

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: 228P101

Luminaire Tested: **GCASF2048-332A**

Issue Date: 3/3/2020



**Test Information**

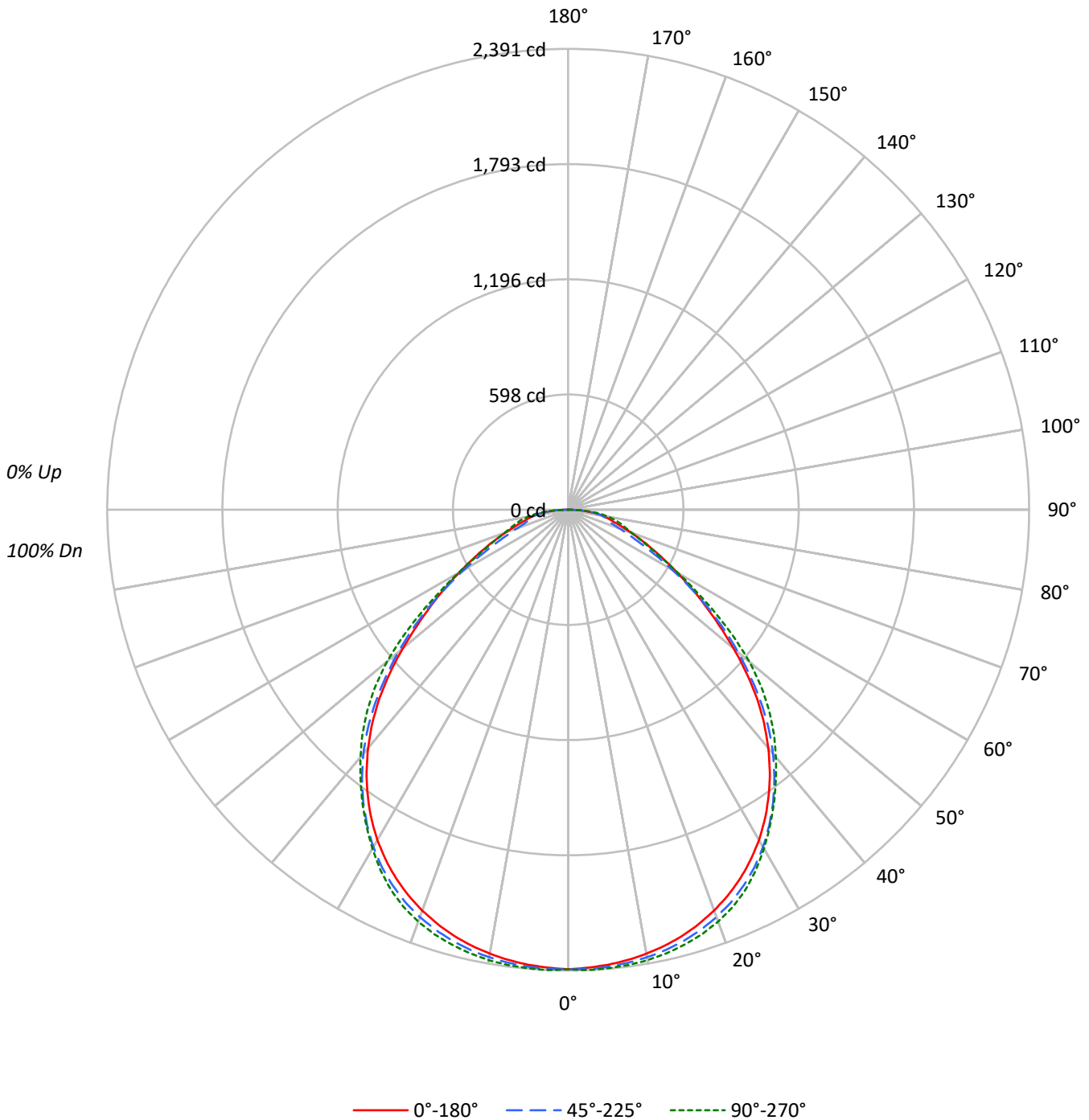
Test Method: LM-41-14  
Report Number: 228P101  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: GCASF2048-332A  
Description: 20 X 48 Recessed Convertible Body Luminaire with a  
.095 pattern 12 acrylic lens.  
Light Source: Three - FO32T8/735 - 2800 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Motorola M3-IN-T8-GP-D-120 Electronic - L.O.B.F. = 85.4

**Summary**

Lumens per Lamp: 2800 (3 lamps)  
Luminaire Lumens: 5727.6 lumens  
Efficiency: 68.2%  
Efficacy: 70.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.32  
Luminous Opening: Rectangular (W 1.35' x L: 3.71' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 81.8  
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: 228P101  
CATALOG NUMBER: GCASF2048-332A

### Luminous Intensity Polar Plot





TEST NUMBER: 228P101

CATALOG NUMBER: GCASF2048-332A

**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	81	81	81	81	79	79	79	79	76	76	76	73	73	73	70	70	70	68
1	75	72	69	67	73	70	68	66	67	65	64	65	63	62	62	61	60	58
2	69	63	59	56	67	62	58	55	60	57	54	58	55	52	56	53	51	50
3	63	56	51	47	61	55	51	47	53	49	46	52	48	45	50	47	44	43
4	58	50	45	41	57	50	44	40	48	43	40	46	42	39	45	42	39	37
5	54	45	40	35	52	45	39	35	43	39	35	42	38	35	41	37	34	33
6	50	41	35	31	49	41	35	31	39	34	31	38	34	31	37	33	30	29
7	46	38	32	28	45	37	32	28	36	31	28	35	31	27	34	30	27	26
8	43	34	29	25	42	34	29	25	33	28	25	32	28	25	31	27	24	23
9	40	32	26	23	39	31	26	23	30	26	22	30	25	22	29	25	22	21
10	38	29	24	21	37	29	24	21	28	24	20	28	23	20	27	23	20	19

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

	0°	45°	90°
0°	5112	5112	5112
5°	5099	5121	5138
10°	5091	5132	5165
15°	5079	5139	5184
20°	5048	5130	5187
25°	4993	5090	5146
30°	4898	5002	5027
35°	4744	4849	4867
40°	4519	4625	4690
45°	4195	4283	4465
50°	3731	3835	4088
55°	3240	3296	3468
60°	2799	2675	2825
65°	2434	2105	2369
70°	2162	1755	2200
75°	2037	1764	2327
80°	2234	2210	2629
85°	2386	2459	2804



TEST NUMBER: 228P101

CATALOG NUMBER: GCASF2048-332A

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	226.4	4.0	2.7	0°	2385	2385	2385	2385	2385	
10°-20°	653.0	11.4	7.8	5°	2370	2373	2380	2384	2388	225
20°-30°	987.9	17.2	11.8	15°	2289	2298	2316	2329	2336	646
30°-40°	1150.6	20.1	13.7	25°	2111	2127	2152	2169	2176	971
40°-50°	1090.5	19.0	13.0	35°	1813	1831	1853	1854	1860	1131
50°-60°	791.3	13.8	9.4	45°	1384	1399	1413	1447	1473	1061
60°-70°	454.0	7.9	5.4	55°	867	850	882	896	928	780
70°-80°	264.6	4.6	3.2	65°	480	434	415	466	467	481
80°-90°	109.3	1.9	1.3	75°	246	240	213	272	281	267
90°-100°	0.0	0.0	0.0	85°	97	100	100	114	114	97
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	7
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°	1867.2	32.6	22.2	165°	0	0	0	0	0	0
0°-40°	3017.9	52.7	35.9	175°	0	0	0	0	0	0
0°-60°	4899.7	85.5	58.3	180°	0	0	0	0	0	0
0°-90°	5727.6	100.0	68.2							
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°	5727.6	100.0	68.2							



TEST NUMBER: 228P101

CATALOG NUMBER: GCASF2048-332A

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2385	2385	2385	2385	2385
2.5°	2378	2380	2385	2387	2391
5°	2370	2373	2380	2384	2388
7.5°	2357	2362	2371	2377	2383
10°	2339	2346	2358	2366	2373
12.5°	2317	2324	2340	2351	2357
15°	2289	2298	2316	2329	2336
17.5°	2254	2265	2286	2301	2309
20°	2213	2226	2249	2266	2274
22.5°	2166	2180	2205	2223	2231
25°	2111	2127	2152	2169	2176
27.5°	2049	2067	2092	2104	2108
30°	1979	1997	2021	2027	2031
32.5°	1900	1918	1941	1943	1947
35°	1813	1831	1853	1854	1860
37.5°	1718	1735	1757	1761	1769
40°	1615	1633	1653	1665	1676
42.5°	1504	1522	1539	1561	1579
45°	1384	1399	1413	1447	1473
47.5°	1254	1263	1282	1322	1357
50°	1119	1124	1150	1186	1226
52.5°	987	986	1017	1040	1079
55°	867	850	882	896	928
57.5°	757	723	750	763	784
60°	653	610	624	647	659
62.5°	561	513	510	548	551
65°	480	434	415	466	467
67.5°	408	369	338	404	402
70°	345	316	280	354	351
72.5°	290	274	238	311	312
75°	246	240	213	272	281
77.5°	212	208	198	236	250
80°	181	176	179	199	213
82.5°	143	139	146	161	169
85°	97	100	100	114	114
87.5°	50	52	50	56	52
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: 228P101

CATALOG NUMBER: GCASF2048-332A

**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)