

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: P32034

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P32034
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-SL-2T5-1C-UNV-4
Description: CORELITE 4' SUSPENDED FLUORESCENT FIXTURE WITH SPECULAR 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

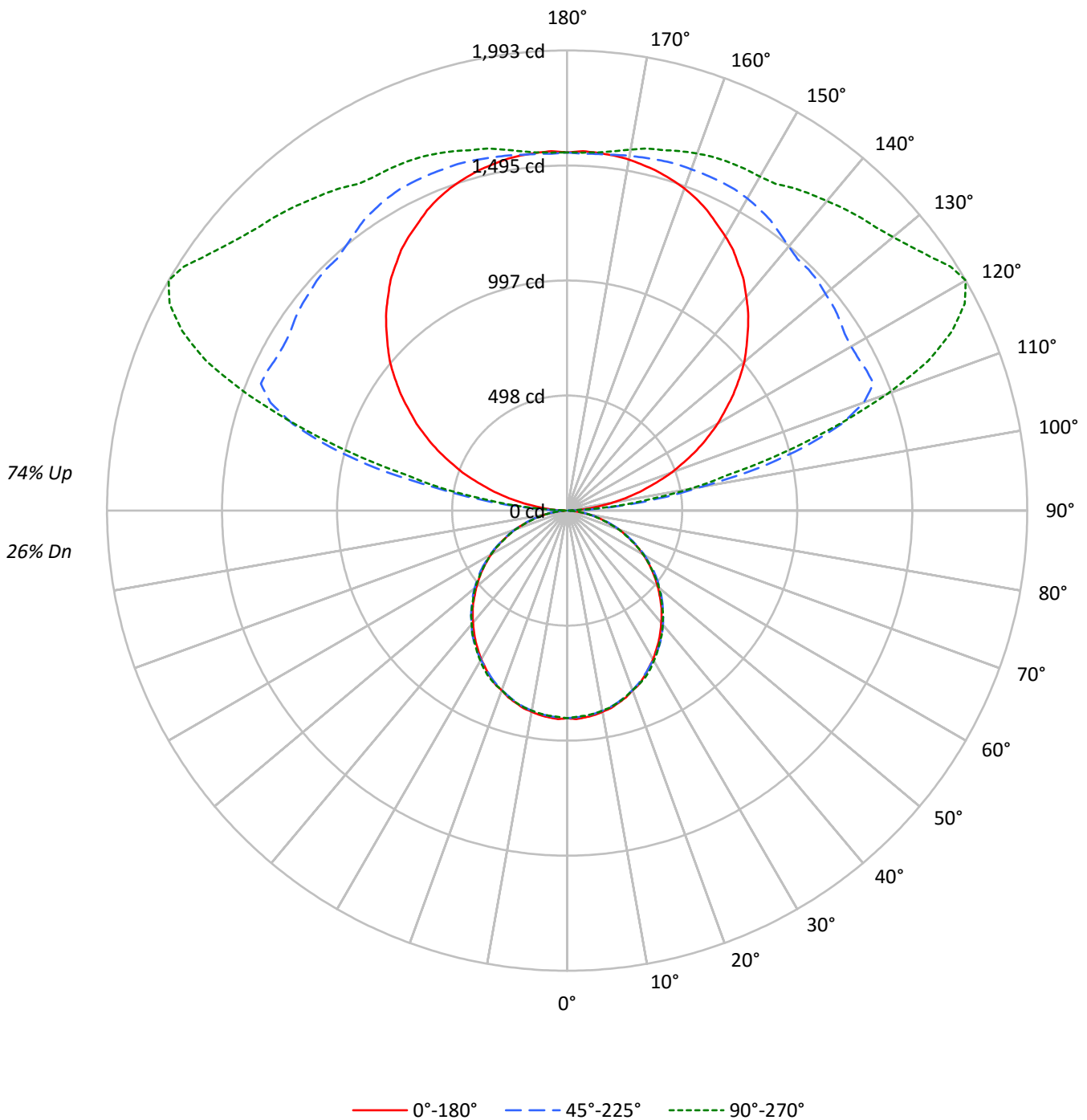
Lumens per Lamp: 5000 (2 lamps)
Luminaire Lumens: 9668.9 lumens
Efficiency: 96.7%
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular (W 0.33' x L: 3.58' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 120
Input Voltage (V): 120.01
Input Current (Ain): 1.00
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	87	87	87	87	68	68	68	50	50	50	33	33	33	25						25														
1	89	85	82	78	79	76	73	70	59	57	55	43	42	41	29	28	28	21						21														
2	81	74	69	64	72	66	62	58	52	48	46	38	36	34	25	24	23	18						18														
3	74	65	58	53	66	58	53	48	45	41	38	34	31	29	22	21	20	15						15														
4	68	57	50	45	60	52	45	40	40	36	32	30	27	24	20	18	17	13						13														
5	62	51	43	38	55	46	39	34	36	31	28	27	23	21	18	16	15	11						11														
6	57	46	38	33	50	41	34	30	32	27	24	24	21	18	16	14	13	10						10														
7	52	41	34	28	47	37	30	26	29	24	21	22	18	16	15	13	11	8						8														
8	48	37	30	25	43	33	27	23	26	22	18	20	17	14	13	12	10	7						7														
9	45	34	27	22	40	30	24	20	24	19	16	18	15	13	12	10	9	7						7														
10	42	31	24	19	37	28	22	18	22	18	15	17	14	11	11	10	8	6						6														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8101	8101	8101
5°	8132	8078	8069
10°	8098	8053	8053
15°	8042	8005	8023
20°	7950	7931	7941
25°	7875	7845	7935
30°	7742	7773	7825
35°	7602	7712	7679
40°	7458	7588	7564
45°	7341	7455	7417
50°	7178	7346	7290
55°	7039	7196	7054
60°	6849	6975	6867
65°	6589	6653	6504
70°	6271	6324	6245
75°	5675	5849	5501
80°	4930	5034	4826
85°	3412	4032	3619



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	85.1	0.9	0.9
10°-20°	242.7	2.5	2.4
20°-30°	365.3	3.8	3.7
30°-40°	436.9	4.5	4.4
40°-50°	450.0	4.7	4.5
50°-60°	406.2	4.2	4.1
60°-70°	308.8	3.2	3.1
70°-80°	175.2	1.8	1.8
80°-90°	46.6	0.5	0.5
90°-100°	246.5	2.5	2.5
100°-110°	902.8	9.3	9.0
110°-120°	1309.4	13.5	13.1
120°-130°	1280.4	13.2	12.8
130°-140°	1141.6	11.8	11.4
140°-150°	954.7	9.9	9.5
150°-160°	722.6	7.5	7.2
160°-170°	445.3	4.6	4.5
170°-180°	148.8	1.5	1.5
0°-30°	693.2	7.2	6.9
0°-40°	1130.0	11.7	11.3
0°-60°	1986.3	20.5	19.9
0°-90°	2517.0	26.0	25.2
90°-120°	2458.7	25.4	24.6
90°-150°	5835.3	60.4	58.4
90°-180°	7152.0	74.0	71.5
0°-180°	9668.9	100.0	96.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	899	899	899	899	899	
5°	899	899	893	895	892	85
15°	862	862	858	862	860	243
25°	792	791	789	798	798	364
35°	691	696	701	701	698	432
45°	576	582	585	587	582	444
55°	448	460	458	455	449	400
65°	309	318	312	311	305	306
75°	163	170	168	164	158	173
85°	33	39	39	36	35	41
90°	10	21	4	2	2	10
95°	84	262	226	203	199	92
105°	339	730	1062	1012	971	358
115°	619	913	1432	1795	1840	611
125°	879	1083	1441	1780	1918	785
135°	1107	1264	1478	1712	1796	855
145°	1296	1401	1535	1645	1706	812
155°	1435	1491	1572	1643	1664	661
165°	1520	1537	1570	1611	1616	429
175°	1555	1555	1550	1561	1557	148
180°	1551	1551	1551	1551	1551	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	899	899	899	899	899
2.5°	904	902	896	898	894
5°	899	899	893	895	892
7.5°	894	893	888	890	887
10°	885	885	880	884	880
12.5°	876	876	871	874	872
15°	862	862	858	862	860
17.5°	848	848	843	846	845
20°	829	831	827	830	828
22.5°	814	813	810	813	814
25°	792	791	789	798	798
27.5°	767	770	767	778	777
30°	744	746	747	756	752
32.5°	717	722	725	730	726
35°	691	696	701	701	698
37.5°	663	668	675	673	674
40°	634	641	645	647	643
42.5°	606	612	616	617	615
45°	576	582	585	587	582
47.5°	543	555	555	553	550
50°	512	522	524	520	520
52.5°	480	492	491	489	484
55°	448	460	458	455	449
57.5°	414	425	422	418	415
60°	380	389	387	383	381
62.5°	345	353	351	346	345
65°	309	318	312	311	305
67.5°	273	281	276	272	271
70°	238	244	240	236	237
72.5°	200	206	203	200	196
75°	163	170	168	164	158
77.5°	126	135	130	127	126
80°	95	100	97	93	93
82.5°	62	68	66	63	61
85°	33	39	39	36	35
87.5°	13	20	19	17	16
90°	10	21	4	2	2
92.5°	37	111	80	45	17
95°	84	262	226	203	199
97.5°	136	456	397	369	341
100°	203	610	589	536	539
102.5°	271	691	844	754	714
105°	339	730	1062	1012	971
107.5°	405	767	1244	1255	1225
110°	482	813	1367	1477	1472



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	547	862	1436	1657	1692
115°	619	913	1432	1795	1840
117.5°	686	957	1423	1855	1941
120°	753	996	1421	1852	1993
122.5°	813	1036	1425	1817	1968
125°	879	1083	1441	1780	1918
127.5°	940	1134	1453	1753	1877
130°	1001	1180	1461	1736	1843
132.5°	1054	1223	1472	1725	1815
135°	1107	1264	1478	1712	1796
137.5°	1161	1303	1477	1695	1774
140°	1207	1335	1493	1682	1750
142.5°	1257	1366	1513	1667	1729
145°	1296	1401	1535	1645	1706
147.5°	1338	1427	1549	1641	1678
150°	1371	1452	1561	1645	1670
152.5°	1401	1474	1569	1646	1668
155°	1435	1491	1572	1643	1664
157.5°	1462	1507	1573	1640	1657
160°	1485	1519	1573	1629	1646
162.5°	1503	1529	1574	1620	1632
165°	1520	1537	1570	1611	1616
167.5°	1532	1546	1565	1598	1606
170°	1544	1550	1560	1584	1588
172.5°	1551	1554	1554	1570	1570
175°	1555	1555	1550	1561	1557
177.5°	1558	1556	1547	1554	1552
180°	1551	1551	1551	1551	1551

(END OF REPORT)