

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: 23296

Luminaire Tested: **R1-WL-2T5-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23296
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R1-WL-2T5-24
Description: WITH WHITE INTERIOR AND FROSTED LINEAR PRISMATIC PLASTIC LENS

Light Source: TWO SYLVANIA 54 WATT T5HO LAMPS

FP54/841. LUMEN RATING = 4450 LMS.

Ballast/Driver: -

Summary

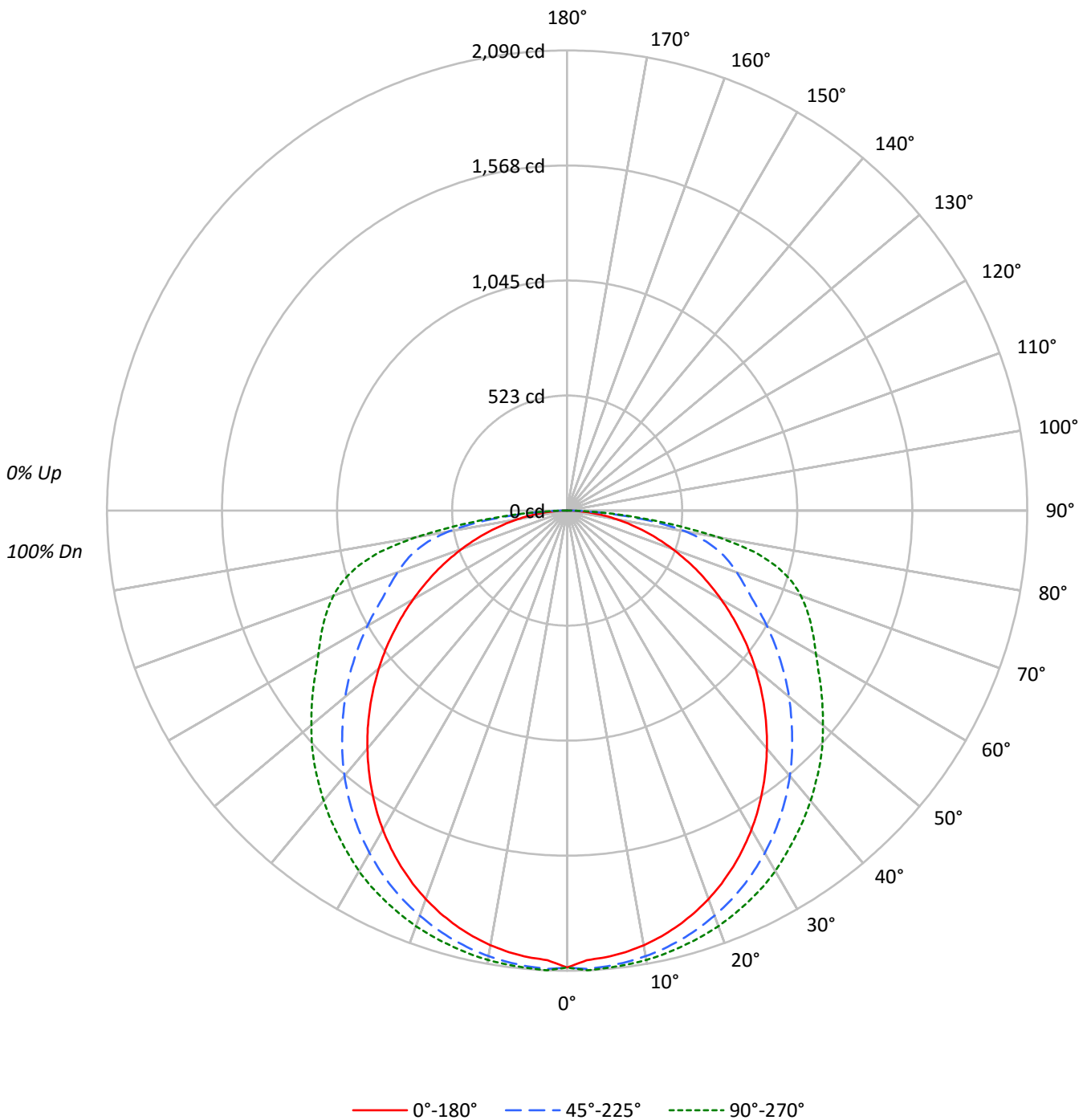
Lumens per Lamp: 4450 (2 lamps)
Luminaire Lumens: 6757.0 lumens
Efficiency: 75.9%
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.35 / 1.41
Luminous Opening: Rectangular (W 1.95' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 62
Input Voltage (V): NR
Input Current (A_{in}): 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



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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									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	90	90	90	90	88	88	88	88	84	84	84	81	81	81	77	77	77	76						76													
1	81	77	73	70	79	75	72	69	72	69	67	69	67	65	66	64	63	61						61													
2	73	66	61	56	71	65	60	55	62	58	54	60	56	53	57	54	51	50						50													
3	66	58	51	46	64	57	50	45	54	49	44	52	47	44	50	46	43	41						41													
4	61	51	44	38	59	50	43	38	48	42	37	46	41	37	44	40	36	35						35													
5	56	45	38	33	54	44	38	32	43	37	32	41	36	32	40	35	31	30						30													
6	51	41	33	28	50	40	33	28	38	32	28	37	32	28	36	31	27	26						26													
7	47	37	30	25	46	36	30	25	35	29	25	34	28	24	33	28	24	23						23													
8	44	33	27	22	43	33	27	22	32	26	22	31	26	22	30	25	22	20						20													
9	41	31	24	20	40	30	24	20	29	24	20	29	23	20	28	23	19	18						18													
10	39	28	22	18	38	28	22	18	27	22	18	26	21	18	26	21	18	16						16													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2922	2922	2922
5°	2878	2937	2947
10°	2866	2938	2964
15°	2845	2938	2982
20°	2813	2934	3010
25°	2773	2929	3039
30°	2722	2920	3075
35°	2661	2907	3108
40°	2595	2893	3163
45°	2523	2878	3235
50°	2447	2883	3322
55°	2363	2901	3456
60°	2275	2951	3675
65°	2191	3065	4072
70°	2096	3376	4652
75°	1987	3900	5376
80°	1864	4451	5671
85°	1711	3879	4416



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	196.7	2.9	2.2
10°-20°	566.5	8.4	6.4
20°-30°	865.1	12.8	9.7
30°-40°	1053.7	15.6	11.8
40°-50°	1115.7	16.5	12.5
50°-60°	1058.2	15.7	11.9
60°-70°	923.4	13.7	10.4
70°-80°	720.6	10.7	8.1
80°-90°	257.1	3.8	2.9
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°	1628.3	24.1	18.3
0°-40°	2682.0	39.7	30.1
0°-60°	4856.0	71.9	54.6
0°-90°	6757.0	100.0	75.9
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°	6757.0	100.0	75.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2075	2075	2075	2075	2075	
5°	2036	2051	2078	2084	2085	193
15°	1952	1973	2015	2038	2046	550
25°	1784	1816	1885	1935	1956	822
35°	1548	1591	1691	1774	1808	968
45°	1267	1318	1445	1572	1625	977
55°	963	1019	1182	1341	1408	861
65°	658	722	920	1138	1222	651
75°	365	454	717	923	988	387
85°	106	192	240	268	273	119
90°	6	12	13	15	16	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2074.9	2074.9	2074.9	2074.9	2074.9
2.5°	2043.7	2058.5	2083.8	2088.8	2090.0
5°	2036.0	2051.3	2077.8	2084.3	2085.0
7.5°	2023.2	2039.5	2068.1	2077.1	2080.2
10°	2004.6	2022.5	2055.0	2068.2	2072.7
12.5°	1980.8	2000.8	2037.6	2055.6	2061.0
15°	1951.7	1973.4	2015.3	2038.3	2045.6
17.5°	1916.9	1941.2	1988.6	2016.9	2028.9
20°	1877.2	1903.7	1957.8	1994.5	2008.8
22.5°	1833.4	1862.0	1923.9	1966.2	1983.8
25°	1784.5	1815.9	1885.4	1935.1	1955.9
27.5°	1731.2	1764.9	1842.3	1900.7	1926.3
30°	1674.2	1710.5	1795.7	1862.2	1891.1
32.5°	1613.0	1652.7	1745.6	1818.3	1849.8
35°	1547.9	1591.0	1691.0	1773.8	1807.9
37.5°	1480.8	1527.0	1633.5	1727.3	1766.1
40°	1411.5	1460.6	1573.8	1675.4	1720.6
42.5°	1340.3	1390.6	1510.4	1624.1	1672.0
45°	1267.1	1318.1	1445.1	1572.4	1624.6
47.5°	1192.3	1246.2	1380.2	1516.4	1572.6
50°	1116.8	1171.0	1316.0	1457.7	1516.3
52.5°	1039.9	1093.8	1249.4	1400.4	1462.0
55°	962.6	1019.1	1181.6	1341.0	1407.7
57.5°	885.4	944.1	1114.2	1282.5	1353.0
60°	807.8	868.6	1047.8	1229.1	1304.9
62.5°	732.4	795.0	981.1	1181.8	1263.1
65°	657.6	722.4	919.8	1137.8	1222.2
67.5°	582.3	651.4	867.2	1095.9	1178.9
70°	509.0	582.4	820.0	1049.5	1130.0
72.5°	436.8	515.7	771.7	994.7	1069.7
75°	365.2	454.1	716.8	923.0	988.1
77.5°	296.3	400.7	645.6	823.4	874.8
80°	229.9	348.0	548.9	677.6	699.3
82.5°	166.2	281.7	410.4	475.5	477.5
85°	105.9	191.5	240.1	267.5	273.3
87.5°	48.3	83.5	96.5	100.6	103.4
90°	6.3	11.8	13.4	14.7	16.3

(END OF REPORT)