

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: 108P159

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

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 108P159  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2GC-332A  
Description: 2 X 4 Recessed Convertible Body Luminaire with a  
.095 pattern 12 acrylic lens.  
Light Source: Three - FO32/735 - 2800 Lumens ea. 32 Watts ea.  
Ballast/Driver: Advance REL-3P32-TP Electronic - L.O.B.F. = 89.4

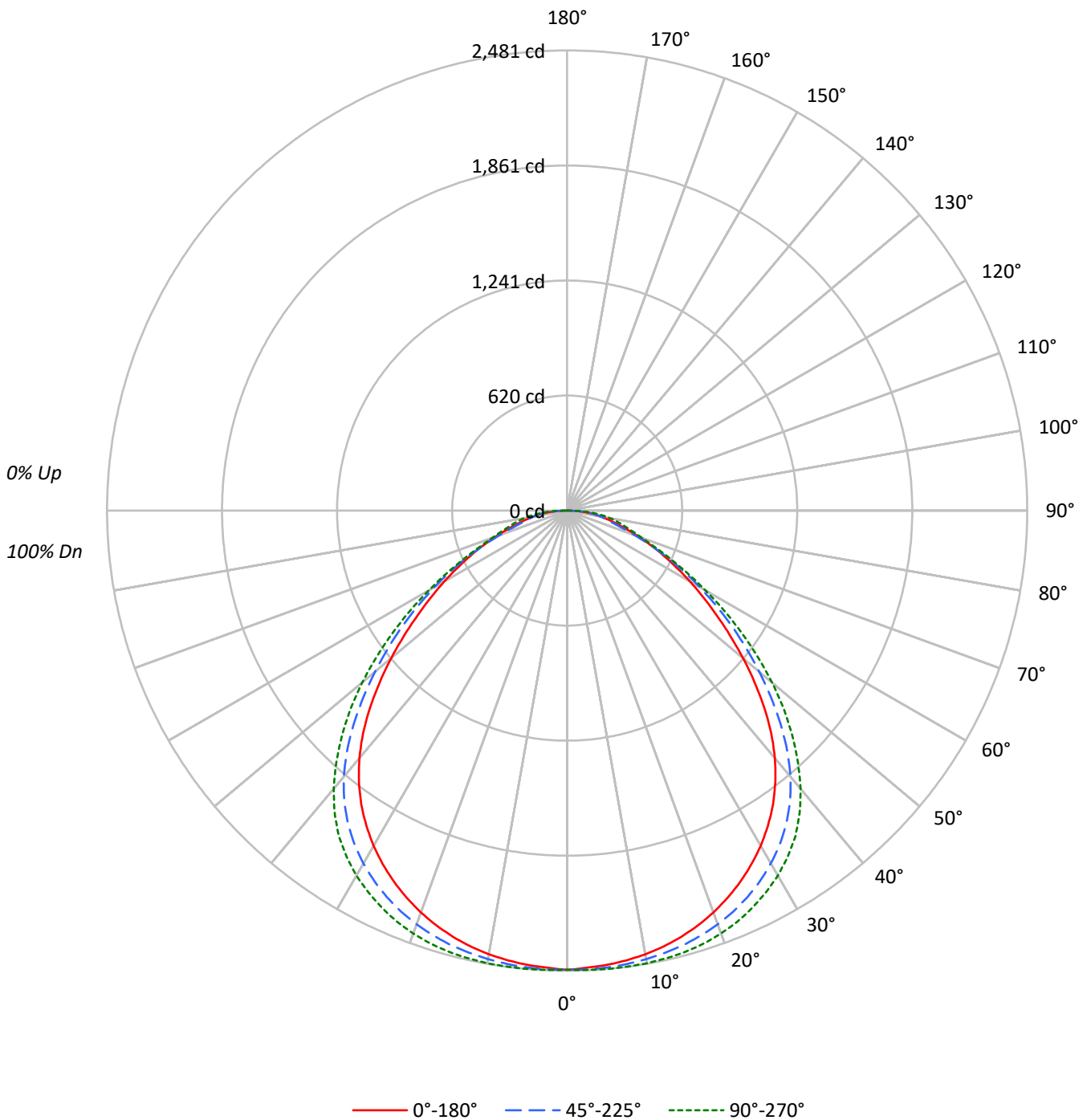
**Summary**

Lumens per Lamp: 2800 (3 lamps)  
Luminaire Lumens: 6477.2 lumens  
Efficiency: 77.1%  
Efficacy: 74.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.35 / 1.37  
Luminous Opening: Rectangular (W 1.79' x L: 3.81' x H: 0')  
CIE Type: Direct

Input Watts (W): 87  
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: 108P159  
CATALOG NUMBER: 2GC-332A

### Luminous Intensity Polar Plot





TEST NUMBER: 108P159  
 CATALOG NUMBER: 2GC-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	50	30	10	0	
RCR																						
0	92	92	92	92	90	90	90	90	86	86	86	82	82	82	79	79	79	77				
1	84	81	78	75	82	79	76	74	76	74	72	73	71	69	70	69	67	66				
2	77	71	66	62	75	70	65	62	67	63	60	65	62	59	62	60	57	56				
3	71	63	57	52	69	62	56	52	60	55	51	58	54	50	56	52	49	48				
4	65	56	50	45	63	55	49	45	53	48	44	52	47	43	50	46	43	41				
5	60	51	44	39	58	50	43	39	48	43	38	47	42	38	45	41	38	36				
6	56	46	39	34	54	45	39	34	44	38	34	42	37	34	41	37	33	32				
7	52	42	35	30	50	41	35	30	40	34	30	39	34	30	38	33	30	28				
8	48	38	32	27	47	37	31	27	36	31	27	35	30	27	35	30	27	25				
9	45	35	29	25	44	34	28	24	34	28	24	33	28	24	32	27	24	23				
10	42	32	26	22	41	32	26	22	31	26	22	30	25	22	30	25	22	21				

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

	0°	45°	90°
0°	3902	3902	3902
5°	3890	3912	3924
10°	3887	3930	3965
15°	3881	3956	4018
20°	3867	3981	4068
25°	3841	3999	4108
30°	3797	3998	4134
35°	3722	3963	4126
40°	3585	3855	4028
45°	3352	3626	3826
50°	3035	3314	3535
55°	2703	2970	3151
60°	2411	2603	2713
65°	2136	2200	2274
70°	1884	1778	1967
75°	1693	1534	1930
80°	1661	1661	2142
85°	1736	2007	2423



TEST NUMBER: 108P159  
 CATALOG NUMBER: 2GC-332A

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	235.4	3.6	2.8	0°	2476	2476	2476	2476	2476	
10°-20°	684.4	10.6	8.1	5°	2459	2466	2473	2476	2481	234
20°-30°	1056.3	16.3	12.6	15°	2379	2395	2425	2449	2463	671
30°-40°	1277.6	19.7	15.2	25°	2209	2241	2300	2343	2363	1017
40°-50°	1243.6	19.2	14.8	35°	1935	1980	2060	2118	2145	1206
50°-60°	960.7	14.8	11.4	45°	1504	1548	1627	1687	1717	1155
60°-70°	593.7	9.2	7.1	55°	984	1021	1081	1121	1147	885
70°-80°	307.1	4.7	3.7	65°	573	573	590	617	610	572
80°-90°	118.5	1.8	1.4	75°	278	274	252	308	317	300
90°-100°	0.0	0.0	0.0	85°	96	103	111	130	134	96
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°	1976.0	30.5	23.5	165°	0	0	0	0	0	0
0°-40°	3253.6	50.2	38.7	175°	0	0	0	0	0	0
0°-60°	5457.9	84.3	65.0	180°	0	0	0	0	0	0
0°-90°	6477.2	100.0	77.1							
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°	6477.2	100.0	77.1							



TEST NUMBER: 108P159  
 CATALOG NUMBER: 2GC-332A

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2476	2476	2476	2476	2476
2.5°	2467	2472	2476	2477	2479
5°	2459	2466	2473	2476	2481
7.5°	2446	2455	2466	2473	2480
10°	2429	2440	2456	2469	2478
12.5°	2407	2420	2442	2461	2472
15°	2379	2395	2425	2449	2463
17.5°	2345	2365	2402	2432	2448
20°	2306	2330	2374	2410	2426
22.5°	2260	2288	2340	2380	2399
25°	2209	2241	2300	2343	2363
27.5°	2151	2187	2252	2299	2321
30°	2087	2127	2197	2248	2272
32.5°	2015	2059	2134	2187	2213
35°	1935	1980	2060	2118	2145
37.5°	1844	1890	1975	2034	2059
40°	1743	1788	1874	1934	1958
42.5°	1629	1673	1757	1818	1842
45°	1504	1548	1627	1687	1717
47.5°	1371	1417	1490	1550	1584
50°	1238	1283	1352	1409	1442
52.5°	1107	1150	1215	1266	1295
55°	984	1021	1081	1121	1147
57.5°	870	897	950	983	1002
60°	765	780	826	852	861
62.5°	665	672	707	729	730
65°	573	573	590	617	610
67.5°	488	482	481	519	508
70°	409	400	386	435	427
72.5°	339	330	309	366	366
75°	278	274	252	308	317
77.5°	226	227	213	260	276
80°	183	186	183	217	236
82.5°	143	145	151	177	190
85°	96	103	111	130	134
87.5°	48	55	61	70	71
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: 108P159  
CATALOG NUMBER: 2GC-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)