

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: 23491

Luminaire Tested: **R1-WP-2T5-UNV-24-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23491
Test Lab: LIGHTING SCIENCES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R1-WP-2T5-UNV-24-T1
Description: WITH WHITE INTERIOR AND FROSTED LINEAR PRISMATIC PLASTIC LENS WITH
ROUND PERF
Light Source: TWO SYLVANIA 54 WATT T5HO LAMPS

FP54/841. LUMEN RATING = 4450 LMS.

Ballast/Driver: -

Summary

Lumens per Lamp: 4450 (2 lamps)
Luminaire Lumens: 5432.9 lumens
Efficiency: 61.0%
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.33 / 1.4
Luminous Opening: Rectangular (W 1.95' x L: 3.92' x H: 0')
CIE Type: Direct

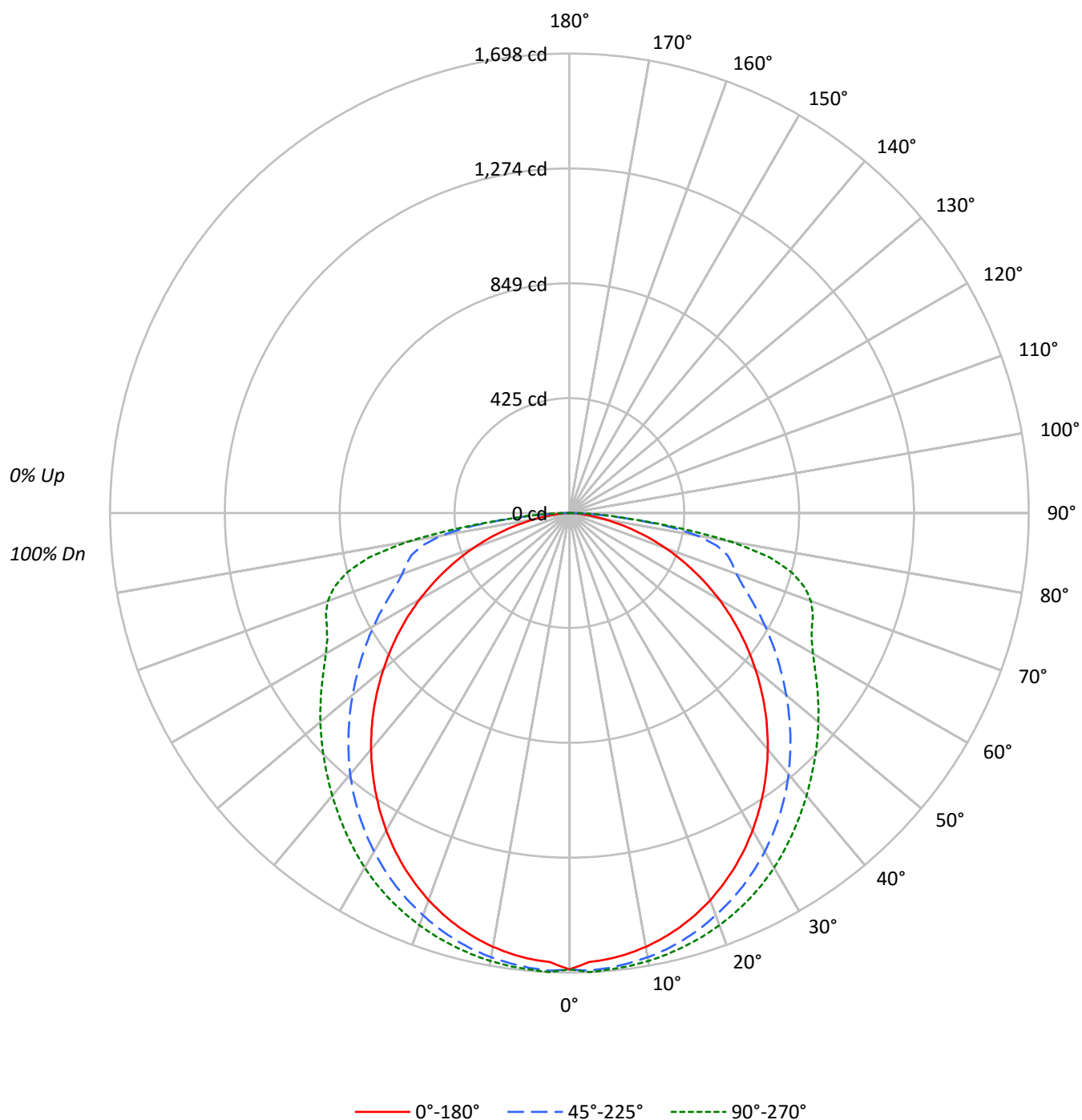
Input Watts (W): 61
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: 23491

CATALOG NUMBER: R1-WP-2T5-UNV-24-T1

Luminous Intensity Polar Plot





TEST NUMBER: 23491

CATALOG NUMBER: R1-WP-2T5-UNV-24-T1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	73	73	73	73	71	71	71	71	68	68	68	65	65	65	62	62	62
1	65	62	59	56	64	61	58	55	58	56	54	56	54	52	53	52	50
2	59	53	49	45	57	52	48	44	50	46	43	48	45	42	46	43	41
3	53	46	41	37	52	45	40	36	44	39	36	42	38	35	40	37	34
4	49	41	35	31	47	40	35	31	38	34	30	37	33	30	36	32	29
5	45	36	31	26	43	36	30	26	34	30	26	33	29	26	32	28	25
6	41	33	27	23	40	32	27	23	31	26	22	30	26	22	29	25	22
7	38	30	24	20	37	29	24	20	28	23	20	27	23	20	26	22	20
8	36	27	22	18	35	27	21	18	26	21	18	25	21	18	24	20	17
9	33	25	20	16	32	24	19	16	24	19	16	23	19	16	22	19	16
10	31	23	18	15	30	22	18	14	22	17	14	21	17	14	21	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2374	2374	2374
5°	2339	2384	2393
10°	2327	2383	2403
15°	2308	2380	2414
20°	2281	2371	2429
25°	2245	2361	2445
30°	2202	2348	2460
35°	2151	2333	2477
40°	2097	2318	2506
45°	2035	2300	2555
50°	1965	2292	2632
55°	1890	2305	2744
60°	1801	2353	2926
65°	1694	2451	3297
70°	1553	2704	3912
75°	1355	3292	4638
80°	1062	3895	4899
85°	767	3067	3172



TEST NUMBER: 23491

CATALOG NUMBER: R1-WP-2T5-UNV-24-T1

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	159.7	2.9	1.8
10°-20°	458.7	8.4	5.2
20°-30°	697.7	12.8	7.8
30°-40°	845.4	15.6	9.5
40°-50°	890.2	16.4	10.0
50°-60°	843.0	15.5	9.5
60°-70°	737.8	13.6	8.3
70°-80°	595.6	11.0	6.7
80°-90°	204.7	3.8	2.3
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	1316.1	24.2	14.8
0°-40°	2161.5	39.8	24.3
0°-60°	3894.8	71.7	43.8
0°-90°	5432.9	100.0	61.0
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	5432.9	100.0	61.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1686	1686	1686	1686	1686	
5°	1654	1667	1687	1693	1693	157
15°	1583	1600	1632	1650	1656	446
25°	1445	1468	1520	1558	1574	665
35°	1252	1283	1357	1417	1441	783
45°	1022	1060	1155	1244	1283	788
55°	770	816	939	1067	1118	688
65°	508	567	736	914	989	503
75°	249	345	605	799	852	264
85°	48	146	190	197	196	59
90°	2	7	15	20	21	



TEST NUMBER: 23491

CATALOG NUMBER: R1-WP-2T5-UNV-24-T1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1686.2	1686.2	1686.2	1686.2	1686.2
2.5°	1661.1	1672.9	1692.4	1696.8	1697.9
5°	1654.4	1666.7	1686.9	1692.7	1693.1
7.5°	1643.1	1656.3	1678.0	1685.9	1688.5
10°	1627.6	1641.9	1666.9	1677.2	1680.9
12.5°	1607.6	1623.1	1651.7	1665.0	1670.0
15°	1583.3	1599.7	1632.4	1649.5	1656.0
17.5°	1554.6	1572.5	1608.9	1630.0	1640.2
20°	1522.1	1541.6	1582.1	1609.5	1620.9
22.5°	1485.3	1506.7	1552.9	1585.2	1598.5
25°	1445.0	1468.5	1519.7	1558.3	1573.7
27.5°	1401.0	1426.5	1483.3	1527.4	1545.2
30°	1354.0	1381.5	1444.1	1493.7	1513.0
32.5°	1303.9	1333.3	1402.0	1456.6	1478.0
35°	1251.5	1282.7	1357.1	1417.4	1441.0
37.5°	1196.8	1229.8	1309.9	1375.9	1402.9
40°	1140.6	1174.8	1260.8	1332.6	1363.4
42.5°	1081.9	1117.8	1207.9	1288.3	1323.0
45°	1021.7	1059.9	1154.8	1244.0	1283.0
47.5°	959.8	1001.0	1100.7	1200.2	1242.8
50°	897.2	940.5	1046.2	1156.6	1201.4
52.5°	833.8	878.8	991.5	1112.2	1159.6
55°	769.7	816.5	939.0	1066.7	1117.7
57.5°	704.9	753.8	886.6	1022.2	1076.4
60°	639.5	690.7	835.5	979.5	1039.0
62.5°	574.0	628.1	784.4	942.2	1008.9
65°	508.4	566.7	735.5	913.8	989.4
67.5°	442.9	507.4	691.2	895.4	974.0
70°	377.2	450.1	656.8	877.9	950.1
72.5°	312.6	395.5	632.0	848.0	911.4
75°	249.0	344.9	605.0	798.9	852.4
77.5°	187.6	302.7	558.3	720.3	759.1
80°	131.0	268.0	480.3	595.4	604.1
82.5°	85.2	222.8	356.5	394.0	380.1
85°	47.5	146.4	189.8	196.8	196.3
87.5°	17.3	52.7	69.6	89.4	93.2
90°	1.9	6.8	14.7	20.5	21.2

(END OF REPORT)