

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: 23293

Luminaire Tested: **R1-WL-2T5-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23293
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R1-WL-2T5-14
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

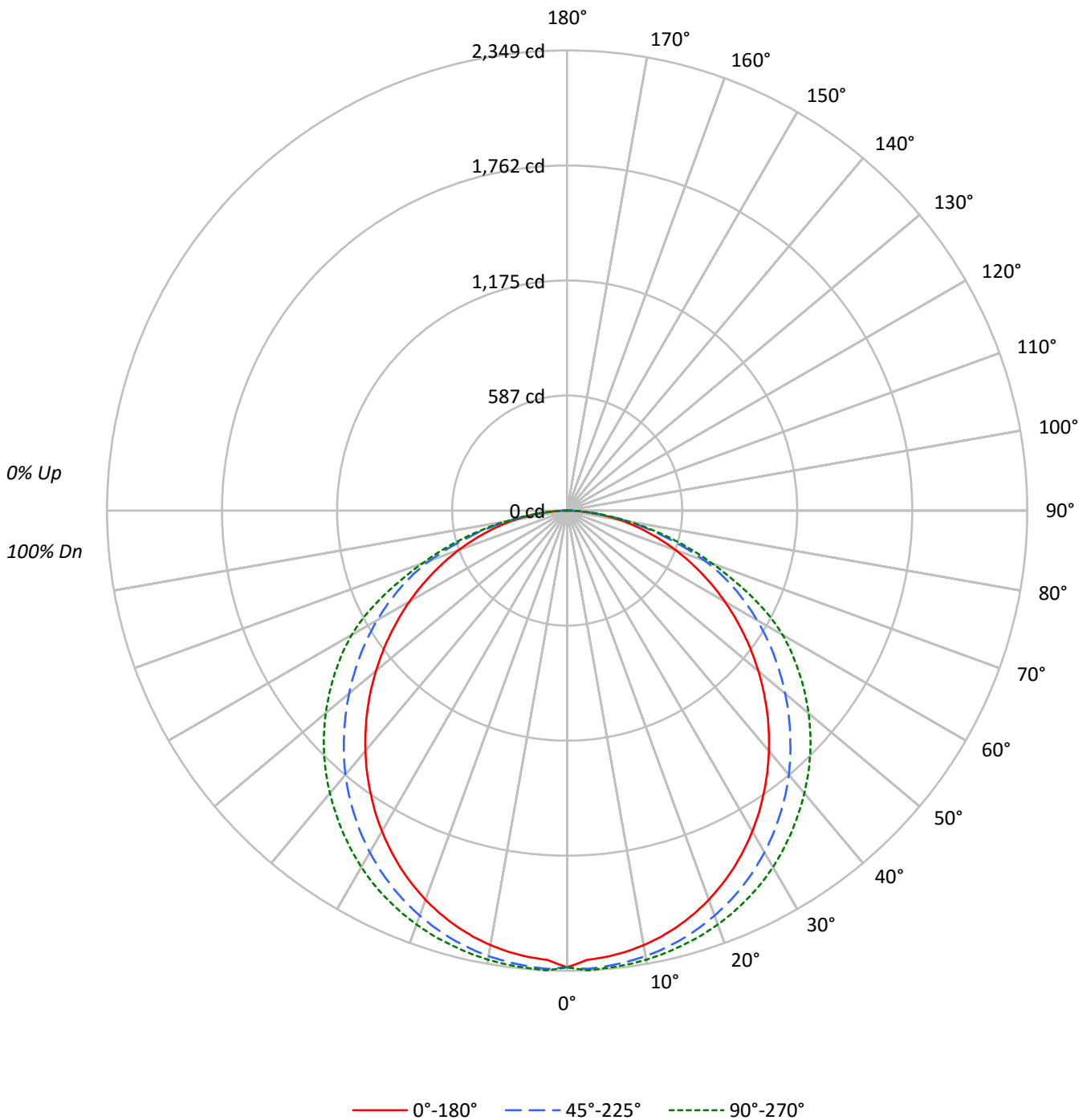
Lumens per Lamp: 4450 (2 lamps)
Luminaire Lumens: 6974.9 lumens
Efficiency: 78.4%
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.34 / 1.4
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 60
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



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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	93	93	93	93	91	91	91	91	87	87	87	83	83	83	80	80	80	80	80	80	80	80	80	78													
1	85	81	78	75	83	79	76	73	76	73	71	73	71	69	70	68	67	67	67	67	67	67	67	65													
2	77	70	65	60	75	69	64	60	66	62	58	64	60	57	61	58	56	56	56	56	56	56	56	54													
3	70	62	55	50	68	60	54	49	58	53	48	56	51	48	54	50	47	47	47	47	47	47	47	45													
4	64	54	47	42	62	53	47	42	51	46	41	50	45	41	48	44	40	40	40	40	40	40	40	38													
5	59	49	41	36	57	48	41	36	46	40	35	44	39	35	43	38	35	35	35	35	35	35	35	33													
6	54	44	36	31	53	43	36	31	41	35	31	40	35	31	39	34	30	30	30	30	30	30	30	29													
7	50	39	33	28	49	39	32	28	38	32	27	36	31	27	35	31	27	27	27	27	27	27	27	25													
8	47	36	29	25	46	35	29	24	34	29	24	33	28	24	32	28	24	24	24	24	24	24	24	23													
9	44	33	26	22	43	33	26	22	32	26	22	31	26	22	30	25	22	22	22	22	22	22	22	20													
10	41	30	24	20	40	30	24	20	29	24	20	28	23	20	28	23	20	20	20	20	20	20	20	18													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6959	6959	6959
5°	6853	6995	7023
10°	6827	6999	7056
15°	6782	6999	7092
20°	6715	6989	7143
25°	6628	6972	7194
30°	6517	6943	7242
35°	6385	6904	7285
40°	6244	6861	7341
45°	6087	6796	7408
50°	5916	6749	7472
55°	5735	6713	7532
60°	5548	6687	7592
65°	5346	6658	7343
70°	5132	6500	6854
75°	4896	5941	6332
80°	4589	5325	5407
85°	3993	4284	4010



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	221.0	3.2	2.5
10°-20°	636.3	9.1	7.1
20°-30°	970.8	13.9	10.9
30°-40°	1179.0	16.9	13.2
40°-50°	1237.4	17.7	13.9
50°-60°	1145.5	16.4	12.9
60°-70°	906.3	13.0	10.2
70°-80°	533.8	7.7	6.0
80°-90°	144.8	2.1	1.6
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°	1828.1	26.2	20.5
0°-40°	3007.1	43.1	33.8
0°-60°	5390.0	77.3	60.6
0°-90°	6974.9	100.0	78.4
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°	6974.9	100.0	78.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2332	2332	2332	2332	2332	
5°	2287	2304	2335	2342	2344	217
15°	2195	2218	2265	2287	2295	619
25°	2013	2045	2117	2165	2184	927
35°	1752	1797	1895	1969	1999	1096
45°	1442	1492	1610	1713	1755	1112
55°	1102	1156	1290	1405	1447	986
65°	757	810	943	1024	1040	750
75°	425	474	515	542	549	449
85°	117	121	125	117	117	134
90°	8	10	12	12	13	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2331.6	2331.6	2331.6	2331.6	2331.6
2.5°	2295.7	2311.6	2341.2	2347.2	2349.1
5°	2287.3	2303.9	2334.7	2342.1	2344.0
7.5°	2272.9	2290.7	2323.9	2334.0	2338.0
10°	2252.6	2272.2	2309.4	2322.7	2328.0
12.5°	2226.7	2248.1	2289.7	2307.7	2313.5
15°	2194.7	2217.8	2265.2	2287.3	2295.3
17.5°	2157.2	2182.4	2235.1	2261.5	2274.8
20°	2114.1	2141.5	2200.4	2234.1	2249.0
22.5°	2065.8	2095.8	2161.2	2201.7	2218.5
25°	2012.6	2045.1	2117.2	2165.1	2184.4
27.5°	1953.9	1990.0	2068.1	2123.0	2145.9
30°	1891.1	1929.9	2014.7	2076.6	2101.4
32.5°	1823.6	1865.2	1957.3	2025.1	2052.6
35°	1752.4	1796.8	1894.8	1969.1	1999.4
37.5°	1679.0	1725.6	1830.1	1909.7	1943.1
40°	1602.5	1650.1	1761.0	1846.8	1884.2
42.5°	1523.8	1572.4	1686.6	1781.0	1821.6
45°	1442.1	1492.5	1610.0	1712.7	1755.0
47.5°	1359.0	1412.2	1532.9	1641.4	1684.3
50°	1274.1	1328.7	1453.4	1566.7	1609.2
52.5°	1188.5	1242.7	1372.0	1487.8	1530.1
55°	1102.1	1156.0	1290.0	1404.7	1447.4
57.5°	1016.0	1069.0	1206.0	1318.2	1362.2
60°	929.4	981.9	1120.2	1230.3	1271.8
62.5°	843.4	895.5	1032.1	1136.5	1165.0
65°	757.0	810.4	942.7	1024.4	1039.8
67.5°	672.1	726.0	850.3	897.9	909.3
70°	588.1	643.0	744.9	773.1	785.4
72.5°	505.6	559.3	631.4	656.5	668.2
75°	424.6	474.4	515.2	541.9	549.1
77.5°	345.4	388.0	410.6	428.6	429.9
80°	267.0	295.1	309.8	315.4	314.6
82.5°	190.3	202.8	213.4	210.0	207.4
85°	116.6	121.2	125.1	116.6	117.1
87.5°	49.6	50.8	51.3	46.6	47.8
90°	7.7	9.9	11.6	11.8	13.2

(END OF REPORT)