

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: 188P147

Luminaire Tested: **2EP3GX-432S46MI-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 188P147
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-432S46MI-PAF
Description: 2 X 4 Recessed Convertible Body Luminaire with a 3" deep
24 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: 7955.2 lumens
Efficiency: 71.0%
Efficacy: 70.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.43 / 1.4
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

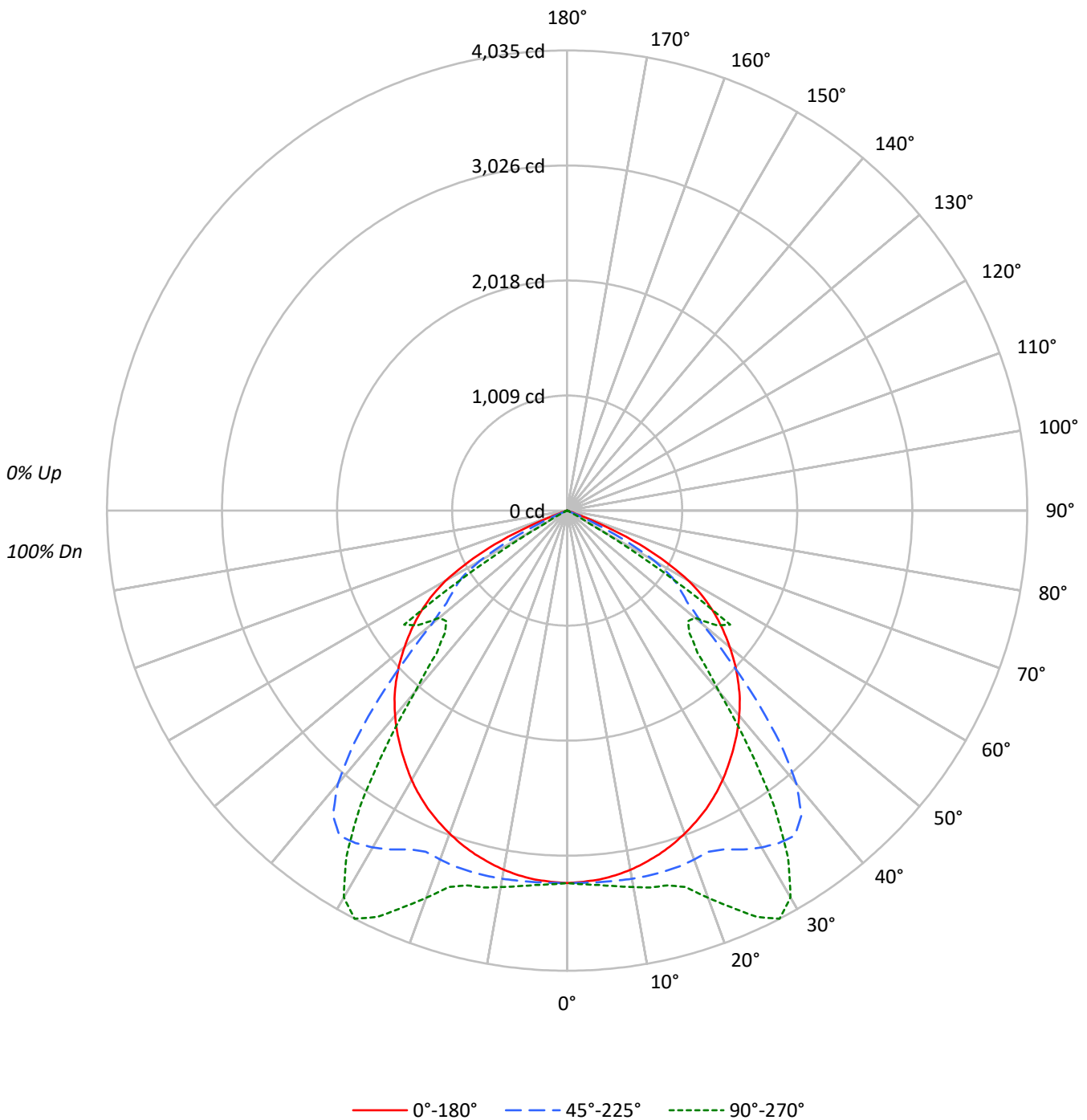
Input Watts (W): 112.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	85	85	85	83	83	83	83	79	79	79	76	76	76	72	72	72	71
1	79	77	74	72	77	75	73	71	72	70	69	69	68	67	67	66	65	63
2	73	69	65	62	72	67	64	61	65	62	59	63	60	58	61	59	57	56
3	68	62	57	53	66	61	56	52	59	55	52	57	53	51	55	52	50	49
4	63	55	50	46	61	54	49	46	53	48	45	51	47	44	50	47	44	43
5	58	50	44	40	57	49	44	40	48	43	40	46	42	39	45	42	39	37
6	54	45	40	35	52	45	39	35	43	39	35	42	38	35	41	37	34	33
7	50	41	36	32	49	41	35	31	40	35	31	39	34	31	38	34	31	30
8	47	38	32	28	46	37	32	28	36	31	28	35	31	28	35	31	28	26
9	44	35	29	26	43	34	29	25	33	29	25	33	28	25	32	28	25	24
10	41	32	27	23	40	32	27	23	31	26	23	30	26	23	30	26	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5421	5421	5421
5°	5410	5449	5492
10°	5390	5525	5650
15°	5362	5630	5846
20°	5324	5752	6382
25°	5284	6002	7198
30°	5227	6536	7506
35°	5153	7052	6412
40°	5088	6778	4494
45°	4981	5486	3559
50°	4806	4000	3775
55°	4573	3508	5047
60°	4093	2938	734
65°	2746	1009	102
70°	408	87	63
75°	77	58	51
80°	57	48	48
85°	57	38	38



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	312.4	3.9	2.8	0°	3266	3266	3266	3266	3266	
10°-20°	927.4	11.7	8.3	5°	3247	3251	3270	3289	3296	308
20°-30°	1552.2	19.5	13.9	15°	3120	3164	3276	3374	3402	880
30°-40°	1914.6	24.1	17.1	25°	2885	2999	3277	3738	3930	1329
40°-50°	1616.6	20.3	14.4	35°	2543	2752	3480	3371	3164	1592
50°-60°	1281.2	16.1	11.4	45°	2122	2528	2337	1572	1516	1633
60°-70°	334.7	4.2	3.0	55°	1580	1861	1212	1473	1744	1402
70°-80°	13.3	0.2	0.1	65°	699	519	257	31	26	664
80°-90°	2.8	0.0	0.0	75°	12	11	9	8	8	23
90°-100°	0.0	0.0	0.0	85°	3	3	2	2	2	3
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°	2792.0	35.1	24.9	165°	0	0	0	0	0	0
0°-40°	4706.6	59.2	42.0	175°	0	0	0	0	0	0
0°-60°	7604.4	95.6	67.9	180°	0	0	0	0	0	0
0°-90°	7955.2	100.0	71.0							
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°	7955.2	100.0	71.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3266	3266	3266	3266	3266
2.5°	3258	3258	3267	3276	3280
5°	3247	3251	3270	3289	3296
7.5°	3227	3238	3274	3309	3322
10°	3198	3219	3278	3333	3352
12.5°	3162	3194	3280	3355	3385
15°	3120	3164	3276	3374	3402
17.5°	3071	3131	3272	3383	3460
20°	3014	3092	3256	3476	3613
22.5°	2952	3048	3238	3606	3765
25°	2885	2999	3277	3738	3930
27.5°	2810	2947	3351	3877	4035
30°	2727	2890	3410	3895	3916
32.5°	2637	2826	3456	3717	3604
35°	2543	2752	3480	3371	3164
37.5°	2449	2685	3373	2915	2612
40°	2348	2633	3128	2377	2074
42.5°	2241	2589	2762	1887	1692
45°	2122	2528	2337	1572	1516
47.5°	1996	2446	1902	1433	1436
50°	1861	2311	1549	1387	1462
52.5°	1725	2125	1333	1409	1652
55°	1580	1861	1212	1473	1744
57.5°	1421	1538	1097	1251	974
60°	1233	1191	885	544	221
62.5°	980	847	604	111	43
65°	699	519	257	31	26
67.5°	370	230	45	20	18
70°	84	61	18	14	13
72.5°	21	17	12	11	10
75°	12	11	9	8	8
77.5°	8	8	7	6	6
80°	6	6	5	5	5
82.5°	4	4	4	3	3
85°	3	3	2	2	2
87.5°	2	2	2	1	2
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)