

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: 163P114

Luminaire Tested: **GC2048-332A**

Issue Date: 3/3/2020



**Test Information**

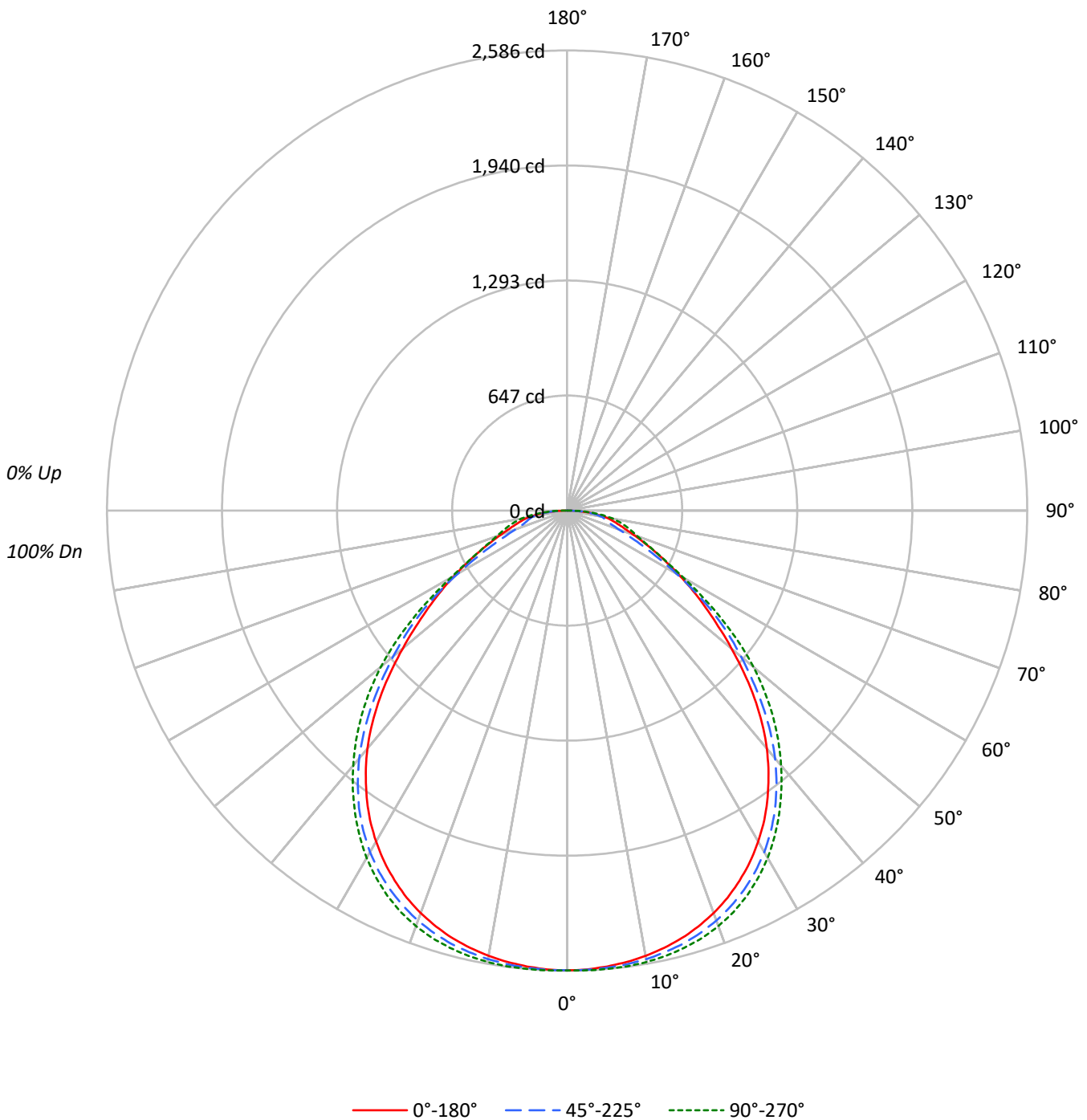
Test Method: LM-41-14  
Report Number: 163P114  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: GC2048-332A  
Description: 20 X 48 Recessed Convertible Body Luminaire with a  
.095 pattern 12 acrylic lens.  
Light Source: Three - FO32/35K - 2800 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Advance REL-3P32-TP Electronic - L.O.B.F. = 89.5%

**Summary**

Lumens per Lamp: 2800 (3 lamps)  
Luminaire Lumens: 6338.7 lumens  
Efficiency: 75.5%  
Efficacy: 73.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.32  
Luminous Opening: Rectangular (W 1.46' x L: 3.81' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 85.9  
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																			
1	83	79	76	74	81	78	75	72	74	72	70	72	70	68	69	67	66	64																			
2	76	70	65	61	74	69	64	61	66	62	59	64	61	58	61	59	57	55																			
3	70	62	56	52	68	61	56	51	59	54	51	57	53	50	55	52	49	47																			
4	64	56	49	45	62	55	49	44	53	48	44	51	47	43	49	46	43	41																			
5	59	50	44	39	58	49	43	39	48	42	38	46	42	38	45	41	37	36																			
6	55	45	39	34	54	45	39	34	43	38	34	42	37	34	41	37	33	32																			
7	51	41	35	31	50	41	35	30	40	34	30	38	34	30	37	33	30	28																			
8	48	38	32	27	46	37	31	27	36	31	27	35	31	27	35	30	27	25																			
9	45	35	29	25	43	34	29	25	33	28	25	33	28	24	32	28	24	23																			
10	42	32	26	23	41	32	26	22	31	26	22	30	26	22	30	25	22	21																			

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

	0°	45°	90°
0°	5003	5003	5003
5°	4999	5012	5026
10°	4995	5033	5064
15°	4987	5051	5099
20°	4959	5052	5120
25°	4900	5024	5103
30°	4802	4954	5039
35°	4644	4819	4911
40°	4415	4595	4729
45°	4074	4260	4479
50°	3632	3843	4117
55°	3207	3389	3575
60°	2827	2749	2923
65°	2488	2135	2488
70°	2242	1743	2383
75°	2214	1758	2558
80°	2475	2185	2899
85°	2688	2532	3132



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	245.7	3.9	2.9	0°	2584	2584	2584	2584	2584	
10°-20°	710.8	11.2	8.5	5°	2572	2571	2579	2592	2586	245
20°-30°	1080.1	17.0	12.9	15°	2488	2494	2520	2543	2544	702
30°-40°	1266.1	20.0	15.1	25°	2294	2312	2352	2383	2389	1056
40°-50°	1195.5	18.9	14.2	35°	1965	1992	2039	2071	2078	1225
50°-60°	891.1	14.1	10.6	45°	1488	1510	1556	1593	1636	1143
60°-70°	517.0	8.2	6.2	55°	950	948	1004	1040	1059	854
70°-80°	304.3	4.8	3.6	65°	543	491	466	536	543	544
80°-90°	128.2	2.0	1.5	75°	296	274	235	312	342	318
90°-100°	0.0	0.0	0.0	85°	121	114	114	133	141	119
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°	2036.5	32.1	24.2	165°	0	0	0	0	0	0
0°-40°	3302.6	52.1	39.3	175°	0	0	0	0	0	0
0°-60°	5389.2	85.0	64.2	180°	0	0	0	0	0	0
0°-90°	6338.7	100.0	75.5							
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°	6338.7	100.0	75.5							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2584	2584	2584	2584	2584
2.5°	2581	2578	2583	2594	2586
5°	2572	2571	2579	2592	2586
7.5°	2559	2559	2572	2587	2583
10°	2541	2543	2560	2578	2576
12.5°	2517	2522	2542	2563	2563
15°	2488	2494	2520	2543	2544
17.5°	2451	2461	2489	2516	2519
20°	2407	2419	2452	2481	2485
22.5°	2355	2370	2406	2437	2442
25°	2294	2312	2352	2383	2389
27.5°	2226	2246	2289	2320	2326
30°	2148	2171	2216	2247	2254
32.5°	2062	2086	2133	2165	2171
35°	1965	1992	2039	2071	2078
37.5°	1859	1886	1933	1967	1978
40°	1747	1769	1818	1853	1871
42.5°	1622	1644	1692	1728	1757
45°	1488	1510	1556	1593	1636
47.5°	1347	1369	1414	1455	1506
50°	1206	1227	1276	1318	1367
52.5°	1072	1086	1142	1183	1216
55°	950	948	1004	1040	1059
57.5°	837	811	857	890	899
60°	730	688	710	750	755
62.5°	631	579	578	630	637
65°	543	491	466	536	543
67.5°	464	419	376	462	474
70°	396	361	308	405	421
72.5°	340	314	261	357	379
75°	296	274	235	312	342
77.5°	260	236	218	270	305
80°	222	198	196	228	260
82.5°	173	157	161	184	204
85°	121	114	114	133	141
87.5°	62	63	61	76	78
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)