

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: CORELITE

Report Number: P32045

Luminaire Tested: **J2-WL-1T5-1C-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P32045  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J2-WL-1T5-1C-UNV-4  
Description: CORELITE 4' SUSPENDED FLUORESCENT FIXTURE WITH WHITE PAINTED REFLECTOR AND FROSTED LENS  
Light Source: (1) DOUBLE ENDED BIPIN T5 LINEAR FLUORESCENT LAMPS 3500K GE F54W/T5/835/ECO  
Ballast/Driver: SYLVANIA OPTANIUM ELECTRONIC BALLAST QHE2X54HO/UNV PSN

**Summary**

Lumens per Lamp: 5000 (1 lamp)  
Luminaire Lumens: 4738.2 lumens  
Efficiency: 94.8%  
Efficacy: 76.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.33' x L: 3.58' x H: 0')  
CIE Type: Semi-Indirect

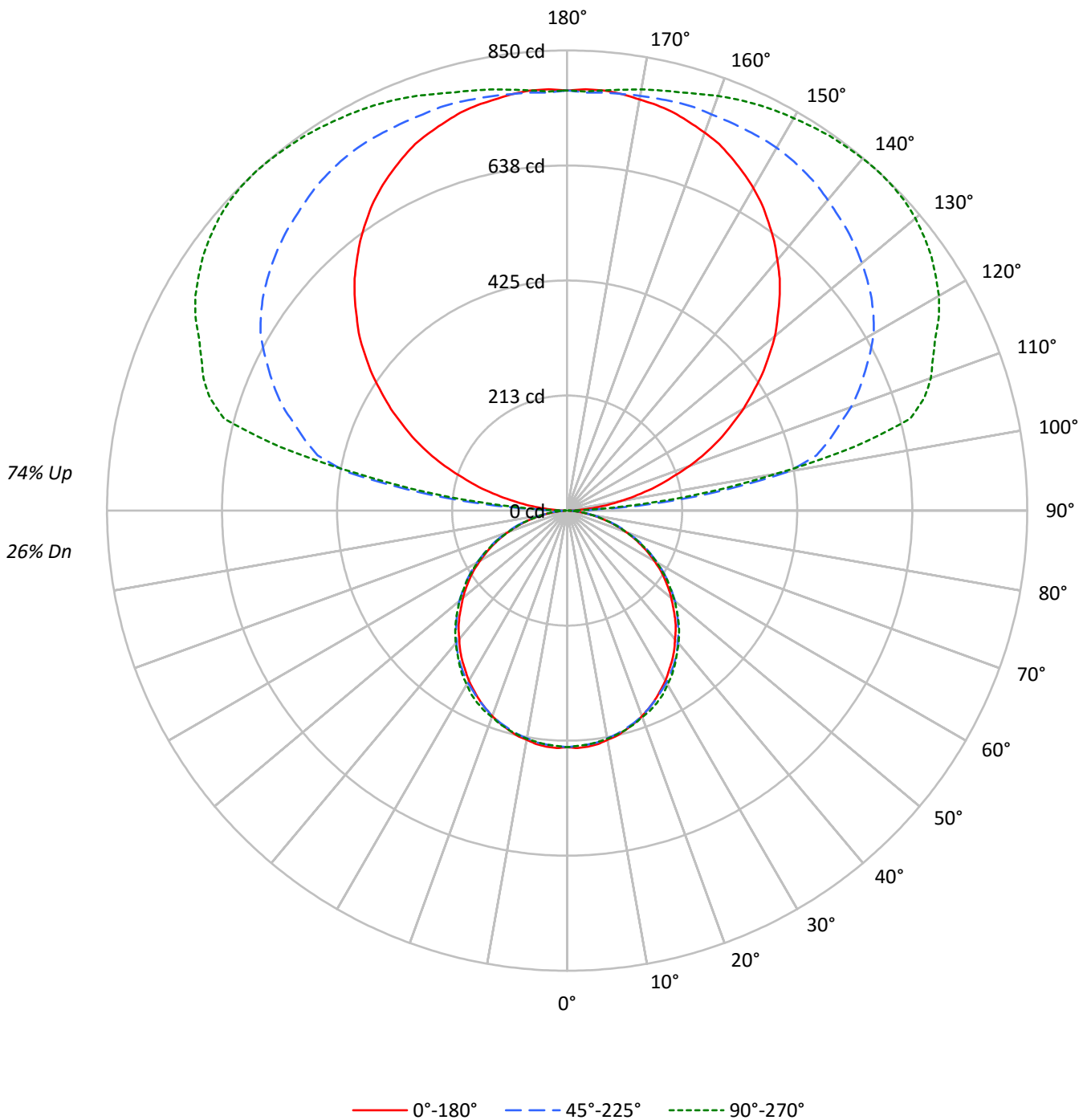
Input Watts (W): 62.3  
Input Voltage (V): 120.06  
Input Current (A<sub>in</sub>): 0.5215  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P32045

CATALOG NUMBER: J2-WL-1T5-1C-UNV-4

### Luminous Intensity Polar Plot





TEST NUMBER: P32045

CATALOG NUMBER: J2-WL-1T5-1C-UNV-4

**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	96	96	96	96	86	86	86	86	66	66	66	49	49	49	32	32	32	25
1	88	84	80	77	78	75	72	69	58	56	54	43	41	40	29	28	27	21
2	80	73	67	62	71	65	60	56	51	47	45	37	35	33	25	24	23	17
3	73	64	57	52	64	57	51	47	45	41	37	33	30	28	22	21	19	15
4	66	56	49	44	59	50	44	40	39	35	32	29	26	24	20	18	16	12
5	61	50	43	37	54	45	38	34	35	31	27	26	23	21	18	16	14	11
6	56	45	37	32	49	40	34	29	31	27	23	23	20	18	16	14	12	9
7	51	40	33	28	46	36	30	25	28	24	20	21	18	16	14	13	11	8
8	48	36	29	24	42	33	26	22	26	21	18	19	16	14	13	11	10	7
9	44	33	26	21	39	30	24	20	24	19	16	18	15	12	12	10	9	7
10	41	30	23	19	37	27	21	17	22	17	14	16	13	11	11	9	8	6

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

	0°	45°	90°
0°	3938	3938	3938
5°	3962	3926	3926
10°	3935	3907	3916
15°	3909	3890	3909
20°	3874	3874	3894
25°	3828	3838	3898
30°	3777	3819	3861
35°	3718	3795	3817
40°	3647	3741	3764
45°	3594	3683	3709
50°	3519	3645	3631
55°	3456	3566	3551
60°	3352	3460	3442
65°	3220	3348	3284
70°	3056	3135	3056
75°	2785	2890	2820
80°	2335	2491	2387
85°	1654	1965	1758



TEST NUMBER: P32045

CATALOG NUMBER: J2-WL-1T5-1C-UNV-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	41.4	0.9	0.8
10°-20°	118.2	2.5	2.4
20°-30°	178.8	3.8	3.6
30°-40°	214.9	4.5	4.3
40°-50°	222.5	4.7	4.5
50°-60°	201.4	4.2	4.0
60°-70°	153.7	3.2	3.1
70°-80°	87.0	1.8	1.7
80°-90°	23.5	0.5	0.5
90°-100°	169.2	3.6	3.4
100°-110°	479.0	10.1	9.6
110°-120°	570.8	12.0	11.4
120°-130°	591.7	12.5	11.8
130°-140°	556.2	11.7	11.1
140°-150°	474.7	10.0	9.5
150°-160°	359.3	7.6	7.2
160°-170°	221.5	4.7	4.4
170°-180°	74.4	1.6	1.5
0°-30°	338.3	7.1	6.8
0°-40°	553.3	11.7	11.1
0°-60°	977.2	20.6	19.5
0°-90°	1241.4	26.2	24.8
90°-120°	1219.0	25.7	24.4
90°-150°	2841.6	60.0	56.8
90°-180°	3497.0	73.8	69.9
0°-180°	4738.2	100.0	94.8

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	437	437	437	437	437	
5°	438	437	434	436	434	42
15°	419	419	417	420	419	118
25°	385	386	386	392	392	177
35°	338	340	345	347	347	211
45°	282	286	289	291	291	217
55°	220	226	227	226	226	196
65°	151	158	157	155	154	150
75°	80	85	83	81	81	84
85°	16	20	19	18	17	19
90°	5	18	9	4	2	5
95°	41	182	179	144	141	46
105°	169	338	501	620	656	178
115°	311	450	607	717	750	306
125°	440	542	686	788	821	393
135°	555	626	732	820	849	428
145°	649	692	764	825	845	406
155°	719	742	777	817	828	332
165°	761	769	781	798	800	215
175°	779	778	775	781	779	74
180°	776	776	776	776	776	



TEST NUMBER: P32045

CATALOG NUMBER: J2-WL-1T5-1C-UNV-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	437	437	437	437	437
2.5°	439	438	435	437	435
5°	438	437	434	436	434
7.5°	435	434	432	433	431
10°	430	430	427	429	428
12.5°	426	425	423	426	424
15°	419	419	417	420	419
17.5°	412	412	411	414	413
20°	404	404	404	407	406
22.5°	395	396	395	398	400
25°	385	386	386	392	392
27.5°	374	375	376	383	383
30°	363	365	367	372	371
32.5°	350	353	356	360	360
35°	338	340	345	347	347
37.5°	325	328	332	334	333
40°	310	314	318	320	320
42.5°	297	301	304	307	306
45°	282	286	289	291	291
47.5°	266	273	275	276	275
50°	251	257	260	260	259
52.5°	236	241	243	243	242
55°	220	226	227	226	226
57.5°	204	209	210	210	208
60°	186	191	192	193	191
62.5°	169	175	174	174	173
65°	151	158	157	155	154
67.5°	134	140	138	137	136
70°	116	120	119	118	116
72.5°	98	102	102	100	98
75°	80	85	83	81	81
77.5°	61	67	65	63	63
80°	45	50	48	46	46
82.5°	30	33	32	32	31
85°	16	20	19	18	17
87.5°	5	10	9	8	7
90°	5	18	9	4	2
92.5°	19	89	61	44	37
95°	41	182	179	144	141
97.5°	70	239	295	278	265
100°	100	273	415	413	393
102.5°	133	307	472	544	543
105°	169	338	501	620	656
107.5°	202	371	527	650	692
110°	240	400	558	671	715



TEST NUMBER: P32045

CATALOG NUMBER: J2-WL-1T5-1C-UNV-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	276	426	584	692	731
115°	311	450	607	717	750
117.5°	342	472	631	740	774
120°	376	495	654	758	793
122.5°	407	519	671	773	807
125°	440	542	686	788	821
127.5°	470	563	699	799	831
130°	501	587	711	809	840
132.5°	527	607	722	816	846
135°	555	626	732	820	849
137.5°	581	644	740	822	850
140°	604	661	749	824	849
142.5°	628	676	758	825	847
145°	649	692	764	825	845
147.5°	670	707	770	824	841
150°	688	720	774	823	837
152.5°	704	732	776	820	833
155°	719	742	777	817	828
157.5°	733	751	778	813	822
160°	743	758	779	807	815
162.5°	752	763	781	802	807
165°	761	769	781	798	800
167.5°	767	772	779	794	795
170°	771	775	778	789	790
172.5°	776	777	776	785	784
175°	779	778	775	781	779
177.5°	779	778	773	778	775
180°	776	776	776	776	776

(END OF REPORT)