

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: 114P115

Luminaire Tested: **EP3GX2048-332S36I**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 114P115  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: EP3GX2048-332S36I  
Description: 20" X 48" Recessed Troffer with a 3" deep 18 cell semi-specular low iridescent parabolic louver.  
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**

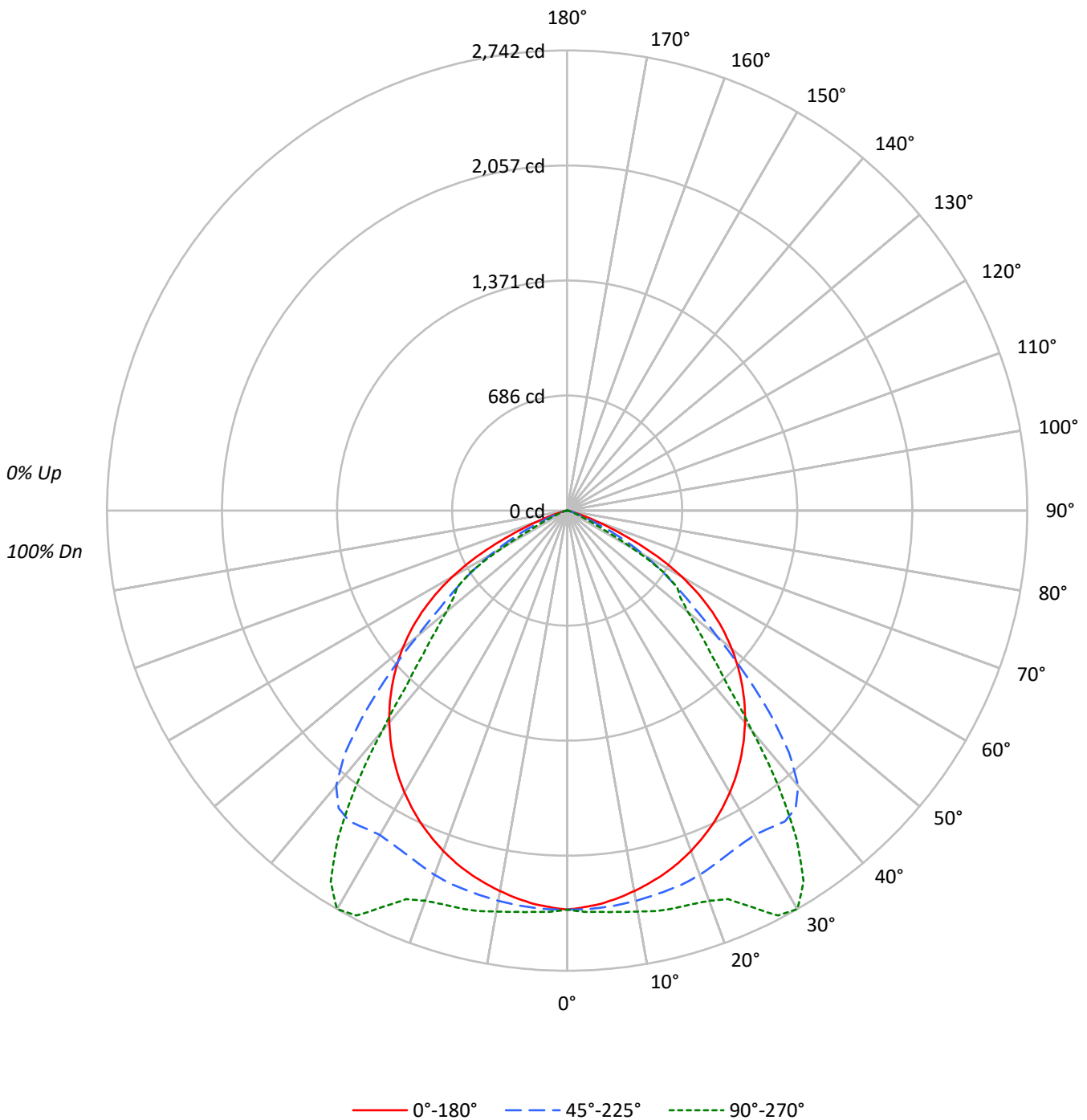
Lumens per Lamp: 2800 (3 lamps)  
Luminaire Lumens: 5597.3 lumens  
Efficiency: 66.6%  
Efficacy: 64.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.46 / 1.41  
Luminous Opening: Rectangular (W 1.4' x L: 3.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 86.9  
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				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	79	79	79	79	77	77	77	77	74	74	74	71	71	71	68	68	68	67
1	74	72	69	67	72	70	68	66	67	66	64	65	64	62	63	62	61	59
2	69	64	61	57	67	63	60	57	61	58	55	59	56	54	57	55	53	52
3	63	58	53	49	62	57	52	49	55	51	48	53	50	47	51	49	46	45
4	59	52	47	43	57	51	46	42	49	45	42	48	44	41	46	43	41	40
5	54	47	41	37	53	46	41	37	45	40	37	43	40	37	42	39	36	35
6	50	42	37	33	49	42	37	33	41	36	33	39	35	32	38	35	32	31
7	47	39	33	29	46	38	33	29	37	32	29	36	32	29	35	32	29	28
8	44	35	30	26	43	35	30	26	34	29	26	33	29	26	32	29	26	25
9	41	32	27	24	40	32	27	24	31	27	24	31	27	24	30	26	24	22
10	38	30	25	22	37	30	25	22	29	25	22	28	24	22	28	24	21	20

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

	0°	45°	90°
0°	4890	4890	4890
5°	4853	4903	4956
10°	4807	4930	5066
15°	4769	4982	5225
20°	4723	5055	5414
25°	4670	5133	5915
30°	4604	5300	6511
35°	4526	5676	5975
40°	4427	5747	4609
45°	4293	4964	3536
50°	4098	3734	3001
55°	3793	2868	2872
60°	3253	2180	1871
65°	2277	1260	608
70°	1094	433	313
75°	373	246	207
80°	189	154	142
85°	118	94	94



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	226.1	4.0	2.7	0°	2378	2378	2378	2378	2378	
10°-20°	662.1	11.8	7.9	5°	2351	2357	2375	2386	2401	223
20°-30°	1063.3	19.0	12.7	15°	2240	2265	2340	2413	2454	632
30°-40°	1336.6	23.9	15.9	25°	2058	2118	2262	2448	2607	948
40°-50°	1155.3	20.6	13.8	35°	1803	1911	2261	2413	2380	1127
50°-60°	807.6	14.4	9.6	45°	1476	1642	1707	1265	1216	1136
60°-70°	297.3	5.3	3.5	55°	1058	1199	800	729	801	937
70°-80°	43.2	0.8	0.5	65°	468	377	259	155	125	466
80°-90°	5.7	0.1	0.1	75°	47	39	31	28	26	71
90°-100°	0.0	0.0	0.0	85°	5	4	4	4	4	6
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
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°	1951.6	34.9	23.2	165°	0	0	0	0	0	0
0°-40°	3288.2	58.7	39.1	175°	0	0	0	0	0	0
0°-60°	5251.0	93.8	62.5	180°	0	0	0	0	0	0
0°-90°	5597.3	100.0	66.6							
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°	5597.3	100.0	66.6							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2378	2378	2378	2378	2378
2.5°	2365	2369	2378	2381	2393
5°	2351	2357	2375	2386	2401
7.5°	2329	2340	2369	2392	2412
10°	2302	2318	2361	2400	2426
12.5°	2273	2293	2351	2408	2444
15°	2240	2265	2340	2413	2454
17.5°	2202	2234	2328	2409	2460
20°	2158	2199	2310	2407	2474
22.5°	2110	2160	2285	2413	2506
25°	2058	2118	2262	2448	2607
27.5°	2001	2073	2243	2536	2720
30°	1939	2025	2232	2601	2742
32.5°	1874	1971	2243	2573	2622
35°	1803	1911	2261	2413	2380
37.5°	1728	1849	2236	2159	2065
40°	1649	1784	2141	1849	1717
42.5°	1565	1716	1956	1527	1417
45°	1476	1642	1707	1265	1216
47.5°	1381	1560	1432	1085	1062
50°	1281	1465	1167	943	938
52.5°	1174	1350	956	827	851
55°	1058	1199	800	729	801
57.5°	930	1010	666	641	680
60°	791	793	530	490	455
62.5°	635	573	394	304	236
65°	468	377	259	155	125
67.5°	306	227	138	90	77
70°	182	128	72	58	52
72.5°	96	70	46	40	37
75°	47	39	31	28	26
77.5°	27	24	21	19	18
80°	16	15	13	12	12
82.5°	9	9	8	8	7
85°	5	4	4	4	4
87.5°	2	2	2	2	2
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)