

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: 160P111

Luminaire Tested: **GC-132A**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 160P111  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: GC-132A  
Description: 1 X 4 Recessed Convertible Body Luminaire with a  
.095 pattern 12 acrylic lens.  
Light Source: One - FO32/735 - 2800 Lumens - 32 Watts  
Ballast/Driver: Motorola M1-RN-T8-1LL-120 Electronic - L.O.B.F. = 90.5%

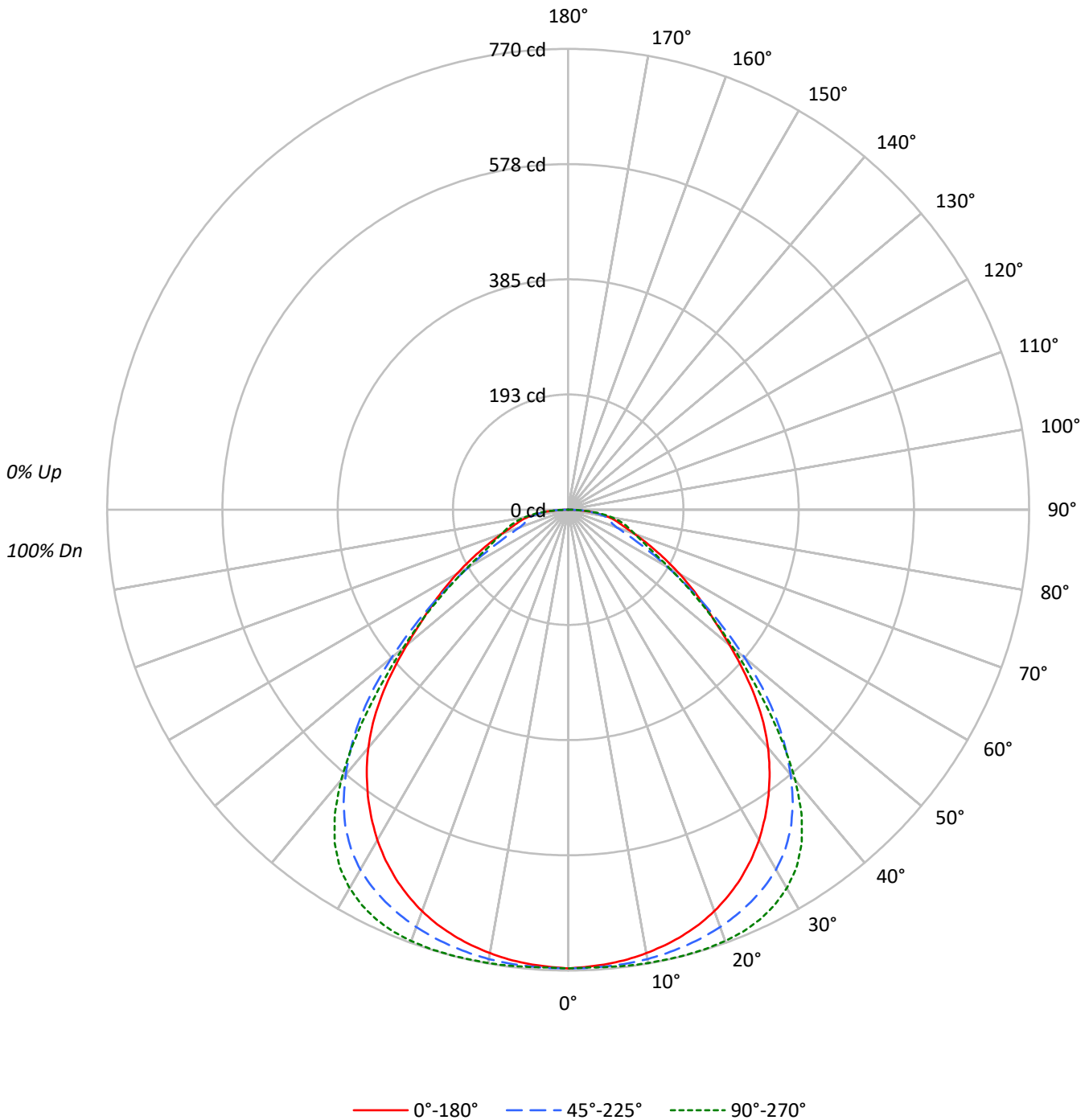
**Summary**

Lumens per Lamp: 2800 (1 lamp)  
Luminaire Lumens: 1898.7 lumens  
Efficiency: 67.8%  
Efficacy: 59.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.38 / 1.36  
Luminous Opening: Rectangular (W 0.79' x L: 3.8' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.8  
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

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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	0
RCR																		
0	81	81	81	81	79	79	79	79	75	75	75	72	72	72	69	69	69	68
1	74	71	69	66	73	70	67	65	67	65	63	64	63	61	62	61	59	58
2	68	63	59	55	67	62	58	55	60	56	53	57	55	52	55	53	51	50
3	63	56	51	47	61	55	50	47	53	49	46	51	48	45	50	47	44	43
4	58	50	45	41	56	49	44	40	48	43	40	46	42	39	45	41	39	37
5	54	45	40	35	52	45	39	35	43	38	35	42	38	34	41	37	34	33
6	50	41	35	31	48	40	35	31	39	34	31	38	34	31	37	33	30	29
7	46	37	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	20	28	24	20	28	23	20	27	23	20	19

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

	0°	45°	90°
0°	2759	2759	2759
5°	2753	2767	2771
10°	2750	2787	2811
15°	2747	2812	2868
20°	2735	2843	2938
25°	2704	2871	3003
30°	2649	2886	3035
35°	2564	2850	2988
40°	2442	2718	2773
45°	2246	2497	2403
50°	1968	2159	2019
55°	1735	1757	1689
60°	1544	1379	1404
65°	1366	1080	1245
70°	1233	908	1243
75°	1242	1011	1373
80°	1383	1285	1544
85°	1487	1412	1607



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	72.9	3.8	2.6	0°	766	766	766	766	766	
10°-20°	213.3	11.2	7.6	5°	762	762	766	768	767	72
20°-30°	332.0	17.5	11.9	15°	737	742	755	767	770	208
30°-40°	397.6	20.9	14.2	25°	681	694	723	749	756	313
40°-50°	362.0	19.1	12.9	35°	583	606	648	673	680	364
50°-60°	249.3	13.1	8.9	45°	441	461	490	477	472	338
60°-70°	143.6	7.6	5.1	55°	276	285	280	270	269	249
70°-80°	90.0	4.7	3.2	65°	160	141	127	144	146	161
80°-90°	37.9	2.0	1.4	75°	89	83	73	91	99	95
90°-100°	0.0	0.0	0.0	85°	36	35	34	40	39	35
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	2
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°	618.2	32.6	22.1	165°	0	0	0	0	0	0
0°-40°	1015.8	53.5	36.3	175°	0	0	0	0	0	0
0°-60°	1627.1	85.7	58.1	180°	0	0	0	0	0	0
0°-90°	1898.7	100.0	67.8							
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°	1898.7	100.0	67.8							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	766.4	766.4	766.4	766.4	766.4
2.5°	764.4	764.7	766.5	768.0	765.5
5°	761.9	762.5	765.7	768.5	766.9
7.5°	758.0	759.4	764.5	769.0	768.5
10°	752.4	755.4	762.5	768.9	769.2
12.5°	745.5	749.7	759.1	768.1	769.4
15°	737.1	742.4	754.7	766.9	769.5
17.5°	726.6	733.0	749.2	765.0	768.9
20°	713.9	721.7	742.1	761.7	766.9
22.5°	698.7	708.6	733.3	756.6	763.1
25°	680.9	693.5	722.9	748.9	756.2
27.5°	660.4	676.1	710.2	737.9	745.4
30°	637.3	655.7	694.4	722.7	730.2
32.5°	611.4	632.5	674.3	701.7	709.6
35°	583.4	606.5	648.5	673.0	679.9
37.5°	552.7	577.3	616.2	635.4	640.0
40°	519.6	543.3	578.4	589.6	590.2
42.5°	482.6	503.9	536.3	536.3	532.7
45°	441.3	461.3	490.5	477.2	472.1
47.5°	396.3	418.6	439.2	416.4	413.3
50°	351.4	376.9	385.5	361.0	360.5
52.5°	311.0	332.9	331.5	313.5	312.6
55°	276.5	285.1	279.9	270.5	269.1
57.5°	245.1	238.9	232.9	230.9	228.9
60°	214.5	199.2	191.6	195.9	195.0
62.5°	186.4	167.2	156.2	166.7	167.3
65°	160.4	141.2	126.8	143.8	146.2
67.5°	137.4	120.8	103.0	127.1	130.4
70°	117.2	105.5	86.3	114.4	118.1
72.5°	100.8	93.3	77.2	102.8	108.2
75°	89.3	82.6	72.7	91.4	98.7
77.5°	79.4	72.3	68.8	79.0	87.7
80°	66.7	60.3	62.0	66.7	74.5
82.5°	51.2	47.9	49.4	54.6	58.6
85°	36.0	34.7	34.2	39.5	38.9
87.5°	17.7	19.1	17.5	20.3	18.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)