

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: 220P147

Luminaire Tested: **2EP3GX-332S36I-DBLPAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 220P147
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-332S36I-DBLPAF
Description: 2 X 4 Recessed Convertible Body Luminaire with the housing,
end plates and one ballast cover double painted and an
18 cell semi-specular low iridescent parabolic louver.
Light Source: Three FO32/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Advance REL-3P32-TP Electronic - L.O.B.F.=89.5%

Summary

Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 6321.7 lumens
Efficiency: 75.3%
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 1.64 / 1.22 / 1.53
Luminous Opening: Rectangular (W 3.75' x L: 1.73' x H: 0')
CIE Type: Direct

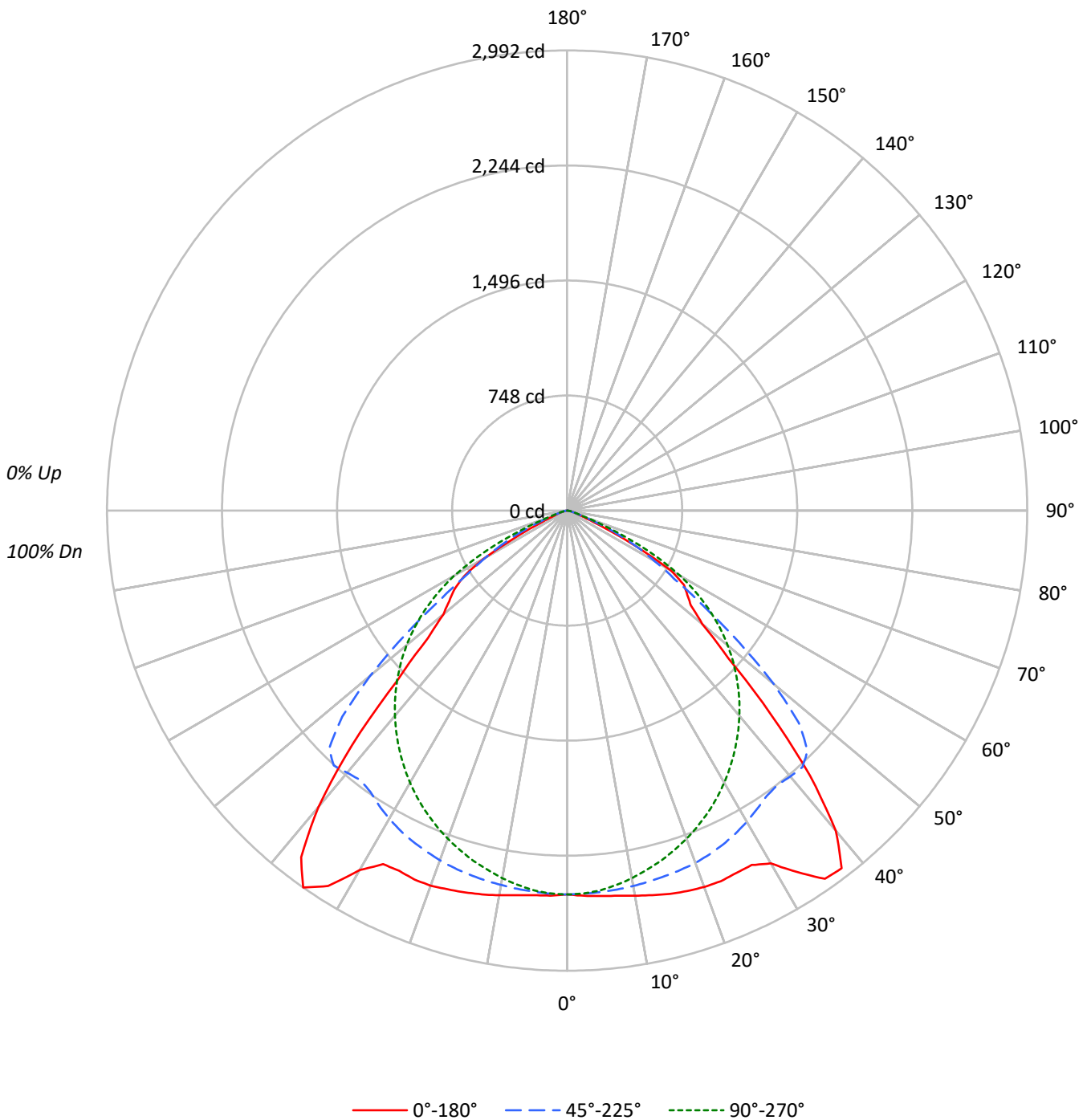
Input Watts (W): 89
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	50	30	10	0													
RCR																																					
0	90	90	90	90	88	88	88	88	84	84	84	80	80	80	77	77	77	75						75													
1	84	81	78	76	82	79	77	75	76	74	72	73	72	70	70	69	68	67						67													
2	77	72	68	64	75	71	67	63	68	65	62	66	63	61	64	61	59	58						58													
3	71	64	59	55	69	63	58	54	61	57	53	59	56	53	57	54	52	50						50													
4	66	58	52	47	64	57	51	47	55	50	46	53	49	46	52	48	45	44						44													
5	61	52	46	41	59	51	45	41	50	44	41	48	44	40	47	43	40	38						38													
6	56	47	41	36	55	46	40	36	45	40	36	44	39	36	43	38	35	34						34													
7	52	43	36	32	51	42	36	32	41	36	32	40	35	32	39	35	31	30						30													
8	48	39	33	29	47	38	33	29	37	32	28	37	32	28	36	31	28	27						27													
9	45	36	30	26	44	35	30	26	34	29	26	34	29	26	33	29	25	24						24													
10	42	33	27	23	41	33	27	23	32	27	23	31	26	23	30	26	23	22						22													

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4141	4141	4141
5°	4189	4129	4180
10°	4284	4089	4279
15°	4433	4049	4415
20°	4598	4010	4582
25°	4760	3965	4731
30°	5075	3914	5171
35°	5920	3850	6060
40°	5887	3773	5454
45°	4395	3670	3667
50°	2958	3518	2713
55°	2760	3272	2592
60°	2585	2817	2084
65°	1044	1845	746
70°	422	689	354
75°	276	308	231
80°	201	191	162
85°	133	133	95



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	237.3	3.8	2.8	0°	2496	2496	2496	2496	2496	
10°-20°	695.6	11.0	8.3	5°	2515	2490	2479	2487	2510	241
20°-30°	1099.8	17.4	13.1	15°	2581	2460	2357	2451	2570	732
30°-40°	1459.9	23.1	17.4	25°	2600	2396	2166	2374	2584	1208
40°-50°	1428.7	22.6	17.0	35°	2923	2264	1901	2232	2992	1781
50°-60°	956.1	15.1	11.4	45°	1873	2211	1564	2189	1563	1447
60°-70°	383.9	6.1	4.6	55°	954	1079	1131	997	896	856
70°-80°	52.1	0.8	0.6	65°	266	365	470	332	190	329
80°-90°	8.4	0.1	0.1	75°	43	40	48	38	36	49
90°-100°	0.0	0.0	0.0	85°	7	7	7	6	5	9
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°	2032.7	32.2	24.2	165°	0	0	0	0	0	0
0°-40°	3492.5	55.2	41.6	175°	0	0	0	0	0	0
0°-60°	5877.3	93.0	70.0	180°	0	0	0	0	0	0
0°-90°	6321.7	100.0	75.3							
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°	6321.7	100.0	75.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2496	2496	2496	2496	2496	2496	2496	2496	2496
2.5°	2507	2498	2493	2487	2492	2487	2493	2498	2506
5°	2515	2502	2490	2477	2479	2475	2487	2500	2510
7.5°	2526	2510	2485	2457	2455	2457	2481	2504	2522
10°	2543	2521	2478	2436	2427	2433	2472	2513	2540
12.5°	2561	2531	2470	2409	2392	2406	2463	2522	2556
15°	2581	2542	2460	2381	2357	2375	2451	2526	2570
17.5°	2594	2549	2450	2348	2315	2344	2437	2526	2582
20°	2604	2548	2438	2315	2271	2309	2420	2527	2595
22.5°	2609	2547	2419	2277	2220	2270	2397	2524	2596
25°	2600	2534	2396	2236	2166	2230	2374	2511	2584
27.5°	2598	2517	2369	2191	2107	2184	2347	2488	2591
30°	2649	2523	2337	2144	2043	2134	2313	2483	2699
32.5°	2787	2594	2299	2093	1974	2078	2275	2560	2894
35°	2923	2703	2264	2036	1901	2018	2232	2699	2992
37.5°	2932	2760	2247	1974	1824	1953	2208	2756	2841
40°	2718	2663	2257	1906	1742	1884	2225	2601	2518
42.5°	2339	2375	2263	1833	1656	1812	2247	2289	2074
45°	1873	1973	2211	1755	1564	1735	2189	1876	1563
47.5°	1422	1539	2043	1668	1467	1649	1984	1425	1228
50°	1146	1185	1752	1572	1363	1554	1673	1110	1051
52.5°	1013	986	1409	1466	1251	1442	1326	937	966
55°	954	875	1079	1341	1131	1313	997	835	896
57.5°	900	794	826	1183	998	1152	766	742	796
60°	779	687	657	986	849	953	612	622	628
62.5°	511	506	514	747	669	715	477	455	384
65°	266	288	365	493	470	458	332	264	190
67.5°	134	146	221	274	273	251	199	131	108
70°	87	86	114	138	142	130	103	80	73
72.5°	61	58	61	74	78	71	56	55	51
75°	43	41	40	46	48	44	38	39	36
77.5°	30	28	28	31	31	30	26	27	25
80°	21	19	19	20	20	19	18	18	17
82.5°	14	12	13	13	13	12	11	11	10
85°	7	7	7	7	7	6	6	6	5
87.5°	3	3	3	3	3	3	2	2	2
90°	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	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°	135°	157.5°	180°
112.5°	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)