

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: 117P104

Luminaire Tested: **2GCAPL-332PB2S-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 117P104
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCAPL-332PB2S-PAF
Description: 2 X 4 Recessed Air Supply Troffer with a
1.5" X 1.5" X 1" Plastic Parabolic Louver.
Light Source: Three - FO32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B332I120RH Electronic - L.O.B.F. = 88.9

Summary

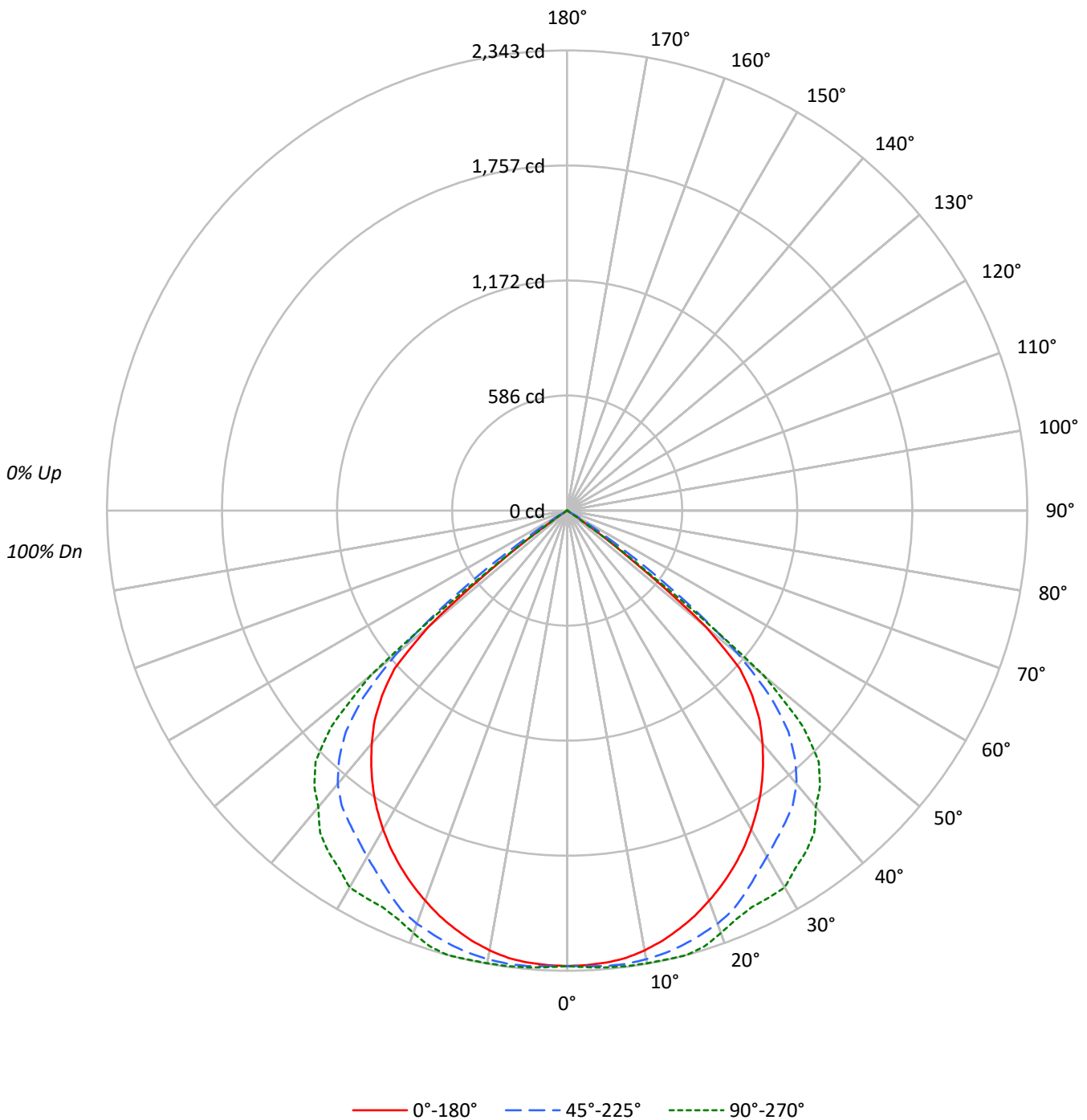
Lumens per Lamp: 2850 (3 lamps)
Luminaire Lumens: 4565.8 lumens
Efficiency: 53.4%
Efficacy: 53.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.41 / 1.4
Luminous Opening: Rectangular (W 1.71' x L: 3.7' x H: 0')
CIE Type: Direct

Input Watts (W): 84.8
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

TEST NUMBER: 117P104

CATALOG NUMBER: 2GCAPL-332PB2S-PAF

Luminous Intensity Polar Plot





TEST NUMBER: 117P104

CATALOG NUMBER: 2GCAPL-332PB2S-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	64	64	64	64	62	62	62	62	59	59	59	57	57	57	54	54	54	53
1	60	58	57	55	59	57	56	54	55	54	53	53	52	51	51	50	50	49
2	56	53	50	48	55	52	50	47	50	48	46	49	47	45	47	46	44	43
3	52	48	45	42	51	47	44	42	46	43	41	44	42	40	43	41	40	39
4	49	44	40	37	48	43	40	37	42	39	36	41	38	36	40	37	36	35
5	45	40	36	33	44	39	36	33	38	35	33	37	34	32	36	34	32	31
6	42	36	32	30	41	36	32	29	35	32	29	34	31	29	33	31	29	28
7	39	33	29	27	39	33	29	26	32	29	26	31	28	26	31	28	26	25
8	37	31	27	24	36	30	27	24	30	26	24	29	26	24	28	26	24	23
9	35	28	24	22	34	28	24	22	27	24	22	27	24	22	26	24	21	21
10	32	26	22	20	32	26	22	20	25	22	20	25	22	20	24	22	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3934	3934	3934
5°	3933	3964	3976
10°	3917	3996	4031
15°	3872	4020	4115
20°	3816	4040	4132
25°	3751	4019	4168
30°	3671	3986	4339
35°	3570	4011	4390
40°	3426	4024	4362
45°	3198	3822	4347
50°	2436	2993	3444
55°	305	1088	269
60°	14	61	10
65°	12	8	8
70°	10	5	5
75°	7	7	7
80°	10	10	10
85°	19	19	0



TEST NUMBER: 117P104

CATALOG NUMBER: 2GCAPL-332PB2S-PAF

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	221.5	4.9	2.6	0°	2319	2319	2319	2319	2319	
10°-20°	644.1	14.1	7.5	5°	2310	2311	2328	2335	2335	219
20°-30°	984.7	21.6	11.5	15°	2205	2236	2289	2331	2343	622
30°-40°	1208.7	26.5	14.1	25°	2004	2062	2147	2202	2227	923
40°-50°	1180.0	25.8	13.8	35°	1724	1809	1937	2062	2120	1076
50°-60°	321.9	7.1	3.8	45°	1333	1446	1593	1719	1812	1003
60°-70°	2.9	0.1	0.0	55°	103	231	368	218	91	220
70°-80°	1.2	0.0	0.0	65°	3	3	2	2	2	3
80°-90°	0.7	0.0	0.0	75°	1	1	1	1	1	1
90°-100°	0.0	0.0	0.0	85°	1	1	1	0	0	1
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°	1850.3	40.5	21.6	165°	0	0	0	0	0	0
0°-40°	3059.0	67.0	35.8	175°	0	0	0	0	0	0
0°-60°	4561.0	99.9	53.3	180°	0	0	0	0	0	0
0°-90°	4565.8	100.0	53.4							
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°	4565.8	100.0	53.4							



TEST NUMBER: 117P104

CATALOG NUMBER: 2GCAPL-332PB2S-PAF

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2319	2319	2319	2319	2319
2.5°	2316	2313	2322	2326	2327
5°	2310	2311	2328	2335	2335
7.5°	2297	2306	2327	2337	2339
10°	2274	2291	2320	2337	2340
12.5°	2243	2266	2308	2335	2341
15°	2205	2236	2289	2331	2343
17.5°	2163	2199	2264	2322	2327
20°	2114	2157	2238	2287	2289
22.5°	2061	2110	2203	2241	2251
25°	2004	2062	2147	2202	2227
27.5°	1942	2007	2088	2173	2222
30°	1874	1947	2035	2160	2215
32.5°	1802	1881	1984	2130	2161
35°	1724	1809	1937	2062	2120
37.5°	1638	1734	1888	2008	2067
40°	1547	1650	1817	1936	1970
42.5°	1451	1559	1719	1821	1905
45°	1333	1446	1593	1719	1812
47.5°	1193	1275	1407	1527	1630
50°	923	1001	1134	1171	1305
52.5°	437	618	763	721	532
55°	103	231	368	218	91
57.5°	12	40	109	31	10
60°	4	5	18	4	3
62.5°	3	3	3	2	2
65°	3	3	2	2	2
67.5°	3	2	2	2	2
70°	2	2	1	2	1
72.5°	1	2	1	1	1
75°	1	1	1	1	1
77.5°	1	1	1	1	1
80°	1	1	1	1	1
82.5°	1	1	1	1	1
85°	1	1	1	0	0
87.5°	1	1	0	0	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: 117P104

CATALOG NUMBER: 2GCAPL-332PB2S-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)