

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: 104P240

Luminaire Tested: **2P2GX-432S48I**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 104P240
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GX-432S48I
Description: 2 X 4 Recessed Convertible Body Luminaire with a 2"
deep 32 cell semi-specular low iridescent parabolic louver.
Light Source: Four - F32T8/TL735 - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B432I120RH Electronic L.O.B.F. = 89.7%

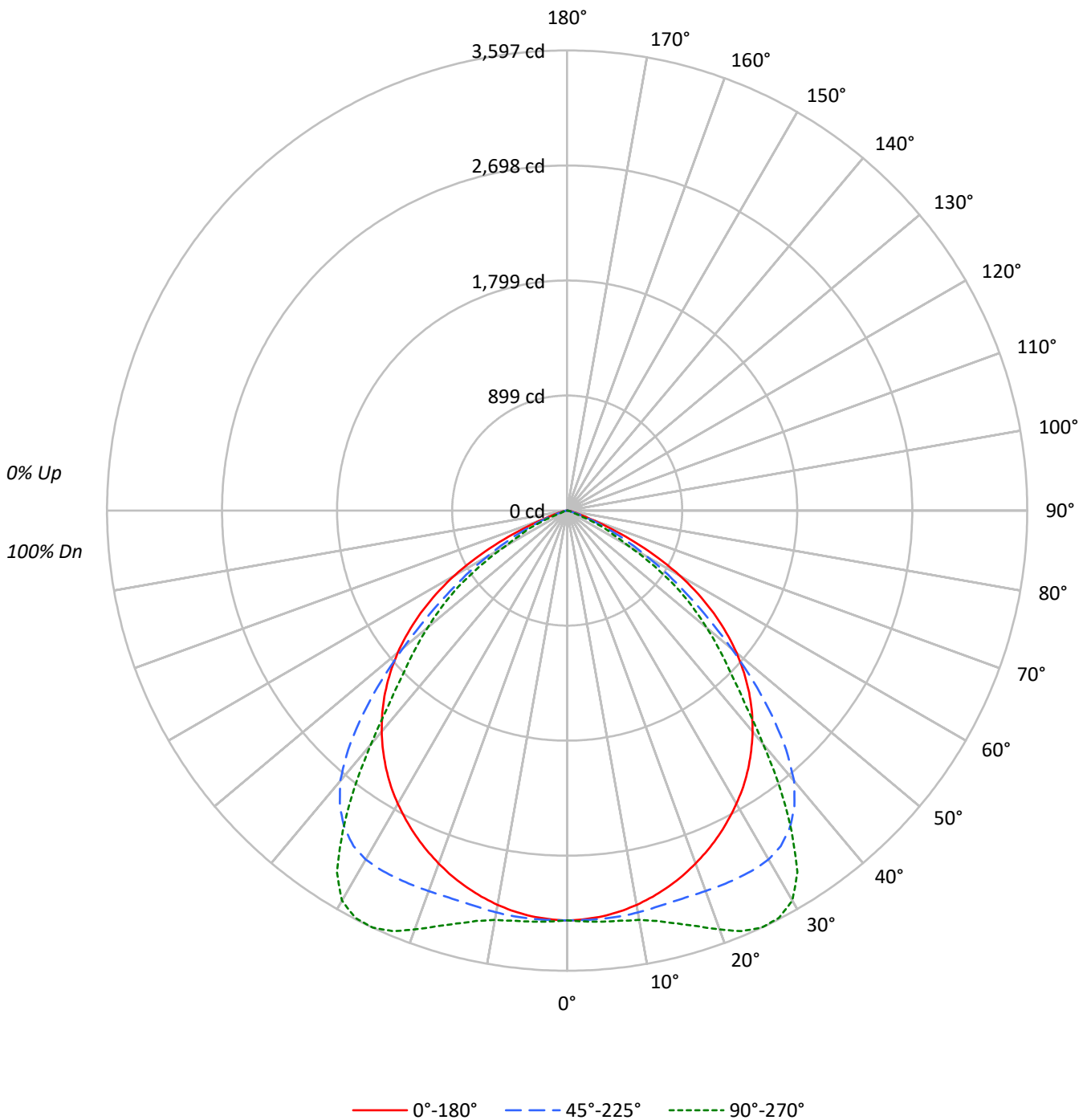
Summary

Lumens per Lamp: 2800 (4 lamps)
Luminaire Lumens: 7645.9 lumens
Efficiency: 68.3%
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.43 / 1.4
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 108.8
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	81	81	81	81	79	79	79	79	76	76	76	73	73	73	70	70	70	70	70	70	68	
1	76	73	71	69	74	72	70	68	69	67	66	66	65	64	64	63	62	64	63	62	61	
2	70	66	62	59	69	64	61	58	62	59	57	60	58	56	58	56	54	58	56	54	53	
3	65	59	54	50	63	58	53	50	56	52	49	54	51	48	52	50	48	52	50	48	46	
4	60	53	48	44	59	52	47	43	50	46	43	49	45	42	47	44	42	47	44	42	40	
5	56	48	42	38	54	47	42	38	46	41	38	44	40	37	43	40	37	43	40	37	36	
6	51	43	38	34	50	43	37	34	41	37	33	40	36	33	39	36	33	39	36	33	32	
7	48	39	34	30	47	39	34	30	38	33	30	37	33	30	36	32	29	36	32	29	28	
8	45	36	31	27	44	36	31	27	35	30	27	34	30	27	33	29	27	33	29	27	25	
9	42	33	28	24	41	33	28	24	32	27	24	31	27	24	31	27	24	31	27	24	23	
10	39	31	26	22	38	30	25	22	30	25	22	29	25	22	28	25	22	28	25	22	21	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5272	5272	5272
5°	5259	5289	5327
10°	5230	5330	5429
15°	5189	5393	5693
20°	5141	5542	6101
25°	5089	5750	6531
30°	5029	5983	6688
35°	4954	6090	6143
40°	4844	5926	5121
45°	4682	5261	4231
50°	4426	4283	3640
55°	4011	3305	2975
60°	3353	2402	1859
65°	2278	1526	1242
70°	948	683	245
75°	464	216	165
80°	275	142	123
85°	151	113	94



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	305.2	4.0	2.7	0°	3204	3204	3204	3204	3204	
10°-20°	902.3	11.8	8.1	5°	3184	3186	3202	3214	3225	302
20°-30°	1465.1	19.2	13.1	15°	3046	3078	3166	3284	3342	859
30°-40°	1787.6	23.4	16.0	25°	2803	2882	3167	3474	3597	1291
40°-50°	1599.0	20.9	14.3	35°	2466	2636	3032	3114	3058	1541
50°-60°	1094.0	14.3	9.8	45°	2012	2245	2261	1864	1818	1547
60°-70°	427.9	5.6	3.8	55°	1398	1530	1152	1026	1037	1240
70°-80°	56.9	0.7	0.5	65°	585	544	392	305	319	584
80°-90°	7.9	0.1	0.1	75°	73	57	34	29	26	91
90°-100°	0.0	0.0	0.0	85°	8	7	6	5	5	11
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	1
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°	2672.6	35.0	23.9	165°	0	0	0	0	0	0
0°-40°	4460.2	58.3	39.8	175°	0	0	0	0	0	0
0°-60°	7153.3	93.6	63.9	180°	0	0	0	0	0	0
0°-90°	7645.9	100.0	68.3							
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°	7645.9	100.0	68.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3204	3204	3204	3204	3204
2.5°	3197	3196	3203	3208	3215
5°	3184	3186	3202	3214	3225
7.5°	3161	3169	3199	3221	3234
10°	3130	3145	3190	3227	3249
12.5°	3091	3115	3177	3247	3286
15°	3046	3078	3166	3284	3342
17.5°	2995	3037	3163	3330	3408
20°	2936	2989	3165	3380	3484
22.5°	2872	2937	3167	3434	3558
25°	2803	2882	3167	3474	3597
27.5°	2727	2826	3164	3473	3588
30°	2647	2767	3149	3425	3520
32.5°	2561	2705	3109	3319	3350
35°	2466	2636	3032	3114	3058
37.5°	2364	2558	2918	2822	2734
40°	2255	2469	2759	2505	2384
42.5°	2138	2366	2535	2166	2066
45°	2012	2245	2261	1864	1818
47.5°	1875	2103	1972	1620	1620
50°	1729	1940	1673	1414	1422
52.5°	1569	1748	1395	1212	1234
55°	1398	1530	1152	1026	1037
57.5°	1215	1291	936	831	805
60°	1019	1036	730	622	565
62.5°	808	781	552	429	404
65°	585	544	392	305	319
67.5°	373	338	248	208	147
70°	197	186	142	68	51
72.5°	113	95	78	41	36
75°	73	57	34	29	26
77.5°	47	36	23	20	19
80°	29	22	15	14	13
82.5°	16	13	10	9	8
85°	8	7	6	5	5
87.5°	4	3	3	2	3
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



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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)