

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: 108P139

Luminaire Tested: **2GCASF-432A-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 108P139
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCASF-432A-PAF
Description: 2 X 4 Recessed Troffer with a
.095 pattern 12 acrylic lens.
Light Source: Four-F32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B432I120RH Electronic

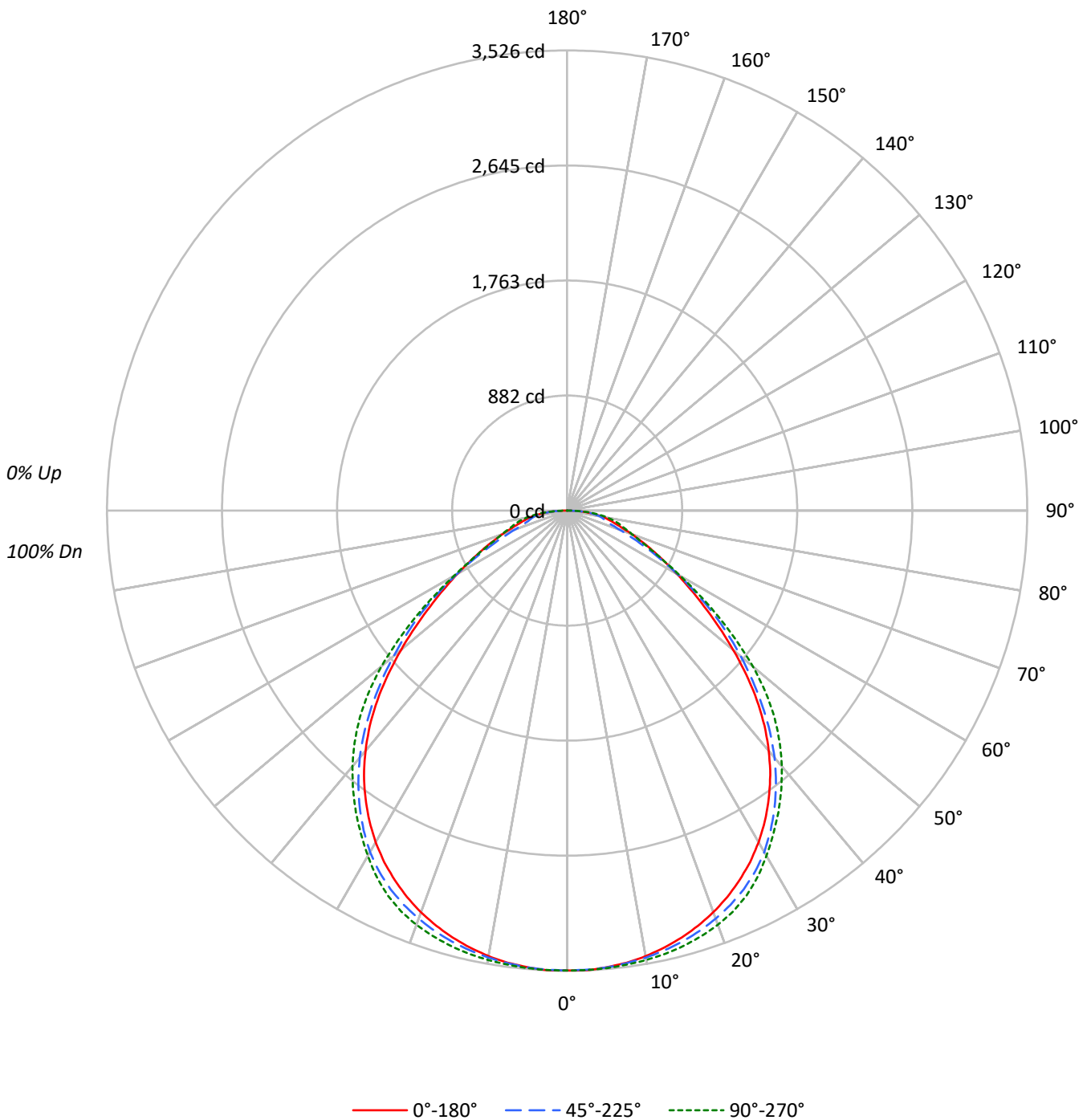
Summary

Lumens per Lamp: 2850 (4 lamps)
Luminaire Lumens: 8588.5 lumens
Efficiency: 75.3%
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.32
Luminous Opening: Rectangular (W 1.69' x L: 3.7' x H: 0')
CIE Type: Direct

Input Watts (W): 108.3
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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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	80	80	80	77	77	77	75						75													
1	83	79	76	74	81	78	75	72	74	72	70	72	70	68	69	67	66	65						65													
2	76	70	65	61	74	69	64	61	66	62	59	64	61	58	61	59	57	55						55													
3	70	62	57	52	68	61	56	52	59	54	51	57	53	50	55	52	49	47						47													
4	64	56	49	45	62	55	49	44	53	48	44	51	47	43	50	46	43	41						41													
5	59	50	44	39	58	49	43	39	48	42	38	46	42	38	45	41	38	36						36													
6	55	45	39	34	54	45	39	34	43	38	34	42	37	34	41	37	33	32						32													
7	51	41	35	31	50	41	35	30	40	34	30	39	34	30	38	33	30	28						28													
8	48	38	32	27	46	37	31	27	36	31	27	35	31	27	35	30	27	26						26													
9	45	35	29	25	43	34	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°	6079	6079	6079
5°	6081	6083	6093
10°	6073	6092	6123
15°	6048	6104	6166
20°	6012	6109	6201
25°	5948	6092	6191
30°	5844	6017	6085
35°	5673	5837	5942
40°	5413	5566	5764
45°	5018	5162	5484
50°	4460	4659	4983
55°	3858	4084	4243
60°	3343	3374	3460
65°	2939	2677	2886
70°	2643	2148	2663
75°	2526	2046	2806
80°	2762	2523	3169
85°	2890	2870	3483



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	334.2	3.9	2.9	0°	3524	3524	3524	3524	3524	
10°-20°	964.9	11.2	8.5	5°	3512	3509	3513	3513	3519	334
20°-30°	1469.1	17.1	12.9	15°	3387	3392	3418	3439	3453	956
30°-40°	1724.0	20.1	15.1	25°	3125	3148	3201	3237	3253	1439
40°-50°	1636.2	19.1	14.4	35°	2694	2727	2772	2795	2822	1680
50°-60°	1204.0	14.0	10.6	45°	2057	2073	2116	2185	2248	1578
60°-70°	699.4	8.1	6.1	55°	1283	1296	1358	1376	1411	1156
70°-80°	396.9	4.6	3.5	65°	720	678	656	715	707	721
80°-90°	159.8	1.9	1.4	75°	379	365	307	409	421	409
90°-100°	0.0	0.0	0.0	85°	146	138	145	169	176	146
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	10
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°	2768.2	32.2	24.3	165°	0	0	0	0	0	0
0°-40°	4492.1	52.3	39.4	175°	0	0	0	0	0	0
0°-60°	7332.3	85.4	64.3	180°	0	0	0	0	0	0
0°-90°	8588.5	100.0	75.3							
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°	8588.5	100.0	75.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3524	3524	3524	3524	3524
2.5°	3526	3520	3521	3520	3524
5°	3512	3509	3513	3513	3519
7.5°	3494	3490	3498	3502	3509
10°	3467	3465	3478	3487	3496
12.5°	3431	3433	3451	3467	3478
15°	3387	3392	3418	3439	3453
17.5°	3336	3345	3377	3404	3419
20°	3275	3289	3328	3360	3378
22.5°	3206	3223	3270	3305	3324
25°	3125	3148	3201	3237	3253
27.5°	3036	3063	3119	3149	3163
30°	2934	2966	3021	3041	3055
32.5°	2820	2855	2903	2922	2940
35°	2694	2727	2772	2795	2822
37.5°	2557	2585	2628	2662	2694
40°	2404	2429	2472	2518	2560
42.5°	2239	2258	2301	2359	2411
45°	2057	2073	2116	2185	2248
47.5°	1862	1876	1927	1995	2063
50°	1662	1679	1736	1793	1857
52.5°	1465	1484	1548	1583	1633
55°	1283	1296	1358	1376	1411
57.5°	1118	1113	1164	1178	1197
60°	969	943	978	997	1003
62.5°	836	798	807	841	838
65°	720	678	656	715	707
67.5°	616	578	529	616	605
70°	524	494	426	538	528
72.5°	443	424	352	471	468
75°	379	365	307	409	421
77.5°	328	310	282	349	375
80°	278	253	254	290	319
82.5°	216	195	208	234	254
85°	146	138	145	169	176
87.5°	75	74	75	86	87
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



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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)