

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: 236P187

Luminaire Tested: **I8-332-G-TBW-UNV-EB81**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 236P187  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: I8-332-G-TBW-UNV-EB81  
Description: I8 SERIES LUMINAIRE WITH HIGH REFLECTANCE WHITE WIDE  
DISTRIBUTION REFLECTOR AND THIN WHITE LOUVER  
Light Source: THREE 32-WATT T8 LAMPS - 3000 LUMENS EA - PHILIPS - F32T8/TL835  
Ballast/Driver: GE PROLINE GE-432-MV-N

**Summary**

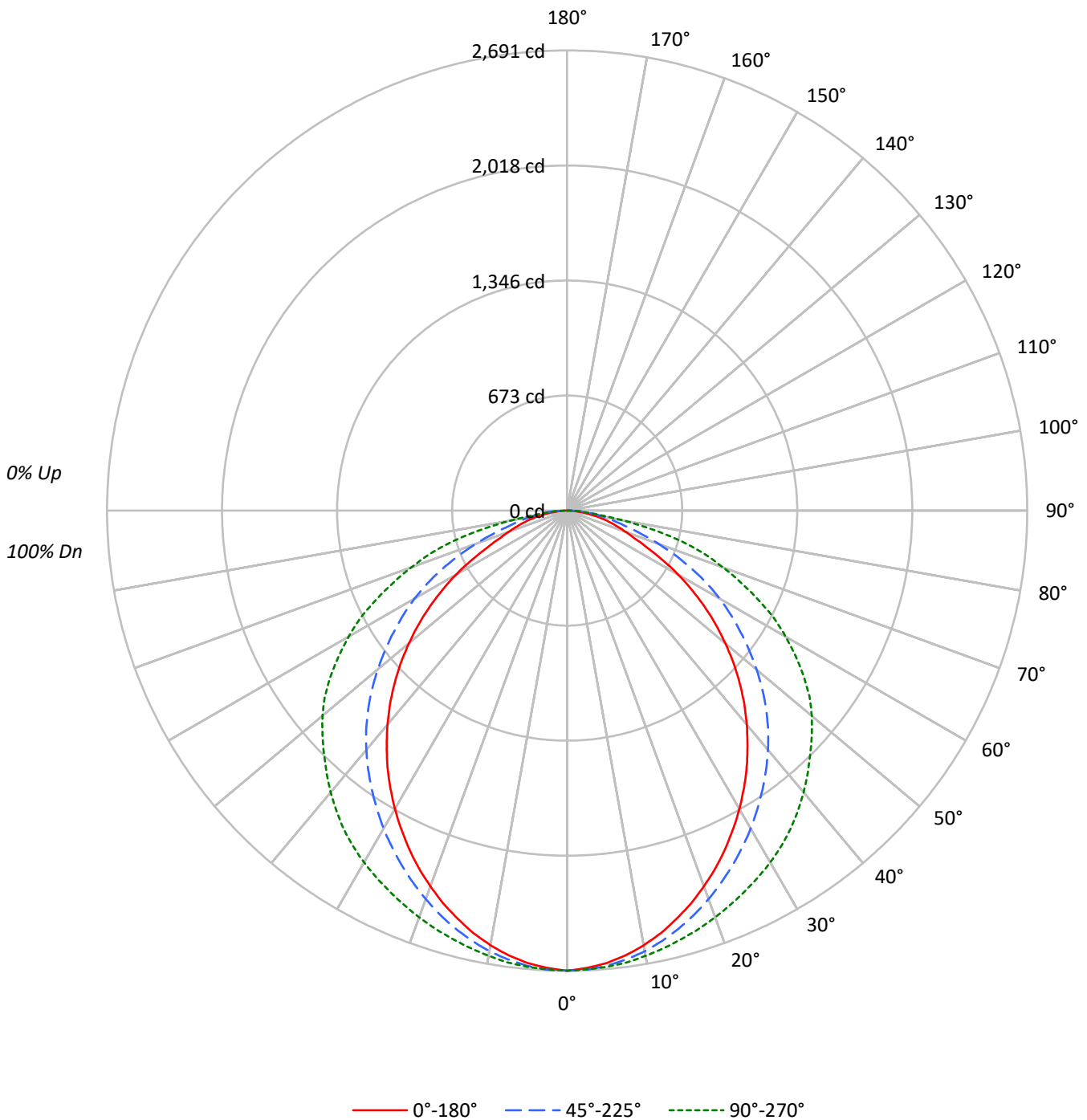
Lumens per Lamp: 3000 (3 lamps)  
Luminaire Lumens: 7116.6 lumens  
Efficiency: 79.1%  
Efficacy: 80.9 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.32 / 1.33  
Luminous Opening: Rectangular (W 0.84' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 88  
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	94	94	94	94	92	92	92	92	88	88	88	84	84	84	81	81	81	79
1	86	82	79	76	84	81	78	75	77	75	73	74	72	70	71	70	68	67
2	79	72	67	62	76	71	66	62	68	64	60	65	62	59	63	60	57	56
3	72	63	57	52	70	62	56	52	60	55	51	58	53	50	56	52	49	47
4	66	56	49	44	64	55	49	44	53	48	43	51	47	43	50	46	42	40
5	60	50	43	38	59	49	43	38	48	42	37	46	41	37	45	40	37	35
6	56	45	38	33	54	45	38	33	43	37	33	42	37	33	41	36	32	31
7	52	41	34	29	50	41	34	29	39	33	29	38	33	29	37	32	29	27
8	48	38	31	26	47	37	31	26	36	30	26	35	30	26	34	29	26	24
9	45	35	28	24	44	34	28	24	33	27	24	32	27	23	31	27	23	22
10	42	32	26	22	41	31	25	21	31	25	21	30	25	21	29	25	21	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8582	8582	8582
5°	8503	8554	8574
10°	8359	8475	8563
15°	8162	8350	8562
20°	7935	8207	8590
25°	7689	8055	8646
30°	7417	7907	8750
35°	7129	7756	8861
40°	6803	7606	8955
45°	6436	7424	9070
50°	5989	7175	9268
55°	5466	6884	9386
60°	4790	6583	9415
65°	3924	6060	9305
70°	3404	5297	9036
75°	3118	4375	8552
80°	2792	4132	6171
85°	2305	4098	3367



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	253.2	3.6	2.8	0°	2691	2691	2691	2691	2691	
10°-20°	713.9	10.0	7.9	5°	2656	2662	2672	2682	2678	251
20°-30°	1062.5	14.9	11.8	15°	2472	2489	2529	2575	2593	696
30°-40°	1263.4	17.8	14.0	25°	2185	2212	2289	2400	2457	1005
40°-50°	1291.3	18.1	14.3	35°	1831	1863	1992	2173	2276	1144
50°-60°	1142.5	16.1	12.7	45°	1427	1468	1646	1864	2011	1099
60°-70°	823.6	11.6	9.2	55°	983	1038	1238	1512	1688	876
70°-80°	444.6	6.2	4.9	65°	520	589	803	1057	1233	529
80°-90°	121.7	1.7	1.4	75°	253	279	355	579	694	269
90°-100°	0.0	0.0	0.0	85°	63	80	112	135	92	73
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°	2029.5	28.5	22.6							
0°-40°	3293.0	46.3	36.6							
0°-60°	5726.8	80.5	63.6							
0°-90°	7116.6	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°	7116.6	100.0	79.1							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2691	2691	2691	2691	2691
2.5°	2677	2680	2687	2691	2685
5°	2656	2662	2672	2682	2678
7.5°	2623	2631	2648	2664	2665
10°	2581	2594	2617	2640	2644
12.5°	2531	2545	2576	2610	2620
15°	2472	2489	2529	2575	2593
17.5°	2409	2429	2477	2538	2564
20°	2338	2362	2418	2495	2531
22.5°	2265	2290	2355	2449	2495
25°	2185	2212	2289	2400	2457
27.5°	2101	2130	2219	2348	2418
30°	2014	2044	2147	2294	2376
32.5°	1924	1955	2070	2237	2329
35°	1831	1863	1992	2173	2276
37.5°	1733	1768	1911	2104	2216
40°	1634	1670	1827	2030	2151
42.5°	1533	1571	1740	1949	2082
45°	1427	1468	1646	1864	2011
47.5°	1319	1363	1548	1778	1941
50°	1207	1255	1446	1694	1868
52.5°	1096	1146	1342	1607	1786
55°	983	1038	1238	1512	1688
57.5°	867	926	1135	1403	1584
60°	751	814	1032	1290	1476
62.5°	635	701	920	1175	1364
65°	520	589	803	1057	1233
67.5°	429	482	685	928	1099
70°	365	398	568	802	969
72.5°	308	335	454	686	841
75°	253	279	355	579	694
77.5°	201	223	281	449	513
80°	152	172	225	323	336
82.5°	107	124	164	215	183
85°	63	80	112	135	92
87.5°	24	44	74	99	50
90°	0	0	0	0	0

(END OF REPORT)