

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: 188P150

Luminaire Tested: **2EP3GX-432S36MI-NSBC-PAF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 188P150  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2EP3GX-432S36MI-NSBC-PAF  
Description: 2 X 4 Recessed Convertible Body Luminaire with a 3" deep  
18 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**

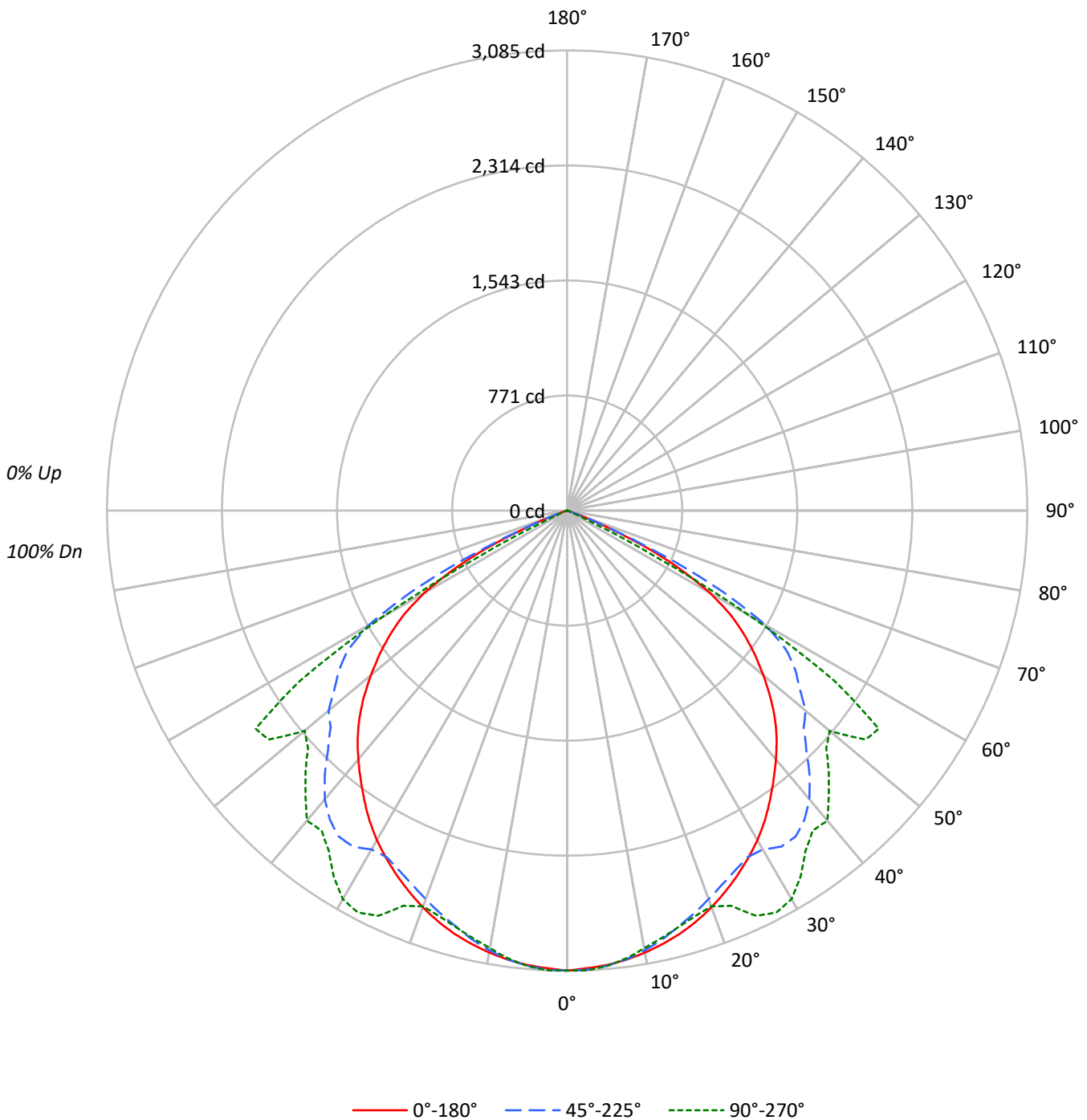
Lumens per Lamp: 2800 (4 lamps)  
Luminaire Lumens: 8010.6 lumens  
Efficiency: 71.5%  
Efficacy: 71.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.39 / 1.45  
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 112.9  
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		73	73	73	72
1	79	77	74	72	77	75	73	71	72	70	68		69	68	66		67	66	64	63
2	73	68	64	60	71	67	63	60	64	61	58		62	59	57		60	58	56	54
3	67	60	55	51	65	59	54	50	57	53	50		55	52	49		53	50	48	46
4	61	54	48	43	60	53	47	43	51	46	43		49	45	42		48	44	42	40
5	57	48	42	38	55	47	42	37	46	41	37		44	40	37		43	39	36	35
6	52	43	37	33	51	43	37	33	41	36	32		40	36	32		39	35	32	30
7	48	39	33	29	47	39	33	29	37	32	29		36	32	28		35	31	28	27
8	45	36	30	26	44	35	29	26	34	29	25		33	29	25		32	28	25	24
9	42	33	27	23	41	32	27	23	31	26	23		31	26	23		30	26	23	21
10	39	30	24	21	38	30	24	21	29	24	21		28	24	21		28	23	20	19

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

	0°	45°	90°
0°	5119	5119	5119
5°	5096	5106	5106
10°	5072	5048	5021
15°	5044	4960	4965
20°	4999	4897	4987
25°	4943	4876	5489
30°	4890	5028	5766
35°	4805	5409	5646
40°	4720	5476	5879
45°	4625	5322	5822
50°	4431	5390	5932
55°	4191	5406	7380
60°	3675	5099	4774
65°	2317	2765	526
70°	388	354	78
75°	58	58	51
80°	48	48	38
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°	290.1	3.6	2.6	0°	3084	3084	3084	3084	3084	
10°-20°	818.9	10.2	7.3	5°	3058	3060	3064	3064	3064	290
20°-30°	1273.1	15.9	11.4	15°	2935	2919	2886	2883	2889	828
30°-40°	1618.0	20.2	14.4	25°	2699	2654	2662	2851	2997	1244
40°-50°	1729.0	21.6	15.4	35°	2371	2336	2669	2777	2786	1484
50°-60°	1666.0	20.8	14.9	45°	1970	2024	2267	2423	2480	1514
60°-70°	595.0	7.4	5.3	55°	1448	1654	1868	2284	2550	1283
70°-80°	18.1	0.2	0.2	65°	590	712	704	289	134	570
80°-90°	2.3	0.0	0.0	75°	9	10	9	9	8	21
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°	2382.2	29.7	21.3	165°	0	0	0	0	0	0
0°-40°	4000.2	49.9	35.7	175°	0	0	0	0	0	0
0°-60°	7395.2	92.3	66.0	180°	0	0	0	0	0	0
0°-90°	8010.6	100.0	71.5							
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°	8010.6	100.0	71.5							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3084	3084	3084	3084	3084
2.5°	3071	3074	3081	3083	3085
5°	3058	3060	3064	3064	3064
7.5°	3037	3037	3035	3031	3029
10°	3009	3004	2995	2983	2979
12.5°	2975	2965	2945	2931	2934
15°	2935	2919	2886	2883	2889
17.5°	2886	2866	2831	2835	2851
20°	2830	2803	2772	2796	2823
22.5°	2767	2731	2714	2774	2868
25°	2699	2654	2662	2851	2997
27.5°	2627	2576	2619	2941	3038
30°	2551	2499	2623	2941	3008
32.5°	2466	2420	2671	2887	2911
35°	2371	2336	2669	2777	2786
37.5°	2274	2249	2613	2653	2704
40°	2178	2165	2527	2567	2713
42.5°	2079	2090	2405	2549	2596
45°	1970	2024	2267	2423	2480
47.5°	1848	1975	2151	2302	2356
50°	1716	1907	2087	2208	2297
52.5°	1585	1800	1965	2222	2522
55°	1448	1654	1868	2284	2550
57.5°	1297	1480	1744	2104	2125
60°	1107	1272	1536	1543	1438
62.5°	868	1018	1174	907	656
65°	590	712	704	289	134
67.5°	275	387	276	50	23
70°	80	126	73	18	16
72.5°	21	27	17	12	11
75°	9	10	9	9	8
77.5°	7	7	7	6	6
80°	5	5	5	5	4
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)