

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: P30244

Luminaire Tested: **ICF-132-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30244
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: ICF-132-UNV-EB81
Description: METALUX ICF INDUSTRIAL 4FT FLUORESCENT LUMINAIRE WITH A
WHITE REFLECTOR
Light Source: ONE (1) 32W T8 LAMP - 3100 LUMENS
Ballast/Driver: -
B132IUNVHE-B

Summary

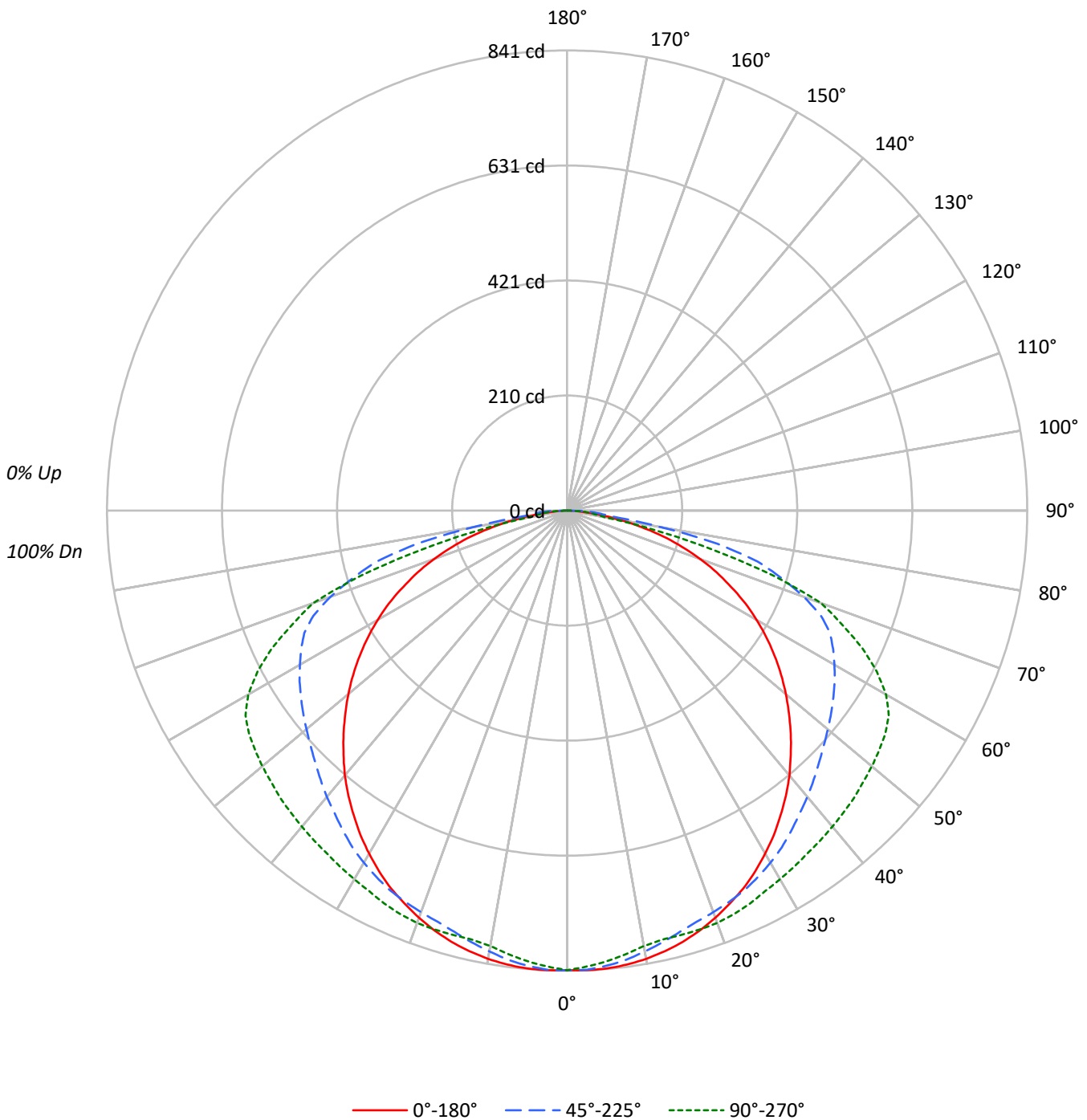
Lumens per Lamp: 3100 (1 lamp)
Luminaire Lumens: 2997.9 lumens
Efficiency: 96.7%
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.4 / 1.5
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 30.6
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

TEST NUMBER: P30244

CATALOG NUMBER: ICF-132-UNV-EB81

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	115	115	115	115	112	112	112	112	107	107	107	103	103	103	99	99	99	97
1	104	99	94	90	101	97	92	89	92	89	86	89	86	83	85	83	81	78
2	93	85	77	71	91	83	76	70	79	74	69	76	71	67	73	69	65	63
3	84	73	65	58	82	72	64	57	69	62	56	66	60	55	63	58	54	52
4	77	64	55	48	74	63	54	48	60	53	47	58	51	46	56	50	45	43
5	70	57	47	41	68	56	47	40	54	46	40	52	45	39	50	44	39	37
6	65	51	42	35	63	50	41	35	48	40	34	46	39	34	45	39	34	32
7	60	46	37	30	58	45	36	30	43	36	30	42	35	30	41	34	30	28
8	55	42	33	27	54	41	33	27	40	32	27	38	31	26	37	31	26	24
9	52	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22
10	48	35	27	22	47	34	27	22	33	26	22	33	26	21	32	26	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4521	4521	4521
5°	4538	4511	4468
10°	4547	4470	4416
15°	4547	4441	4474
20°	4536	4473	4593
25°	4525	4549	4703
30°	4499	4617	4835
35°	4468	4691	5026
40°	4440	4799	5297
45°	4399	4955	5648
50°	4371	5208	6087
55°	4344	5574	6662
60°	4306	6071	7244
65°	4215	6749	7577
70°	4076	7238	7773
75°	3764	7507	5698
80°	3037	5424	2232
85°	1729	3458	2285



TEST NUMBER: P30244

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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	79.2	2.6	2.6	0°	840	840	840	840	840	
10°-20°	227.5	7.6	7.3	5°	840	838	835	834	827	80
20°-30°	354.6	11.8	11.4	15°	816	805	797	804	803	230
30°-40°	448.1	14.9	14.5	25°	762	742	766	790	792	351
40°-50°	505.1	16.8	16.3	35°	680	668	714	754	765	426
50°-60°	524.4	17.5	16.9	45°	578	583	651	719	742	446
60°-70°	482.8	16.1	15.6	55°	463	482	594	681	710	414
70°-80°	307.9	10.3	9.9	65°	331	386	530	584	595	328
80°-90°	68.5	2.3	2.2	75°	181	301	361	307	274	189
90°-100°	0.0	0.0	0.0	85°	28	97	56	40	37	40
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	661.3	22.1	21.3							
0°-40°	1109.4	37.0	35.8							
0°-60°	2138.9	71.3	69.0							
0°-90°	2997.9	100.0	96.7							
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°	2997.9	100.0	96.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	840	840	840	840	840
2.5°	841	840	840	840	834
5°	840	838	835	834	827
7.5°	837	832	828	825	818
10°	832	825	818	815	808
12.5°	825	816	808	807	803
15°	816	805	797	804	803
17.5°	805	791	788	803	803
20°	792	777	781	801	802
22.5°	777	760	774	795	798
25°	762	742	766	790	792
27.5°	744	724	755	781	784
30°	724	706	743	771	778
32.5°	703	687	730	763	772
35°	680	668	714	754	765
37.5°	657	648	698	745	760
40°	632	628	683	736	754
42.5°	605	606	667	728	748
45°	578	583	651	719	742
47.5°	550	559	636	710	734
50°	522	535	622	701	727
52.5°	493	509	608	692	719
55°	463	482	594	681	710
57.5°	432	458	580	669	697
60°	400	433	564	652	673
62.5°	367	409	548	623	638
65°	331	386	530	584	595
67.5°	296	365	502	538	543
70°	259	344	460	484	494
72.5°	220	323	411	423	395
75°	181	301	361	307	274
77.5°	139	271	281	192	161
80°	98	222	175	88	72
82.5°	59	176	81	53	50
85°	28	97	56	40	37
87.5°	10	57	40	21	17
90°	0	0	0	0	0

(END OF REPORT)