

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: P32010

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P32010
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-SL-1T8-1C-UNV-4
Description: CORELITE 4' SUSPENDED FLUORESCENT FIXTURE WITH SPECULAR UPPER REFLECTOR AND FROSTED LENS
Light Source: (1) DOUBLE ENDED BIPIN T8 LINEAR FLUORESCENT LAMPS 3500K
GE F32T8-XL-SP35-HL-ECO
Ballast/Driver: (1) ADVANCE OPTANIUM ELECTRONIC BALLAST
IOP-2P32-LW-N

Summary

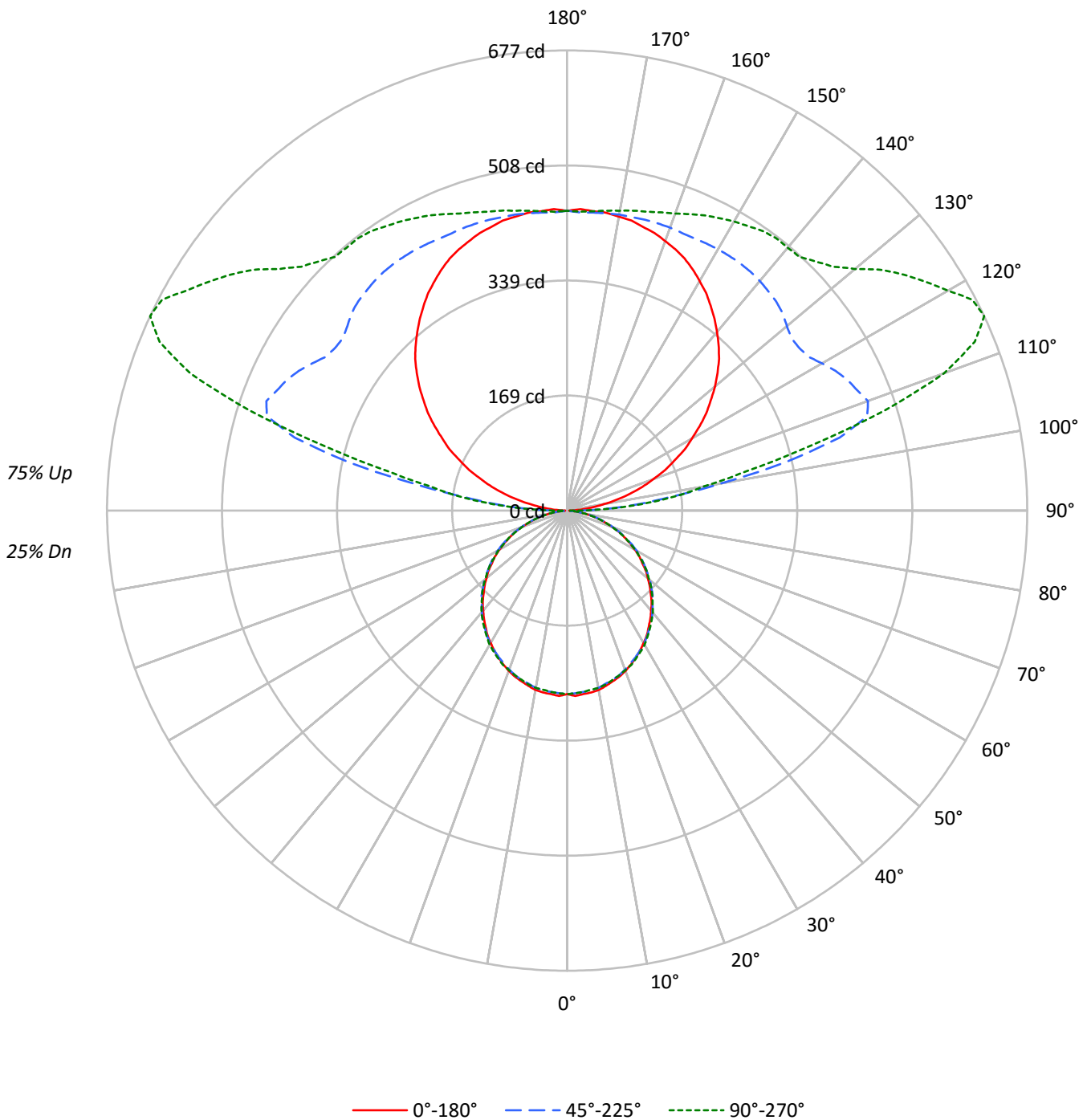
Lumens per Lamp: 3100 (1 lamp)
Luminaire Lumens: 2997.2 lumens
Efficiency: 96.7%
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.33' x L: 3.58' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 36.9
Input Voltage (V): 120.05
Input Current (Ain): 0.3093
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	87	87	87	87	67	67	67	49	49	49	32	32	32	25
1	89	85	81	78	79	76	73	70	59	57	55	43	42	41	28	28	27	21
2	81	74	68	64	72	66	61	57	51	48	45	38	36	34	25	24	23	17
3	74	65	58	53	66	58	52	48	45	41	38	33	31	28	22	21	19	14
4	67	57	50	44	60	51	45	40	40	36	32	29	27	24	20	18	16	12
5	62	51	43	38	55	46	39	34	36	31	27	26	23	21	18	16	14	11
6	57	45	38	33	50	41	34	30	32	27	24	24	20	18	16	14	12	9
7	52	41	33	28	46	37	30	26	29	24	21	21	18	16	14	13	11	8
8	48	37	30	25	43	33	27	23	26	22	18	19	16	14	13	11	10	7
9	45	34	27	22	40	30	24	20	24	19	16	18	15	12	12	10	9	7
10	42	31	24	19	37	28	22	18	22	17	14	16	13	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2433	2433	2433
5°	2451	2424	2424
10°	2452	2425	2425
15°	2426	2407	2407
20°	2407	2388	2398
25°	2376	2366	2386
30°	2341	2352	2373
35°	2299	2321	2332
40°	2259	2294	2306
45°	2218	2269	2256
50°	2173	2229	2201
55°	2121	2168	2168
60°	2073	2127	2091
65°	1983	2026	2004
70°	1871	1897	1844
75°	1706	1741	1706
80°	1401	1505	1401
85°	931	1137	931



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	25.6	0.9	0.8
10°-20°	73.1	2.4	2.4
20°-30°	110.3	3.7	3.6
30°-40°	132.2	4.4	4.3
40°-50°	136.3	4.5	4.4
50°-60°	123.2	4.1	4.0
60°-70°	93.7	3.1	3.0
70°-80°	52.4	1.7	1.7
80°-90°	14.5	0.5	0.5
90°-100°	107.3	3.6	3.5
100°-110°	330.6	11.0	10.7
110°-120°	433.7	14.5	14.0
120°-130°	385.2	12.9	12.4
130°-140°	329.7	11.0	10.6
140°-150°	275.8	9.2	8.9
150°-160°	205.5	6.9	6.6
160°-170°	125.9	4.2	4.1
170°-180°	42.3	1.4	1.4
0°-30°	208.9	7.0	6.7
0°-40°	341.1	11.4	11.0
0°-60°	600.6	20.0	19.4
0°-90°	761.2	25.4	24.6
90°-120°	871.6	29.1	28.1
90°-150°	1862.3	62.1	60.1
90°-180°	2236.0	74.6	72.1
0°-180°	2997.2	100.0	96.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	270	270	270	270	270	
5°	271	270	268	269	268	26
15°	260	259	258	259	258	73
25°	239	239	238	241	240	110
35°	209	210	211	212	212	131
45°	174	176	178	178	177	134
55°	135	139	138	138	138	121
65°	93	96	95	94	94	92
75°	49	50	50	49	49	51
85°	9	11	11	11	9	11
90°	3	15	14	9	9	3
95°	24	98	101	109	110	26
105°	96	232	415	390	373	101
115°	174	269	455	627	677	173
125°	250	319	417	552	605	223
135°	316	358	435	489	518	243
145°	368	394	444	487	502	230
155°	409	421	442	470	479	188
165°	432	437	443	454	455	122
175°	442	442	440	444	442	42
180°	441	441	441	441	441	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	270	270	270	270	270
2.5°	273	271	269	270	269
5°	271	270	268	269	268
7.5°	270	269	267	268	266
10°	268	266	265	266	265
12.5°	264	263	261	263	262
15°	260	259	258	259	258
17.5°	256	255	254	256	254
20°	251	250	249	251	250
22.5°	245	245	243	246	246
25°	239	239	238	241	240
27.5°	232	233	232	235	234
30°	225	225	226	228	228
32.5°	218	218	219	221	220
35°	209	210	211	212	212
37.5°	201	202	204	205	204
40°	192	193	195	196	196
42.5°	184	185	186	187	186
45°	174	176	178	178	177
47.5°	165	167	168	168	168
50°	155	158	159	158	157
52.5°	146	148	148	148	148
55°	135	139	138	138	138
57.5°	126	129	129	127	126
60°	115	118	118	117	116
62.5°	104	107	107	105	104
65°	93	96	95	94	94
67.5°	83	85	84	83	82
70°	71	74	72	72	70
72.5°	59	62	61	60	60
75°	49	50	50	49	49
77.5°	37	40	39	38	38
80°	27	29	29	27	27
82.5°	18	19	19	18	18
85°	9	11	11	11	9
87.5°	3	6	5	4	4
90°	3	15	14	9	9
92.5°	10	49	57	63	61
95°	24	98	101	109	110
97.5°	38	175	153	157	161
100°	56	215	229	207	204
102.5°	76	225	329	289	273
105°	96	232	415	390	373
107.5°	116	236	463	502	490
110°	134	243	471	583	590



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	156	254	462	622	649
115°	174	269	455	627	677
117.5°	195	283	445	610	672
120°	212	297	433	591	647
122.5°	231	309	421	573	626
125°	250	319	417	552	605
127.5°	266	330	416	530	582
130°	284	340	422	509	553
132.5°	300	349	430	498	531
135°	316	358	435	489	518
137.5°	330	367	438	489	506
140°	343	376	441	491	505
142.5°	356	384	443	490	505
145°	368	394	444	487	502
147.5°	380	402	444	484	496
150°	390	409	444	480	491
152.5°	400	415	443	476	485
155°	409	421	442	470	479
157.5°	416	426	442	465	472
160°	422	430	443	460	465
162.5°	428	434	443	456	460
165°	432	437	443	454	455
167.5°	437	439	442	451	452
170°	439	441	442	449	448
172.5°	442	442	441	446	445
175°	442	442	440	444	442
177.5°	444	443	439	443	440
180°	441	441	441	441	441

(END OF REPORT)