

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: 104P168

Luminaire Tested: **2P2GX-332S511I-2BC-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 104P168
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GX-332S511I-2BC-PAF
Description: 2 X 4 Recessed Convertible Body Troffer with a
a 2" deep 55 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

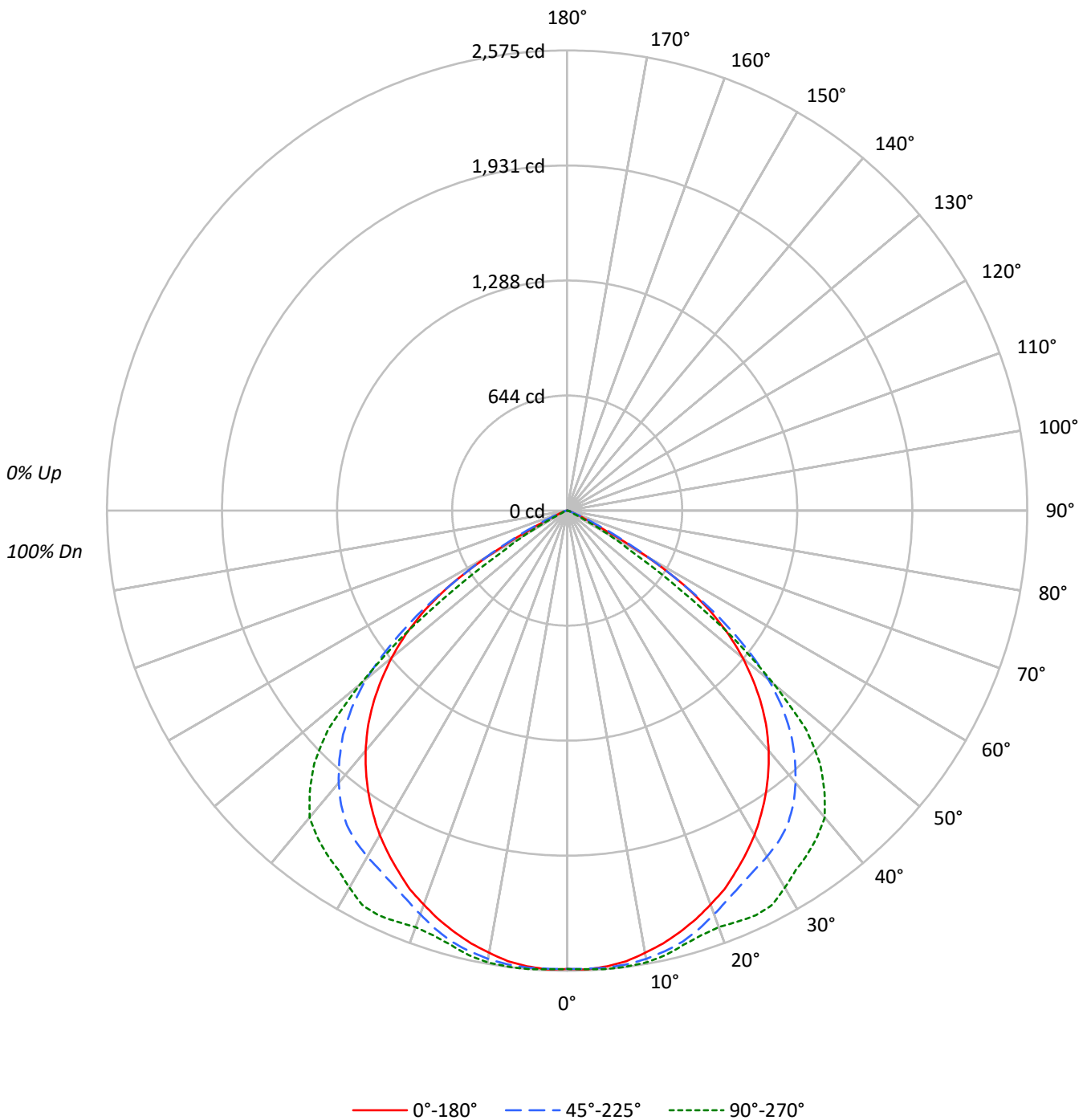
Lumens per Lamp: 2900 (3 lamps)
Luminaire Lumens: 5727.7 lumens
Efficiency: 65.8%
Efficacy: 62.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.41 / 1.4
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 91.2
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: 104P168

CATALOG NUMBER: 2P2GX-332S511I-2BC-PAF

Luminous Intensity Polar Plot





TEST NUMBER: 104P168

CATALOG NUMBER: 2P2GX-332S511I-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	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	60	58	55		58	56	54		57	55	53	52
3	63	57	53	49	62	56	52	49	55	51	48		53	50	47		51	49	47	45
4	58	52	47	43	57	51	46	43	49	45	42		48	44	42		47	44	41	40
5	54	47	42	38	53	46	41	38	45	40	37		43	40	37		42	39	36	35
6	50	42	37	33	49	42	37	33	41	36	33		40	36	33		39	35	32	31
7	47	39	33	30	46	38	33	30	37	33	29		36	32	29		35	32	29	28
8	43	35	30	27	42	35	30	27	34	30	26		33	29	26		33	29	26	25
9	41	32	27	24	40	32	27	24	31	27	24		31	27	24		30	26	24	23
10	38	30	25	22	37	30	25	22	29	25	22		28	24	22		28	24	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4221	4221	4221
5°	4228	4240	4253
10°	4199	4256	4289
15°	4158	4254	4286
20°	4108	4210	4343
25°	4051	4190	4537
30°	3984	4248	4628
35°	3891	4317	4712
40°	3768	4272	4816
45°	3581	4126	4659
50°	3282	3766	3868
55°	2791	2952	2241
60°	1698	1738	866
65°	409	600	132
70°	178	159	91
75°	121	108	70
80°	85	85	47
85°	76	57	38



TEST NUMBER: 104P168

CATALOG NUMBER: 2P2GX-332S511I-2BC-PAF

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	244.2	4.3	2.8	0°	2565	2565	2565	2565	2565	
10°-20°	701.9	12.3	8.1	5°	2560	2557	2567	2572	2575	243
20°-30°	1081.1	18.9	12.4	15°	2441	2461	2497	2513	2516	688
30°-40°	1332.7	23.3	15.3	25°	2231	2268	2308	2437	2499	1028
40°-50°	1344.9	23.5	15.5	35°	1937	1975	2149	2260	2346	1210
50°-60°	843.0	14.7	9.7	45°	1539	1617	1773	1895	2002	1181
60°-70°	157.7	2.8	1.8	55°	973	1028	1029	898	781	842
70°-80°	18.4	0.3	0.2	65°	105	146	154	51	34	169
80°-90°	3.7	0.1	0.0	75°	19	20	17	14	11	21
90°-100°	0.0	0.0	0.0	85°	4	4	3	2	2	4
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°	2027.2	35.4	23.3	165°	0	0	0	0	0	0
0°-40°	3359.9	58.7	38.6	175°	0	0	0	0	0	0
0°-60°	5547.8	96.9	63.8	180°	0	0	0	0	0	0
0°-90°	5727.7	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°	5727.7	100.0	65.8							



TEST NUMBER: 104P168

CATALOG NUMBER: 2P2GX-332S511I-2BC-PAF

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2565	2565	2565	2565	2565
2.5°	2570	2562	2566	2568	2569
5°	2560	2557	2567	2572	2575
7.5°	2543	2546	2561	2570	2573
10°	2513	2519	2547	2564	2567
12.5°	2481	2495	2526	2546	2548
15°	2441	2461	2497	2513	2516
17.5°	2397	2418	2454	2477	2492
20°	2346	2373	2404	2451	2480
22.5°	2296	2324	2353	2437	2490
25°	2231	2268	2308	2437	2499
27.5°	2166	2204	2269	2426	2487
30°	2097	2130	2236	2389	2436
32.5°	2019	2056	2199	2325	2384
35°	1937	1975	2149	2260	2346
37.5°	1849	1891	2078	2204	2300
40°	1754	1807	1989	2130	2242
42.5°	1653	1717	1886	2038	2132
45°	1539	1617	1773	1895	2002
47.5°	1415	1505	1635	1728	1814
50°	1282	1373	1471	1500	1511
52.5°	1139	1219	1261	1205	1174
55°	973	1028	1029	898	781
57.5°	771	812	770	561	432
60°	516	574	528	308	263
62.5°	254	334	319	167	95
65°	105	146	154	51	34
67.5°	56	66	69	31	25
70°	37	41	33	24	19
72.5°	26	28	22	18	14
75°	19	20	17	14	11
77.5°	13	14	12	10	8
80°	9	10	9	7	5
82.5°	6	6	6	5	3
85°	4	4	3	2	2
87.5°	2	1	1	1	1
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: 104P168

CATALOG NUMBER: 2P2GX-332S511I-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)