

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: P32022

Luminaire Tested: **J2-SL-3T5-1C-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P32022
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-SL-3T5-1C-UNV-4
Description: CORELITE 4' SUSPENDED FLUORESCENT FIXTURE WITH SPECULAR UPPER REFLECTOR AND FROSTED LENS
Light Source: (3) DOUBLE ENDED BIPIN T5 LINEAR FLUORESCENT LAMPS 3500K GE F54W/T5/835/ECO
Ballast/Driver: (2) SYLVANIA OPTANIUM ELECTRONIC BALLAST QHE2X5HO/UNV PSN

Summary

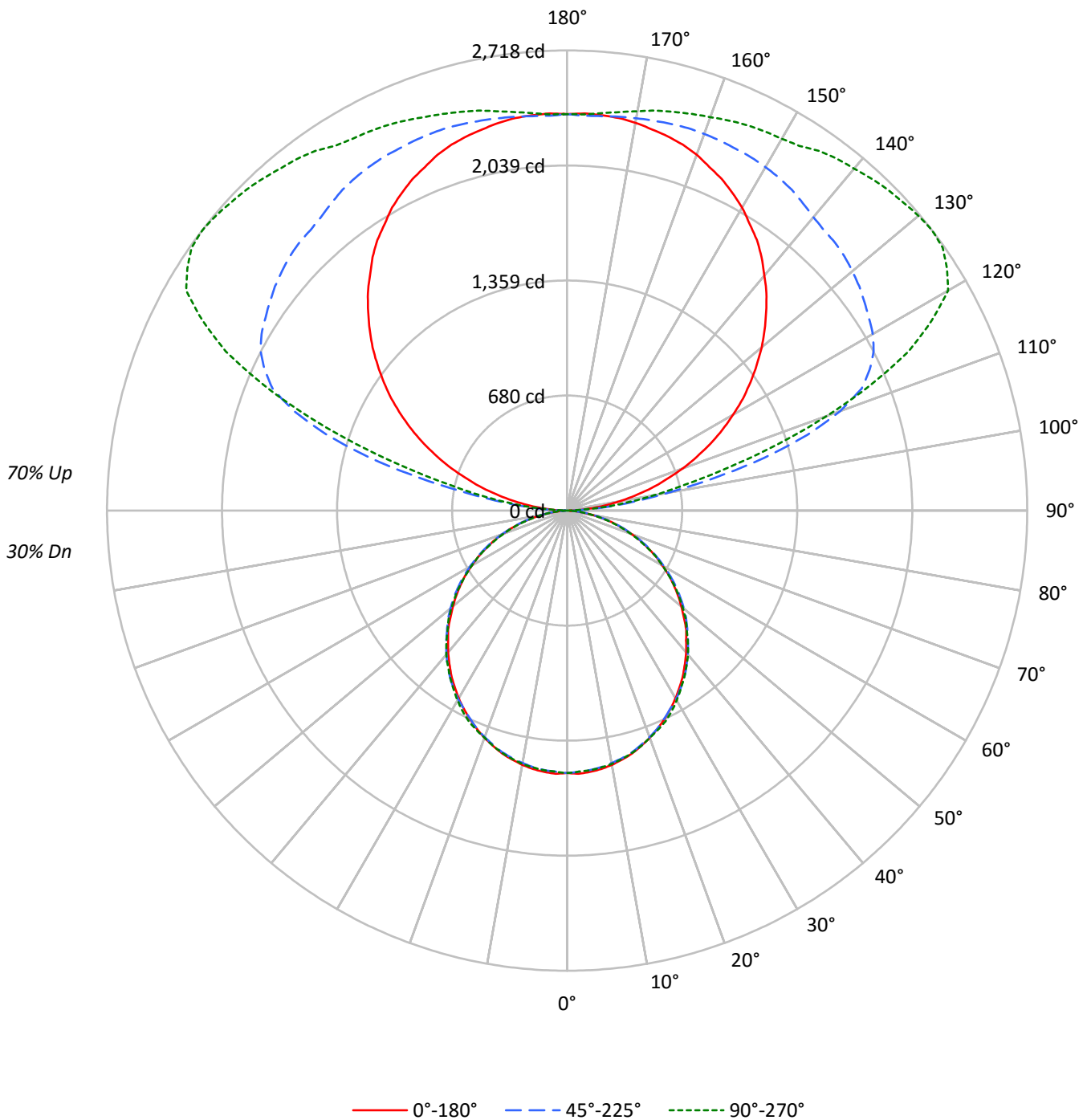
Lumens per Lamp: 5000 (3 lamps)
Luminaire Lumens: 14393.1 lumens
Efficiency: 96.0%
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular (W 0.33' x L: 3.58' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 184.1
Input Voltage (V): 120.01
Input Current (Ain): 1.529
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	69	69	69	52	52	52	36	36	36	29																				
1	89	85	82	79	80	77	74	71	61	58	57	46	44	43	32	31	30	24																				
2	81	74	69	64	73	67	62	58	53	50	47	40	38	36	28	27	25	20																				
3	74	65	58	53	66	59	53	48	47	42	39	35	32	30	25	23	22	17																				
4	68	58	50	45	60	52	46	41	41	37	33	31	28	26	22	20	18	14																				
5	62	51	44	38	55	46	40	35	37	32	28	28	25	22	20	18	16	12																				
6	57	46	38	33	51	41	35	30	33	28	25	25	22	19	18	16	14	11																				
7	53	41	34	29	47	37	31	26	30	25	22	23	19	17	16	14	12	10																				
8	49	37	30	25	44	34	27	23	27	22	19	21	17	15	15	13	11	9																				
9	45	34	27	22	40	31	25	20	25	20	17	19	16	13	14	12	10	8																				
10	42	31	24	20	38	28	22	18	23	18	15	18	14	12	13	11	9	7																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13968	13968	13968
5°	14021	13922	13931
10°	13955	13854	13900
15°	13854	13789	13826
20°	13695	13656	13685
25°	13513	13493	13662
30°	13319	13392	13475
35°	13113	13267	13245
40°	12870	13046	13070
45°	12668	12795	12732
50°	12337	12618	12492
55°	12082	12333	12161
60°	11715	11949	11733
65°	11301	11493	11195
70°	10724	10803	10513
75°	9819	9888	9471
80°	8148	8511	8096
85°	5583	6514	5583



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	146.6	1.0	1.0
10°-20°	418.2	2.9	2.8
20°-30°	628.7	4.4	4.2
30°-40°	751.6	5.2	5.0
40°-50°	773.6	5.4	5.2
50°-60°	697.1	4.8	4.6
60°-70°	529.4	3.7	3.5
70°-80°	297.7	2.1	2.0
80°-90°	75.5	0.5	0.5
90°-100°	259.6	1.8	1.7
100°-110°	1065.8	7.4	7.1
110°-120°	1745.4	12.1	11.6
120°-130°	1867.7	13.0	12.5
130°-140°	1712.6	11.9	11.4
140°-150°	1440.6	10.0	9.6
150°-160°	1087.6	7.6	7.3
160°-170°	670.7	4.7	4.5
170°-180°	224.6	1.6	1.5
0°-30°	1193.5	8.3	8.0
0°-40°	1945.0	13.5	13.0
0°-60°	3415.7	23.7	22.8
0°-90°	4318.4	30.0	28.8
90°-120°	3070.8	21.3	20.5
90°-150°	8091.7	56.2	53.9
90°-180°	10075.0	70.0	67.2
0°-180°	14393.1	100.0	96.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1550	1550	1550	1550	1550	
5°	1550	1548	1539	1544	1540	147
15°	1485	1485	1478	1486	1482	418
25°	1359	1362	1357	1372	1374	626
35°	1192	1199	1206	1205	1204	745
45°	994	1001	1004	1008	999	764
55°	769	787	785	777	774	687
65°	530	545	539	528	525	525
75°	282	291	284	276	272	296
85°	54	64	63	58	54	66
90°	13	23	7	4	3	14
95°	131	270	221	193	190	146
105°	519	1047	1204	1042	987	544
115°	933	1375	1972	2229	2224	921
125°	1321	1634	2145	2572	2708	1181
135°	1662	1888	2238	2564	2680	1283
145°	1953	2095	2313	2502	2593	1220
155°	2161	2243	2357	2477	2512	996
165°	2289	2317	2365	2424	2438	647
175°	2344	2346	2339	2359	2356	223
180°	2341	2341	2341	2341	2341	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1550	1550	1550	1550	1550
2.5°	1556	1553	1544	1550	1544
5°	1550	1548	1539	1544	1540
7.5°	1540	1538	1529	1535	1531
10°	1525	1524	1514	1522	1519
12.5°	1506	1507	1498	1506	1502
15°	1485	1485	1478	1486	1482
17.5°	1457	1461	1452	1462	1457
20°	1428	1430	1424	1433	1427
22.5°	1395	1400	1393	1400	1402
25°	1359	1362	1357	1372	1374
27.5°	1321	1324	1319	1339	1337
30°	1280	1285	1287	1299	1295
32.5°	1236	1241	1246	1253	1249
35°	1192	1199	1206	1205	1204
37.5°	1142	1152	1158	1158	1157
40°	1094	1103	1109	1110	1111
42.5°	1040	1051	1057	1060	1055
45°	994	1001	1004	1008	999
47.5°	936	950	955	953	949
50°	880	898	900	897	891
52.5°	826	846	843	837	833
55°	769	787	785	777	774
57.5°	713	729	724	718	710
60°	650	668	663	657	651
62.5°	593	606	600	595	593
65°	530	545	539	528	525
67.5°	470	481	475	469	461
70°	407	417	410	403	399
72.5°	343	354	347	336	336
75°	282	291	284	276	272
77.5°	215	227	220	215	210
80°	157	166	164	157	156
82.5°	101	111	110	103	102
85°	54	64	63	58	54
87.5°	19	29	28	26	22
90°	13	23	7	4	3
92.5°	55	115	75	46	30
95°	131	270	221	193	190
97.5°	220	510	385	350	344
100°	314	754	598	524	522
102.5°	409	932	892	744	718
105°	519	1047	1204	1042	987
107.5°	615	1139	1488	1357	1304
110°	725	1225	1714	1690	1632



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	828	1300	1883	1983	1943
115°	933	1375	1972	2229	2224
117.5°	1034	1441	2041	2398	2427
120°	1132	1500	2085	2485	2598
122.5°	1231	1564	2114	2541	2660
125°	1321	1634	2145	2572	2708
127.5°	1411	1701	2175	2577	2718
130°	1500	1767	2199	2572	2709
132.5°	1582	1829	2222	2571	2694
135°	1662	1888	2238	2564	2680
137.5°	1743	1944	2246	2554	2660
140°	1812	1998	2262	2545	2637
142.5°	1887	2048	2288	2528	2619
145°	1953	2095	2313	2502	2593
147.5°	2006	2139	2330	2493	2554
150°	2067	2180	2343	2490	2535
152.5°	2115	2212	2353	2486	2526
155°	2161	2243	2357	2477	2512
157.5°	2196	2268	2364	2464	2494
160°	2237	2287	2368	2450	2473
162.5°	2267	2305	2369	2437	2456
165°	2289	2317	2365	2424	2438
167.5°	2307	2330	2359	2411	2420
170°	2326	2337	2353	2390	2395
172.5°	2339	2343	2346	2373	2374
175°	2344	2346	2339	2359	2356
177.5°	2348	2345	2334	2349	2342
180°	2341	2341	2341	2341	2341

(END OF REPORT)