

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: 220p212

Luminaire Tested: **2EP3GX-332S38I**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 220p212  
Test Lab: METALUX RESEARCH LABS  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2EP3GX-332S38I  
Description: 2X4 EP3GX RECESSED LUMINAIRE WITH 24 CELL SILVER  
PARABOLIC LOUVER  
Light Source: THREE LINEAR FLUORESCENT LAMPS, F32T8 32W - 3100 LUMENS EA  
Ballast/Driver: -

**Summary**

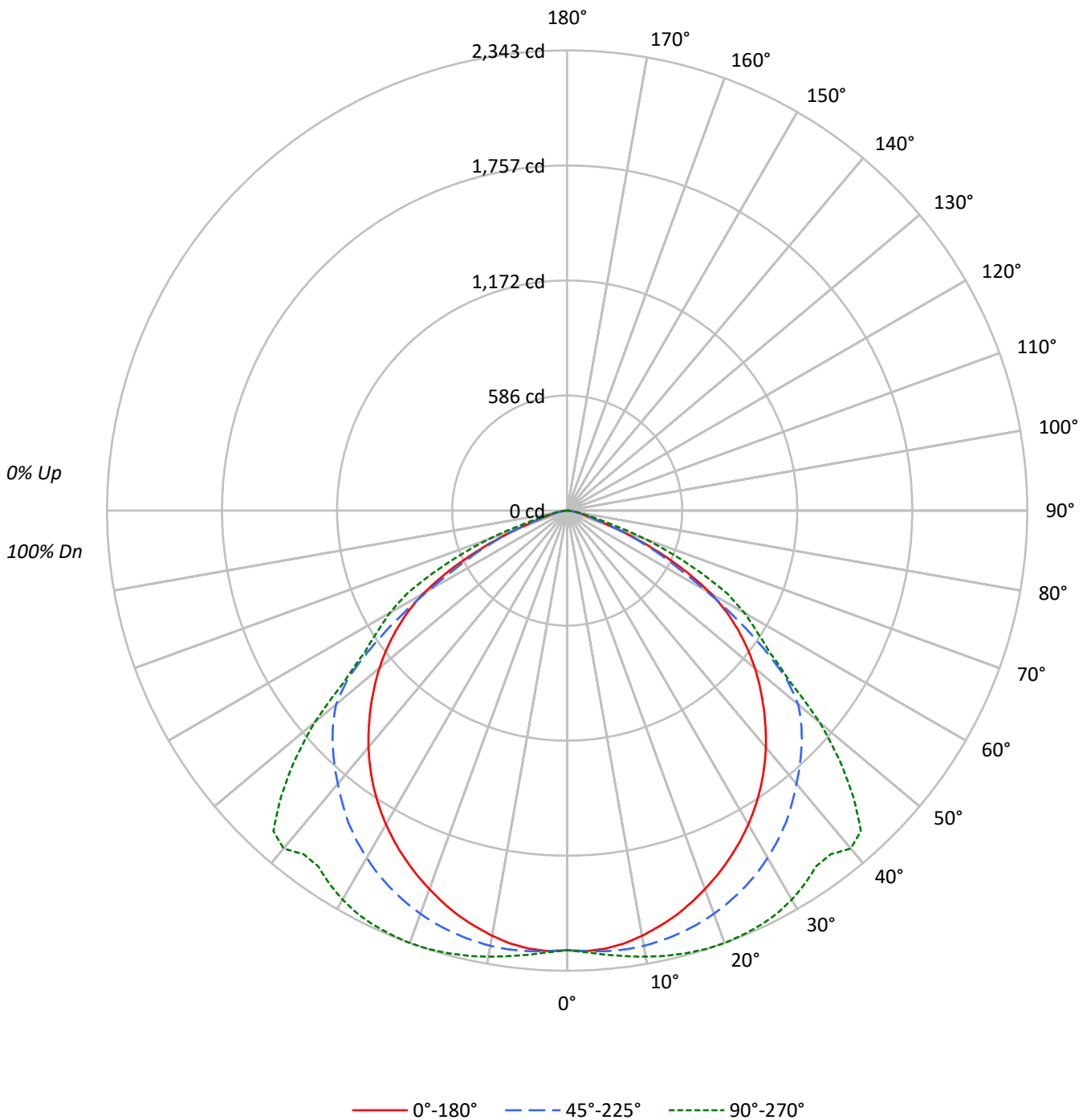
Lumens per Lamp: 3100 (3 lamps)  
Luminaire Lumens: 6168.7 lumens  
Efficiency: 66.3%  
Efficacy: 74.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.51 / 1.47  
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 83  
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	50	30	10	0	
RCR																						
0	79	79	79	79	77	77	77	77	74	74	74	71	71	71	68	68	68	66				66
1	73	70	68	66	71	69	67	65	66	64	63	64	62	61	61	60	59				58	
2	67	62	58	55	65	61	57	54	59	56	53	57	54	52	55	53	51				49	
3	62	55	50	46	60	54	50	46	52	48	45	50	47	44	49	46	43				42	
4	57	49	44	39	55	48	43	39	47	42	39	45	41	38	44	40	38				36	
5	52	44	38	34	51	43	38	34	42	37	34	41	36	33	39	36	33				31	
6	48	40	34	30	47	39	34	30	38	33	29	37	32	29	36	32	29				28	
7	45	36	30	26	43	35	30	26	34	30	26	33	29	26	32	29	26				24	
8	41	33	27	23	40	32	27	23	31	27	23	31	26	23	30	26	23				22	
9	39	30	25	21	38	30	24	21	29	24	21	28	24	21	27	24	21				20	
10	36	28	22	19	35	27	22	19	27	22	19	26	22	19	25	22	19				18	

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

	0°	45°	90°
0°	3715	3715	3715
5°	3731	3753	3783
10°	3705	3793	3887
15°	3669	3827	4009
20°	3623	3860	4139
25°	3581	3888	4266
30°	3536	3912	4384
35°	3483	3933	4480
40°	3411	3937	4867
45°	3319	3965	4836
50°	3223	3967	4333
55°	3079	3531	3641
60°	2809	2716	3463
65°	2145	1987	2969
70°	1213	1238	2043
75°	648	680	917
80°	449	459	516
85°	305	305	305



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	214.9	3.5	2.3	0°	2238	2238	2238	2238	2238	
10°-20°	630.2	10.2	6.8	5°	2239	2241	2252	2263	2270	212
20°-30°	983.0	15.9	10.6	15°	2135	2165	2227	2294	2333	602
30°-40°	1223.9	19.8	13.2	25°	1955	2015	2123	2244	2329	901
40°-50°	1316.9	21.3	14.2	35°	1719	1807	1941	2090	2211	1074
50°-60°	1055.9	17.1	11.4	45°	1414	1529	1689	1947	2060	1091
60°-70°	581.2	9.4	6.2	55°	1064	1166	1220	1150	1258	946
70°-80°	142.1	2.3	1.5	65°	546	557	506	641	756	540
80°-90°	20.6	0.3	0.2	75°	101	100	106	126	143	123
90°-100°	0.0	0.0	0.0	85°	16	16	16	15	16	21
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	1828.1	29.6	19.7							
0°-40°	3051.9	49.5	32.8							
0°-60°	5424.8	87.9	58.3							
0°-90°	6168.7	100.0	66.3							
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°	6168.7	100.0	66.3							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2238	2238	2238	2238	2238
2.5°	2245	2244	2245	2248	2251
5°	2239	2241	2252	2263	2270
7.5°	2223	2231	2254	2276	2288
10°	2198	2214	2250	2284	2306
12.5°	2168	2193	2241	2292	2322
15°	2135	2165	2227	2294	2333
17.5°	2095	2133	2208	2289	2341
20°	2051	2098	2185	2280	2343
22.5°	2005	2058	2156	2267	2338
25°	1955	2015	2123	2244	2329
27.5°	1902	1969	2086	2219	2313
30°	1845	1919	2041	2184	2287
32.5°	1784	1865	1994	2140	2253
35°	1719	1807	1941	2090	2211
37.5°	1648	1743	1880	2042	2205
40°	1574	1677	1817	2031	2246
42.5°	1495	1604	1754	2022	2214
45°	1414	1529	1689	1947	2060
47.5°	1332	1449	1618	1783	1882
50°	1248	1364	1536	1595	1678
52.5°	1158	1271	1408	1376	1428
55°	1064	1166	1220	1150	1258
57.5°	963	1045	1017	1004	1144
60°	846	907	818	891	1043
62.5°	703	741	641	777	922
65°	546	557	506	641	756
67.5°	393	375	377	493	584
70°	250	240	255	349	421
72.5°	149	151	161	213	245
75°	101	100	106	126	143
77.5°	70	69	72	79	88
80°	47	47	48	50	54
82.5°	30	29	30	30	31
85°	16	16	16	15	16
87.5°	6	6	6	6	5
90°	0	0	0	0	0

(END OF REPORT)