

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: ITL46448

Luminaire Tested: **SSL-232**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: ITL46448  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: SSL-232  
Description: FABRICATED METAL STRIP BALLAST HOUSING WITH STAGGERED BOTTOM MOUNTED LAMPS, WHITE PAINTED FORMED METAL BALLAST COVER, OPEN SIDES AND BOTTOM.  
Light Source: TWO 32-WATT F32T8/TL735 FLUORESCENTS.  
Ballast/Driver: MAGNETEK TRIAD B232I120RH

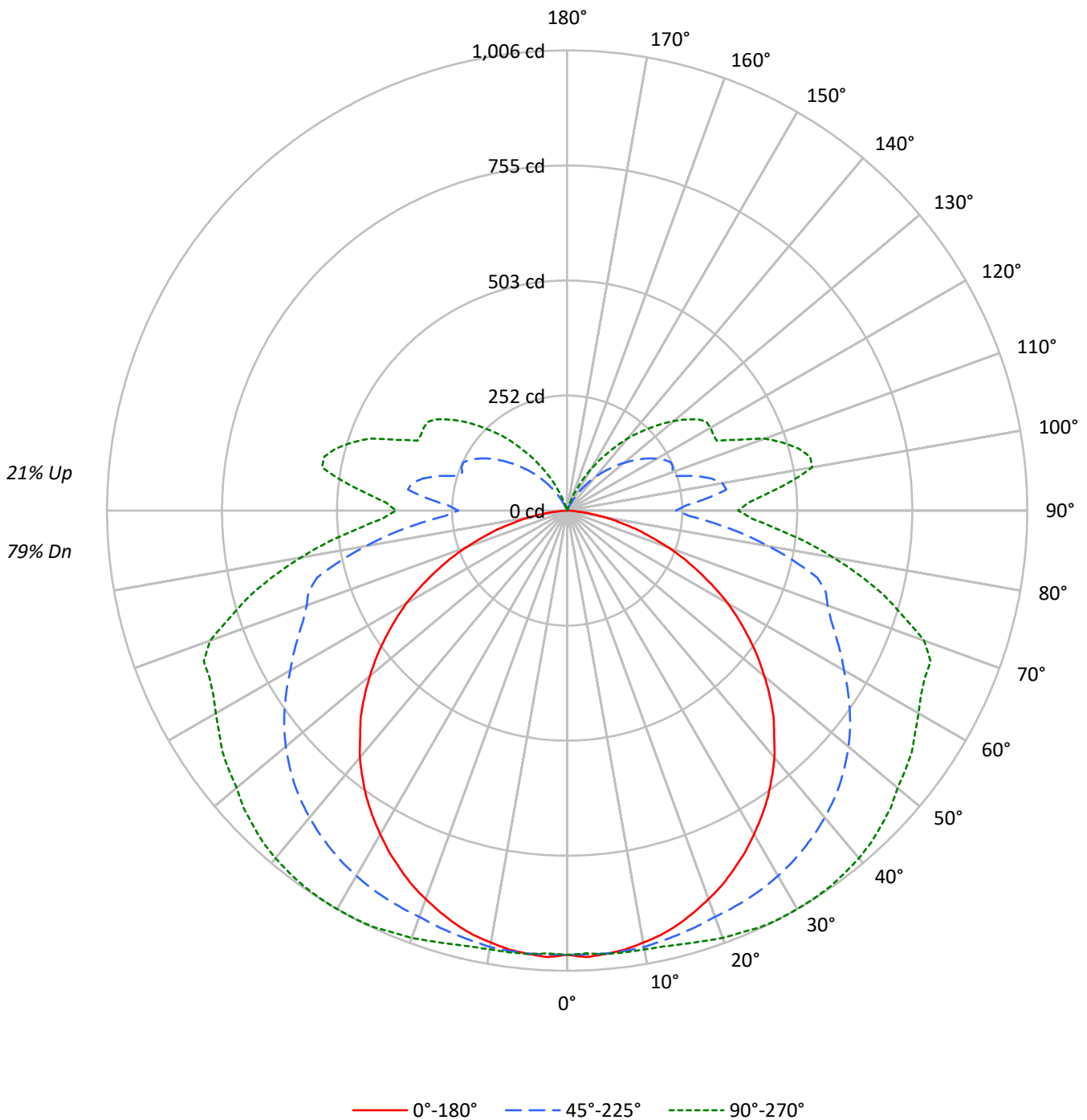
**Summary**

Lumens per Lamp: 2800 (2 lamps)  
Luminaire Lumens: 5247.5 lumens  
Efficiency: 93.7%  
Efficacy: 86.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.57 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 0.36' x L: 4.33' x H: 0.14')  
CIE Type: Semi-Direct

Input Watts (W): 60.6  
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	102	102	102	102	93	93	93	85	85	85	77	77	77	74
1	95	89	84	80	90	85	81	77	77	74	71	70	67	65	64	62	59	56
2	85	76	69	62	80	72	66	60	66	60	56	60	55	51	54	51	47	44
3	77	66	57	50	72	63	55	49	57	51	45	52	46	42	47	42	39	36
4	70	57	49	42	66	55	47	40	50	43	38	45	40	35	41	36	32	30
5	64	51	42	35	60	49	40	34	44	37	32	40	34	30	37	32	28	25
6	58	45	37	30	55	43	35	29	40	33	27	36	30	26	33	28	24	22
7	54	41	32	26	51	39	31	26	36	29	24	33	27	22	30	25	21	19
8	50	37	29	23	47	35	28	22	33	26	21	30	24	20	27	22	19	16
9	47	34	26	21	44	32	25	20	30	23	19	27	22	18	25	20	17	15
10	44	31	23	18	41	30	23	18	28	21	17	25	20	16	23	18	15	13

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

	0°	45°	90°
0°	6623	6623	6623
5°	6644	6494	6453
10°	6606	6391	6332
15°	6562	6286	6301
20°	6488	6216	6356
25°	6409	6219	6441
30°	6321	6237	6525
35°	6234	6263	6628
40°	6117	6296	6735
45°	5968	6337	6837
50°	5760	6362	6937
55°	5521	6375	7149
60°	5254	6386	7364
65°	4810	6494	7754
70°	4297	6781	8193
75°	3658	7232	7931
80°	2736	6715	7474
85°	1326	5979	6864



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	92.6	1.8	1.7	0°	971	971	971	971	971	
10°-20°	271.4	5.2	4.8	5°	973	971	972	971	973	92
20°-30°	432.1	8.2	7.7	15°	937	947	958	970	981	264
30°-40°	559.9	10.7	10.0	25°	864	889	936	983	1004	398
40°-50°	638.6	12.2	11.4	35°	765	812	902	976	1003	478
50°-60°	657.7	12.5	11.7	45°	638	720	844	941	972	491
60°-70°	626.6	11.9	11.2	55°	485	605	754	876	920	434
70°-80°	528.3	10.1	9.4	65°	318	478	648	806	863	316
80°-90°	332.8	6.3	5.9	75°	155	327	566	689	718	164
90°-100°	292.5	5.6	5.2	85°	23	195	325	439	460	31
100°-110°	293.9	5.6	5.2	90°	0	105	238	336	374	1
110°-120°	212.2	4.0	3.8	95°	0	150	307	415	441	0
120°-130°	160.9	3.1	2.9	105°	0	116	293	458	524	0
130°-140°	95.2	1.8	1.7	115°	0	80	250	331	361	0
140°-150°	42.4	0.8	0.8	125°	0	48	196	302	348	0
150°-160°	10.2	0.2	0.2	135°	0	17	128	216	255	0
160°-170°	0.3	0.0	0.0	145°	0	0	64	123	153	0
170°-180°	0.0	0.0	0.0	155°	0	0	8	40	60	0
0°-30°	796.1	15.2	14.2	165°	0	0	0	0	1	0
0°-40°	1356.0	25.8	24.2	175°	0	0	0	0	0	0
0°-60°	2652.3	50.5	47.4	180°	0	0	0	0	0	0
0°-90°	4140.0	78.9	73.9							
90°-120°	798.6	15.2	14.3							
90°-150°	1097.1	20.9	19.6							
90°-180°	1108.0	21.1	19.8							
0°-180°	5247.5	100.0	93.7							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	971	971	971	971	971
2.5°	977	973	971	968	969
5°	973	971	972	971	973
7.5°	968	967	971	972	974
10°	959	962	969	971	974
12.5°	950	956	963	970	976
15°	937	947	958	970	981
17.5°	921	936	952	974	987
20°	904	923	945	978	994
22.5°	886	907	941	981	998
25°	864	889	936	983	1004
27.5°	842	870	930	984	1006
30°	817	851	922	983	1006
32.5°	792	832	913	980	1005
35°	765	812	902	976	1003
37.5°	735	790	890	971	998
40°	705	767	876	963	992
42.5°	670	744	861	953	984
45°	638	720	844	941	972
47.5°	601	693	824	925	960
50°	563	666	803	909	943
52.5°	525	640	780	891	932
55°	485	605	754	876	920
57.5°	445	578	727	858	902
60°	406	547	699	840	887
62.5°	362	515	674	821	872
65°	318	478	648	806	863
67.5°	278	442	624	796	860
70°	234	400	606	789	830
72.5°	192	361	593	745	771
75°	155	327	566	689	718
77.5°	116	300	507	628	655
80°	82	284	447	568	591
82.5°	49	253	387	506	527
85°	23	195	325	439	460
87.5°	5	145	267	382	404
90°	0	105	238	336	374
92.5°	0	133	260	368	396
95°	0	150	307	415	441
97.5°	0	131	351	466	495
100°	0	110	345	496	544
102.5°	0	116	323	482	544
105°	0	116	293	458	524
107.5°	0	108	250	426	494
110°	0	98	244	379	460



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0	88	250	333	404
115°	0	80	250	331	361
117.5°	0	71	240	333	360
120°	0	65	227	333	362
122.5°	0	56	212	321	361
125°	0	48	196	302	348
127.5°	0	40	179	283	327
130°	0	33	162	261	305
132.5°	0	24	146	238	280
135°	0	17	128	216	255
137.5°	0	10	112	192	230
140°	0	4	95	168	206
142.5°	0	2	80	147	179
145°	0	0	64	123	153
147.5°	0	0	48	101	129
150°	0	0	33	80	105
152.5°	0	0	19	60	82
155°	0	0	8	40	60
157.5°	0	0	2	23	38
160°	0	0	0	8	19
162.5°	0	0	0	1	6
165°	0	0	0	0	1
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)