

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: 236P197C

Luminaire Tested: **I8-432-UNV-EB81-UPL**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 236P197C
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: I8-432-UNV-EB81-UPL
Description: I8 SERIES LUMINAIRE WITH SPECULAR ALUMINUM MEDIUM
DISTRIBUTION REFLECTOR AND UPLIGHT
Light Source: FOUR 32-WATT T8 LAMPS - 3000 LUMENS EA - PHILIPS - F32T8/TL835
Ballast/Driver: GE PROLINE GE-432-MV-N

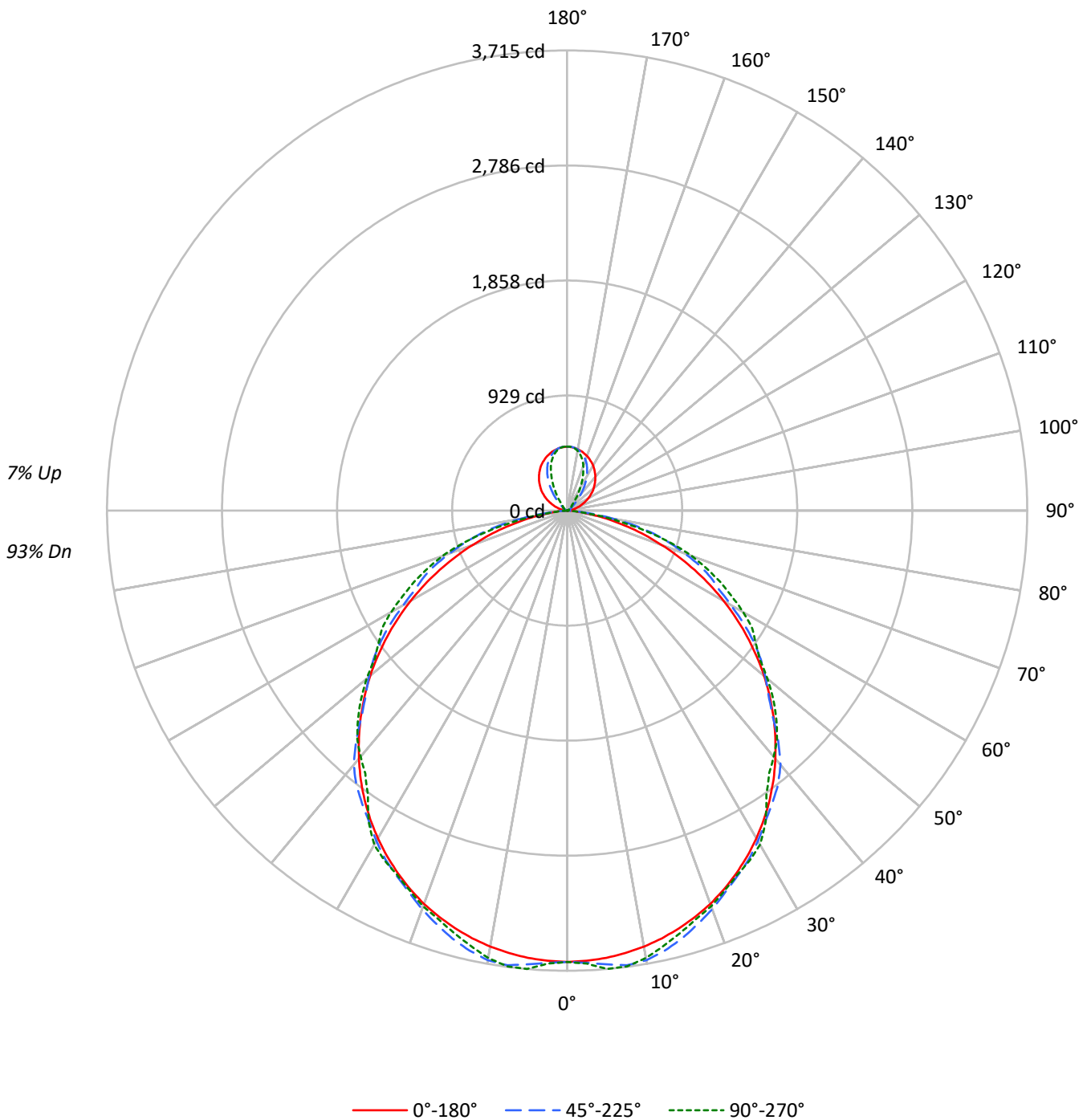
Summary

Lumens per Lamp: 3000 (4 lamps)
Luminaire Lumens: 10943.5 lumens
Efficiency: 91.2%
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.84' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 111
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	107	107	107	107	104	104	104	104	98	98	98		92	92	92		87	87	87	85
1	98	94	90	87	95	91	88	85	86	83	81		81	79	77		77	75	74	71
2	89	82	76	71	86	80	74	69	75	71	67		71	68	64		68	65	62	60
3	81	72	65	59	78	70	63	58	66	61	56		63	58	54		60	56	52	50
4	74	64	56	50	72	62	55	49	59	53	48		56	51	46		53	49	45	43
5	68	57	49	43	66	55	48	42	53	46	41		50	45	40		48	43	39	37
6	63	51	43	37	61	50	42	37	48	41	36		46	40	35		44	38	35	33
7	59	46	38	33	57	45	38	33	43	37	32		41	36	31		40	35	31	29
8	54	42	35	29	53	41	34	29	40	33	29		38	32	28		37	31	27	26
9	51	39	31	26	49	38	31	26	36	30	26		35	29	25		34	29	25	23
10	48	36	29	24	46	35	28	24	34	28	23		32	27	23		31	26	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11622	11622	11622
5°	11605	11772	11894
10°	11574	11937	11876
15°	11527	11811	11655
20°	11468	11624	11540
25°	11370	11451	11423
30°	11254	11346	11472
35°	11100	11236	10917
40°	10887	11158	10800
45°	10626	10581	10780
50°	10300	10370	10479
55°	9864	10198	10320
60°	9313	9734	10474
65°	8573	9667	10278
70°	7572	9390	9978
75°	6260	8922	8515
80°	4445	6924	5767
85°	2159	2891	1720



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	350.1	3.2	2.9	0°	3644	3644	3644	3644	3644	
10°-20°	1002.6	9.2	8.4	5°	3625	3639	3677	3711	3715	344
20°-30°	1505.7	13.8	12.5	15°	3491	3591	3577	3547	3530	985
30°-40°	1793.7	16.4	14.9	25°	3231	3310	3254	3249	3246	1489
40°-50°	1828.6	16.7	15.2	35°	2851	2881	2886	2874	2804	1782
50°-60°	1631.3	14.9	13.6	45°	2356	2376	2346	2389	2390	1816
60°-70°	1244.6	11.4	10.4	55°	1774	1815	1834	1819	1856	1584
70°-80°	691.3	6.3	5.8	65°	1136	1160	1281	1345	1362	1123
80°-90°	122.5	1.1	1.0	75°	508	595	724	711	691	542
90°-100°	8.9	0.1	0.1	85°	59	108	79	58	47	89
100°-110°	19.7	0.2	0.2	90°	1	6	6	4	3	4
110°-120°	40.2	0.4	0.3	95°	17	6	7	8	7	19
120°-130°	77.9	0.7	0.6	105°	73	16	10	9	9	78
130°-140°	116.0	1.1	1.0	115°	152	41	22	11	12	151
140°-150°	158.4	1.4	1.3	125°	238	133	41	35	35	213
150°-160°	172.0	1.6	1.4	135°	317	247	111	52	51	245
160°-170°	131.5	1.2	1.1	145°	388	351	244	161	135	243
170°-180°	48.5	0.4	0.4	155°	445	430	380	321	298	205
0°-30°	2858.4	26.1	23.8	165°	488	485	470	455	446	138
0°-40°	4652.1	42.5	38.8	175°	512	514	514	513	513	49
0°-60°	8112.0	74.1	67.6	180°	516	516	516	516	516	
0°-90°	10170.4	92.9	84.8							
90°-120°	68.8	0.6	0.6							
90°-150°	421.1	3.8	3.5							
90°-180°	773.0	7.1	6.4							
0°-180°	10943.5	100.0	91.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3644	3644	3644	3644	3644
2.5°	3638	3643	3654	3665	3661
5°	3625	3639	3677	3711	3715
7.5°	3602	3637	3702	3716	3711
10°	3574	3633	3686	3677	3667
12.5°	3537	3620	3639	3615	3600
15°	3491	3591	3577	3547	3530
17.5°	3439	3543	3502	3468	3458
20°	3379	3475	3425	3401	3400
22.5°	3309	3397	3335	3338	3321
25°	3231	3310	3254	3249	3246
27.5°	3147	3212	3176	3173	3188
30°	3056	3108	3081	3109	3115
32.5°	2957	2997	2977	3021	2982
35°	2851	2881	2886	2874	2804
37.5°	2737	2758	2795	2702	2677
40°	2615	2634	2680	2577	2594
42.5°	2488	2509	2522	2489	2508
45°	2356	2376	2346	2389	2390
47.5°	2218	2238	2203	2263	2258
50°	2076	2096	2090	2126	2112
52.5°	1926	1956	1970	1971	1955
55°	1774	1815	1834	1819	1856
57.5°	1618	1656	1684	1722	1773
60°	1460	1485	1526	1629	1642
62.5°	1299	1313	1383	1485	1498
65°	1136	1160	1281	1345	1362
67.5°	972	1014	1156	1210	1215
70°	812	865	1007	1059	1070
72.5°	657	719	868	903	891
75°	508	595	724	711	691
77.5°	367	482	560	515	494
80°	242	363	377	334	314
82.5°	139	240	210	171	156
85°	59	108	79	58	47
87.5°	18	23	12	6	3
90°	1	6	6	4	3
92.5°	8	6	8	8	5
95°	17	6	7	8	7
97.5°	28	6	7	7	6
100°	40	7	7	8	6
102.5°	56	10	8	8	8
105°	73	16	10	9	9
107.5°	93	20	10	10	9
110°	111	24	10	10	9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	131	28	15	10	10
115°	152	41	22	11	12
117.5°	174	61	28	15	13
120°	197	82	32	23	18
122.5°	217	106	39	32	26
125°	238	133	41	35	35
127.5°	260	162	46	42	39
130°	280	190	61	48	45
132.5°	297	217	82	47	49
135°	317	247	111	52	51
137.5°	336	275	141	69	55
140°	354	301	171	95	72
142.5°	371	327	207	127	102
145°	388	351	244	161	135
147.5°	404	372	279	198	170
150°	420	394	314	240	211
152.5°	433	412	349	281	254
155°	445	430	380	321	298
157.5°	459	447	410	363	341
160°	469	462	433	398	382
162.5°	478	474	453	431	419
165°	488	485	470	455	446
167.5°	496	495	487	476	470
170°	502	502	500	493	489
172.5°	508	509	508	506	504
175°	512	514	514	513	513
177.5°	514	516	517	517	516
180°	516	516	516	516	516

(END OF REPORT)