

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: P32033

Luminaire Tested: **J2-WL-2T5-1C-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P32033
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-2T5-1C-UNV-4
Description: CORELITE 4' SUSPENDED FLUORESCENT FIXTURE WITH WHITE PAINTED
UPPER REFLECTOR AND FROSTED LENS
Light Source: (2) DOUBLE ENDED BIPIN T5 LINEAR FLUORESCENT LAMPS 3500K
GE F54W/T5/835/ECO
Ballast/Driver: SYLVANIA OPTANIUM ELECTRONIC BALLAST
QHE2X5HO/UNV PSN

Summary

Lumens per Lamp: 5000 (2 lamps)
Luminaire Lumens: 9750.3 lumens
Efficiency: 97.5%
Efficacy: 80.1 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

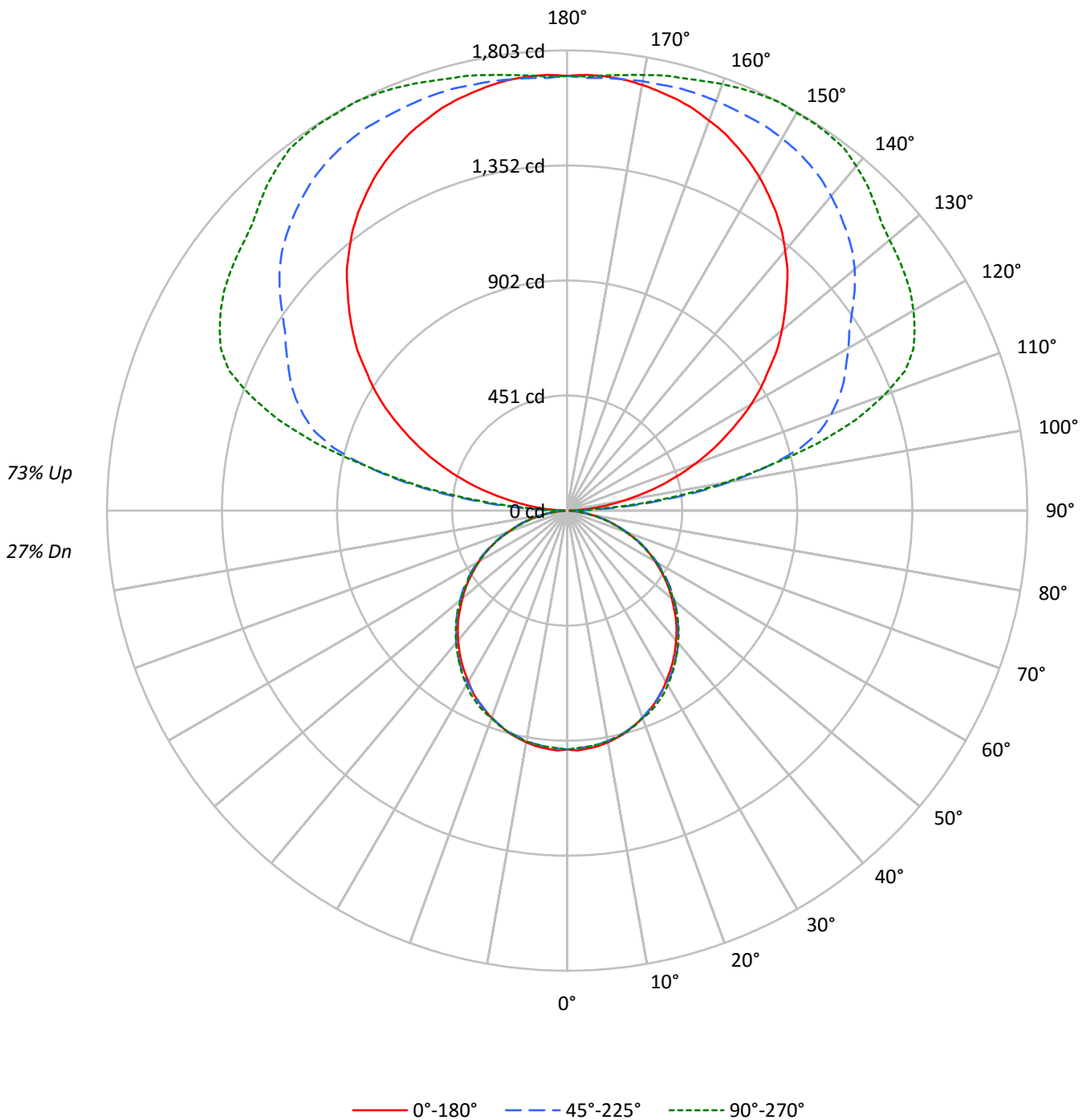
Input Watts (W): 121.8
Input Voltage (V): 120.01
Input Current (Ain): 1.016
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P32033

CATALOG NUMBER: J2-WL-2T5-1C-UNV-4

Luminous Intensity Polar Plot





TEST NUMBER: P32033

CATALOG NUMBER: J2-WL-2T5-1C-UNV-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	99	99	99	99	89	89	89	89	69	69	69	51	51	51	34	34	34	26						26													
1	90	86	82	79	80	77	74	71	60	58	56	44	43	42	30	29	29	22						22													
2	82	75	69	64	73	67	62	58	52	49	46	39	37	35	26	25	24	18						18													
3	75	66	59	53	66	59	53	48	46	42	39	34	32	29	23	22	20	15						15													
4	68	58	51	45	61	52	46	41	41	36	33	30	27	25	21	19	17	13						13													
5	63	52	44	38	56	46	40	35	36	32	28	27	24	21	19	17	15	11						11													
6	57	46	38	33	51	41	35	30	33	28	24	24	21	19	17	15	13	10						10													
7	53	41	34	29	47	37	31	26	29	25	21	22	19	16	15	13	12	9						9													
8	49	37	30	25	44	34	27	23	27	22	19	20	17	15	14	12	10	8						8													
9	46	34	27	22	41	31	25	20	24	20	17	18	15	13	13	11	9	7						7													
10	42	31	24	20	38	28	22	18	22	18	15	17	14	12	12	10	8	6						6													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8435	8435	8435
5°	8467	8404	8404
10°	8437	8391	8400
15°	8378	8350	8369
20°	8295	8276	8295
25°	8193	8183	8293
30°	8054	8116	8210
35°	7943	8064	8086
40°	7811	7964	7952
45°	7685	7800	7838
50°	7501	7697	7627
55°	7353	7541	7447
60°	7173	7354	7209
65°	6930	7058	6909
70°	6482	6613	6429
75°	5954	6163	5884
80°	5034	5293	5034
85°	3516	4136	3826



TEST NUMBER: P32033

CATALOG NUMBER: J2-WL-2T5-1C-UNV-4

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	88.6	0.9	0.9
10°-20°	253.0	2.6	2.5
20°-30°	381.4	3.9	3.8
30°-40°	457.4	4.7	4.6
40°-50°	471.9	4.8	4.7
50°-60°	426.2	4.4	4.3
60°-70°	325.0	3.3	3.3
70°-80°	183.9	1.9	1.8
80°-90°	49.7	0.5	0.5
90°-100°	287.6	2.9	2.9
100°-110°	857.8	8.8	8.6
110°-120°	1141.8	11.7	11.4
120°-130°	1202.9	12.3	12.0
130°-140°	1166.4	12.0	11.7
140°-150°	1024.5	10.5	10.2
150°-160°	783.8	8.0	7.8
160°-170°	485.3	5.0	4.9
170°-180°	163.1	1.7	1.6
0°-30°	723.0	7.4	7.2
0°-40°	1180.4	12.1	11.8
0°-60°	2078.5	21.3	20.8
0°-90°	2637.1	27.0	26.4
90°-120°	2287.1	23.5	22.9
90°-150°	5680.9	58.3	56.8
90°-180°	7113.0	73.0	71.1
0°-180°	9750.3	100.0	97.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	936	936	936	936	936	
5°	936	935	929	933	929	89
15°	898	898	895	899	897	253
25°	824	825	823	833	834	380
35°	722	726	733	736	735	452
45°	603	609	612	616	615	464
55°	468	481	480	477	474	418
65°	325	333	331	327	324	321
75°	171	178	177	172	169	181
85°	34	41	40	38	37	42
90°	10	31	13	6	6	10
95°	93	303	292	268	252	104
105°	378	655	946	1008	1013	399
115°	682	931	1196	1420	1497	676
125°	965	1169	1364	1544	1615	866
135°	1217	1362	1548	1670	1704	940
145°	1427	1513	1656	1760	1794	892
155°	1574	1626	1698	1777	1797	726
165°	1667	1685	1712	1746	1754	471
175°	1708	1707	1701	1712	1711	163
180°	1703	1703	1703	1703	1703	



TEST NUMBER: P32033

CATALOG NUMBER: J2-WL-2T5-1C-UNV-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	936	936	936	936	936
2.5°	941	938	933	935	931
5°	936	935	929	933	929
7.5°	931	930	924	927	924
10°	922	922	917	921	918
12.5°	911	911	906	911	909
15°	898	898	895	899	897
17.5°	881	883	880	885	883
20°	865	865	863	866	865
22.5°	845	846	843	850	853
25°	824	825	823	833	834
27.5°	802	804	800	815	814
30°	774	780	780	791	789
32.5°	749	754	759	764	763
35°	722	726	733	736	735
37.5°	694	700	706	707	706
40°	664	671	677	678	676
42.5°	635	640	644	649	646
45°	603	609	612	616	615
47.5°	568	580	583	582	580
50°	535	546	549	548	544
52.5°	503	516	515	514	508
55°	468	481	480	477	474
57.5°	433	444	443	441	437
60°	398	408	408	402	400
62.5°	364	371	369	365	363
65°	325	333	331	327	324
67.5°	288	295	292	288	286
70°	246	255	251	249	244
72.5°	210	216	213	211	205
75°	171	178	177	172	169
77.5°	133	141	138	133	132
80°	97	103	102	100	97
82.5°	64	71	71	66	64
85°	34	41	40	38	37
87.5°	14	20	20	18	18
90°	10	31	13	6	6
92.5°	42	137	117	86	76
95°	93	303	292	268	252
97.5°	156	439	465	445	433
100°	226	535	652	629	626
102.5°	301	600	809	829	807
105°	378	655	946	1008	1013
107.5°	455	712	1039	1163	1188
110°	531	779	1101	1288	1321



TEST NUMBER: P32033

CATALOG NUMBER: J2-WL-2T5-1C-UNV-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	609	853	1152	1371	1434
115°	682	931	1196	1420	1497
117.5°	757	997	1232	1459	1535
120°	833	1058	1272	1496	1567
122.5°	902	1116	1311	1524	1595
125°	965	1169	1364	1544	1615
127.5°	1037	1222	1420	1567	1633
130°	1098	1272	1471	1593	1649
132.5°	1158	1320	1514	1629	1670
135°	1217	1362	1548	1670	1704
137.5°	1278	1404	1580	1703	1737
140°	1329	1443	1609	1732	1762
142.5°	1381	1480	1636	1747	1786
145°	1427	1513	1656	1760	1794
147.5°	1468	1547	1672	1771	1800
150°	1508	1578	1684	1777	1799
152.5°	1543	1604	1694	1777	1803
155°	1574	1626	1698	1777	1797
157.5°	1604	1645	1703	1770	1789
160°	1626	1661	1708	1761	1778
162.5°	1650	1674	1711	1753	1765
165°	1667	1685	1712	1746	1754
167.5°	1681	1695	1709	1741	1746
170°	1694	1700	1708	1730	1733
172.5°	1703	1704	1704	1721	1721
175°	1708	1707	1701	1712	1711
177.5°	1709	1707	1697	1708	1702
180°	1703	1703	1703	1703	1703

(END OF REPORT)