

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: 108P149

Luminaire Tested: **2GC-432PB2S-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 108P149
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-432PB2S-PAF
Description: 2 X 4 Recessed Convertible Body Luminaire with a plastic parabolic louver with cell dimensions of 1.5" x 1.5" x 1.0".
Light Source: Four - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B432I120RH Electronic - L.O.B.F. = 87.9

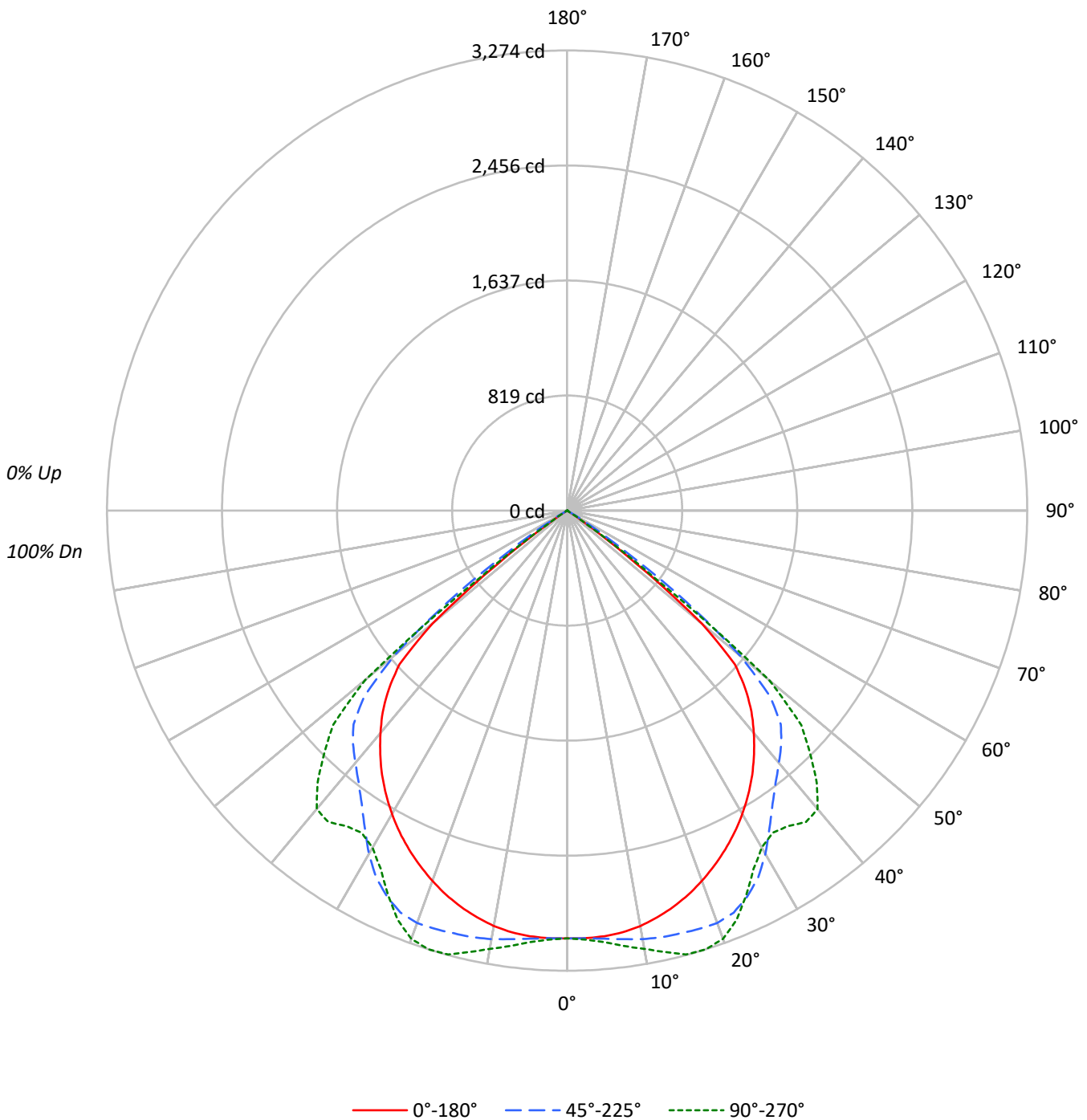
Summary

Lumens per Lamp: 2800 (4 lamps)
Luminaire Lumens: 6207.1 lumens
Efficiency: 55.4%
Efficacy: 55.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.38 / 1.42
Luminous Opening: Rectangular (W 1.72' x L: 3.71' x H: 0')
CIE Type: Direct

Input Watts (W): 111.5
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	50	30	10	0	
RCR																						
0	66	66	66	66	64	64	64	64	62	62	62	59	59	59	57	57	57	55				
1	62	60	59	57	61	59	58	56	57	56	55	55	54	53	53	52	51	50				
2	58	55	52	50	57	54	51	49	52	50	48	50	49	47	49	47	46	45				
3	54	50	46	44	53	49	46	43	47	45	43	46	44	42	45	43	41	40				
4	50	45	41	39	49	45	41	38	43	40	38	42	39	37	41	39	37	36				
5	47	41	37	34	46	41	37	34	40	36	34	39	36	33	38	35	33	32				
6	44	38	34	31	43	37	33	30	36	33	30	35	32	30	35	32	30	29				
7	41	34	30	27	40	34	30	27	33	30	27	33	29	27	32	29	27	26				
8	38	32	28	25	37	31	27	25	31	27	25	30	27	24	29	27	24	23				
9	36	29	25	23	35	29	25	22	28	25	22	28	25	22	27	24	22	21				
10	34	27	23	21	33	27	23	20	26	23	20	26	23	20	25	22	20	19				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5141	5141	5141
5°	5153	5182	5226
10°	5146	5309	5429
15°	5103	5444	5717
20°	5039	5611	5826
25°	4958	5648	5618
30°	4861	5499	5400
35°	4733	5251	5649
40°	4557	5165	6111
45°	4285	5135	5837
50°	3289	4222	4929
55°	436	1457	498
60°	24	74	20
65°	20	16	16
70°	15	15	10
75°	13	13	7
80°	10	10	10
85°	19	19	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	293.0	4.7	2.6	0°	3044	3044	3044	3044	3044	
10°-20°	877.4	14.1	7.8	5°	3040	3038	3057	3077	3083	289
20°-30°	1347.7	21.7	12.0	15°	2919	2979	3114	3236	3270	823
30°-40°	1609.7	25.9	14.4	25°	2661	2814	3031	3051	3015	1225
40°-50°	1618.2	26.1	14.4	35°	2296	2540	2547	2639	2740	1433
50°-60°	453.6	7.3	4.1	45°	1794	1997	2150	2378	2444	1350
60°-70°	4.9	0.1	0.0	55°	148	326	495	319	169	309
70°-80°	2.0	0.0	0.0	65°	5	4	4	4	4	5
80°-90°	0.6	0.0	0.0	75°	2	2	2	2	1	2
90°-100°	0.0	0.0	0.0	85°	1	1	1	1	0	1
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°	2518.1	40.6	22.5	165°	0	0	0	0	0	0
0°-40°	4127.8	66.5	36.9	175°	0	0	0	0	0	0
0°-60°	6199.7	99.9	55.4	180°	0	0	0	0	0	0
0°-90°	6207.1	100.0	55.4							
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°	6207.1	100.0	55.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3044	3044	3044	3044	3044
2.5°	3045	3038	3045	3053	3055
5°	3040	3038	3057	3077	3083
7.5°	3026	3034	3076	3114	3125
10°	3001	3023	3096	3151	3166
12.5°	2964	3004	3109	3188	3217
15°	2919	2979	3114	3236	3270
17.5°	2866	2947	3121	3260	3274
20°	2804	2909	3122	3232	3242
22.5°	2735	2865	3096	3170	3151
25°	2661	2814	3031	3051	3015
27.5°	2581	2761	2943	2907	2873
30°	2493	2700	2820	2772	2769
32.5°	2398	2629	2679	2681	2719
35°	2296	2540	2547	2639	2740
37.5°	2185	2428	2437	2637	2792
40°	2067	2296	2343	2638	2772
42.5°	1942	2157	2255	2561	2629
45°	1794	1997	2150	2378	2444
47.5°	1617	1761	1957	2108	2260
50°	1252	1368	1607	1654	1876
52.5°	624	835	1070	1046	774
55°	148	326	495	319	169
57.5°	23	59	138	52	16
60°	7	9	22	7	6
62.5°	5	5	5	5	5
65°	5	4	4	4	4
67.5°	4	4	3	4	3
70°	3	3	3	3	2
72.5°	3	3	2	2	2
75°	2	2	2	2	1
77.5°	2	2	1	1	1
80°	1	1	1	1	1
82.5°	1	1	1	1	0
85°	1	1	1	1	0
87.5°	0	0	0	0	0
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)