

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: 188P148

Luminaire Tested: **2EP3GX-432S48MI-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 188P148
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-432S48MI-PAF
Description: 2 X 4 Recessed Convertible Body Luminaire with a 3" deep
32 cell specular low iridescent parabolic louver.
Light Source: Four - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B432I120RH Electronic - L.O.B.F. = 89.5

Summary

Lumens per Lamp: 2800 (4 lamps)
Luminaire Lumens: 7841.8 lumens
Efficiency: 70.0%
Efficacy: 70.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.42 / 1.38
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

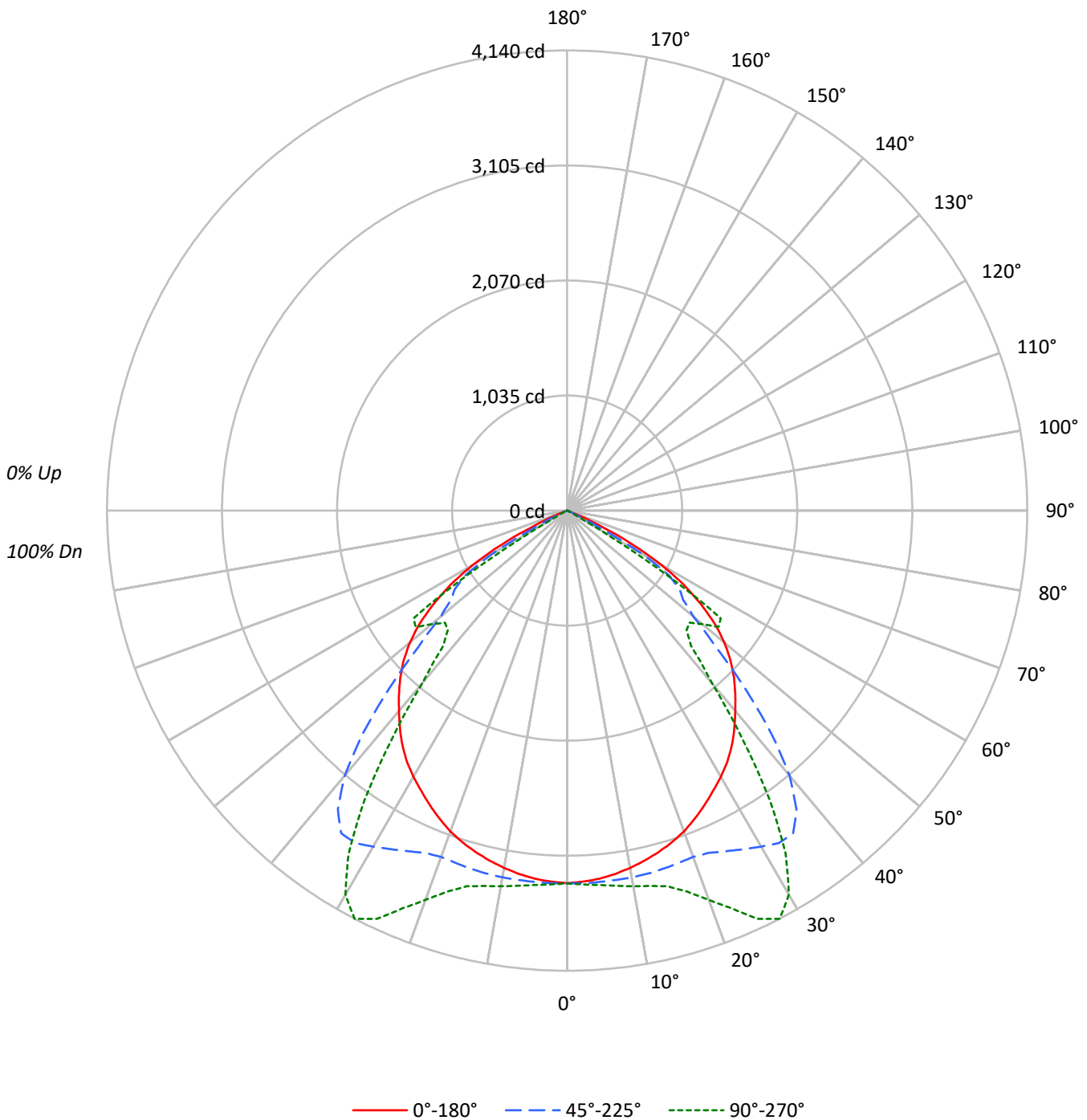
Input Watts (W): 111.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																				
0	83	83	83	83	81	81	81	81	78	78	78		74	74	74		71	71	71	70
1	78	76	73	71	76	74	72	70	71	70	68		69	67	66		66	65	64	63
2	73	68	64	61	71	67	63	60	64	62	59		62	60	58		60	58	57	55
3	67	61	57	53	66	60	56	52	58	55	52		56	53	51		55	52	50	49
4	62	55	50	46	61	54	49	46	53	48	45		51	47	45		50	47	44	43
5	58	50	44	40	56	49	44	40	48	43	40		46	42	39		45	42	39	38
6	53	45	40	36	52	45	39	36	43	39	35		42	38	35		41	38	35	33
7	50	41	36	32	49	41	35	32	40	35	32		39	34	31		38	34	31	30
8	46	38	32	29	45	37	32	29	36	32	28		36	31	28		35	31	28	27
9	43	35	29	26	42	34	29	26	34	29	26		33	29	26		32	28	25	24
10	41	32	27	24	40	32	27	23	31	27	23		30	26	23		30	26	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5566	5566	5566
5°	5540	5589	5634
10°	5502	5647	5785
15°	5465	5735	6013
20°	5427	5856	6582
25°	5355	6192	7421
30°	5300	6691	7646
35°	5232	7184	6438
40°	5099	6743	4399
45°	4981	5312	3566
50°	4767	3832	4101
55°	4248	3571	4882
60°	3260	2563	558
65°	1387	318	98
70°	121	78	63
75°	64	58	51
80°	48	48	48
85°	38	38	38



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	319.9	4.1	2.9	0°	3353	3353	3353	3353	3353	
10°-20°	948.0	12.1	8.5	5°	3325	3333	3354	3372	3381	315
20°-30°	1586.6	20.2	14.2	15°	3180	3225	3337	3440	3499	897
30°-40°	1934.2	24.7	17.3	25°	2924	3044	3381	3835	4052	1348
40°-50°	1606.9	20.5	14.3	35°	2582	2804	3545	3383	3177	1611
50°-60°	1223.8	15.6	10.9	45°	2122	2555	2263	1530	1519	1632
60°-70°	209.6	2.7	1.9	55°	1468	1714	1234	1469	1687	1294
70°-80°	10.6	0.1	0.1	65°	353	271	81	30	25	404
80°-90°	2.3	0.0	0.0	75°	10	10	9	9	8	12
90°-100°	0.0	0.0	0.0	85°	2	2	2	2	2	2
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°	2854.5	36.4	25.5	165°	0	0	0	0	0	0
0°-40°	4788.7	61.1	42.8	175°	0	0	0	0	0	0
0°-60°	7619.4	97.2	68.0	180°	0	0	0	0	0	0
0°-90°	7841.8	100.0	70.0							
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°	7841.8	100.0	70.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3353	3353	3353	3353	3353
2.5°	3341	3344	3355	3361	3367
5°	3325	3333	3354	3372	3381
7.5°	3298	3315	3352	3388	3404
10°	3264	3288	3350	3409	3432
12.5°	3225	3258	3346	3425	3459
15°	3180	3225	3337	3440	3499
17.5°	3130	3189	3325	3491	3594
20°	3072	3150	3315	3589	3726
22.5°	3001	3102	3333	3695	3873
25°	2924	3044	3381	3835	4052
27.5°	2843	2980	3434	3974	4140
30°	2765	2919	3491	3957	3989
32.5°	2681	2861	3546	3753	3659
35°	2582	2804	3545	3383	3177
37.5°	2471	2750	3389	2890	2592
40°	2353	2695	3112	2320	2030
42.5°	2240	2632	2720	1825	1647
45°	2122	2555	2263	1530	1519
47.5°	1994	2459	1814	1439	1492
50°	1846	2309	1484	1447	1588
52.5°	1675	2083	1314	1510	1718
55°	1468	1714	1234	1469	1687
57.5°	1245	1273	1090	1120	955
60°	982	862	772	440	168
62.5°	674	523	340	71	41
65°	353	271	81	30	25
67.5°	122	100	24	20	18
70°	25	29	16	14	13
72.5°	14	13	12	11	10
75°	10	10	9	9	8
77.5°	7	7	7	6	7
80°	5	5	5	5	5
82.5°	3	3	3	3	3
85°	2	2	2	2	2
87.5°	1	1	1	1	1
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)