

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: P32009

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P32009
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-1T8-1C-UNV-4
Description: CORELITE 4' SUSPENDED FLUORESCENT FIXTURE WITH WHITE PAINTED
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: 2995.7 lumens
Efficiency: 96.6%
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.33' x L: 3.58' x H: 0')
CIE Type: Semi-Indirect

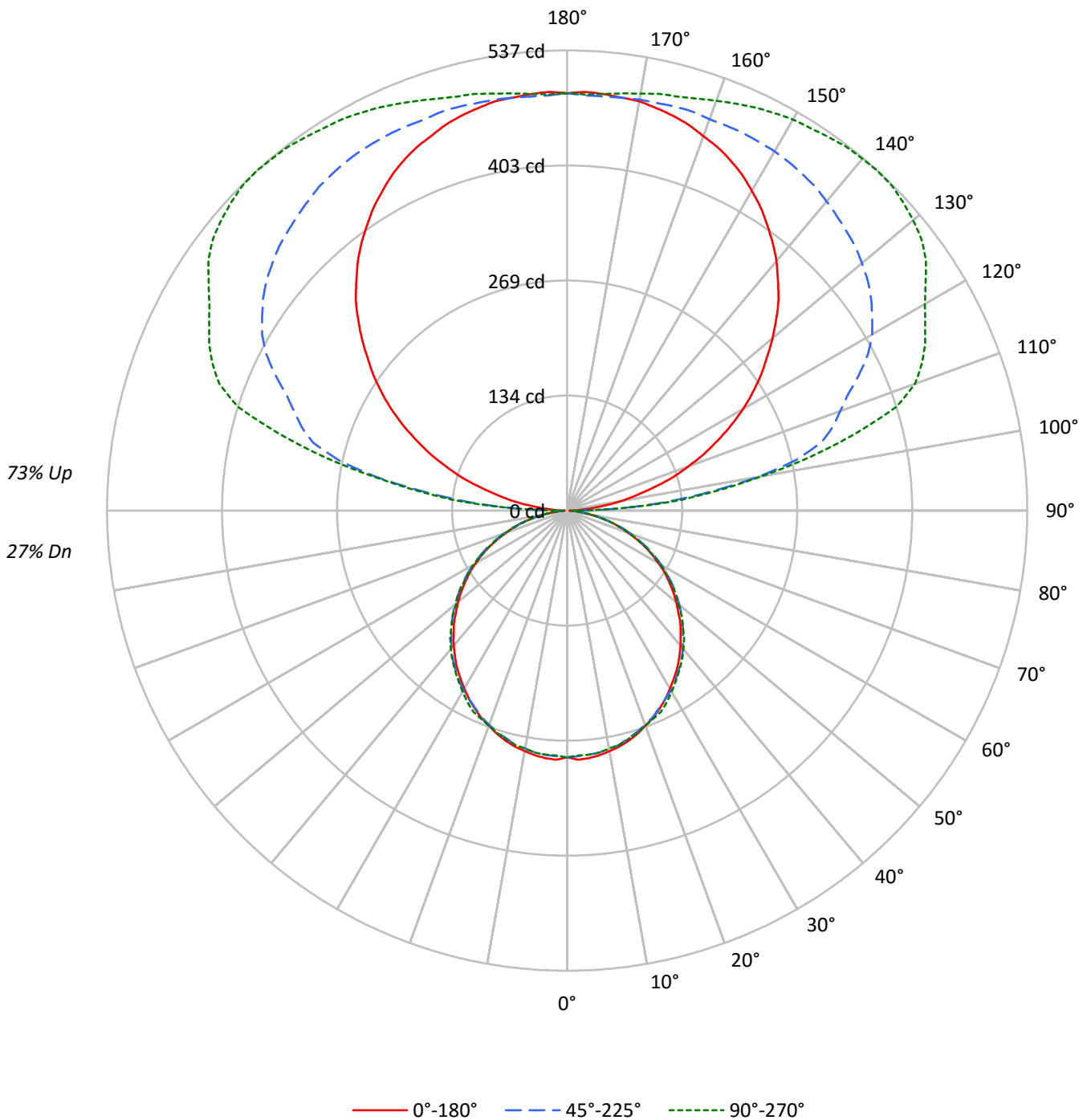
Input Watts (W): 36.9
Input Voltage (V): 120.05
Input Current (A_{in}): 0.3096
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	50	30	10	50	30	10	0														
RCR																																						
0	98	98	98	98	88	88	88	88	68	68	68	51	51	51	34	34	34	26																				
1	90	85	82	78	80	76	73	71	60	58	56	44	43	42	30	29	29	22																				
2	81	74	69	64	72	67	62	58	52	49	46	39	37	35	26	25	24	18																				
3	74	65	58	53	66	59	53	48	46	42	38	34	31	29	23	22	20	15																				
4	68	58	50	45	60	52	45	41	41	36	33	30	27	25	21	19	17	13																				
5	62	51	44	38	55	46	39	35	36	31	28	27	24	21	19	17	15	11																				
6	57	46	38	33	51	41	35	30	32	28	24	24	21	19	17	15	13	10																				
7	53	41	34	28	47	37	31	26	29	25	21	22	19	16	15	13	12	9																				
8	49	37	30	25	43	33	27	23	27	22	19	20	17	14	14	12	10	8																				
9	45	34	27	22	40	30	24	20	24	20	16	18	15	13	13	11	9	7																				
10	42	31	24	20	38	28	22	18	22	18	15	17	14	12	12	10	8	6																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2595	2595	2595
5°	2623	2587	2587
10°	2608	2580	2580
15°	2594	2566	2575
20°	2561	2551	2561
25°	2536	2526	2575
30°	2497	2518	2539
35°	2464	2497	2508
40°	2423	2470	2482
45°	2383	2434	2434
50°	2327	2397	2369
55°	2278	2357	2325
60°	2217	2289	2271
65°	2132	2196	2154
70°	2002	2082	2055
75°	1845	1880	1845
80°	1505	1609	1557
85°	1137	1241	1034



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	27.3	0.9	0.9
10°-20°	78.0	2.6	2.5
20°-30°	118.0	3.9	3.8
30°-40°	141.9	4.7	4.6
40°-50°	146.7	4.9	4.7
50°-60°	132.7	4.4	4.3
60°-70°	101.1	3.4	3.3
70°-80°	57.0	1.9	1.8
80°-90°	15.7	0.5	0.5
90°-100°	112.2	3.7	3.6
100°-110°	282.4	9.4	9.1
110°-120°	353.4	11.8	11.4
120°-130°	370.8	12.4	12.0
130°-140°	349.9	11.7	11.3
140°-150°	298.2	10.0	9.6
150°-160°	225.0	7.5	7.3
160°-170°	138.6	4.6	4.5
170°-180°	46.6	1.6	1.5
0°-30°	223.3	7.5	7.2
0°-40°	365.2	12.2	11.8
0°-60°	644.6	21.5	20.8
0°-90°	818.4	27.3	26.4
90°-120°	748.1	25.0	24.1
90°-150°	1767.0	59.0	57.0
90°-180°	2177.0	72.7	70.2
0°-180°	2995.7	100.0	96.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	288	288	288	288	288	
5°	290	288	286	287	286	28
15°	278	277	275	277	276	78
25°	255	255	254	258	259	117
35°	224	225	227	229	228	140
45°	187	189	191	192	191	144
55°	145	149	150	149	148	130
65°	100	103	103	102	101	99
75°	53	54	54	53	53	56
85°	11	12	12	11	10	13
90°	3	17	13	10	8	3
95°	25	106	115	121	126	29
105°	105	212	307	345	349	112
115°	194	286	376	438	461	192
125°	276	341	433	493	511	247
135°	349	392	461	518	536	269
145°	407	433	479	519	532	255
155°	451	464	486	512	519	208
165°	477	482	488	499	500	135
175°	488	488	485	490	488	46
180°	487	487	487	487	487	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	288	288	288	288	288
2.5°	291	289	287	288	286
5°	290	288	286	287	286
7.5°	288	287	285	286	285
10°	285	284	282	284	282
12.5°	282	281	280	281	280
15°	278	277	275	277	276
17.5°	273	272	271	273	272
20°	267	267	266	268	267
22.5°	262	261	261	264	263
25°	255	255	254	258	259
27.5°	248	248	248	252	252
30°	240	241	242	245	244
32.5°	232	234	235	237	236
35°	224	225	227	229	228
37.5°	215	216	219	220	220
40°	206	208	210	212	211
42.5°	196	198	200	202	202
45°	187	189	191	192	191
47.5°	176	179	181	182	181
50°	166	170	171	171	169
52.5°	156	160	160	160	160
55°	145	149	150	149	148
57.5°	135	137	138	138	137
60°	123	126	127	127	126
62.5°	112	115	115	114	113
65°	100	103	103	102	101
67.5°	88	92	91	90	89
70°	76	79	79	78	78
72.5°	65	67	67	66	64
75°	53	54	54	53	53
77.5°	41	43	42	42	41
80°	29	32	31	30	30
82.5°	19	21	20	20	19
85°	11	12	12	11	10
87.5°	4	6	6	5	5
90°	3	17	13	10	8
92.5°	13	55	63	68	62
95°	25	106	115	121	126
97.5°	43	145	169	176	175
100°	64	168	226	232	230
102.5°	83	189	274	289	292
105°	105	212	307	345	349
107.5°	129	234	325	390	403
110°	150	255	339	410	432



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	173	273	355	425	448
115°	194	286	376	438	461
117.5°	216	301	396	449	471
120°	237	315	411	464	482
122.5°	257	328	422	480	496
125°	276	341	433	493	511
127.5°	294	354	442	503	521
130°	313	368	449	509	527
132.5°	331	379	456	514	532
135°	349	392	461	518	536
137.5°	364	402	466	519	537
140°	380	413	471	521	536
142.5°	394	424	476	521	535
145°	407	433	479	519	532
147.5°	420	442	482	518	529
150°	431	451	484	517	527
152.5°	442	458	485	515	523
155°	451	464	486	512	519
157.5°	459	470	486	508	514
160°	465	474	486	505	509
162.5°	472	478	488	502	504
165°	477	482	488	499	500
167.5°	481	484	487	497	498
170°	485	486	487	494	494
172.5°	486	487	486	492	491
175°	488	488	485	490	488
177.5°	489	489	485	488	486
180°	487	487	487	487	487

(END OF REPORT)