

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: 104P165

Luminaire Tested: **2P2GX-332S36I-2BC-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 104P165
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GX-332S36I-2BC-PAF
Description: 2 X 4 Recessed Convertible Body Troffer with a
a 2" deep 18 cell semi-specular low iridescent
parabolic louver.
Light Source: Three-F32T8/35K - 2900 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B332I120RH Electronic

Summary

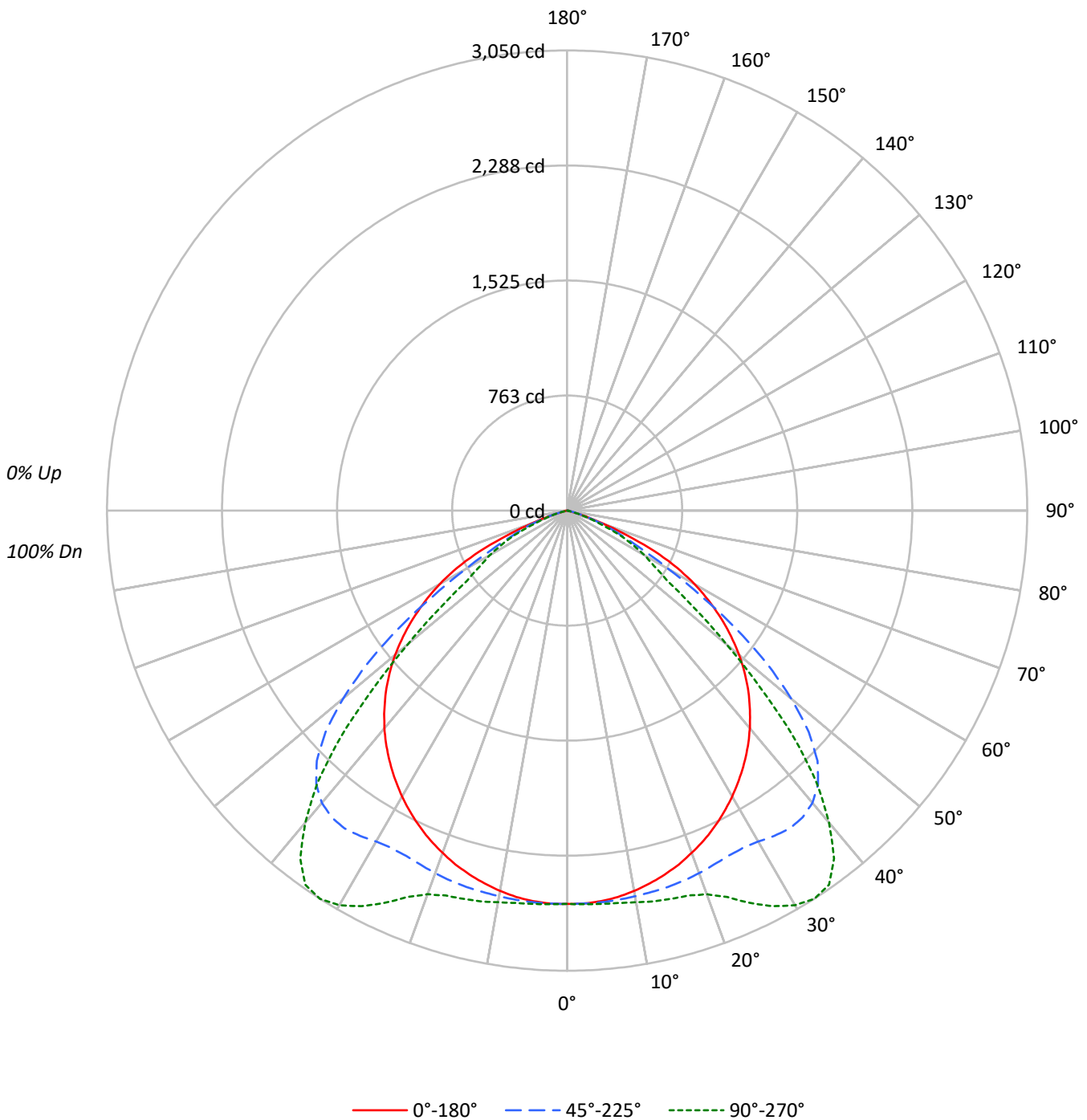
Lumens per Lamp: 2900 (3 lamps)
Luminaire Lumens: 7024.4 lumens
Efficiency: 80.7%
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.62 / 1.55
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 90.5
Input Voltage (V): NR
Input Current (A_{in}): 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: 104P165

CATALOG NUMBER: 2P2GX-332S36I-2BC-PAF

Luminous Intensity Polar Plot





TEST NUMBER: 104P165

CATALOG NUMBER: 2P2GX-332S36I-2BC-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	96	96	96	96	94	94	94	94	90	90	90		86	86	86		82	82	82	81
1	90	86	84	81	87	85	82	80	81	79	77		78	77	75		75	74	73	71
2	83	77	72	68	81	75	71	68	73	69	66		70	67	64		68	65	63	62
3	76	68	63	58	74	67	62	58	65	60	57		63	59	56		61	58	55	53
4	70	61	55	50	68	60	54	50	58	53	49		56	52	48		55	51	48	46
5	64	55	48	43	63	54	48	43	52	47	43		51	46	42		49	45	42	40
6	60	50	43	38	58	49	42	38	47	42	38		46	41	37		45	40	37	35
7	55	45	38	34	54	44	38	34	43	37	33		42	37	33		41	36	33	31
8	51	41	34	30	50	40	34	30	39	34	30		38	33	30		38	33	29	28
9	48	38	31	27	47	37	31	27	36	31	27		35	30	27		35	30	26	25
10	45	35	28	24	44	34	28	24	33	28	24		33	28	24		32	27	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4290	4290	4290
5°	4291	4304	4323
10°	4277	4338	4404
15°	4255	4398	4538
20°	4227	4479	4738
25°	4198	4586	5211
30°	4157	4813	5738
35°	4108	5166	6078
40°	4047	5432	5800
45°	3954	5459	4943
50°	3809	4961	3528
55°	3574	3933	2324
60°	3212	2564	1945
65°	2500	1608	1495
70°	1222	991	823
75°	242	362	114
80°	114	123	95
85°	94	113	94



TEST NUMBER: 104P165

CATALOG NUMBER: 2P2GX-332S36I-2BC-PAF

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	248.5	3.5	2.9	0°	2607	2607	2607	2607	2607	
10°-20°	730.4	10.4	8.4	5°	2598	2598	2606	2613	2617	247
20°-30°	1186.3	16.9	13.6	15°	2498	2519	2582	2642	2664	705
30°-40°	1583.4	22.5	18.2	25°	2312	2374	2526	2751	2870	1065
40°-50°	1596.6	22.7	18.4	35°	2045	2168	2572	2917	3026	1279
50°-60°	1089.5	15.5	12.5	45°	1699	1907	2346	2232	2124	1308
60°-70°	507.4	7.2	5.8	55°	1246	1522	1371	911	810	1109
70°-80°	75.9	1.1	0.9	65°	642	730	413	386	384	618
80°-90°	6.3	0.1	0.1	75°	38	48	57	29	18	82
90°-100°	0.0	0.0	0.0	85°	5	6	6	5	5	6
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°	2165.2	30.8	24.9	165°	0	0	0	0	0	0
0°-40°	3748.7	53.4	43.1	175°	0	0	0	0	0	0
0°-60°	6434.8	91.6	74.0	180°	0	0	0	0	0	0
0°-90°	7024.4	100.0	80.7							
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°	7024.4	100.0	80.7							



TEST NUMBER: 104P165

CATALOG NUMBER: 2P2GX-332S36I-2BC-PAF

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2607	2607	2607	2607	2607
2.5°	2607	2603	2607	2610	2611
5°	2598	2598	2606	2613	2617
7.5°	2583	2587	2602	2617	2623
10°	2560	2570	2596	2624	2636
12.5°	2531	2546	2589	2634	2653
15°	2498	2519	2582	2642	2664
17.5°	2460	2488	2572	2644	2675
20°	2414	2453	2558	2654	2706
22.5°	2367	2415	2540	2686	2773
25°	2312	2374	2526	2751	2870
27.5°	2253	2329	2521	2826	2956
30°	2188	2280	2533	2885	3020
32.5°	2119	2226	2556	2919	3050
35°	2045	2168	2572	2917	3026
37.5°	1968	2106	2563	2858	2906
40°	1884	2043	2529	2716	2700
42.5°	1794	1978	2461	2497	2450
45°	1699	1907	2346	2232	2124
47.5°	1597	1833	2172	1905	1737
50°	1488	1748	1938	1531	1378
52.5°	1370	1647	1674	1194	1066
55°	1246	1522	1371	911	810
57.5°	1114	1367	1051	694	681
60°	976	1177	779	581	591
62.5°	822	961	565	487	487
65°	642	730	413	386	384
67.5°	432	490	315	287	262
70°	254	270	206	178	171
72.5°	127	126	116	109	101
75°	38	48	57	29	18
77.5°	16	19	26	16	13
80°	12	13	13	12	10
82.5°	8	9	9	8	7
85°	5	6	6	5	5
87.5°	3	3	3	3	3
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: 104P165

CATALOG NUMBER: 2P2GX-332S36I-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)