

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: 220p204

Luminaire Tested: **2EP3GX-432S461**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 220p204
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-432S461
Description: 2X4 EP3GX RECESSED LUMINAIRE, WITH 24 CELL SILVER
PARABOLIC LOUVER.
Light Source: FOUR LINEAR FLUORESCENT LAMPS, F32T8 32W - 3100 LUMENS EA
Ballast/Driver: -

Summary

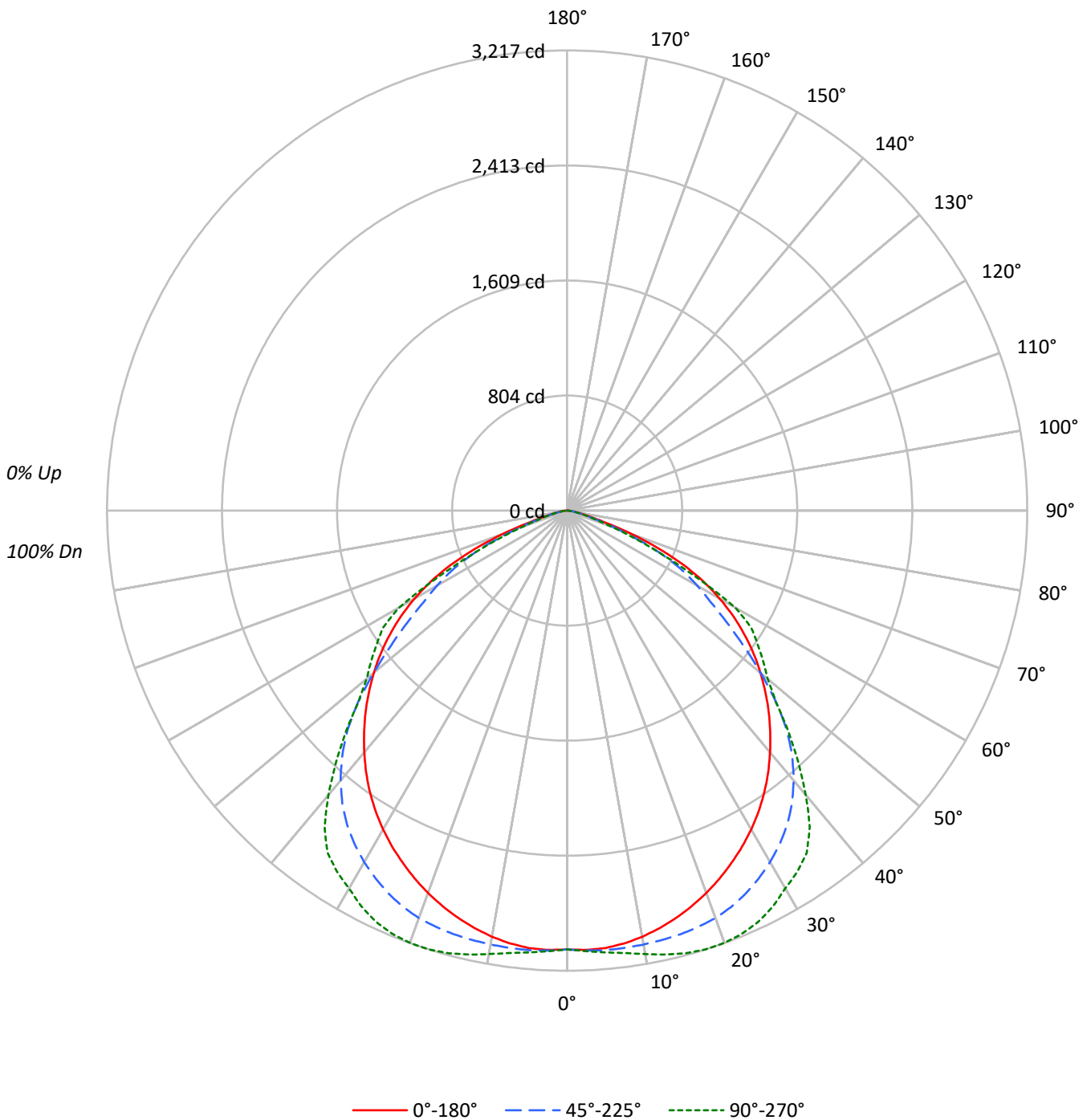
Lumens per Lamp: 3100 (4 lamps)
Luminaire Lumens: 8138.2 lumens
Efficiency: 65.6%
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.44 / 1.41
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

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



TEST NUMBER: 220p204
CATALOG NUMBER: 2EP3GX-432S461

Luminous Intensity Polar Plot





TEST NUMBER: 220p204

CATALOG NUMBER: 2EP3GX-432S461

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	78	78	78	78	76	76	76	76	73	73	73		70	70	70		67	67	67	66
1	72	70	67	65	71	68	66	64	66	64	62		63	62	60		61	60	59	57
2	67	62	58	54	65	61	57	54	58	55	53		56	54	51		54	52	50	49
3	61	55	50	46	60	54	49	46	52	48	45		50	47	44		48	46	43	42
4	56	49	44	39	55	48	43	39	46	42	39		45	41	38		44	40	38	36
5	52	44	38	34	50	43	38	34	42	37	34		40	36	33		39	36	33	32
6	48	40	34	30	47	39	34	30	38	33	30		37	33	29		36	32	29	28
7	44	36	30	27	43	35	30	26	34	30	26		33	29	26		33	29	26	25
8	41	33	27	24	40	32	27	24	31	27	23		31	26	23		30	26	23	22
9	39	30	25	21	38	30	25	21	29	24	21		28	24	21		28	24	21	20
10	36	28	23	19	35	27	23	19	27	22	19		26	22	19		26	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5093	5093	5093
5°	5116	5141	5167
10°	5099	5192	5306
15°	5066	5269	5506
20°	5026	5354	5681
25°	4978	5410	5804
30°	4934	5440	5846
35°	4872	5435	5917
40°	4782	5339	5625
45°	4679	5099	5136
50°	4558	4563	4723
55°	4385	3936	4700
60°	4090	3486	4515
65°	3519	2926	2958
70°	2359	1801	1631
75°	1045	898	859
80°	660	574	507
85°	457	381	286



TEST NUMBER: 220p204

CATALOG NUMBER: 2EP3GX-432S461

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	294.3	3.6	2.4	0°	3068	3068	3068	3068	3068	
10°-20°	868.0	10.7	7.0	5°	3070	3074	3085	3098	3101	292
20°-30°	1357.9	16.7	11.0	15°	2948	2979	3066	3159	3204	832
30°-40°	1664.2	20.4	13.4	25°	2718	2799	2954	3093	3169	1253
40°-50°	1639.7	20.1	13.2	35°	2404	2535	2682	2808	2920	1502
50°-60°	1335.6	16.4	10.8	45°	1993	2141	2172	2130	2188	1536
60°-70°	772.6	9.5	6.2	55°	1515	1569	1360	1478	1624	1349
70°-80°	180.4	2.2	1.5	65°	896	791	745	765	753	870
80°-90°	25.5	0.3	0.2	75°	163	145	140	136	134	218
90°-100°	0.0	0.0	0.0	85°	24	22	20	17	15	30
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°	2520.2	31.0	20.3							
0°-40°	4184.4	51.4	33.7							
0°-60°	7159.8	88.0	57.7							
0°-90°	8138.2	100.0	65.6							
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°	8138.2	100.0	65.6							



TEST NUMBER: 220p204

CATALOG NUMBER: 2EP3GX-432S461

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3068	3068	3068	3068	3068
2.5°	3074	3075	3079	3083	3083
5°	3070	3074	3085	3098	3101
7.5°	3052	3062	3084	3108	3119
10°	3025	3042	3080	3127	3148
12.5°	2989	3013	3074	3146	3179
15°	2948	2979	3066	3159	3204
17.5°	2899	2940	3051	3165	3217
20°	2845	2898	3031	3153	3216
22.5°	2784	2851	2999	3131	3201
25°	2718	2799	2954	3093	3169
27.5°	2649	2743	2900	3039	3118
30°	2574	2680	2838	2969	3050
32.5°	2492	2612	2765	2890	2994
35°	2404	2535	2682	2808	2920
37.5°	2308	2449	2582	2699	2786
40°	2207	2356	2464	2540	2596
42.5°	2101	2253	2328	2336	2393
45°	1993	2141	2172	2130	2188
47.5°	1880	2020	1983	1920	1978
50°	1765	1887	1767	1726	1829
52.5°	1643	1736	1555	1586	1726
55°	1515	1569	1360	1478	1624
57.5°	1379	1388	1187	1366	1527
60°	1232	1198	1050	1235	1360
62.5°	1074	997	913	1021	1039
65°	896	791	745	765	753
67.5°	694	583	558	523	525
70°	486	396	371	345	336
72.5°	286	242	223	213	206
75°	163	145	140	136	134
77.5°	105	96	92	88	86
80°	69	64	60	55	53
82.5°	44	40	37	33	31
85°	24	22	20	17	15
87.5°	9	9	7	6	5
90°	0	0	0	0	0

(END OF REPORT)