

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: 220P130

Luminaire Tested: **2EP3GX-332W36P**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 220P130
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-332W36P
Description: 2 X 4 Recessed Convertible Body Luminaire with an 18 cell
white 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

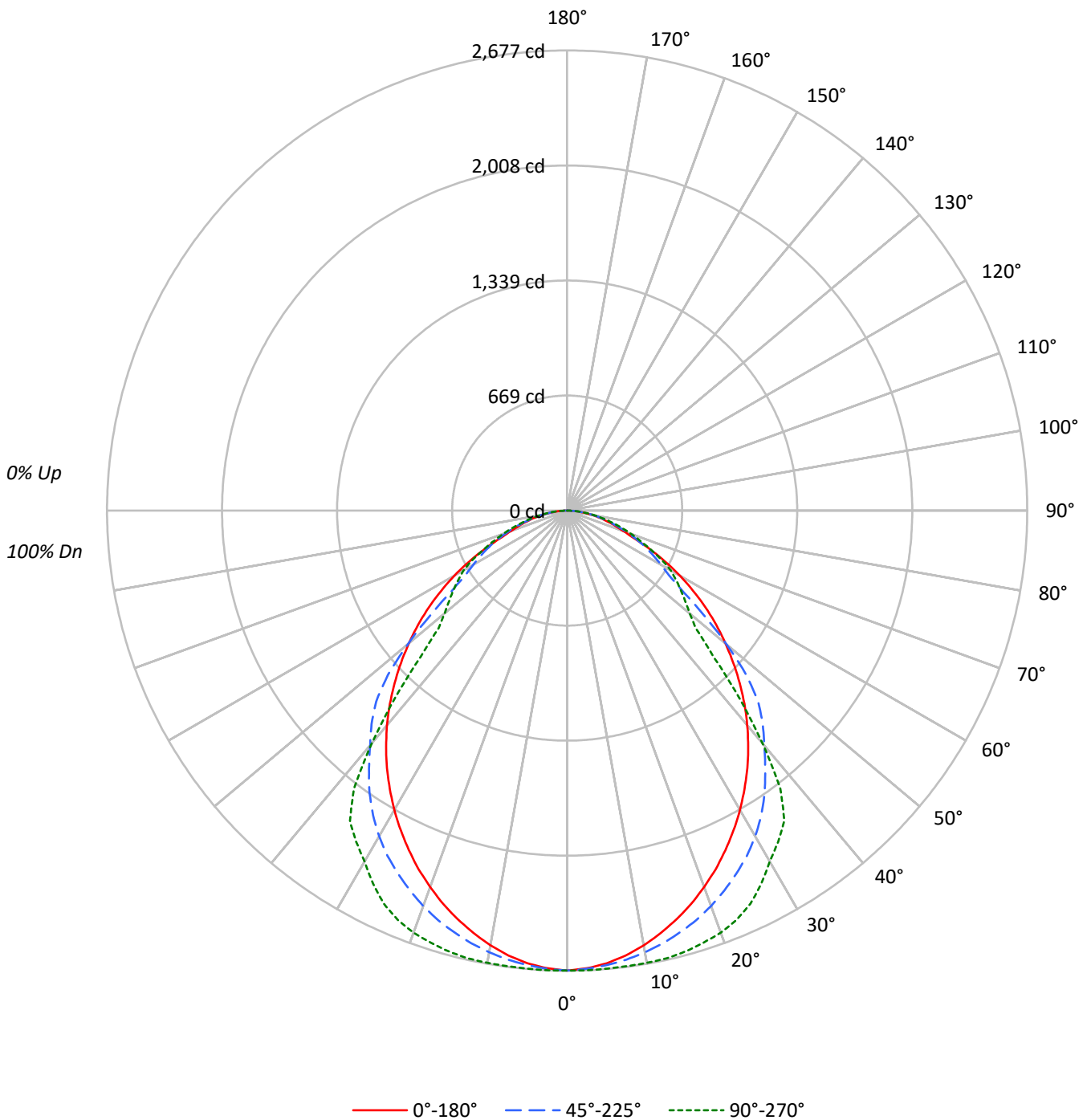
Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 6063.4 lumens
Efficiency: 72.2%
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.3 / 1.3
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 87.3
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: 220P130
CATALOG NUMBER: 2EP3GX-332W36P

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	50	30	10	0	
RCR																						
0	86	86	86	86	84	84	84	84	80	80	80	77	77	77	74	74	74	72				
1	79	76	74	71	77	75	72	70	72	70	68	69	67	66	66	65	64	62				
2	73	68	63	59	71	66	62	59	64	60	57	61	59	56	59	57	55	53				
3	67	60	55	50	65	59	54	50	57	53	49	55	51	48	53	50	47	46				
4	62	54	48	43	60	53	47	43	51	46	43	49	45	42	48	44	42	40				
5	57	49	42	38	56	48	42	38	46	41	37	45	40	37	44	40	37	35				
6	53	44	38	34	52	43	38	33	42	37	33	41	36	33	40	36	33	31				
7	49	40	34	30	48	40	34	30	38	33	30	37	33	29	37	32	29	28				
8	46	37	31	27	45	36	31	27	35	30	27	35	30	27	34	30	26	25				
9	43	34	28	24	42	34	28	24	33	28	24	32	27	24	31	27	24	23				
10	41	31	26	22	40	31	26	22	30	26	22	30	25	22	29	25	22	21				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4442	4442	4442
5°	4406	4422	4457
10°	4328	4398	4504
15°	4229	4365	4564
20°	4116	4324	4616
25°	3991	4268	4621
30°	3855	4194	4518
35°	3704	4061	4464
40°	3532	3864	3831
45°	3331	3690	2833
50°	3104	3127	2402
55°	2845	2390	2335
60°	2516	2092	2311
65°	2074	1968	2101
70°	1679	1801	1912
75°	1546	1629	1738
80°	1415	1482	1577
85°	1257	1295	1371



TEST NUMBER: 220P130

CATALOG NUMBER: 2EP3GX-332W36P

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	252.2	4.2	3.0	0°	2676	2676	2676	2676	2676	
10°-20°	718.7	11.9	8.6	5°	2644	2650	2654	2663	2675	250
20°-30°	1075.2	17.7	12.8	15°	2461	2480	2540	2614	2656	693
30°-40°	1244.7	20.5	14.8	25°	2179	2223	2330	2449	2523	1003
40°-50°	1099.6	18.1	13.1	35°	1828	1894	2004	2101	2203	1142
50°-60°	799.0	13.2	9.5	45°	1419	1501	1572	1317	1207	1094
60°-70°	524.1	8.6	6.2	55°	983	1041	826	774	807	877
70°-80°	271.7	4.5	3.2	65°	528	549	501	520	535	529
80°-90°	78.0	1.3	0.9	75°	241	244	254	265	271	257
90°-100°	0.0	0.0	0.0	85°	66	66	68	71	72	71
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	4
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°	2046.2	33.7	24.4	165°	0	0	0	0	0	0
0°-40°	3290.9	54.3	39.2	175°	0	0	0	0	0	0
0°-60°	5189.6	85.6	61.8	180°	0	0	0	0	0	0
0°-90°	6063.4	100.0	72.2							
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°	6063.4	100.0	72.2							



TEST NUMBER: 220P130

CATALOG NUMBER: 2EP3GX-332W36P

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2676	2676	2676	2676	2676
2.5°	2665	2669	2668	2670	2677
5°	2644	2650	2654	2663	2675
7.5°	2611	2618	2635	2657	2673
10°	2568	2578	2609	2648	2672
12.5°	2517	2532	2578	2634	2668
15°	2461	2480	2540	2614	2656
17.5°	2399	2423	2498	2584	2636
20°	2330	2361	2448	2548	2613
22.5°	2258	2294	2391	2506	2577
25°	2179	2223	2330	2449	2523
27.5°	2097	2148	2264	2376	2447
30°	2011	2068	2188	2283	2357
32.5°	1920	1983	2102	2184	2284
35°	1828	1894	2004	2101	2203
37.5°	1730	1801	1893	2003	2036
40°	1630	1704	1783	1824	1768
42.5°	1527	1605	1684	1577	1485
45°	1419	1501	1572	1317	1207
47.5°	1311	1392	1413	1077	1014
50°	1202	1279	1211	914	930
52.5°	1093	1162	1007	839	866
55°	983	1041	826	774	807
57.5°	870	921	702	713	750
60°	758	805	630	656	696
62.5°	643	681	565	596	619
65°	528	549	501	520	535
67.5°	420	435	437	448	461
70°	346	354	371	383	394
72.5°	292	296	310	321	330
75°	241	244	254	265	271
77.5°	193	196	203	211	216
80°	148	150	155	161	165
82.5°	106	107	110	115	118
85°	66	66	68	71	72
87.5°	29	29	29	30	31
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: 220P130

CATALOG NUMBER: 2EP3GX-332W36P

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)