

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: 220p213

Luminaire Tested: **2EP3GX-432S36I**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 220p213  
Test Lab: METALUX RESEARCH LABS  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2EP3GX-432S36I  
Description: 2X4 EP3GX RECESSED LUMINAIRE, WITH 18 CELL SILVER  
PARABOLIC LOUVER.  
Light Source: FOUR LINEAR FLUORESCENT LAMPS, F32T8 32W - 3100 LUMENS EA  
Ballast/Driver: -

**Summary**

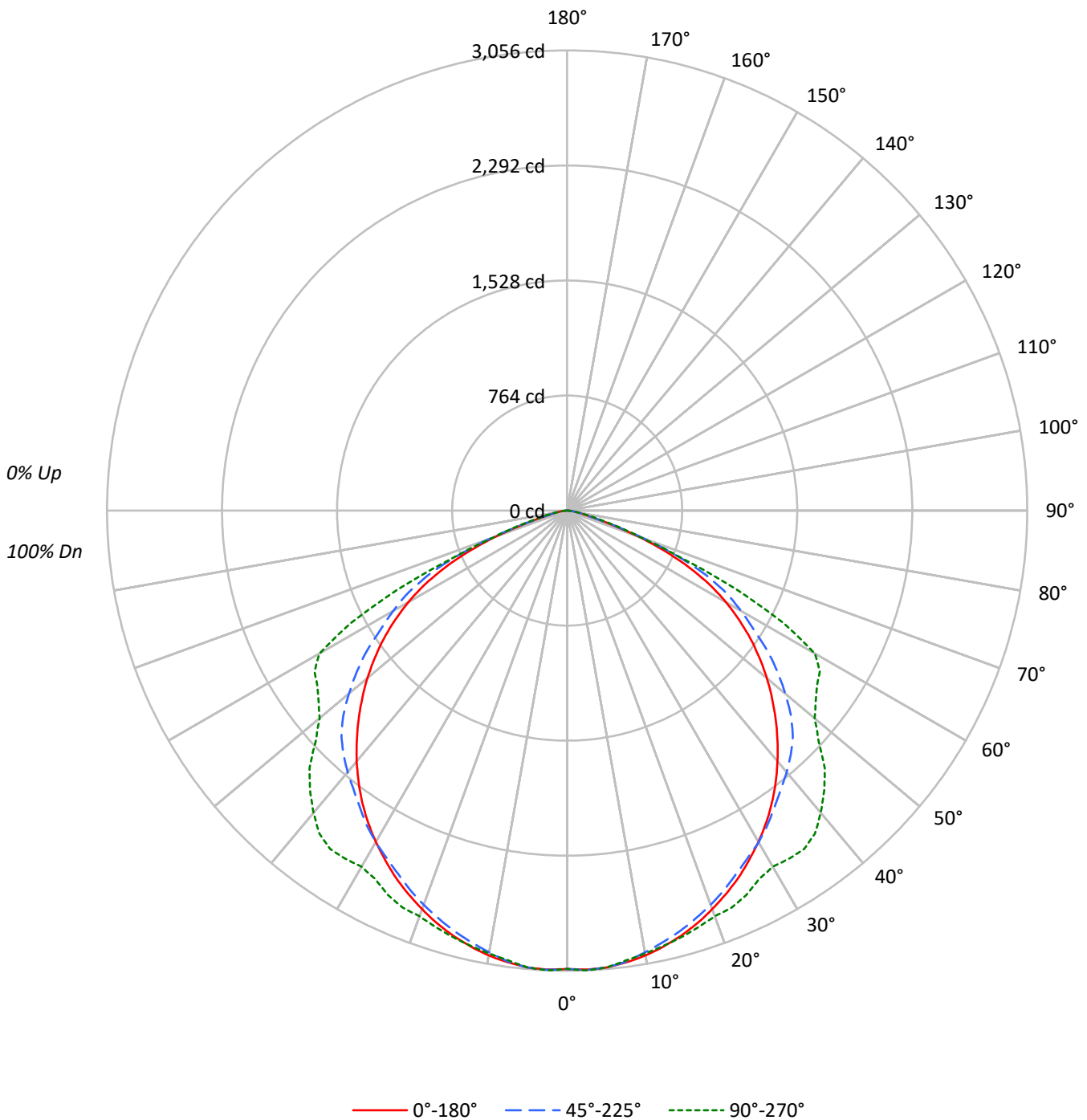
Lumens per Lamp: 3100 (4 lamps)  
Luminaire Lumens: 8304.6 lumens  
Efficiency: 67.0%  
Efficacy: 76.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.39 / 1.41  
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 109  
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	80	80	80	80	78	78	78	78	74	74	74	71	71	71	68	68	68	67
1	74	71	68	66	72	69	67	65	66	65	63	64	62	61	62	60	59	58
2	67	62	58	54	66	61	57	54	59	55	53	56	54	51	54	52	50	49
3	62	55	50	46	60	54	49	45	52	48	44	50	46	44	48	45	43	41
4	56	49	43	39	55	48	42	38	46	41	38	45	41	37	43	40	37	35
5	52	43	38	33	50	43	37	33	41	36	33	40	36	32	39	35	32	31
6	48	39	33	29	47	38	33	29	37	32	29	36	32	28	35	31	28	27
7	44	35	30	26	43	35	29	25	34	29	25	33	28	25	32	28	25	24
8	41	32	27	23	40	32	26	23	31	26	23	30	26	22	29	25	22	21
9	38	30	24	20	37	29	24	20	28	24	20	28	23	20	27	23	20	19
10	36	27	22	18	35	27	22	18	26	22	18	26	21	18	25	21	18	17

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

	0°	45°	90°
0°	5053	5053	5053
5°	5074	5076	5074
10°	5057	5021	5035
15°	5023	4970	5040
20°	4976	4921	5065
25°	4929	4872	5158
30°	4871	4874	5235
35°	4805	4868	5561
40°	4711	4915	5677
45°	4599	4977	5681
50°	4473	4886	5542
55°	4309	4700	5861
60°	4047	4429	6308
65°	3519	4018	4874
70°	2407	2635	2514
75°	1065	1077	1302
80°	679	669	727
85°	457	457	400



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	288.7	3.5	2.3	0°	3044	3044	3044	3044	3044	
10°-20°	821.0	9.9	6.6	5°	3045	3044	3046	3045	3045	289
20°-30°	1246.2	15.0	10.0	15°	2923	2902	2892	2916	2933	824
30°-40°	1542.6	18.6	12.4	25°	2691	2643	2660	2761	2816	1239
40°-50°	1639.5	19.7	13.2	35°	2371	2317	2402	2594	2744	1482
50°-60°	1492.9	18.0	12.0	45°	1959	1940	2120	2286	2420	1511
60°-70°	1006.9	12.1	8.1	55°	1489	1502	1624	1800	2025	1326
70°-80°	236.7	2.9	1.9	65°	896	930	1023	1165	1241	871
80°-90°	30.2	0.4	0.2	75°	166	171	168	192	203	224
90°-100°	0.0	0.0	0.0	85°	24	24	24	22	21	31
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°	2355.8	28.4	19.0							
0°-40°	3898.3	46.9	31.4							
0°-60°	7030.7	84.7	56.7							
0°-90°	8304.6	100.0	67.0							
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°	8304.6	100.0	67.0							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3044	3044	3044	3044	3044
2.5°	3051	3050	3053	3054	3056
5°	3045	3044	3046	3045	3045
7.5°	3026	3026	3020	3014	3012
10°	3000	2994	2979	2984	2987
12.5°	2965	2953	2937	2951	2960
15°	2923	2902	2892	2916	2933
17.5°	2874	2843	2840	2877	2900
20°	2817	2781	2786	2831	2867
22.5°	2756	2715	2726	2797	2854
25°	2691	2643	2660	2761	2816
27.5°	2617	2566	2599	2702	2759
30°	2541	2486	2543	2640	2731
32.5°	2459	2403	2477	2611	2741
35°	2371	2317	2402	2594	2744
37.5°	2275	2226	2331	2562	2703
40°	2174	2130	2268	2493	2620
42.5°	2068	2033	2198	2395	2526
45°	1959	1940	2120	2286	2420
47.5°	1846	1842	2017	2162	2264
50°	1732	1736	1892	2005	2146
52.5°	1611	1620	1762	1882	2080
55°	1489	1502	1624	1800	2025
57.5°	1357	1376	1468	1713	1989
60°	1219	1243	1334	1632	1900
62.5°	1070	1099	1198	1453	1620
65°	896	930	1023	1165	1241
67.5°	705	733	807	818	820
70°	496	522	543	510	518
72.5°	296	313	315	311	343
75°	166	171	168	192	203
77.5°	107	107	106	118	125
80°	71	70	70	74	76
82.5°	44	44	43	43	43
85°	24	24	24	22	21
87.5°	10	9	9	8	7
90°	0	0	0	0	0

(END OF REPORT)