

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: 236P186

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

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 236P186  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: I8-332-G-UNV-EB81  
Description: I8 SERIES LUMINAIRE WITH HIGH REFLECTANCE WHITE WIDE  
DISTRIBUTION REFLECTOR  
Light Source: THREE 32-WATT T8 LAMPS - 3000 LUMENS EA - PHILIPS - F32T8/TL835  
Ballast/Driver: GE PROLINE GE-432-MV-N

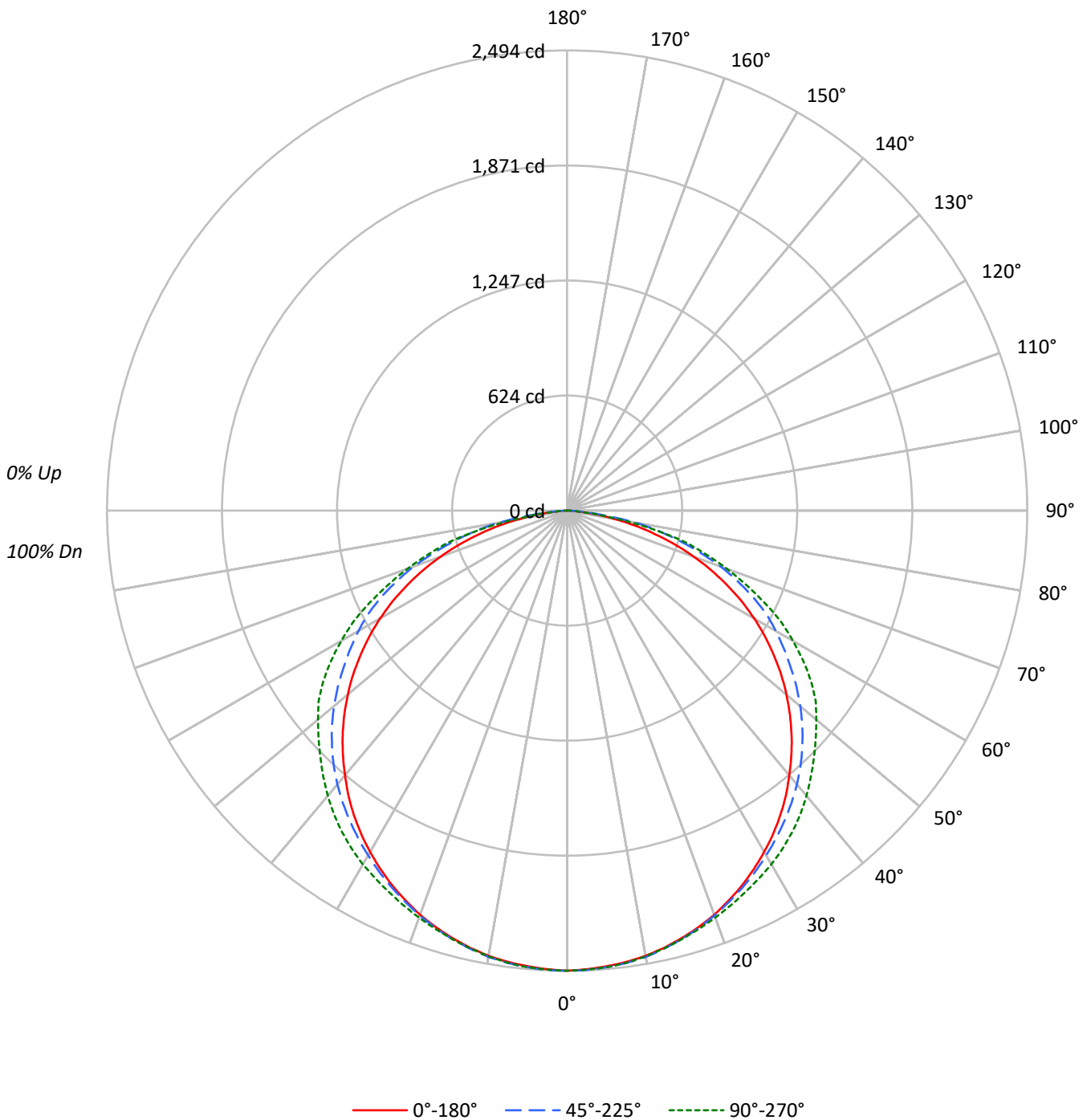
**Summary**

Lumens per Lamp: 3000 (3 lamps)  
Luminaire Lumens: 7769.3 lumens  
Efficiency: 86.3%  
Efficacy: 87.3 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.33 / 1.43  
Luminous Opening: Rectangular (W 0.84' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 89  
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	103	103	103	103	100	100	100	100	96	96	96	92	92	92	88	88	88	86
1	94	89	86	82	91	87	84	81	84	81	78	80	78	76	77	75	73	72
2	85	77	71	66	82	76	70	65	73	68	64	70	66	62	67	64	61	59
3	77	68	60	54	75	66	59	54	64	58	53	61	56	52	59	55	51	49
4	70	60	52	46	68	58	51	45	56	50	45	54	49	44	52	47	43	42
5	64	53	45	39	63	52	44	39	50	43	38	48	43	38	47	42	38	36
6	59	48	40	34	58	47	39	34	45	38	33	44	38	33	42	37	33	31
7	55	43	35	30	53	42	35	30	41	34	29	40	34	29	38	33	29	27
8	51	39	32	26	50	39	31	26	37	31	26	36	30	26	35	30	26	24
9	48	36	29	24	46	35	28	24	34	28	24	33	28	23	32	27	23	22
10	45	33	26	21	44	33	26	21	32	26	21	31	25	21	30	25	21	20

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

	0°	45°	90°
0°	7954	7954	7954
5°	7936	7953	7953
10°	7934	7957	7944
15°	7921	7938	7941
20°	7911	7925	7969
25°	7890	7925	8034
30°	7866	7947	8153
35°	7845	7993	8281
40°	7798	8064	8402
45°	7762	8132	8529
50°	7701	8182	8747
55°	7607	8218	8974
60°	7469	8337	9019
65°	7222	8392	8905
70°	6817	8243	8579
75°	6075	7714	8194
80°	4794	6869	5804
85°	2232	3147	2232



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	236.2	3.0	2.6	0°	2494	2494	2494	2494	2494	
10°-20°	679.0	8.7	7.5	5°	2479	2480	2484	2488	2484	236
20°-30°	1041.9	13.4	11.6	15°	2399	2402	2404	2408	2405	677
30°-40°	1289.7	16.6	14.3	25°	2242	2243	2252	2275	2283	1034
40°-50°	1387.0	17.9	15.4	35°	2015	2011	2053	2108	2127	1260
50°-60°	1320.5	17.0	14.7	45°	1721	1713	1803	1867	1891	1327
60°-70°	1062.5	13.7	11.8	55°	1368	1366	1478	1583	1614	1222
70°-80°	626.4	8.1	7.0	65°	957	960	1112	1172	1180	945
80°-90°	126.3	1.6	1.4	75°	493	537	626	661	665	521
90°-100°	0.0	0.0	0.0	85°	61	113	86	68	61	98
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°	1957.0	25.2	21.7							
0°-40°	3246.7	41.8	36.1							
0°-60°	5954.1	76.6	66.2							
0°-90°	7769.3	100.0	86.3							
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°	7769.3	100.0	86.3							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2494	2494	2494	2494	2494
2.5°	2488	2488	2492	2495	2490
5°	2479	2480	2484	2488	2484
7.5°	2467	2469	2473	2476	2472
10°	2450	2452	2457	2459	2453
12.5°	2427	2428	2432	2435	2430
15°	2399	2402	2404	2408	2405
17.5°	2367	2370	2372	2378	2377
20°	2331	2332	2335	2346	2348
22.5°	2288	2289	2295	2312	2316
25°	2242	2243	2252	2275	2283
27.5°	2191	2191	2207	2237	2249
30°	2136	2135	2158	2199	2214
32.5°	2078	2075	2107	2156	2173
35°	2015	2011	2053	2108	2127
37.5°	1947	1942	1997	2055	2076
40°	1873	1869	1937	1998	2018
42.5°	1799	1793	1873	1935	1956
45°	1721	1713	1803	1867	1891
47.5°	1638	1631	1729	1795	1827
50°	1552	1545	1649	1726	1763
52.5°	1463	1457	1566	1657	1698
55°	1368	1366	1478	1583	1614
57.5°	1272	1273	1393	1493	1518
60°	1171	1173	1307	1391	1414
62.5°	1066	1068	1217	1285	1307
65°	957	960	1112	1172	1180
67.5°	845	850	1000	1043	1048
70°	731	743	884	912	920
72.5°	612	639	754	785	791
75°	493	537	626	661	665
77.5°	376	430	504	510	491
80°	261	320	374	339	316
82.5°	153	216	216	179	163
85°	61	113	86	68	61
87.5°	16	26	27	28	25
90°	0	0	0	0	0

(END OF REPORT)