

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: P32061

Luminaire Tested: **J2-WL-3N5-1C-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P32061
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-3N5-1C-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 F28W/T5/835/ECO
Ballast/Driver: (2) UNIVERSAL ACCUSTART ELECTRONIC BALLAST
B228PUNV90-C

Summary

Lumens per Lamp: 2900 (3 lamps)
Luminaire Lumens: 8200.4 lumens
Efficiency: 94.3%
Efficacy: 96.4 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

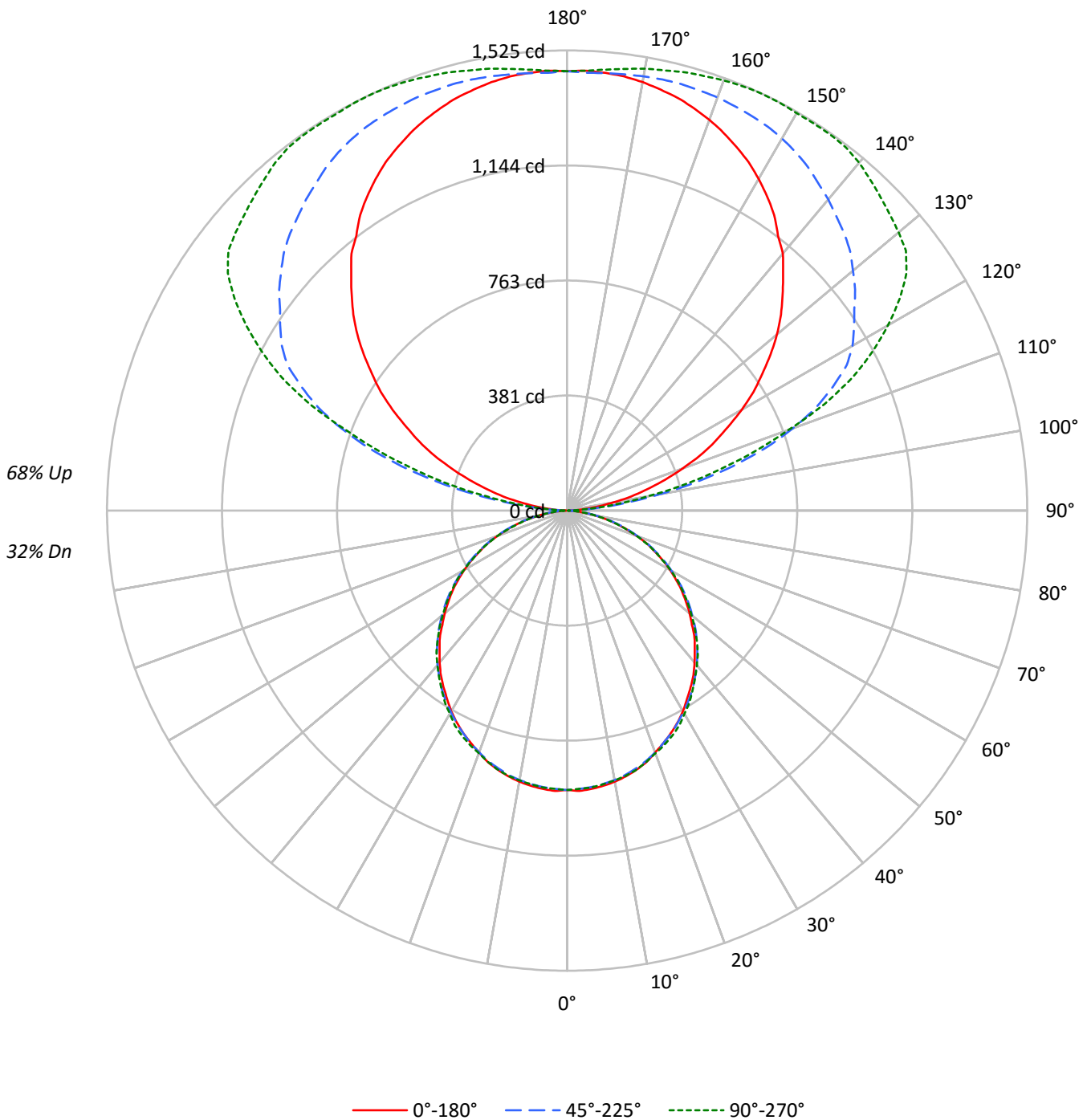
Input Watts (W): 85.1
Input Voltage (V): 120.00
Input Current (Ain): 0.7102
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	97	97	97	87	87	87	87	69	69	69	52	52	52	37	37	37	30
1	88	84	81	77	79	76	73	70	60	58	56	46	45	43	33	32	31	25
2	80	73	68	63	72	66	61	57	53	49	46	40	38	36	29	27	26	21
3	73	64	58	52	65	58	52	48	46	42	39	35	33	30	25	24	22	18
4	67	57	50	44	60	51	45	40	41	37	33	31	28	26	22	21	19	15
5	61	50	43	37	55	46	39	34	37	32	28	28	25	22	20	18	16	13
6	56	45	38	32	50	41	34	30	33	28	24	25	22	19	18	16	14	11
7	52	41	33	28	46	37	30	26	30	25	21	23	20	17	17	14	13	10
8	48	37	30	25	43	33	27	23	27	22	19	21	18	15	15	13	11	9
9	45	33	27	22	40	30	24	20	25	20	17	19	16	13	14	12	10	8
10	42	30	24	19	37	28	22	18	23	18	15	18	14	12	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8345	8345	8345
5°	8377	8322	8331
10°	8345	8300	8309
15°	8294	8247	8294
20°	8180	8180	8209
25°	8094	8104	8193
30°	7992	8023	8096
35°	7855	7965	7976
40°	7729	7858	7870
45°	7608	7736	7736
50°	7430	7599	7543
55°	7290	7447	7369
60°	7101	7209	7155
65°	6823	6930	6866
70°	6455	6561	6482
75°	5884	6058	5780
80°	4930	5242	4982
85°	3516	4136	3619



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	87.7	1.1	1.0
10°-20°	250.3	3.1	2.9
20°-30°	377.0	4.6	4.3
30°-40°	451.6	5.5	5.2
40°-50°	466.4	5.7	5.4
50°-60°	421.2	5.1	4.8
60°-70°	320.8	3.9	3.7
70°-80°	181.9	2.2	2.1
80°-90°	47.0	0.6	0.5
90°-100°	122.2	1.5	1.4
100°-110°	528.3	6.4	6.1
110°-120°	870.9	10.6	10.0
120°-130°	1008.5	12.3	11.6
130°-140°	984.7	12.0	11.3
140°-150°	863.3	10.5	9.9
150°-160°	664.7	8.1	7.6
160°-170°	414.3	5.1	4.8
170°-180°	139.6	1.7	1.6
0°-30°	714.9	8.7	8.2
0°-40°	1166.6	14.2	13.4
0°-60°	2054.2	25.0	23.6
0°-90°	2603.9	31.8	29.9
90°-120°	1521.4	18.6	17.5
90°-150°	4377.9	53.4	50.3
90°-180°	5596.0	68.2	64.3
0°-180°	8200.4	100.0	94.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	926	925	920	924	921	88
15°	889	886	884	890	889	251
25°	814	816	815	824	824	375
35°	714	718	724	727	725	447
45°	597	602	607	608	607	459
55°	464	473	474	471	469	414
65°	320	328	325	321	322	318
75°	169	175	174	171	166	179
85°	34	40	40	38	35	41
90°	3	9	6	3	2	5
95°	55	117	103	83	80	66
105°	276	519	567	535	518	294
115°	541	751	972	1037	1043	533
125°	789	950	1162	1332	1373	706
135°	1010	1134	1299	1426	1469	780
145°	1196	1277	1391	1485	1521	747
155°	1329	1379	1444	1507	1525	613
165°	1416	1435	1463	1496	1504	400
175°	1456	1458	1455	1468	1467	139
180°	1456	1456	1456	1456	1456	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	926	926	926	926	926
2.5°	930	928	923	927	923
5°	926	925	920	924	921
7.5°	920	919	914	919	915
10°	912	911	907	911	908
12.5°	902	900	897	902	900
15°	889	886	884	890	889
17.5°	874	872	870	877	873
20°	853	854	853	858	856
22.5°	834	836	834	840	841
25°	814	816	815	824	824
27.5°	792	794	793	804	804
30°	768	771	771	782	778
32.5°	740	744	748	754	754
35°	714	718	724	727	725
37.5°	688	691	696	697	697
40°	657	661	668	669	669
42.5°	626	632	639	640	641
45°	597	602	607	608	607
47.5°	561	572	576	575	573
50°	530	541	542	541	538
52.5°	496	508	508	509	504
55°	464	473	474	471	469
57.5°	429	439	438	437	436
60°	394	401	400	401	397
62.5°	358	365	363	362	357
65°	320	328	325	321	322
67.5°	286	290	289	284	284
70°	245	253	249	247	246
72.5°	207	214	211	208	204
75°	169	175	174	171	166
77.5°	133	137	136	133	131
80°	95	103	101	98	96
82.5°	63	69	67	66	61
85°	34	40	40	38	35
87.5°	10	18	18	17	16
90°	3	9	6	3	2
92.5°	17	42	29	21	21
95°	55	117	103	83	80
97.5°	100	219	195	180	173
100°	156	337	312	287	272
102.5°	218	434	440	399	397
105°	276	519	567	535	518
107.5°	341	584	690	659	651
110°	406	638	796	798	781



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	476	695	893	921	924
115°	541	751	972	1037	1043
117.5°	600	806	1045	1125	1141
120°	668	853	1092	1206	1228
122.5°	732	903	1127	1279	1307
125°	789	950	1162	1332	1373
127.5°	849	997	1203	1361	1415
130°	908	1047	1237	1381	1434
132.5°	961	1091	1272	1404	1451
135°	1010	1134	1299	1426	1469
137.5°	1059	1172	1321	1448	1487
140°	1112	1210	1346	1469	1505
142.5°	1148	1245	1367	1479	1517
145°	1196	1277	1391	1485	1521
147.5°	1234	1308	1409	1491	1521
150°	1269	1333	1424	1499	1521
152.5°	1302	1357	1436	1504	1524
155°	1329	1379	1444	1507	1525
157.5°	1355	1398	1451	1507	1522
160°	1378	1412	1457	1505	1517
162.5°	1398	1425	1460	1501	1510
165°	1416	1435	1463	1496	1504
167.5°	1429	1444	1463	1491	1494
170°	1442	1451	1461	1485	1487
172.5°	1451	1455	1458	1476	1476
175°	1456	1458	1455	1468	1467
177.5°	1459	1459	1452	1461	1459
180°	1456	1456	1456	1456	1456

(END OF REPORT)