

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: 220P121

Luminaire Tested: **2EP3GX-432S38I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 220P121
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-432S38I
Description: 2 X 4 Recessed Convertible Body Luminaire with a 3" deep
24 cell semi-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. = 87.9

Summary

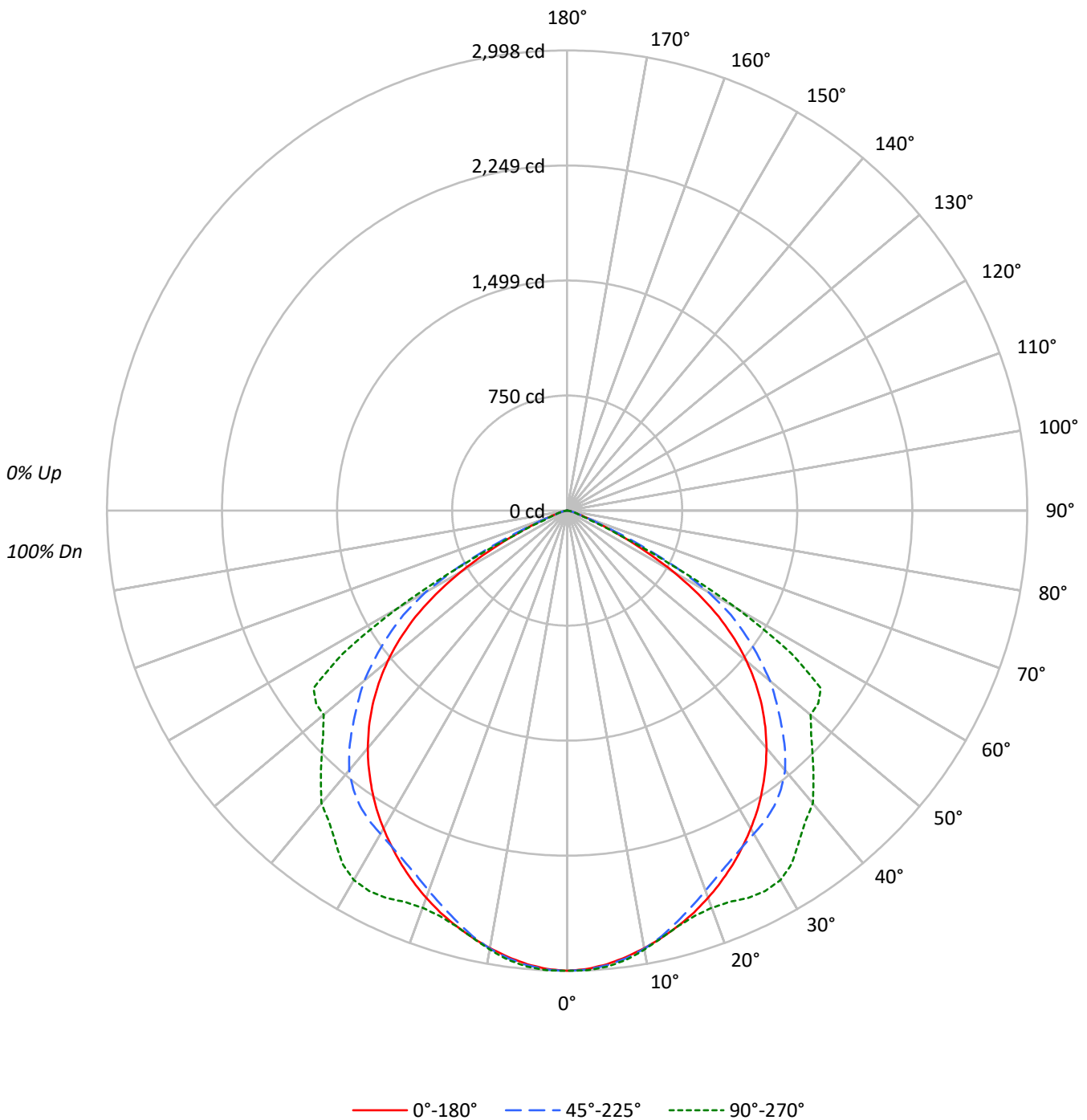
Lumens per Lamp: 2800 (4 lamps)
Luminaire Lumens: 7131.3 lumens
Efficiency: 63.7%
Efficacy: 64.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.36 / 1.37
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 111.3
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	76	76	76	76	74	74	74	74	71	71	71		68	68	68		65	65	65	64
1	71	68	66	64	69	67	65	63	64	62	61		62	60	59		59	58	57	56
2	65	61	57	54	64	59	56	53	57	54	52		55	53	51		53	51	50	49
3	60	54	49	46	58	53	49	45	51	48	45		49	46	44		48	45	43	42
4	55	48	43	39	54	47	43	39	46	42	39		44	41	38		43	40	38	36
5	51	43	38	34	50	43	38	34	41	37	34		40	36	33		39	36	33	32
6	47	39	34	30	46	38	33	30	37	33	30		36	32	29		35	32	29	28
7	44	35	30	27	43	35	30	26	34	30	26		33	29	26		32	29	26	25
8	41	32	27	24	40	32	27	24	31	27	23		30	26	23		30	26	23	22
9	38	30	25	21	37	29	25	21	29	24	21		28	24	21		27	24	21	20
10	36	27	23	19	35	27	22	19	26	22	19		26	22	19		25	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4977	4977	4977
5°	4944	4956	4969
10°	4878	4885	4895
15°	4812	4764	4814
20°	4743	4655	4865
25°	4667	4610	5101
30°	4587	4662	5329
35°	4495	4766	5336
40°	4379	4787	5396
45°	4209	4634	5310
50°	3941	4455	5348
55°	3490	4121	5837
60°	2659	3529	4279
65°	1493	1932	1418
70°	587	568	495
75°	327	308	308
80°	201	201	201
85°	114	133	114



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	281.4	3.9	2.5	0°	2998	2998	2998	2998	2998	
10°-20°	786.7	11.0	7.0	5°	2967	2965	2974	2978	2982	281
20°-30°	1196.2	16.8	10.7	15°	2800	2790	2772	2782	2801	790
30°-40°	1478.8	20.7	13.2	25°	2548	2505	2517	2670	2785	1174
40°-50°	1527.3	21.4	13.6	35°	2218	2159	2352	2533	2633	1386
50°-60°	1311.5	18.4	11.7	45°	1793	1800	1974	2122	2262	1378
60°-70°	480.9	6.7	4.3	55°	1206	1294	1424	1726	2017	1061
70°-80°	59.7	0.8	0.5	65°	380	433	492	418	361	401
80°-90°	8.8	0.1	0.1	75°	51	52	48	49	48	61
90°-100°	0.0	0.0	0.0	85°	6	6	7	7	6	8
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°	2264.3	31.8	20.2	165°	0	0	0	0	0	0
0°-40°	3743.1	52.5	33.4	175°	0	0	0	0	0	0
0°-60°	6581.9	92.3	58.8	180°	0	0	0	0	0	0
0°-90°	7131.3	100.0	63.7							
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°	7131.3	100.0	63.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2998	2998	2998	2998	2998
2.5°	2989	2986	2993	2995	2998
5°	2967	2965	2974	2978	2982
7.5°	2934	2933	2942	2948	2952
10°	2894	2891	2898	2900	2904
12.5°	2850	2844	2841	2840	2850
15°	2800	2790	2772	2782	2801
17.5°	2746	2730	2703	2728	2768
20°	2685	2663	2635	2694	2754
22.5°	2619	2587	2570	2672	2760
25°	2548	2505	2517	2670	2785
27.5°	2472	2422	2470	2671	2794
30°	2393	2335	2432	2651	2780
32.5°	2309	2248	2398	2612	2726
35°	2218	2159	2352	2533	2633
37.5°	2122	2071	2288	2429	2550
40°	2021	1982	2209	2335	2490
42.5°	1911	1893	2100	2253	2375
45°	1793	1800	1974	2122	2262
47.5°	1665	1699	1849	1996	2155
50°	1526	1585	1725	1882	2071
52.5°	1375	1452	1575	1791	2063
55°	1206	1294	1424	1726	2017
57.5°	1015	1105	1265	1555	1732
60°	801	888	1063	1213	1289
62.5°	577	650	795	794	767
65°	380	433	492	418	361
67.5°	217	261	250	184	161
70°	121	142	117	105	102
72.5°	76	81	71	71	69
75°	51	52	48	49	48
77.5°	33	34	33	34	33
80°	21	22	21	22	21
82.5°	13	13	13	13	13
85°	6	6	7	7	6
87.5°	2	2	2	2	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)