

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: 108P132

Luminaire Tested: **2GC-332A-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 108P132
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-332A-PAF
Description: 2 X 4 Recessed Convertible Body Troffer
with a .095 pattern 12 acrylic lens.
Light Source: Three-F32T8/35K - 2900 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B332I120RH Electronic

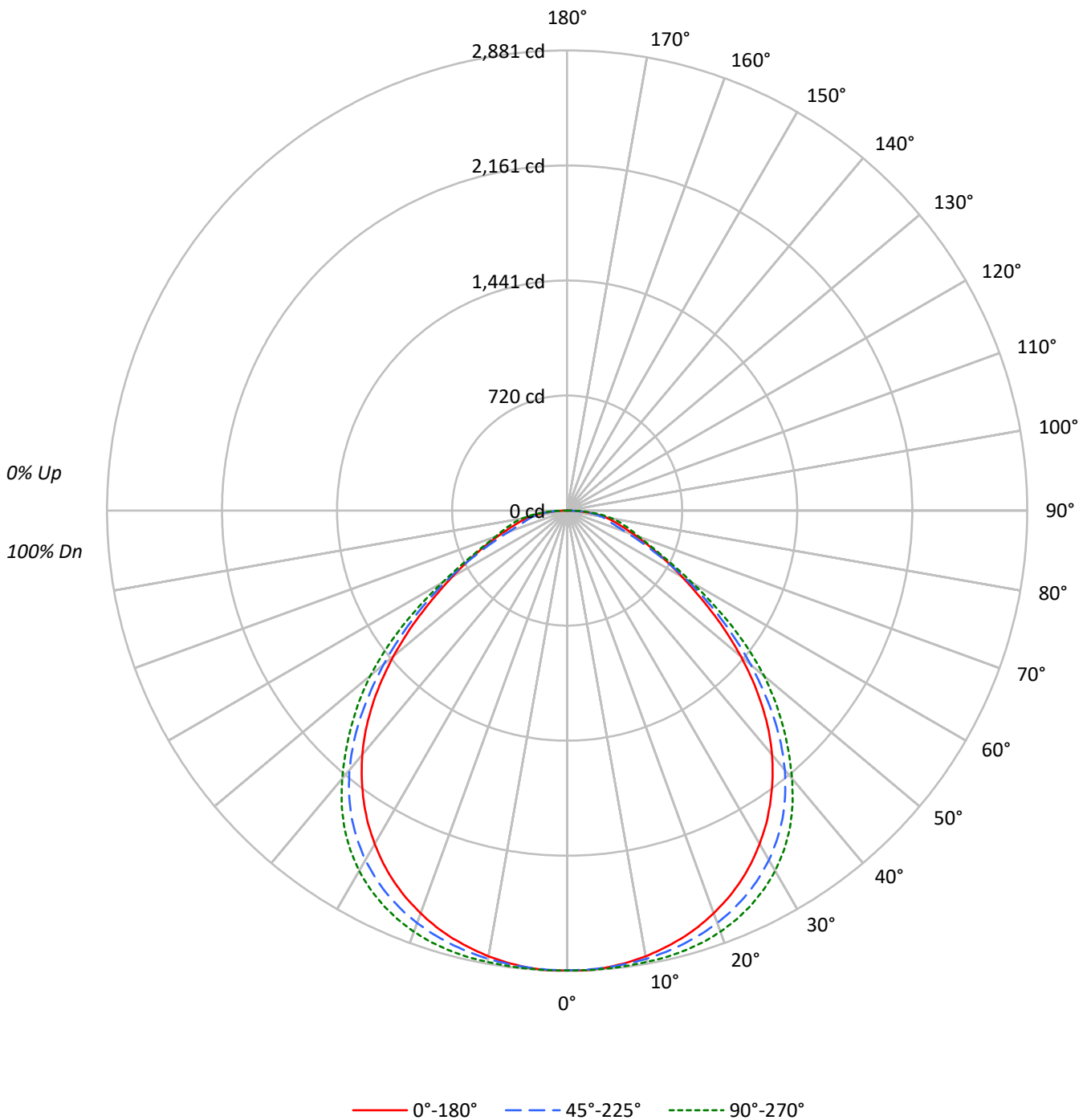
Summary

Lumens per Lamp: 2900 (3 lamps)
Luminaire Lumens: 7308.4 lumens
Efficiency: 84.0%
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.33 / 1.35
Luminous Opening: Rectangular (W 1.79' x L: 3.8' x H: 0')
CIE Type: Direct

Input Watts (W): 90.1
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					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	50	30	10	0	
RCR																						
0	100	100	100	100	98	98	98	98	93	93	93	89	89	89	86	86	86	84				
1	92	88	85	82	90	86	83	81	83	80	78	80	78	76	77	75	73	72				
2	84	78	73	68	82	76	71	67	73	69	66	71	67	64	68	65	63	61				
3	77	69	63	57	75	68	62	57	65	60	56	63	59	55	61	57	54	52				
4	71	62	55	49	69	61	54	49	59	53	48	57	52	48	55	51	47	45				
5	66	55	48	43	64	55	48	43	53	47	42	51	46	42	50	45	41	40				
6	61	50	43	38	59	49	43	38	48	42	37	46	41	37	45	40	37	35				
7	57	46	39	34	55	45	38	33	44	38	33	42	37	33	41	36	33	31				
8	53	42	35	30	51	41	35	30	40	34	30	39	34	30	38	33	29	28				
9	49	38	32	27	48	38	31	27	37	31	27	36	31	27	35	30	27	25				
10	46	35	29	25	45	35	29	25	34	28	25	33	28	24	33	28	24	23				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4549	4549	4549
5°	4554	4554	4565
10°	4547	4573	4605
15°	4535	4597	4664
20°	4511	4621	4718
25°	4472	4631	4753
30°	4397	4611	4753
35°	4284	4537	4689
40°	4117	4373	4517
45°	3857	4087	4273
50°	3491	3687	3955
55°	3044	3229	3457
60°	2626	2721	2857
65°	2307	2202	2393
70°	2093	1802	2208
75°	2027	1709	2314
80°	2211	2011	2612
85°	2393	2321	2883



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	273.5	3.7	3.1	0°	2879	2879	2879	2879	2879	
10°-20°	793.7	10.9	9.1	5°	2871	2868	2871	2875	2878	273
20°-30°	1220.1	16.7	14.0	15°	2772	2781	2810	2837	2851	782
30°-40°	1457.1	19.9	16.7	25°	2565	2593	2656	2705	2726	1180
40°-50°	1399.5	19.1	16.1	35°	2221	2268	2352	2405	2431	1386
50°-60°	1049.6	14.4	12.1	45°	1726	1763	1829	1875	1912	1326
60°-70°	619.4	8.5	7.1	55°	1105	1116	1172	1220	1255	994
70°-80°	352.1	4.8	4.0	65°	617	592	589	639	640	619
80°-90°	143.3	2.0	1.6	75°	332	321	280	359	379	357
90°-100°	0.0	0.0	0.0	85°	132	125	128	152	159	130
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	9
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°	2287.3	31.3	26.3	165°	0	0	0	0	0	0
0°-40°	3744.4	51.2	43.0	175°	0	0	0	0	0	0
0°-60°	6193.6	84.7	71.2	180°	0	0	0	0	0	0
0°-90°	7308.4	100.0	84.0							
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°	7308.4	100.0	84.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2879	2879	2879	2879	2879
2.5°	2881	2876	2877	2877	2880
5°	2871	2868	2871	2875	2878
7.5°	2855	2855	2862	2871	2875
10°	2834	2836	2850	2863	2870
12.5°	2805	2811	2832	2853	2863
15°	2772	2781	2810	2837	2851
17.5°	2732	2744	2782	2816	2833
20°	2683	2701	2748	2788	2806
22.5°	2628	2651	2706	2752	2771
25°	2565	2593	2656	2705	2726
27.5°	2492	2527	2596	2648	2671
30°	2410	2450	2527	2581	2605
32.5°	2321	2364	2445	2501	2524
35°	2221	2268	2352	2405	2431
37.5°	2113	2160	2243	2294	2319
40°	1996	2041	2120	2167	2190
42.5°	1868	1908	1982	2026	2054
45°	1726	1763	1829	1875	1912
47.5°	1576	1608	1665	1719	1766
50°	1420	1446	1500	1558	1609
52.5°	1262	1279	1336	1392	1437
55°	1105	1116	1172	1220	1255
57.5°	960	962	1013	1051	1072
60°	831	823	861	893	904
62.5°	717	698	718	755	757
65°	617	592	589	639	640
67.5°	530	503	479	547	549
70°	453	430	390	474	478
72.5°	387	371	324	413	424
75°	332	321	280	359	379
77.5°	287	272	251	309	336
80°	243	224	221	260	287
82.5°	191	175	181	210	228
85°	132	125	128	152	159
87.5°	68	70	67	82	84
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)