

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: P32021

Luminaire Tested: **J2-WL-3T5-1C-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P32021
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-3T5-1C-UNV-4
Description: CORELITE 4' SUSPENDED FLUORESCENT FIXTURE WITH WHITE PAINTED
UPPER REFLECTOR AND FROSTED LENS
Light Source: (3) DOUBLE ENDED BIPIN T5 LINEAR FLUORESCENT LAMPS 3500K
GE F54W/T5/835/ECO
Ballast/Driver: (2) SYLVANIA OPTANIUM ELECTRONIC BALLAST
QHE2X5HO/UNV PSN

Summary

Lumens per Lamp: 5000 (3 lamps)
Luminaire Lumens: 14369.0 lumens
Efficiency: 95.8%
Efficacy: 78.4 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

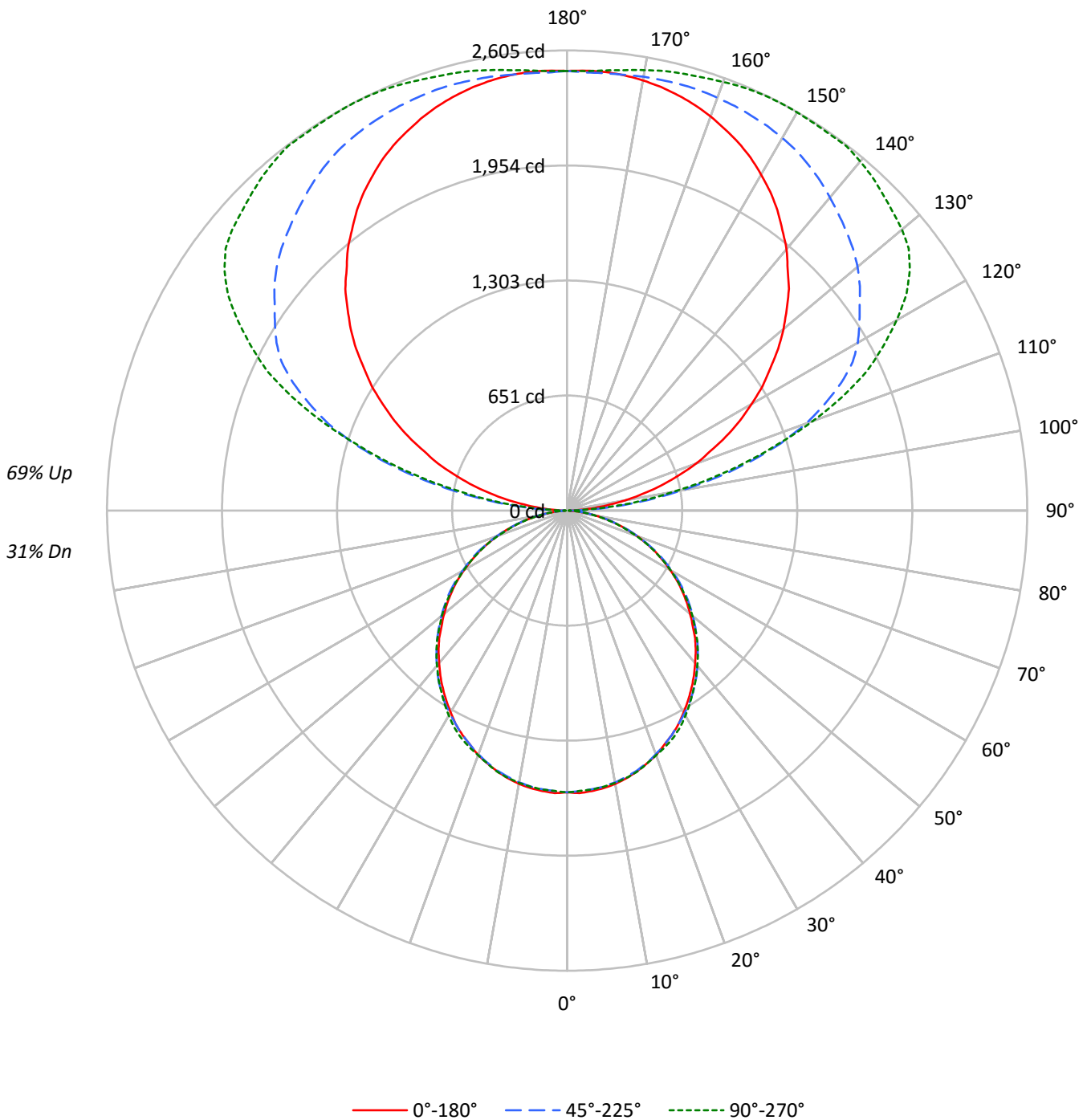
Input Watts (W): 183.2
Input Voltage (V): 120.01
Input Current (Ain): 1.53
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P32021

CATALOG NUMBER: J2-WL-3T5-1C-UNV-4

Luminous Intensity Polar Plot





TEST NUMBER: P32021

CATALOG NUMBER: J2-WL-3T5-1C-UNV-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	98	98	98	98	88	88	88	88	70	70	70	53	53	53	37	37	37	30																			
1	90	85	82	79	80	77	74	71	61	59	57	46	45	44	33	32	31	25																			
2	81	75	69	64	73	67	62	58	53	50	47	40	38	36	29	27	26	21																			
3	74	65	59	53	66	59	53	48	47	43	39	36	33	31	25	24	22	17																			
4	68	58	50	45	61	52	46	41	41	37	33	32	29	26	23	21	19	15																			
5	62	51	44	38	55	46	40	35	37	32	29	28	25	22	20	18	16	13																			
6	57	46	38	33	51	41	35	30	33	28	25	25	22	20	18	16	14	11																			
7	53	41	34	29	47	37	31	26	30	25	22	23	20	17	17	14	13	10																			
8	49	37	30	25	44	34	27	23	27	22	19	21	18	15	15	13	11	9																			
9	45	34	27	22	41	31	25	20	25	20	17	19	16	14	14	12	10	8																			
10	42	31	24	20	38	28	22	18	23	18	15	18	14	12	13	11	9	7																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14374	14374	14374
5°	14419	14329	14338
10°	14376	14293	14321
15°	14265	14218	14274
20°	14126	14078	14136
25°	13940	13940	14119
30°	13725	13808	13944
35°	13498	13708	13685
40°	13258	13493	13481
45°	13063	13280	13267
50°	12744	13024	12968
55°	12491	12789	12632
60°	12130	12346	12184
65°	11707	11920	11664
70°	11093	11145	10908
75°	10097	10271	9888
80°	8511	8770	8303
85°	5583	6514	5894



TEST NUMBER: P32021

CATALOG NUMBER: J2-WL-3T5-1C-UNV-4

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	151.0	1.1	1.0
10°-20°	431.0	3.0	2.9
20°-30°	648.8	4.5	4.3
30°-40°	776.9	5.4	5.2
40°-50°	800.7	5.6	5.3
50°-60°	722.0	5.0	4.8
60°-70°	548.8	3.8	3.7
70°-80°	309.1	2.2	2.1
80°-90°	79.6	0.6	0.5
90°-100°	301.8	2.1	2.0
100°-110°	1015.6	7.1	6.8
110°-120°	1555.2	10.8	10.4
120°-130°	1757.9	12.2	11.7
130°-140°	1702.1	11.8	11.3
140°-150°	1483.6	10.3	9.9
150°-160°	1138.4	7.9	7.6
160°-170°	708.1	4.9	4.7
170°-180°	238.4	1.7	1.6
0°-30°	1230.9	8.6	8.2
0°-40°	2007.8	14.0	13.4
0°-60°	3530.5	24.6	23.5
0°-90°	4467.9	31.1	29.8
90°-120°	2872.6	20.0	19.2
90°-150°	7816.2	54.4	52.1
90°-180°	9901.0	68.9	66.0
0°-180°	14369.0	100.0	95.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1595	1595	1595	1595	1595	
5°	1594	1593	1584	1590	1585	151
15°	1529	1528	1524	1532	1530	431
25°	1402	1403	1402	1418	1420	646
35°	1227	1237	1246	1247	1244	768
45°	1025	1034	1042	1046	1041	788
55°	795	813	814	809	804	711
65°	549	563	559	551	547	542
75°	290	301	295	288	284	307
85°	54	66	63	63	57	69
90°	14	31	20	11	8	14
95°	139	306	283	256	246	152
105°	552	965	1073	1049	1039	582
115°	993	1343	1712	1835	1876	980
125°	1403	1672	2021	2302	2368	1258
135°	1776	1967	2235	2458	2530	1366
145°	2075	2200	2386	2544	2598	1297
155°	2297	2368	2467	2572	2602	1059
165°	2433	2460	2497	2550	2559	687
175°	2492	2493	2485	2504	2501	237
180°	2489	2489	2489	2489	2489	



TEST NUMBER: P32021

CATALOG NUMBER: J2-WL-3T5-1C-UNV-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1595	1595	1595	1595	1595
2.5°	1601	1598	1590	1596	1589
5°	1594	1593	1584	1590	1585
7.5°	1585	1584	1576	1582	1577
10°	1571	1570	1562	1570	1565
12.5°	1552	1552	1545	1552	1550
15°	1529	1528	1524	1532	1530
17.5°	1501	1504	1498	1507	1502
20°	1473	1473	1468	1479	1474
22.5°	1436	1439	1436	1445	1449
25°	1402	1403	1402	1418	1420
27.5°	1364	1367	1364	1384	1384
30°	1319	1325	1327	1343	1340
32.5°	1274	1282	1289	1299	1294
35°	1227	1237	1246	1247	1244
37.5°	1179	1190	1199	1199	1198
40°	1127	1139	1147	1151	1146
42.5°	1077	1088	1095	1100	1095
45°	1025	1034	1042	1046	1041
47.5°	964	983	985	988	982
50°	909	928	929	928	925
52.5°	853	873	872	869	865
55°	795	813	814	809	804
57.5°	738	752	752	744	740
60°	673	692	685	681	676
62.5°	611	627	622	619	612
65°	549	563	559	551	547
67.5°	485	497	491	488	483
70°	421	433	423	417	414
72.5°	354	365	359	354	347
75°	290	301	295	288	284
77.5°	227	233	230	223	222
80°	164	174	169	164	160
82.5°	108	117	113	109	106
85°	54	66	63	63	57
87.5°	18	30	29	26	24
90°	14	31	20	11	8
92.5°	58	142	125	93	94
95°	139	306	283	256	246
97.5°	225	495	462	437	421
100°	330	673	655	625	609
102.5°	441	826	866	820	822
105°	552	965	1073	1049	1039
107.5°	660	1069	1269	1264	1255
110°	777	1162	1438	1479	1479



TEST NUMBER: P32021

CATALOG NUMBER: J2-WL-3T5-1C-UNV-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	876	1255	1580	1682	1689
115°	993	1343	1712	1835	1876
117.5°	1102	1426	1823	1985	2017
120°	1205	1507	1900	2109	2154
122.5°	1311	1588	1961	2221	2277
125°	1403	1672	2021	2302	2368
127.5°	1506	1748	2089	2350	2437
130°	1599	1825	2146	2382	2475
132.5°	1685	1900	2195	2419	2501
135°	1776	1967	2235	2458	2530
137.5°	1848	2030	2275	2495	2559
140°	1932	2092	2314	2519	2581
142.5°	2002	2143	2353	2534	2599
145°	2075	2200	2386	2544	2598
147.5°	2140	2250	2415	2556	2600
150°	2196	2295	2436	2567	2603
152.5°	2251	2334	2454	2571	2605
155°	2297	2368	2467	2572	2602
157.5°	2336	2398	2479	2570	2595
160°	2375	2422	2487	2563	2582
162.5°	2407	2442	2495	2557	2570
165°	2433	2460	2497	2550	2559
167.5°	2456	2474	2495	2542	2549
170°	2473	2483	2494	2530	2532
172.5°	2485	2489	2488	2516	2515
175°	2492	2493	2485	2504	2501
177.5°	2493	2495	2482	2496	2490
180°	2489	2489	2489	2489	2489

(END OF REPORT)