

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: 220p186

Luminaire Tested: **EFIX-3P**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 220p186
Test Lab: METALUX RESEARCH LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EFIX-3P
Description: 2 X 4 RECESSED CONVERTIBLE BODY LUMINAIRE WITH A 18 CELL
PARABOLIC LOUVER
Light Source: F28T8-SP35-UMX-ECO -2750 LUMENS EA.- 28 WATTS EA.
Ballast/Driver: GE-332-MAX-L/ULTRA

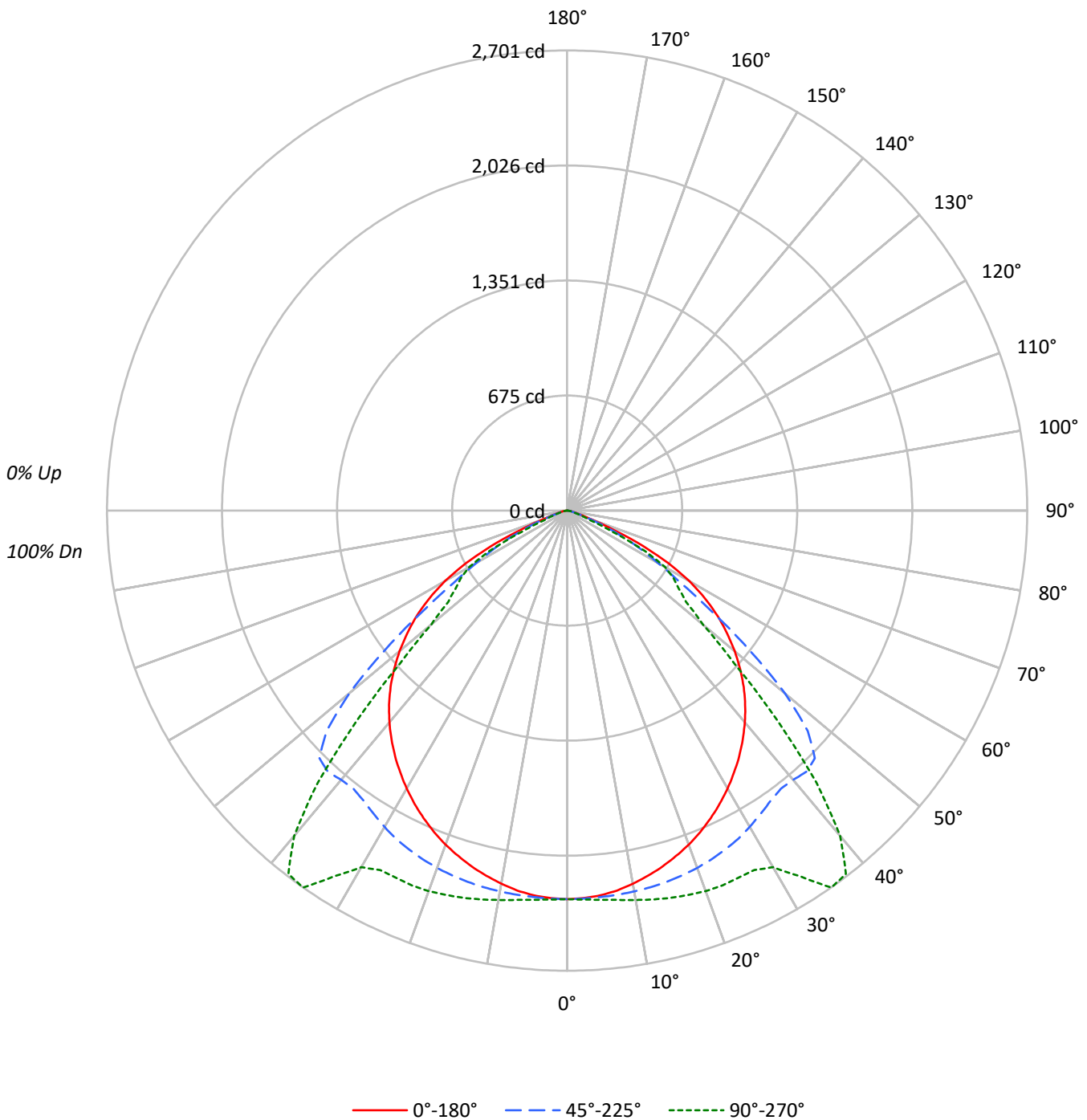
Summary

Lumens per Lamp: 2750 (3 lamps)
Luminaire Lumens: 5946.0 lumens
Efficiency: 72.1%
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.66 / 1.55
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 67
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	86	86	86	86	84	84	84	84	80	80	80	77	77	77	74	74	74	72
1	80	77	75	73	78	76	73	71	73	71	69	70	68	67	67	66	65	64
2	74	69	65	61	72	67	64	60	65	62	59	63	60	58	61	58	57	55
3	68	61	56	52	66	60	56	52	58	54	51	56	53	50	54	52	49	48
4	63	55	49	45	61	54	49	45	52	48	44	51	47	43	49	46	43	41
5	58	49	43	39	56	49	43	39	47	42	38	46	41	38	44	41	38	36
6	53	45	39	34	52	44	38	34	43	38	34	41	37	34	40	36	33	32
7	50	40	35	30	48	40	34	30	39	34	30	38	33	30	37	33	30	28
8	46	37	31	27	45	36	31	27	35	30	27	35	30	27	34	30	27	25
9	43	34	28	24	42	33	28	24	33	28	24	32	27	24	31	27	24	23
10	40	31	26	22	39	31	26	22	30	25	22	29	25	22	29	25	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3786	3786	3786
5°	3778	3794	3821
10°	3749	3826	3912
15°	3717	3877	4044
20°	3687	3943	4199
25°	3650	4020	4356
30°	3611	4110	4633
35°	3569	4217	5473
40°	3517	4470	5400
45°	3442	4827	4106
50°	3316	4310	2694
55°	3120	3027	2315
60°	2749	2042	2198
65°	1909	1379	1135
70°	733	616	432
75°	353	289	263
80°	239	201	182
85°	152	133	114



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	217.2	3.7	2.6	0°	2281	2281	2281	2281	2281	
10°-20°	638.2	10.7	7.7	5°	2267	2268	2277	2286	2293	215
20°-30°	1011.4	17.0	12.3	15°	2163	2189	2256	2320	2353	610
30°-40°	1345.4	22.6	16.3	25°	1993	2063	2195	2314	2378	918
40°-50°	1363.6	22.9	16.5	35°	1761	1878	2081	2447	2701	1101
50°-60°	909.2	15.3	11.0	45°	1466	1634	2056	1907	1749	1128
60°-70°	393.5	6.6	4.8	55°	1078	1256	1046	776	800	955
70°-80°	58.0	1.0	0.7	65°	486	482	351	333	289	477
80°-90°	9.5	0.2	0.1	75°	55	51	45	43	41	70
90°-100°	0.0	0.0	0.0	85°	8	8	7	7	6	11
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°	1866.9	31.4	22.6							
0°-40°	3212.2	54.0	38.9							
0°-60°	5485.0	92.2	66.5							
0°-90°	5946.0	100.0	72.1							
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°	5946.0	100.0	72.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2281	2281	2281	2281	2281
2.5°	2277	2276	2279	2283	2285
5°	2267	2268	2277	2286	2293
7.5°	2249	2254	2274	2293	2305
10°	2224	2235	2270	2304	2321
12.5°	2195	2213	2264	2313	2338
15°	2163	2189	2256	2320	2353
17.5°	2126	2161	2245	2324	2365
20°	2087	2132	2232	2325	2377
22.5°	2042	2100	2215	2324	2381
25°	1993	2063	2195	2314	2378
27.5°	1940	2022	2173	2300	2378
30°	1884	1978	2144	2295	2417
32.5°	1823	1929	2111	2337	2545
35°	1761	1878	2081	2447	2701
37.5°	1693	1822	2059	2541	2688
40°	1623	1765	2063	2472	2492
42.5°	1547	1703	2079	2240	2166
45°	1466	1634	2056	1907	1749
47.5°	1378	1558	1916	1509	1337
50°	1284	1473	1669	1156	1043
52.5°	1183	1374	1359	916	880
55°	1078	1256	1046	776	800
57.5°	958	1111	791	687	741
60°	828	931	615	600	662
62.5°	670	717	478	489	516
65°	486	482	351	333	289
67.5°	294	275	226	171	144
70°	151	142	127	94	89
72.5°	86	79	69	62	60
75°	55	51	45	43	41
77.5°	37	35	31	29	28
80°	25	23	21	20	19
82.5°	15	15	13	12	12
85°	8	8	7	7	6
87.5°	4	4	3	3	3
90°	0	0	0	0	0

(END OF REPORT)