

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: P32062

Luminaire Tested: **J2-WL-2N5-1C-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P32062
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-2N5-1C-UNV-4
Description: CORELITE 4' SUSPENDED FLUORESCENT FIXTURE WITH WHITE PAINTED UPPER REFLECTOR AND FROSTED LENS
Light Source: (2) DOUBLE ENDED BIPIN T5 LINEAR FLUORESCENT LAMPS 3500K GE F28W/T5/835/ECO
Ballast/Driver: UNIVERSAL ACCUSTART ELECTRONIC BALLAST B228PUNV90-C

Summary

Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 5473.6 lumens
Efficiency: 94.4%
Efficacy: 96.0 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

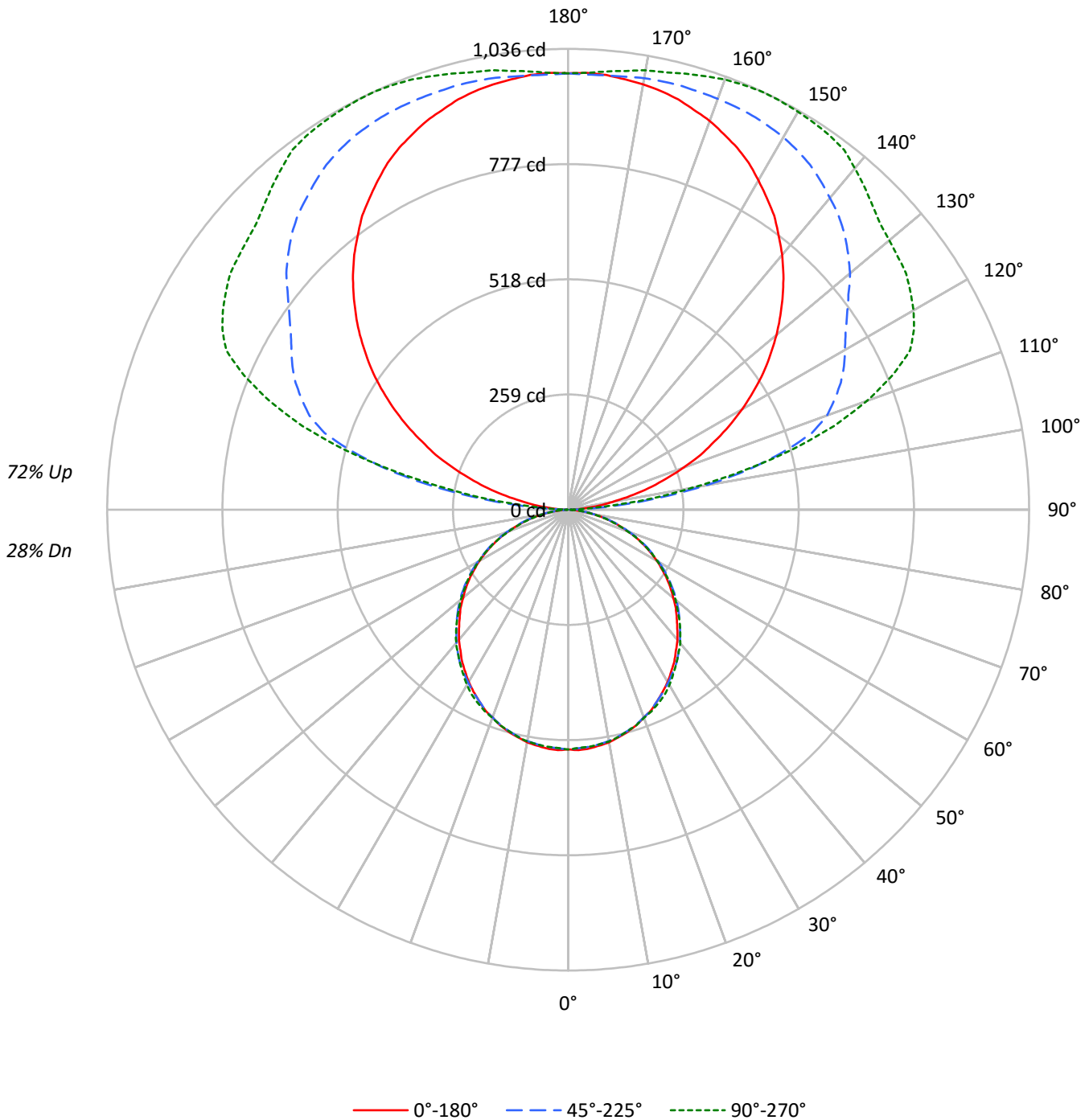
Input Watts (W): 57
Input Voltage (V): 120.00
Input Current (A_{in}): 0.4762
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P32062

CATALOG NUMBER: J2-WL-2N5-1C-UNV-4

Luminous Intensity Polar Plot





TEST NUMBER: P32062

CATALOG NUMBER: J2-WL-2N5-1C-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	67	67	67	50	50	50	34	34	34	26
1	88	84	80	77	78	75	72	69	58	56	55	43	42	41	30	29	28	22
2	80	73	67	62	71	65	61	57	51	48	45	38	36	34	26	25	24	18
3	72	64	57	52	65	57	52	47	45	41	38	34	31	29	23	21	20	15
4	66	56	49	44	59	51	44	40	40	35	32	30	27	24	20	19	17	13
5	61	50	43	37	54	45	39	34	35	31	27	27	23	21	18	16	15	11
6	56	45	37	32	50	40	34	29	32	27	24	24	21	18	17	15	13	10
7	51	40	33	28	46	36	30	25	29	24	21	22	18	16	15	13	11	9
8	48	36	29	24	42	33	27	22	26	21	18	20	17	14	14	12	10	8
9	44	33	26	22	39	30	24	20	24	19	16	18	15	13	13	11	9	7
10	41	30	24	19	37	27	21	18	22	17	14	17	14	11	12	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4857	4857	4857
5°	4876	4840	4840
10°	4859	4832	4841
15°	4823	4805	4805
20°	4766	4766	4776
25°	4713	4713	4773
30°	4651	4672	4735
35°	4577	4654	4654
40°	4494	4600	4611
45°	4397	4512	4512
50°	4318	4458	4416
55°	4258	4368	4336
60°	4163	4235	4181
65°	4009	4094	4030
70°	3768	3847	3741
75°	3482	3586	3412
80°	2958	3062	2906
85°	2068	2482	2275



TEST NUMBER: P32062

CATALOG NUMBER: J2-WL-2N5-1C-UNV-4

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	51.0	0.9	0.9
10°-20°	145.6	2.7	2.5
20°-30°	219.7	4.0	3.8
30°-40°	263.5	4.8	4.5
40°-50°	272.2	5.0	4.7
50°-60°	246.5	4.5	4.2
60°-70°	188.3	3.4	3.2
70°-80°	107.0	2.0	1.8
80°-90°	28.4	0.5	0.5
90°-100°	119.0	2.2	2.1
100°-110°	449.3	8.2	7.7
110°-120°	636.5	11.6	11.0
120°-130°	678.7	12.4	11.7
130°-140°	660.1	12.1	11.4
140°-150°	584.4	10.7	10.1
150°-160°	450.0	8.2	7.8
160°-170°	279.5	5.1	4.8
170°-180°	94.0	1.7	1.6
0°-30°	416.3	7.6	7.2
0°-40°	679.8	12.4	11.7
0°-60°	1198.4	21.9	20.7
0°-90°	1522.1	27.8	26.2
90°-120°	1204.8	22.0	20.8
90°-150°	3128.0	57.1	53.9
90°-180°	3952.0	72.2	68.1
0°-180°	5473.6	100.0	94.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	539	539	539	539	539	
5°	539	538	535	537	535	51
15°	517	516	515	516	515	146
25°	474	475	474	480	480	219
35°	416	418	423	425	423	260
45°	345	350	354	356	354	267
55°	271	278	278	276	276	242
65°	188	193	192	190	189	186
75°	100	103	103	100	98	105
85°	20	24	24	22	22	25
90°	3	6	4	2	1	4
95°	35	122	108	92	76	44
105°	187	356	500	526	520	197
115°	362	502	676	810	848	360
125°	535	654	765	882	927	477
135°	682	771	878	944	967	526
145°	807	864	947	1007	1026	504
155°	898	930	978	1024	1036	414
165°	955	968	986	1008	1015	269
175°	981	982	980	989	989	93
180°	981	981	981	981	981	



TEST NUMBER: P32062

CATALOG NUMBER: J2-WL-2N5-1C-UNV-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	539	539	539	539	539
2.5°	541	540	537	539	536
5°	539	538	535	537	535
7.5°	535	535	532	534	532
10°	531	531	528	530	529
12.5°	524	524	522	524	523
15°	517	516	515	516	515
17.5°	508	509	507	510	508
20°	497	497	497	500	498
22.5°	488	487	487	489	490
25°	474	475	474	480	480
27.5°	461	463	462	469	469
30°	447	449	449	455	455
32.5°	431	435	436	440	439
35°	416	418	423	425	423
37.5°	398	403	407	407	407
40°	382	386	391	391	392
42.5°	363	368	372	374	373
45°	345	350	354	356	354
47.5°	328	334	336	338	333
50°	308	316	318	318	315
52.5°	290	297	298	297	294
55°	271	278	278	276	276
57.5°	250	256	257	255	253
60°	231	235	235	233	232
62.5°	209	216	213	211	211
65°	188	193	192	190	189
67.5°	166	170	169	167	166
70°	143	148	146	145	142
72.5°	121	127	124	121	119
75°	100	103	103	100	98
77.5°	78	82	81	78	77
80°	57	61	59	57	56
82.5°	39	42	41	39	38
85°	20	24	24	22	22
87.5°	7	12	11	10	11
90°	3	6	4	2	1
92.5°	14	40	26	21	15
95°	35	122	108	92	76
97.5°	70	204	204	193	184
100°	101	275	313	294	282
102.5°	143	322	413	408	400
105°	187	356	500	526	520
107.5°	230	385	574	621	626
110°	274	416	619	707	714



TEST NUMBER: P32062

CATALOG NUMBER: J2-WL-2N5-1C-UNV-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	322	459	648	769	788
115°	362	502	676	810	848
117.5°	408	546	699	831	876
120°	451	585	718	852	896
122.5°	493	620	739	871	912
125°	535	654	765	882	927
127.5°	573	687	794	893	934
130°	611	715	827	906	942
132.5°	647	744	853	922	951
135°	682	771	878	944	967
137.5°	716	798	899	965	985
140°	748	821	915	986	1002
142.5°	777	843	932	998	1019
145°	807	864	947	1007	1026
147.5°	831	883	958	1013	1030
150°	855	899	967	1019	1033
152.5°	879	916	973	1023	1035
155°	898	930	978	1024	1036
157.5°	914	942	981	1022	1033
160°	930	952	983	1018	1029
162.5°	942	961	984	1014	1022
165°	955	968	986	1008	1015
167.5°	964	973	986	1005	1007
170°	971	977	985	1001	1003
172.5°	976	980	982	995	995
175°	981	982	980	989	989
177.5°	983	983	979	984	983
180°	981	981	981	981	981

(END OF REPORT)