0	84.0							
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°	7304.6	100.0	84.0							



TEST NUMBER: 104P166

CATALOG NUMBER: 2P2GX-332W36P-2BC-PAF

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2886	2886	2886	2886	2886
2.5°	2884	2881	2883	2881	2888
5°	2868	2869	2873	2875	2883
7.5°	2844	2846	2855	2862	2872
10°	2806	2813	2830	2849	2863
12.5°	2761	2771	2799	2832	2853
15°	2710	2722	2764	2810	2836
17.5°	2653	2669	2723	2782	2816
20°	2590	2609	2674	2750	2795
22.5°	2521	2545	2623	2717	2774
25°	2450	2478	2566	2682	2748
27.5°	2370	2404	2507	2637	2707
30°	2289	2328	2446	2579	2652
32.5°	2200	2246	2381	2510	2578
35°	2111	2159	2305	2418	2480
37.5°	2016	2069	2220	2309	2366
40°	1918	1976	2126	2186	2246
42.5°	1816	1879	2016	2060	2121
45°	1708	1780	1891	1923	1916
47.5°	1596	1677	1756	1719	1655
50°	1484	1571	1619	1476	1395
52.5°	1368	1459	1477	1236	1151
55°	1252	1341	1294	1018	950
57.5°	1132	1217	1087	846	871
60°	1012	1084	894	777	813
62.5°	888	943	726	714	747
65°	762	802	615	646	679
67.5°	636	664	547	573	590
70°	515	524	472	491	527
72.5°	400	398	399	433	445
75°	294	305	326	330	332
77.5°	229	238	258	263	269
80°	177	183	194	203	208
82.5°	127	131	139	147	150
85°	80	81	87	92	95
87.5°	35	35	37	40	42
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: 104P166

CATALOG NUMBER: 2P2GX-332W36P-2BC-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)