

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: 114P116

Luminaire Tested: **EP3GX2048-332S38I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 114P116
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GX2048-332S38I
Description: 20" X 48" Recessed Troffer with a 3" deep 24 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

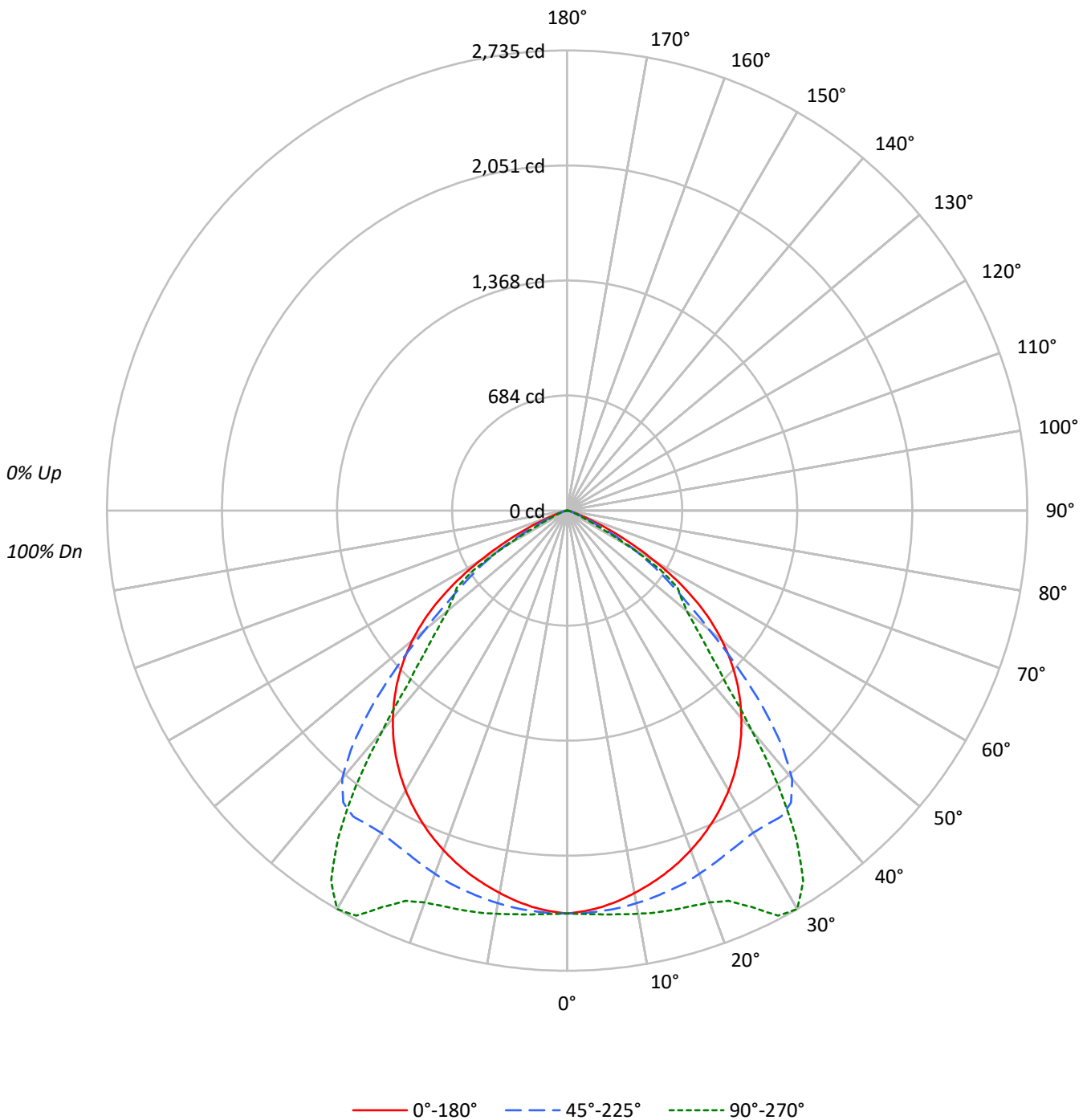
Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 5390.5 lumens
Efficiency: 64.2%
Efficacy: 61.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.45 / 1.39
Luminous Opening: Rectangular (W 1.4' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 87.2
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: 114P116
CATALOG NUMBER: EP3GX2048-332S38I

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	76	76	76	76	75	75	75	75	71	71	71	68	68	68	65	65	65	64
1	72	69	67	65	70	68	66	64	65	64	62	63	61	60	60	59	59	57
2	66	62	59	56	65	61	58	55	59	56	54	57	55	53	55	53	52	50
3	61	56	52	48	60	55	51	48	53	50	47	51	49	46	50	47	45	44
4	57	50	46	42	55	49	45	42	48	44	41	47	43	41	45	42	40	39
5	53	45	40	37	51	45	40	37	44	39	36	42	39	36	41	38	35	34
6	49	41	36	33	48	41	36	32	40	35	32	39	35	32	38	34	32	30
7	45	38	33	29	44	37	32	29	36	32	29	35	31	29	35	31	28	27
8	42	35	30	26	42	34	29	26	33	29	26	33	29	26	32	28	26	25
9	40	32	27	24	39	31	27	24	31	26	23	30	26	23	29	26	23	22
10	37	29	25	22	36	29	25	21	28	24	21	28	24	21	27	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4925	4925	4925
5°	4882	4932	4973
10°	4819	4949	5080
15°	4763	4980	5229
20°	4701	5029	5425
25°	4636	5101	5899
30°	4559	5250	6494
35°	4459	5571	5955
40°	4325	5584	4590
45°	4138	4755	3487
50°	3845	3532	2969
55°	3341	2642	2868
60°	2480	1851	1744
65°	1460	876	594
70°	565	355	319
75°	262	222	207
80°	142	142	142
85°	94	94	94



TEST NUMBER: 114P116

CATALOG NUMBER: EP3GX2048-332S38I

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	227.5	4.2	2.7	0°	2395	2395	2395	2395	2395	
10°-20°	662.8	12.3	7.9	5°	2365	2378	2389	2402	2409	224
20°-30°	1058.7	19.6	12.6	15°	2237	2270	2339	2420	2456	631
30°-40°	1319.9	24.5	15.7	25°	2043	2108	2248	2445	2600	941
40°-50°	1120.3	20.8	13.3	35°	1776	1887	2219	2386	2372	1110
50°-60°	738.0	13.7	8.8	45°	1423	1596	1635	1237	1199	1093
60°-70°	224.0	4.2	2.7	55°	932	1055	737	712	800	821
70°-80°	34.4	0.6	0.4	65°	300	245	180	139	122	311
80°-90°	4.9	0.1	0.1	75°	33	30	28	27	26	42
90°-100°	0.0	0.0	0.0	85°	4	4	4	4	4	5
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°	1949.0	36.2	23.2	165°	0	0	0	0	0	0
0°-40°	3268.9	60.6	38.9	175°	0	0	0	0	0	0
0°-60°	5127.2	95.1	61.0	180°	0	0	0	0	0	0
0°-90°	5390.5	100.0	64.2							
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°	5390.5	100.0	64.2							



TEST NUMBER: 114P116

CATALOG NUMBER: EP3GX2048-332S38I

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2395	2395	2395	2395	2395
2.5°	2383	2391	2394	2397	2400
5°	2365	2378	2389	2402	2409
7.5°	2339	2357	2382	2408	2420
10°	2308	2330	2370	2414	2433
12.5°	2274	2301	2356	2418	2447
15°	2237	2270	2339	2420	2456
17.5°	2195	2235	2322	2415	2464
20°	2148	2196	2298	2414	2479
22.5°	2098	2154	2272	2417	2510
25°	2043	2108	2248	2445	2600
27.5°	1984	2059	2227	2522	2714
30°	1920	2006	2211	2586	2735
32.5°	1851	1949	2211	2552	2611
35°	1776	1887	2219	2386	2372
37.5°	1697	1821	2186	2136	2064
40°	1611	1752	2080	1829	1710
42.5°	1521	1679	1885	1504	1401
45°	1423	1596	1635	1237	1199
47.5°	1316	1499	1363	1056	1045
50°	1202	1383	1104	916	928
52.5°	1075	1238	894	804	855
55°	932	1055	737	712	800
57.5°	774	832	592	608	658
60°	603	594	450	444	424
62.5°	438	387	307	263	220
65°	300	245	180	139	122
67.5°	180	148	96	84	77
70°	94	84	59	56	53
72.5°	53	48	40	39	37
75°	33	30	28	27	26
77.5°	21	20	18	19	18
80°	12	12	12	12	12
82.5°	7	7	7	7	7
85°	4	4	4	4	4
87.5°	2	1	1	1	1
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: 114P116

CATALOG NUMBER: EP3GX2048-332S38I

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)