

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: 233P135

Luminaire Tested: **NY-2GC8-432A-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 233P135
Test Lab: METALUX RESEARCH LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: NY-2GC8-432A-UNV-EB81
Description: METALUX 2' X 4' SPECIFICATION GRADE NYC RATED RECESSED FLUORESCENT
TROFFER
WITH HIGH REFLECTANCE WHITE INTERIOR FINISH AND ACRYLIC PRISMATIC LENS
Light Source: FOUR - FO32/35K - 2800 LUMENS EA. - 32 WATTS EA.
Ballast/Driver: UNIVERSAL B432I120RH-A

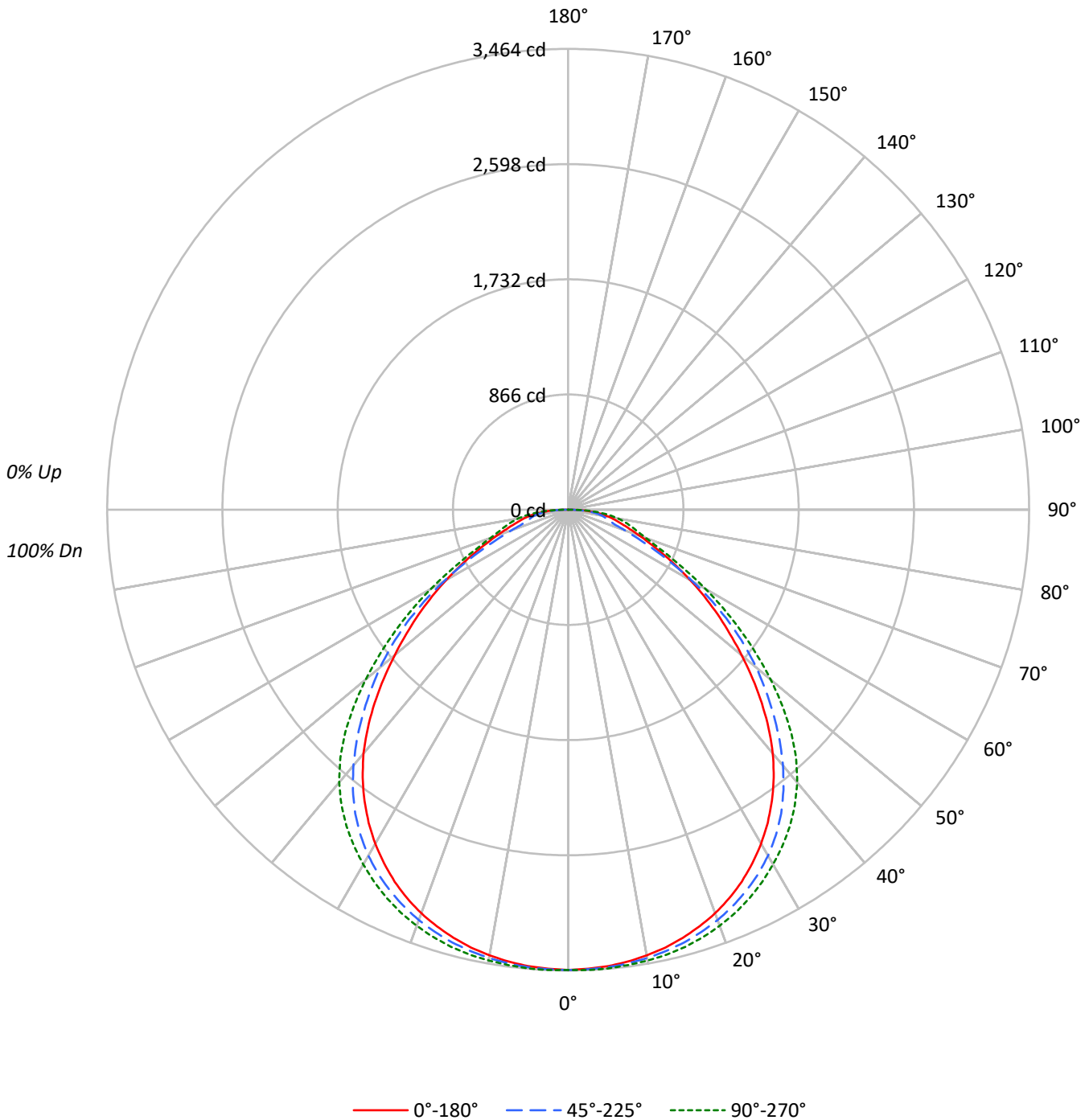
Summary

Lumens per Lamp: 2800 (4 lamps)
Luminaire Lumens: 8856.4 lumens
Efficiency: 79.1%
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.31 / 1.35
Luminous Opening: Rectangular (W 1.79' x L: 3.81' 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										
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	50	30	10	0														
RCR																																						
0	94	94	94	94	92	92	92	92	88	88	88	84	84	84	81	81	81	79																				
1	87	83	80	77	84	81	78	76	78	75	73	75	73	71	72	70	69	67																				
2	79	73	68	64	77	72	67	63	69	65	62	66	63	60	64	61	59	57																				
3	73	65	59	54	71	64	58	53	61	56	52	59	55	51	57	54	51	49																				
4	67	58	51	46	65	57	51	46	55	49	45	53	48	45	51	47	44	42																				
5	62	52	45	40	60	51	45	40	49	44	39	48	43	39	46	42	39	37																				
6	57	47	40	35	56	46	40	35	45	39	35	43	38	34	42	38	34	33																				
7	53	43	36	31	52	42	36	31	41	35	31	40	35	31	39	34	31	29																				
8	49	39	32	28	48	38	32	28	37	32	28	36	31	28	36	31	27	26																				
9	46	36	30	25	45	35	29	25	35	29	25	34	29	25	33	28	25	23																				
10	43	33	27	23	42	33	27	23	32	27	23	31	26	23	31	26	23	21																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5452	5452	5452
5°	5448	5460	5475
10°	5444	5476	5506
15°	5434	5493	5548
20°	5413	5504	5583
25°	5364	5500	5602
30°	5275	5464	5603
35°	5136	5365	5586
40°	4921	5163	5507
45°	4584	4867	5279
50°	4170	4518	4869
55°	3764	4061	4346
60°	3338	3413	3757
65°	2920	2681	3166
70°	2617	2069	2861
75°	2551	1918	2989
80°	2868	2350	3457
85°	3309	2875	4086



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	328.4	3.7	2.9	0°	3460	3460	3460	3460	3460	
10°-20°	950.2	10.7	8.5	5°	3444	3443	3452	3456	3461	327
20°-30°	1453.7	16.4	13.0	15°	3331	3337	3367	3390	3401	940
30°-40°	1737.3	19.6	15.5	25°	3085	3104	3163	3206	3222	1420
40°-50°	1687.1	19.0	15.1	35°	2670	2699	2789	2869	2904	1665
50°-60°	1307.1	14.8	11.7	45°	2057	2083	2184	2297	2369	1583
60°-70°	778.3	8.8	6.9	55°	1370	1366	1478	1535	1582	1226
70°-80°	427.3	4.8	3.8	65°	783	725	719	823	849	785
80°-90°	187.0	2.1	1.7	75°	419	379	315	438	491	452
90°-100°	0.0	0.0	0.0	85°	183	160	159	206	226	191
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°	2732.3	30.9	24.4							
0°-40°	4469.6	50.5	39.9							
0°-60°	7463.8	84.3	66.6							
0°-90°	8856.4	100.0	79.1							
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°	8856.4	100.0	79.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3460	3460	3460	3460	3460
2.5°	3453	3452	3458	3461	3464
5°	3444	3443	3452	3456	3461
7.5°	3426	3427	3440	3447	3452
10°	3402	3404	3422	3434	3441
12.5°	3371	3375	3398	3415	3425
15°	3331	3337	3367	3390	3401
17.5°	3284	3292	3328	3357	3369
20°	3228	3239	3282	3315	3329
22.5°	3162	3176	3227	3265	3280
25°	3085	3104	3163	3206	3222
27.5°	2997	3020	3089	3137	3155
30°	2899	2925	3003	3059	3079
32.5°	2790	2818	2903	2970	2996
35°	2670	2699	2789	2869	2904
37.5°	2537	2564	2657	2753	2798
40°	2392	2415	2510	2618	2677
42.5°	2230	2254	2351	2466	2535
45°	2057	2083	2184	2297	2369
47.5°	1880	1905	2014	2115	2184
50°	1701	1727	1843	1926	1986
52.5°	1531	1547	1665	1732	1782
55°	1370	1366	1478	1535	1582
57.5°	1211	1190	1282	1340	1383
60°	1059	1020	1083	1153	1192
62.5°	914	863	891	977	1007
65°	783	725	719	823	849
67.5°	666	608	568	694	720
70°	568	514	449	591	621
72.5°	486	440	363	508	547
75°	419	379	315	438	491
77.5°	365	324	287	376	439
80°	316	268	259	321	381
82.5°	254	214	217	268	311
85°	183	160	159	206	226
87.5°	106	98	93	127	134
90°	0	0	0	0	0

(END OF REPORT)