

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: P32046

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P32046
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-SL-1T5-1C-UNV-4
Description: CORELITE 4' SUSPENDED FLUORESCENT FIXTURE WITH SPECULAR UPPER 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

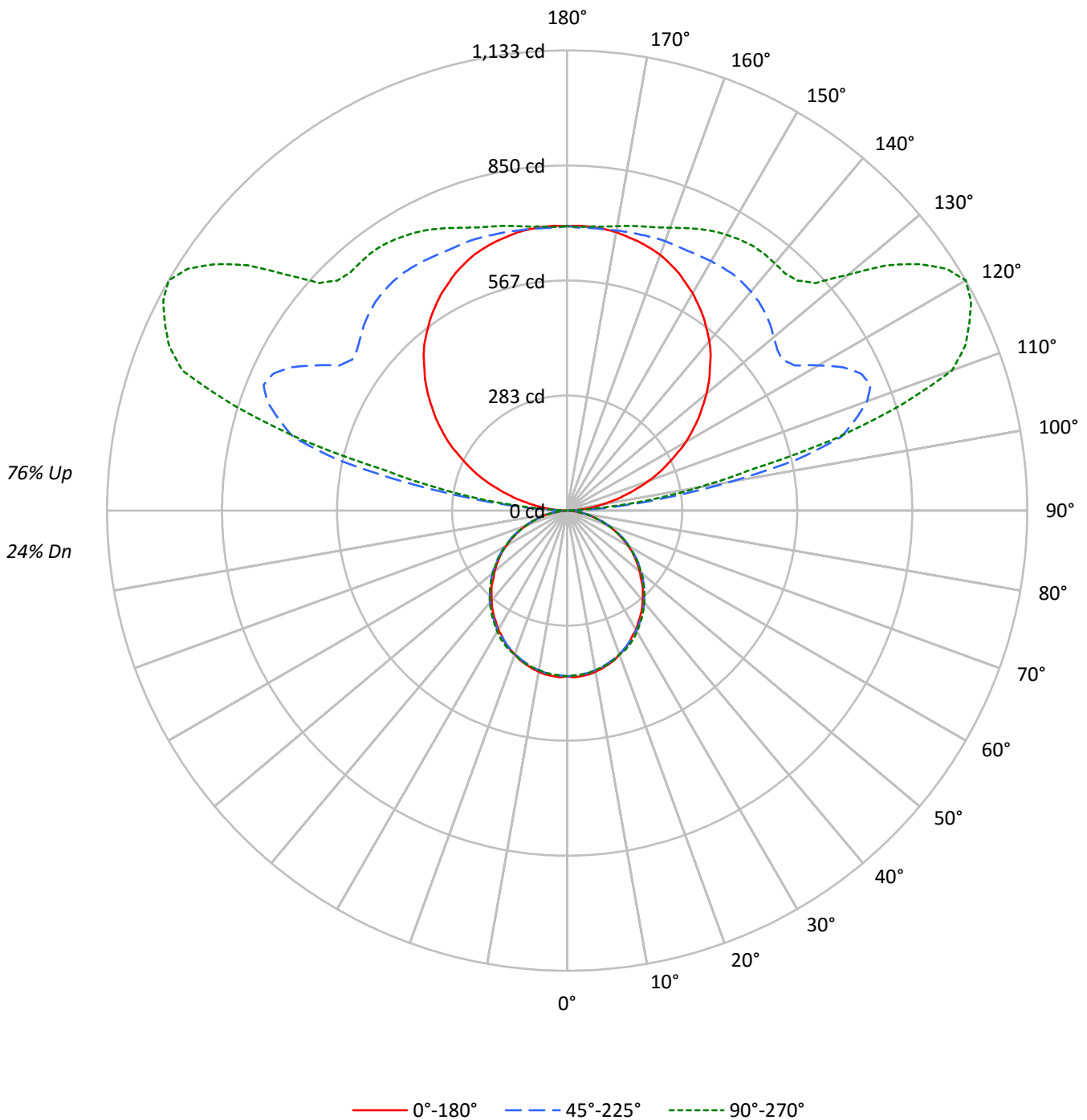
Lumens per Lamp: 5000 (1 lamp)
Luminaire Lumens: 4766.4 lumens
Efficiency: 95.3%
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36
Luminous Opening: Rectangular (W 0.33' x L: 3.58' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 62.5
Input Voltage (V): 120.06
Input Current (A_{in}): 0.5225
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	96	96	96	96	86	86	86	86	66	66	66	48	48	48	31	31	31	23
1	88	84	80	77	78	74	72	69	57	55	54	42	40	39	27	26	26	19
2	80	73	67	63	71	65	60	56	50	47	44	36	34	33	24	23	22	16
3	73	64	57	52	64	57	51	47	44	40	37	32	30	27	21	20	18	13
4	66	56	49	44	59	50	44	39	39	35	31	28	26	23	19	17	16	11
5	61	50	43	37	54	45	38	34	35	30	27	25	22	20	17	15	14	10
6	56	45	37	32	49	40	34	29	31	27	23	23	20	17	15	13	12	9
7	51	40	33	28	46	36	30	25	28	24	20	21	18	15	14	12	10	8
8	48	36	29	24	42	33	26	22	25	21	18	19	16	14	13	11	9	7
9	44	33	26	21	39	30	24	20	23	19	16	17	14	12	12	10	8	6
10	41	30	23	19	37	27	21	17	21	17	14	16	13	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3677	3677	3677
5°	3700	3664	3664
10°	3688	3651	3651
15°	3657	3629	3648
20°	3615	3606	3615
25°	3580	3570	3619
30°	3528	3548	3580
35°	3465	3509	3531
40°	3400	3470	3482
45°	3352	3416	3416
50°	3267	3365	3337
55°	3205	3284	3268
60°	3118	3208	3154
65°	2985	3071	3028
70°	2819	2898	2846
75°	2577	2646	2577
80°	2128	2283	2180
85°	1551	1758	1654



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	38.6	0.8	0.8
10°-20°	110.3	2.3	2.2
20°-30°	166.3	3.5	3.3
30°-40°	199.3	4.2	4.0
40°-50°	205.6	4.3	4.1
50°-60°	186.0	3.9	3.7
60°-70°	141.9	3.0	2.8
70°-80°	79.9	1.7	1.6
80°-90°	21.0	0.4	0.4
90°-100°	146.0	3.1	2.9
100°-110°	561.7	11.8	11.2
110°-120°	721.5	15.1	14.4
120°-130°	634.6	13.3	12.7
130°-140°	520.4	10.9	10.4
140°-150°	438.9	9.2	8.8
150°-160°	327.4	6.9	6.5
160°-170°	199.9	4.2	4.0
170°-180°	67.0	1.4	1.3
0°-30°	315.2	6.6	6.3
0°-40°	514.5	10.8	10.3
0°-60°	906.1	19.0	18.1
0°-90°	1149.0	24.1	23.0
90°-120°	1429.1	30.0	28.6
90°-150°	3023.1	63.4	60.5
90°-180°	3617.0	75.9	72.3
0°-180°	4766.4	100.0	95.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	408	408	408	408	408	
5°	409	408	405	407	405	39
15°	392	391	389	392	391	111
25°	360	359	359	364	364	166
35°	315	316	319	321	321	197
45°	263	264	268	269	268	202
55°	204	209	209	209	208	183
65°	140	145	144	144	142	139
75°	74	77	76	75	74	78
85°	15	18	17	16	16	18
90°	5	13	2	1	1	4
95°	37	173	132	108	90	41
105°	149	394	698	709	680	158
115°	275	421	798	1035	1093	272
125°	394	511	647	945	1058	352
135°	497	572	689	765	801	384
145°	584	626	711	776	796	365
155°	647	668	705	751	765	298
165°	685	692	703	722	724	194
175°	701	702	698	704	702	67
180°	700	700	700	700	700	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	408	408	408	408	408
2.5°	411	409	406	408	406
5°	409	408	405	407	405
7.5°	407	405	403	404	403
10°	403	401	399	401	399
12.5°	398	396	395	397	395
15°	392	391	389	392	391
17.5°	386	384	383	386	385
20°	377	377	376	379	377
22.5°	369	369	368	371	372
25°	360	359	359	364	364
27.5°	348	349	349	355	355
30°	339	339	341	345	344
32.5°	326	328	330	333	332
35°	315	316	319	321	321
37.5°	303	305	308	308	308
40°	289	292	295	296	296
42.5°	276	278	281	283	282
45°	263	264	268	269	268
47.5°	246	251	254	254	253
50°	233	237	240	240	238
52.5°	219	224	225	225	223
55°	204	209	209	209	208
57.5°	190	194	193	192	191
60°	173	178	178	177	175
62.5°	157	161	161	160	160
65°	140	145	144	144	142
67.5°	125	129	127	126	125
70°	107	112	110	109	108
72.5°	91	94	93	91	90
75°	74	77	76	75	74
77.5°	58	61	60	58	57
80°	41	45	44	43	42
82.5°	27	30	30	29	27
85°	15	18	17	16	16
87.5°	5	9	8	7	7
90°	5	13	2	1	1
92.5°	16	64	34	15	4
95°	37	173	132	108	90
97.5°	63	282	247	221	212
100°	89	344	408	340	330
102.5°	119	384	578	502	459
105°	149	394	698	709	680
107.5°	180	383	744	879	860
110°	214	379	786	966	1008



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	245	397	809	1000	1061
115°	275	421	798	1035	1093
117.5°	305	448	765	1058	1121
120°	338	471	715	1045	1133
122.5°	365	493	665	1006	1108
125°	394	511	647	945	1058
127.5°	420	528	652	867	992
130°	448	543	664	799	903
132.5°	474	558	678	771	829
135°	497	572	689	765	801
137.5°	523	584	698	769	793
140°	545	599	704	774	795
142.5°	564	612	708	777	797
145°	584	626	711	776	796
147.5°	601	639	710	772	791
150°	618	650	709	768	784
152.5°	632	660	707	761	776
155°	647	668	705	751	765
157.5°	659	676	705	741	753
160°	670	682	706	733	741
162.5°	678	688	705	726	731
165°	685	692	703	722	724
167.5°	690	696	702	716	718
170°	696	699	700	711	711
172.5°	699	700	699	707	705
175°	701	702	698	704	702
177.5°	702	702	697	702	699
180°	700	700	700	700	700

(END OF REPORT)