

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: 108P140

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 108P140
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCASF-332A-PAF
Description: 2 X 4 Recessed Troffer with a
.095 pattern 12 acrylic lens.
Light Source: Three-F32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B332I120RH Electronic

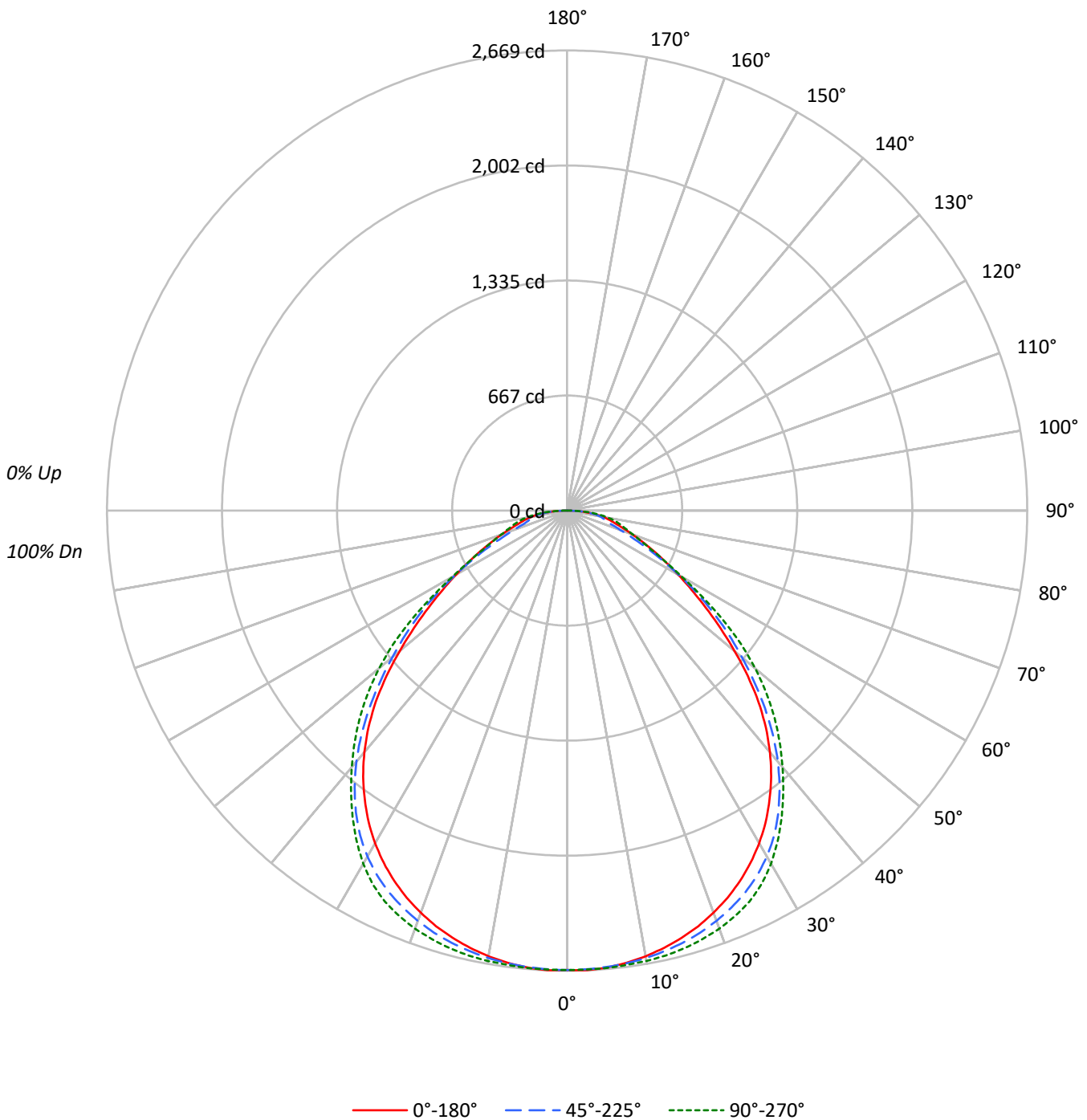
Summary

Lumens per Lamp: 2850 (3 lamps)
Luminaire Lumens: 6567.4 lumens
Efficiency: 76.8%
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.33
Luminous Opening: Rectangular (W 1.69' x L: 3.7' x H: 0')
CIE Type: Direct

Input Watts (W): 90.6
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: 108P140
CATALOG NUMBER: 2GCASF-332A-PAF

Luminous Intensity Polar Plot





TEST NUMBER: 108P140

CATALOG NUMBER: 2GCASF-332A-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	50	30	10	50	30	10	0		
RCR																										
0	91	91	91	91	89	89	89	89	85	85	85	82	82	82	78	78	78	77						77		
1	84	81	78	75	82	79	76	74	76	74	72	73	71	69	70	69	67	66						66		
2	77	71	67	63	75	70	66	62	67	64	60	65	62	59	63	60	58	56						56		
3	71	63	58	53	69	62	57	52	60	55	52	58	54	51	56	53	50	48						48		
4	65	57	50	46	64	56	50	45	54	49	45	52	48	44	50	47	43	42						42		
5	60	51	45	40	59	50	44	39	49	43	39	47	42	39	46	42	38	37						37		
6	56	46	40	35	55	45	39	35	44	39	35	43	38	34	42	37	34	32						32		
7	52	42	36	31	51	41	35	31	40	35	31	39	34	31	38	34	30	29						29		
8	48	39	32	28	47	38	32	28	37	32	28	36	31	28	35	31	27	26						26		
9	45	35	29	25	44	35	29	25	34	29	25	33	28	25	33	28	25	23						23		
10	43	33	27	23	42	32	27	23	32	26	23	31	26	23	30	26	23	21						21		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4597	4597	4597
5°	4606	4601	4611
10°	4598	4615	4645
15°	4582	4634	4693
20°	4556	4648	4738
25°	4513	4652	4762
30°	4438	4615	4713
35°	4310	4498	4569
40°	4121	4283	4375
45°	3830	3959	4149
50°	3403	3553	3824
55°	2950	3125	3305
60°	2560	2598	2649
65°	2249	2057	2212
70°	2022	1644	2048
75°	1926	1566	2153
80°	2116	1937	2434
85°	2217	2197	2672



TEST NUMBER: 108P140

CATALOG NUMBER: 2GCASF-332A-PAF

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	253.0	3.9	3.0	0°	2665	2665	2665	2665	2665	
10°-20°	732.8	11.2	8.6	5°	2660	2655	2657	2659	2663	253
20°-30°	1122.3	17.1	13.1	15°	2566	2570	2595	2616	2628	724
30°-40°	1321.9	20.1	15.5	25°	2371	2392	2444	2484	2502	1091
40°-50°	1249.3	19.0	14.6	35°	2047	2081	2136	2155	2170	1277
50°-60°	924.8	14.1	10.8	45°	1570	1587	1623	1660	1701	1203
60°-70°	536.4	8.2	6.3	55°	981	991	1039	1068	1099	884
70°-80°	304.3	4.6	3.6	65°	551	518	504	549	542	553
80°-90°	122.5	1.9	1.4	75°	289	279	235	315	323	313
90°-100°	0.0	0.0	0.0	85°	112	106	111	129	135	112
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	8
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°	2108.2	32.1	24.7	165°	0	0	0	0	0	0
0°-40°	3430.1	52.2	40.1	175°	0	0	0	0	0	0
0°-60°	5604.2	85.3	65.5	180°	0	0	0	0	0	0
0°-90°	6567.4	100.0	76.8							
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°	6567.4	100.0	76.8							



TEST NUMBER: 108P140

CATALOG NUMBER: 2GCASF-332A-PAF

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2665	2665	2665	2665	2665
2.5°	2669	2662	2663	2663	2664
5°	2660	2655	2657	2659	2663
7.5°	2646	2642	2648	2654	2658
10°	2625	2624	2635	2645	2652
12.5°	2598	2600	2617	2634	2643
15°	2566	2570	2595	2616	2628
17.5°	2528	2536	2567	2595	2607
20°	2482	2494	2532	2566	2581
22.5°	2431	2446	2492	2528	2546
25°	2371	2392	2444	2484	2502
27.5°	2304	2329	2386	2427	2443
30°	2228	2257	2317	2352	2366
32.5°	2143	2175	2235	2260	2273
35°	2047	2081	2136	2155	2170
37.5°	1944	1975	2025	2043	2059
40°	1830	1857	1902	1923	1943
42.5°	1706	1727	1768	1796	1825
45°	1570	1587	1623	1660	1701
47.5°	1421	1440	1473	1516	1568
50°	1268	1289	1324	1369	1425
52.5°	1120	1138	1180	1220	1270
55°	981	991	1039	1068	1099
57.5°	856	851	895	912	925
60°	742	722	753	767	768
62.5°	641	611	620	645	643
65°	551	518	504	549	542
67.5°	472	442	406	473	465
70°	401	378	326	413	406
72.5°	339	325	270	362	359
75°	289	279	235	315	323
77.5°	251	237	216	268	287
80°	213	194	195	222	245
82.5°	165	149	159	179	194
85°	112	106	111	129	135
87.5°	57	58	57	67	67
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: 108P140

CATALOG NUMBER: 2GCASF-332A-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)