

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: P31985

Luminaire Tested: **J2-WL-3T8-1C-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P31985  
Test Lab: METALUX RESEARCH LABS  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J2-WL-3T8-1C-UNV-4  
Description: CORELITE 4' SUSPENDED FLUORESCENT FIXTURE WITH WHITE PAINTED UPPER REFLECTOR AND FROSTED LENS  
Light Source: (3) DOUBLE ENDED BIPIN T8 LINEAR FLUORESCENT LAMPS 3500K GE F32T8-XL-SP35-HL-ECO  
Ballast/Driver: (2) ADVANCE OPTANIUM ELECTRONIC BALLAST IOP-2P32-LW-N

**Summary**

Lumens per Lamp: 3100 (3 lamps)  
Luminaire Lumens: 8858.8 lumens  
Efficiency: 95.3%  
Efficacy: 106.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36  
Luminous Opening: Rectangular (W 0.33' x L: 3.58' x H: 0')  
CIE Type: Semi-Indirect

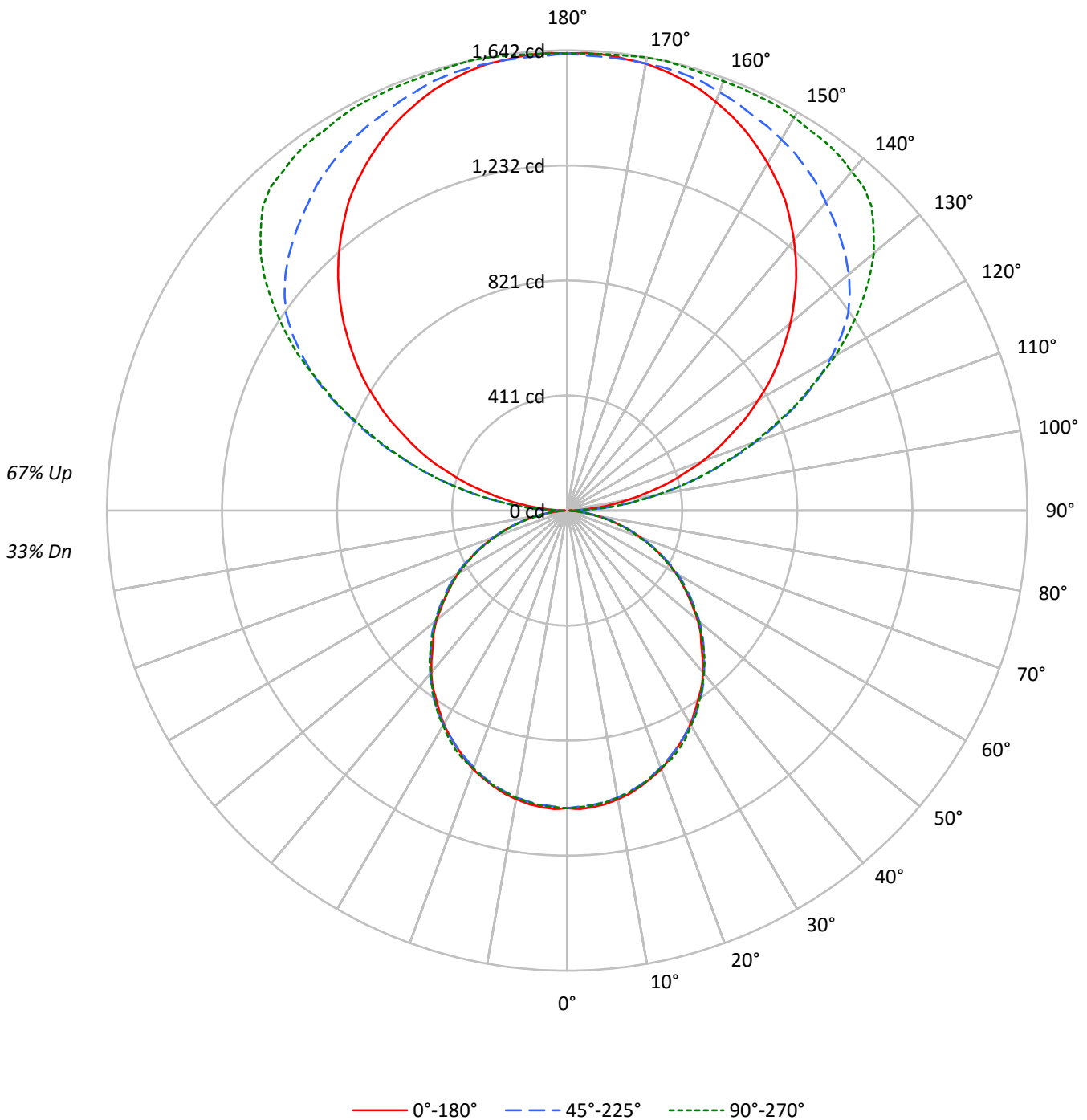
Input Watts (W): 83.3  
Input Voltage (V): 120.01  
Input Current (Ain): 0.6972  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	98	98	98	98	89	89	89	89	71	71	71	54	54	54	39	39	39	32
1	90	85	82	79	81	77	74	71	62	60	58	47	46	45	34	33	33	27
2	81	75	69	64	73	67	63	58	54	51	48	42	39	37	30	29	27	22
3	74	65	59	53	67	59	53	49	47	43	40	37	34	31	27	25	23	19
4	68	58	50	45	61	52	46	41	42	37	34	33	29	27	24	22	20	16
5	62	51	44	38	56	46	40	35	37	33	29	29	26	23	21	19	17	14
6	57	46	38	33	51	42	35	30	34	29	25	26	23	20	19	17	15	12
7	53	41	34	29	47	38	31	26	30	26	22	24	20	18	17	15	13	11
8	49	37	30	25	44	34	28	23	28	23	19	22	18	16	16	14	12	10
9	45	34	27	22	41	31	25	21	25	21	17	20	16	14	15	12	11	9
10	42	31	24	20	38	28	22	18	23	19	15	18	15	13	14	11	10	8

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

	0°	45°	90°
0°	9570	9570	9570
5°	9607	9535	9553
10°	9572	9508	9526
15°	9497	9451	9479
20°	9417	9350	9379
25°	9267	9257	9367
30°	9157	9178	9209
35°	8988	9098	9065
40°	8870	8941	8917
45°	8628	8768	8768
50°	8524	8636	8594
55°	8280	8437	8311
60°	8110	8219	8056
65°	7783	7868	7698
70°	7351	7430	7193
75°	6650	6755	6511
80°	5397	5709	5397
85°	3619	4239	4032



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	100.5	1.1	1.1
10°-20°	286.6	3.2	3.1
20°-30°	431.2	4.9	4.6
30°-40°	515.6	5.8	5.5
40°-50°	530.9	6.0	5.7
50°-60°	478.2	5.4	5.1
60°-70°	363.2	4.1	3.9
70°-80°	202.9	2.3	2.2
80°-90°	52.4	0.6	0.6
90°-100°	170.5	1.9	1.8
100°-110°	527.7	6.0	5.7
110°-120°	844.7	9.5	9.1
120°-130°	1034.3	11.7	11.1
130°-140°	1052.0	11.9	11.3
140°-150°	931.7	10.5	10.0
150°-160°	723.7	8.2	7.8
160°-170°	457.1	5.2	4.9
170°-180°	155.6	1.8	1.7
0°-30°	818.3	9.2	8.8
0°-40°	1333.9	15.1	14.3
0°-60°	2343.1	26.4	25.2
0°-90°	2961.5	33.4	31.8
90°-120°	1542.9	17.4	16.6
90°-150°	4560.9	51.5	49.0
90°-180°	5897.0	66.6	63.4
0°-180°	8858.8	100.0	95.3

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1062	1062	1062	1062	1062	
5°	1062	1061	1054	1059	1056	101
15°	1018	1018	1013	1018	1016	287
25°	932	935	931	941	942	430
35°	817	821	827	828	824	512
45°	677	687	688	690	688	525
55°	527	539	537	533	529	472
65°	365	376	369	364	361	360
75°	191	197	194	188	187	202
85°	35	42	41	40	39	44
90°	8	22	20	14	11	9
95°	90	153	159	159	161	103
105°	366	526	520	518	520	385
115°	647	821	915	906	908	644
125°	918	1043	1224	1280	1280	820
135°	1155	1235	1378	1503	1536	890
145°	1355	1402	1489	1574	1606	846
155°	1499	1529	1559	1614	1628	691
165°	1592	1602	1612	1635	1637	450
175°	1632	1633	1624	1635	1634	155
180°	1631	1631	1631	1631	1631	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1062	1062	1062	1062	1062
2.5°	1066	1064	1057	1063	1059
5°	1062	1061	1054	1059	1056
7.5°	1056	1054	1048	1053	1050
10°	1046	1045	1039	1044	1041
12.5°	1034	1033	1027	1033	1029
15°	1018	1018	1013	1018	1016
17.5°	1000	1000	995	1000	998
20°	982	980	975	981	978
22.5°	957	958	954	962	963
25°	932	935	931	941	942
27.5°	907	911	906	918	916
30°	880	881	882	889	885
32.5°	848	853	855	860	858
35°	817	821	827	828	824
37.5°	789	790	795	794	792
40°	754	757	760	762	758
42.5°	716	723	724	728	726
45°	677	687	688	690	688
47.5°	646	655	655	653	648
50°	608	618	616	614	613
52.5°	566	579	577	575	571
55°	527	539	537	533	529
57.5°	487	501	498	492	490
60°	450	458	456	453	447
62.5°	406	414	413	407	404
65°	365	376	369	364	361
67.5°	320	328	325	322	317
70°	279	286	282	275	273
72.5°	233	238	237	233	229
75°	191	197	194	188	187
77.5°	149	152	151	146	143
80°	104	111	110	108	104
82.5°	71	76	71	72	71
85°	35	42	41	40	39
87.5°	11	18	19	19	18
90°	8	22	20	14	11
92.5°	42	77	84	87	83
95°	90	153	159	159	161
97.5°	158	243	244	245	243
100°	221	329	332	332	328
102.5°	290	435	423	420	421
105°	366	526	520	518	520
107.5°	435	608	615	616	609
110°	514	695	717	712	709



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	582	762	812	812	802
115°	647	821	915	906	908
117.5°	722	878	1006	1006	999
120°	787	932	1086	1104	1106
122.5°	856	986	1159	1198	1194
125°	918	1043	1224	1280	1280
127.5°	979	1095	1271	1352	1359
130°	1040	1141	1312	1413	1428
132.5°	1098	1190	1347	1466	1483
135°	1155	1235	1378	1503	1536
137.5°	1208	1279	1408	1526	1566
140°	1259	1323	1436	1547	1579
142.5°	1307	1366	1466	1564	1596
145°	1355	1402	1489	1574	1606
147.5°	1394	1439	1512	1589	1610
150°	1431	1472	1529	1600	1620
152.5°	1466	1506	1546	1608	1627
155°	1499	1529	1559	1614	1628
157.5°	1527	1551	1576	1618	1631
160°	1552	1572	1589	1620	1630
162.5°	1576	1589	1604	1628	1633
165°	1592	1602	1612	1635	1637
167.5°	1607	1613	1618	1641	1642
170°	1619	1623	1620	1639	1641
172.5°	1624	1630	1623	1638	1637
175°	1632	1633	1624	1635	1634
177.5°	1634	1634	1625	1635	1632
180°	1631	1631	1631	1631	1631

(END OF REPORT)