

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: 160P108

Luminaire Tested: **GC-132A-PAF**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 160P108  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: GC-132A-PAF  
Description: 1 X 4 Recessed Troffer with a  
.095 pattern 12 acrylic lens.  
Light Source: F32T8/35K - 2850 Lumens - 32 Watts  
Ballast/Driver: Triad-Utrad B232I120RH Electronic

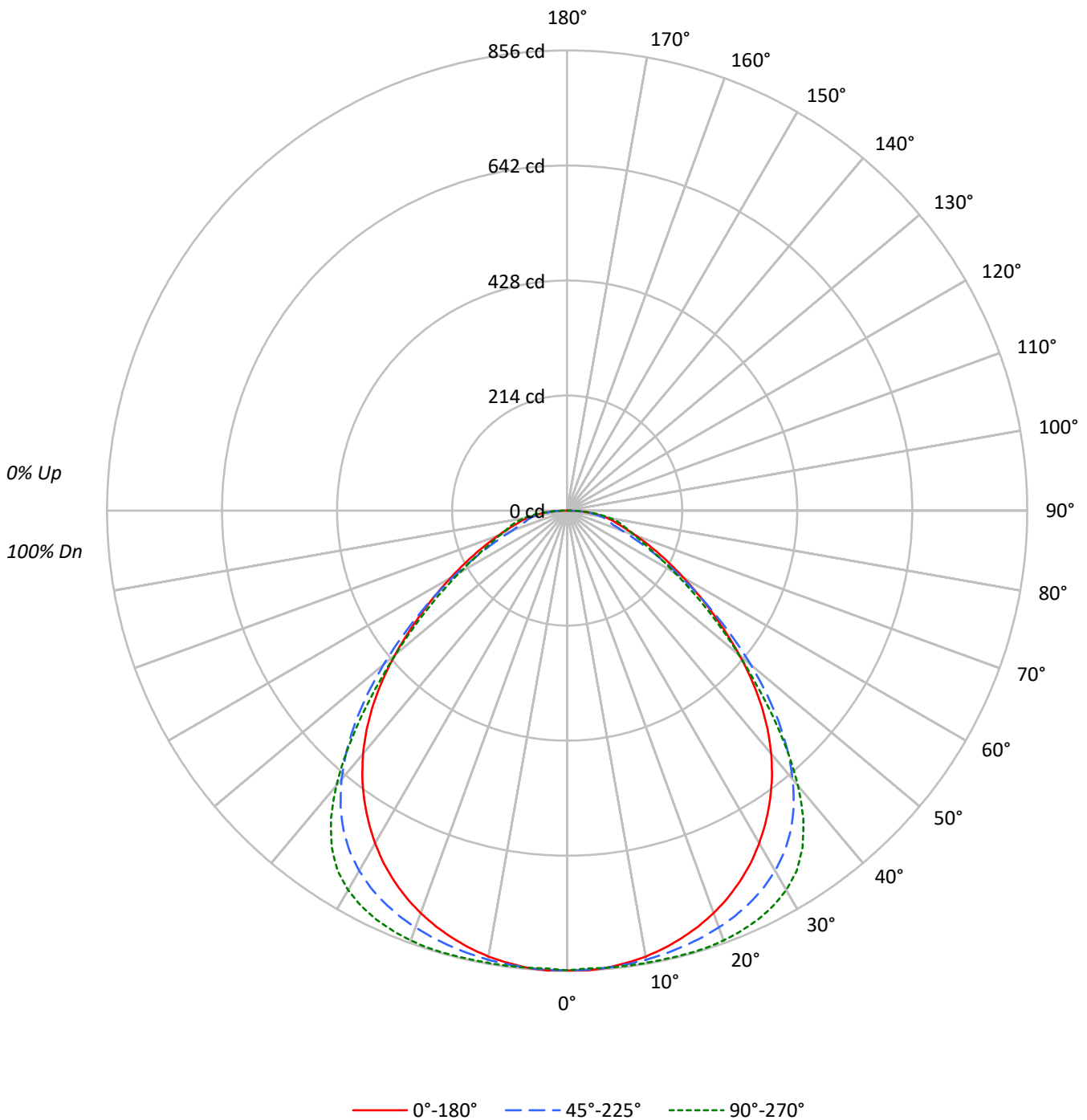
**Summary**

Lumens per Lamp: 2850 (1 lamp)  
Luminaire Lumens: 2162.6 lumens  
Efficiency: 75.9%  
Efficacy: 59.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.38 / 1.37  
Luminous Opening: Rectangular (W 0.78' x L: 3.8' x H: 0')  
CIE Type: Direct

Input Watts (W): 36.4  
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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CATALOG NUMBER: GC-132A-PAF

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	90	90	90	90	88	88	88	88	84	84	84	81	81	81	77	77	77	76						76													
1	83	80	77	74	81	78	75	73	75	73	71	72	70	68	69	68	66	65						65													
2	76	71	66	62	74	69	65	61	66	63	60	64	61	58	62	59	57	55						55													
3	70	63	57	52	68	61	56	52	59	55	51	57	53	50	55	52	49	48						48													
4	65	56	50	45	63	55	49	45	53	48	44	51	47	44	50	46	43	41						41													
5	60	50	44	39	58	50	44	39	48	43	39	47	42	38	45	41	38	36						36													
6	55	46	39	35	54	45	39	34	44	38	34	42	38	34	41	37	34	32						32													
7	51	42	35	31	50	41	35	31	40	34	30	39	34	30	38	33	30	29						29													
8	48	38	32	28	47	38	32	27	37	31	27	36	31	27	35	30	27	26						26													
9	45	35	29	25	44	35	29	25	34	28	25	33	28	25	32	28	24	23						23													
10	42	32	26	23	41	32	26	23	31	26	22	30	26	22	30	25	22	21						21													

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

	0°	45°	90°
0°	3100	3100	3100
5°	3105	3105	3105
10°	3100	3121	3143
15°	3089	3147	3204
20°	3072	3182	3282
25°	3042	3218	3356
30°	2990	3238	3411
35°	2911	3210	3379
40°	2794	3088	3161
45°	2613	2855	2772
50°	2358	2511	2348
55°	2071	2120	1984
60°	1813	1744	1671
65°	1601	1402	1461
70°	1448	1147	1403
75°	1389	1130	1511
80°	1521	1363	1705
85°	1601	1513	1871



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	81.3	3.8	2.9	0°	855	855	855	855	855	
10°-20°	237.3	11.0	8.3	5°	854	852	854	856	854	81
20°-30°	369.8	17.1	13.0	15°	823	827	839	852	854	232
30°-40°	446.7	20.7	15.7	25°	761	774	805	831	840	350
40°-50°	415.2	19.2	14.6	35°	658	682	726	755	764	411
50°-60°	295.2	13.7	10.4	45°	510	532	557	549	541	391
60°-70°	173.9	8.0	6.1	55°	328	340	336	317	314	295
70°-80°	101.8	4.7	3.6	65°	187	175	164	171	170	187
80°-90°	41.5	1.9	1.5	75°	99	95	81	103	108	107
90°-100°	0.0	0.0	0.0	85°	38	37	36	44	45	38
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	3
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°	688.4	31.8	24.2	165°	0	0	0	0	0	0
0°-40°	1135.0	52.5	39.8	175°	0	0	0	0	0	0
0°-60°	1845.5	85.3	64.8	180°	0	0	0	0	0	0
0°-90°	2162.6	100.0	75.9							
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°	2162.6	100.0	75.9							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	855.4	855.4	855.4	855.4	855.4
2.5°	856.3	854.4	854.9	856.0	852.5
5°	853.6	852.1	853.7	855.9	853.6
7.5°	848.6	848.3	851.4	855.3	854.0
10°	842.4	842.7	848.2	854.3	854.3
12.5°	833.8	835.7	844.2	853.2	854.0
15°	823.4	827.1	838.9	851.8	854.2
17.5°	811.1	816.6	832.7	849.6	853.6
20°	796.7	804.1	825.2	845.7	851.0
22.5°	780.1	790.0	816.1	839.6	846.4
25°	760.8	773.8	804.9	831.4	839.5
27.5°	739.3	755.0	791.0	820.4	829.5
30°	714.5	733.4	773.8	805.0	815.3
32.5°	687.5	709.4	752.4	783.9	794.4
35°	658.1	682.1	725.6	754.9	763.8
37.5°	625.9	651.2	692.5	716.5	721.6
40°	590.6	615.7	652.8	668.5	668.3
42.5°	551.9	575.6	607.4	611.5	606.5
45°	509.9	531.6	557.1	549.0	540.9
47.5°	465.2	485.2	502.5	484.7	475.8
50°	418.3	437.6	445.5	422.7	416.6
52.5°	371.9	388.7	389.3	366.7	363.0
55°	327.8	339.5	335.6	316.6	314.1
57.5°	287.2	291.0	285.8	272.2	270.1
60°	250.2	246.4	240.6	232.7	230.6
62.5°	216.5	207.5	199.5	198.8	197.5
65°	186.7	174.7	163.5	170.6	170.4
67.5°	160.3	147.9	132.8	148.5	149.1
70°	136.7	126.6	108.3	131.5	132.4
72.5°	115.9	109.3	91.6	116.9	119.0
75°	99.2	94.7	80.7	102.8	107.9
77.5°	86.3	80.6	73.4	88.9	96.1
80°	72.9	66.3	65.3	74.8	81.7
82.5°	56.6	51.6	52.9	61.0	64.5
85°	38.5	37.1	36.4	43.7	45.0
87.5°	19.9	20.5	18.3	22.6	22.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)