

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: 188P146

Luminaire Tested: **2EP3GX-432S28MI-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 188P146
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-432S28MI-PAF
Description: 2 X 4 Recessed Convertible Body Luminaire with a 3" deep
16 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

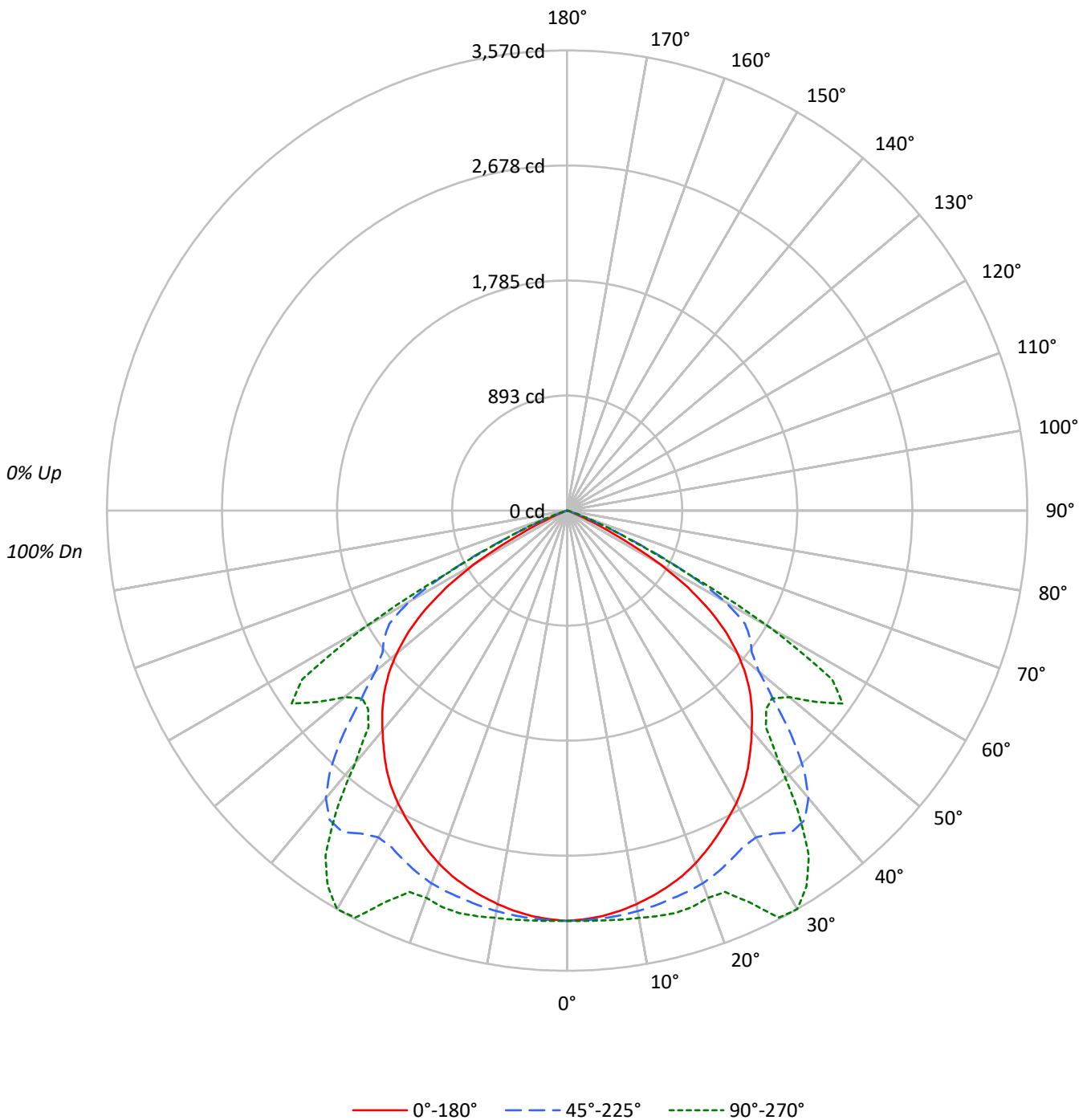
Lumens per Lamp: 2800 (4 lamps)
Luminaire Lumens: 8389.2 lumens
Efficiency: 74.9%
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.48 / 1.45
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 112
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	89	89	89	89	87	87	87	87	83	83	83	80	80	80	76	76	76	75
1	83	80	78	75	81	79	76	74	75	74	72	73	71	70	70	69	68	66
2	77	71	67	63	75	70	66	63	67	64	61	65	62	60	63	61	59	57
3	70	63	58	54	69	62	57	53	60	56	52	58	55	52	56	53	51	49
4	65	57	51	46	63	56	50	46	54	49	45	52	48	45	51	47	44	43
5	60	51	45	40	58	50	44	40	48	43	39	47	42	39	46	42	39	37
6	55	46	39	35	54	45	39	35	44	38	35	43	38	34	41	37	34	33
7	51	41	35	31	50	41	35	31	40	34	31	39	34	30	38	33	30	29
8	47	38	32	28	46	37	31	27	36	31	27	35	31	27	35	30	27	26
9	44	35	29	25	43	34	29	25	33	28	25	33	28	24	32	27	24	23
10	42	32	26	22	41	32	26	22	31	26	22	30	25	22	29	25	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5284	5284	5284
5°	5262	5292	5319
10°	5225	5318	5409
15°	5190	5360	5556
20°	5146	5435	5647
25°	5075	5485	6141
30°	5030	5610	6843
35°	4953	6164	6620
40°	4828	6310	5547
45°	4714	5766	5122
50°	4457	5007	5810
55°	3907	5018	7551
60°	2759	4714	6065
65°	935	2376	2184
70°	87	442	699
75°	51	64	71
80°	38	48	57
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°	302.5	3.6	2.7	0°	3183	3183	3183	3183	3183	
10°-20°	882.6	10.5	7.9	5°	3158	3161	3176	3190	3192	300
20°-30°	1405.3	16.8	12.5	15°	3020	3045	3119	3203	3233	852
30°-40°	1811.3	21.6	16.2	25°	2771	2844	2995	3170	3353	1278
40°-50°	1743.6	20.8	15.6	35°	2444	2579	3042	3261	3267	1526
50°-60°	1638.4	19.5	14.6	45°	2008	2233	2456	2136	2182	1541
60°-70°	579.4	6.9	5.2	55°	1350	1701	1734	2219	2609	1180
70°-80°	23.8	0.3	0.2	65°	238	374	605	593	556	305
80°-90°	2.3	0.0	0.0	75°	8	8	10	13	11	9
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°	2590.4	30.9	23.1	165°	0	0	0	0	0	0
0°-40°	4401.7	52.5	39.3	175°	0	0	0	0	0	0
0°-60°	7783.7	92.8	69.5	180°	0	0	0	0	0	0
0°-90°	8389.2	100.0	74.9							
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°	8389.2	100.0	74.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3183	3183	3183	3183	3183
2.5°	3173	3173	3181	3188	3187
5°	3158	3161	3176	3190	3192
7.5°	3132	3140	3167	3194	3200
10°	3100	3112	3155	3197	3209
12.5°	3062	3080	3140	3199	3223
15°	3020	3045	3119	3203	3233
17.5°	2971	3006	3101	3193	3224
20°	2913	2961	3077	3165	3197
22.5°	2844	2906	3041	3129	3202
25°	2771	2844	2995	3170	3353
27.5°	2698	2779	2947	3324	3560
30°	2624	2716	2927	3453	3570
32.5°	2541	2653	2972	3411	3456
35°	2444	2579	3042	3261	3267
37.5°	2336	2492	3026	3042	2946
40°	2228	2399	2912	2694	2560
42.5°	2122	2311	2717	2352	2281
45°	2008	2233	2456	2136	2182
47.5°	1879	2160	2168	2068	2156
50°	1726	2071	1939	2073	2250
52.5°	1557	1940	1806	2149	2438
55°	1350	1701	1734	2219	2609
57.5°	1111	1373	1637	2181	2437
60°	831	1019	1420	1787	1827
62.5°	509	669	1050	1163	1026
65°	238	374	605	593	556
67.5°	79	144	266	304	309
70°	18	31	91	140	144
72.5°	11	12	27	48	45
75°	8	8	10	13	11
77.5°	6	6	7	7	8
80°	4	4	5	5	6
82.5°	2	3	3	4	4
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)