

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: P31986

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P31986
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-SL-3T8-1C-UNV-4
Description: CORELITE 4' SUSPENDED FLUORESCENT FIXTURE WITH SPECULAR 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

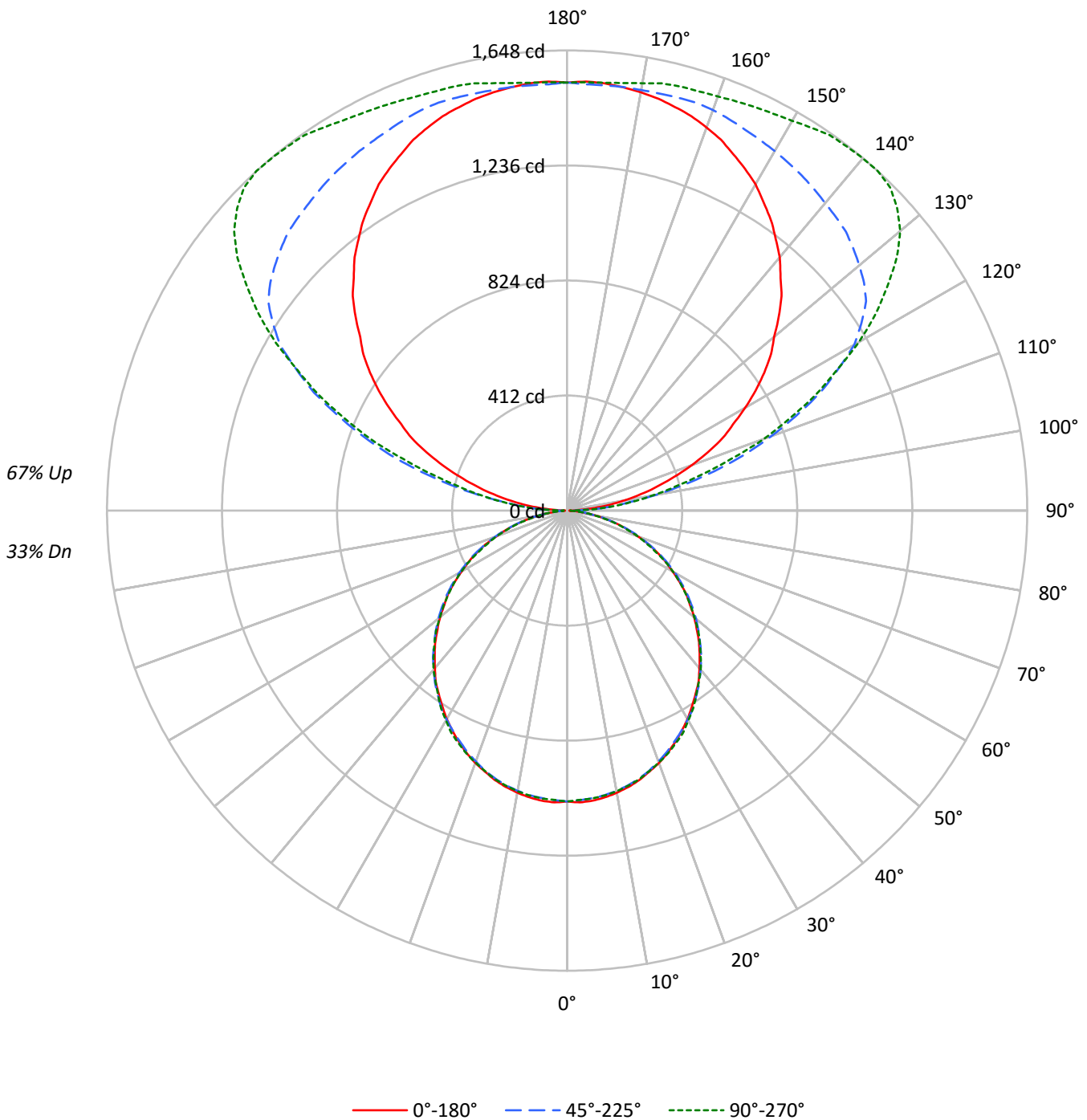
Lumens per Lamp: 3100 (3 lamps)
Luminaire Lumens: 8845.3 lumens
Efficiency: 95.1%
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular (W 0.33' x L: 3.58' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 83.3
Input Voltage (V): 120.07
Input Current (Ain): 0.6967
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	88	88	88	88	70	70	70	54	54	54	38	38	38	31
1	89	85	82	78	80	77	74	71	61	59	57	47	46	44	34	33	32	26
2	81	74	69	64	73	67	62	58	54	50	47	41	39	37	30	28	27	22
3	74	65	58	53	66	59	53	48	47	43	40	36	33	31	26	24	23	18
4	68	58	50	45	61	52	46	41	42	37	34	32	29	26	23	21	20	16
5	62	51	44	38	55	46	40	35	37	32	29	29	25	23	21	19	17	14
6	57	46	38	33	51	41	35	30	33	29	25	26	22	20	19	17	15	12
7	52	41	34	29	47	37	31	26	30	25	22	23	20	17	17	15	13	10
8	49	37	30	25	44	34	28	23	27	23	19	21	18	15	16	13	12	9
9	45	34	27	22	41	31	25	20	25	20	17	20	16	14	15	12	11	8
10	42	31	24	20	38	28	22	18	23	18	15	18	15	12	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9390	9390	9390
5°	9435	9354	9363
10°	9389	9325	9343
15°	9320	9274	9292
20°	9226	9168	9206
25°	9098	9058	9148
30°	8970	8991	9032
35°	8823	8878	8867
40°	8670	8741	8752
45°	8513	8590	8564
50°	8328	8440	8342
55°	8186	8264	8123
60°	7858	8038	7894
65°	7612	7719	7463
70°	7088	7272	7088
75°	6476	6581	6337
80°	5449	5553	5293
85°	3516	4343	4032



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	98.6	1.1	1.1
10°-20°	281.0	3.2	3.0
20°-30°	422.5	4.8	4.5
30°-40°	504.8	5.7	5.4
40°-50°	519.3	5.9	5.6
50°-60°	467.3	5.3	5.0
60°-70°	354.6	4.0	3.8
70°-80°	198.3	2.2	2.1
80°-90°	51.0	0.6	0.5
90°-100°	162.3	1.8	1.7
100°-110°	539.7	6.1	5.8
110°-120°	895.3	10.1	9.6
120°-130°	1083.6	12.3	11.7
130°-140°	1069.9	12.1	11.5
140°-150°	918.7	10.4	9.9
150°-160°	697.3	7.9	7.5
160°-170°	434.5	4.9	4.7
170°-180°	146.6	1.7	1.6
0°-30°	802.1	9.1	8.6
0°-40°	1306.9	14.8	14.1
0°-60°	2293.4	25.9	24.7
0°-90°	2897.3	32.8	31.2
90°-120°	1597.3	18.1	17.2
90°-150°	4669.5	52.8	50.2
90°-180°	5948.0	67.2	64.0
0°-180°	8845.3	100.0	95.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1042	1042	1042	1042	1042	
5°	1043	1041	1034	1039	1035	99
15°	999	998	994	998	996	282
25°	915	917	911	922	920	422
35°	802	805	807	809	806	502
45°	668	674	674	675	672	515
55°	521	527	526	522	517	462
65°	357	364	362	355	350	352
75°	186	190	189	185	182	197
85°	34	41	42	39	39	44
90°	8	21	18	14	12	9
95°	86	146	151	150	156	96
105°	336	566	545	513	501	356
115°	615	849	1000	991	983	603
125°	862	1034	1307	1399	1400	768
135°	1086	1197	1412	1586	1636	834
145°	1272	1348	1465	1594	1641	795
155°	1408	1451	1506	1572	1594	650
165°	1496	1510	1531	1567	1572	423
175°	1536	1536	1529	1541	1538	146
180°	1533	1533	1533	1533	1533	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1042	1042	1042	1042	1042
2.5°	1046	1044	1038	1042	1037
5°	1043	1041	1034	1039	1035
7.5°	1036	1034	1028	1033	1029
10°	1026	1025	1019	1024	1021
12.5°	1014	1013	1008	1012	1009
15°	999	998	994	998	996
17.5°	980	979	977	981	978
20°	962	961	956	961	960
22.5°	940	940	935	941	942
25°	915	917	911	922	920
27.5°	889	892	888	899	898
30°	862	863	864	871	868
32.5°	832	836	839	842	840
35°	802	805	807	809	806
37.5°	773	772	777	778	774
40°	737	742	743	744	744
42.5°	702	707	711	711	708
45°	668	674	674	675	672
47.5°	630	639	638	637	637
50°	594	604	602	600	595
52.5°	554	567	564	559	557
55°	521	527	526	522	517
57.5°	478	488	486	481	479
60°	436	447	446	438	438
62.5°	398	407	404	397	396
65°	357	364	362	355	350
67.5°	316	321	317	313	307
70°	269	279	276	270	269
72.5°	229	235	232	227	223
75°	186	190	189	185	182
77.5°	144	150	147	143	140
80°	105	108	107	105	102
82.5°	68	74	70	68	69
85°	34	41	42	39	39
87.5°	12	18	18	17	17
90°	8	21	18	14	12
92.5°	35	71	79	80	80
95°	86	146	151	150	156
97.5°	148	240	222	230	229
100°	206	353	320	306	311
102.5°	270	455	427	406	395
105°	336	566	545	513	501
107.5°	403	655	665	637	617
110°	475	732	777	755	750



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	544	797	888	872	863
115°	615	849	1000	991	983
117.5°	670	901	1093	1099	1089
120°	736	945	1187	1212	1206
122.5°	800	990	1250	1310	1310
125°	862	1034	1307	1399	1400
127.5°	920	1074	1340	1474	1488
130°	968	1118	1366	1527	1557
132.5°	1028	1158	1390	1565	1603
135°	1086	1197	1412	1586	1636
137.5°	1131	1239	1425	1591	1648
140°	1184	1276	1438	1595	1647
142.5°	1227	1313	1452	1601	1644
145°	1272	1348	1465	1594	1641
147.5°	1309	1381	1476	1586	1626
150°	1349	1408	1487	1581	1612
152.5°	1380	1432	1496	1577	1602
155°	1408	1451	1506	1572	1594
157.5°	1438	1469	1517	1569	1586
160°	1460	1484	1527	1567	1578
162.5°	1481	1497	1532	1568	1574
165°	1496	1510	1531	1567	1572
167.5°	1511	1520	1530	1561	1567
170°	1521	1528	1529	1551	1554
172.5°	1529	1533	1530	1545	1544
175°	1536	1536	1529	1541	1538
177.5°	1538	1538	1528	1538	1535
180°	1533	1533	1533	1533	1533

(END OF REPORT)