

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: 23387

Luminaire Tested: **R2-WL-2T5-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23387
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R2-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

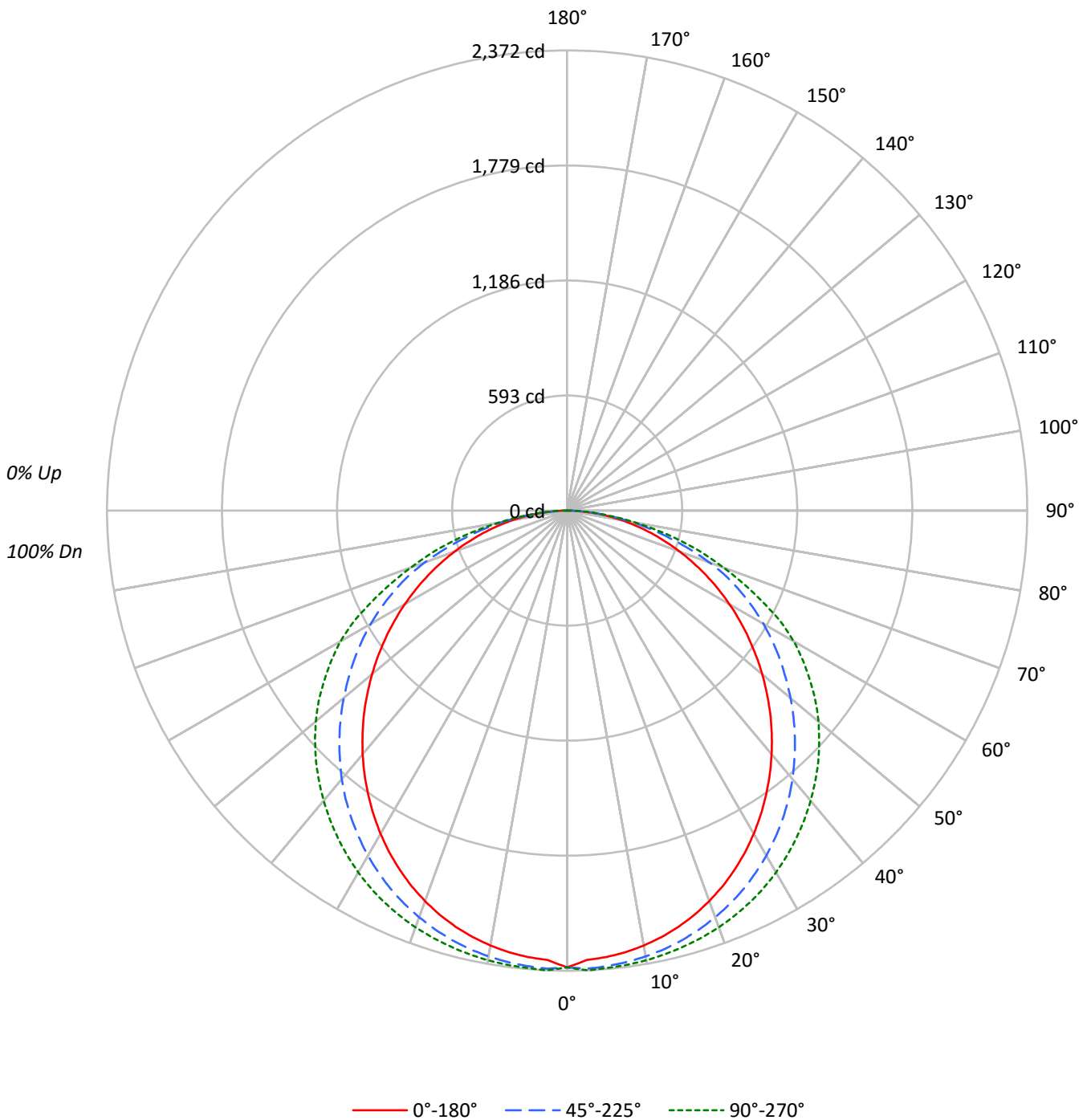
Lumens per Lamp: 4450 (2 lamps)
Luminaire Lumens: 7218.8 lumens
Efficiency: 81.1%
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.42
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

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	97	97	97	97	94	94	94	94	90	90	90	86	86	86	83	83	83	81						81													
1	88	84	80	77	86	82	79	76	78	76	73	75	73	71	72	71	69	67						67													
2	80	73	67	62	77	71	66	61	68	64	60	65	62	58	63	60	57	55						55													
3	72	63	57	51	70	62	56	51	60	54	50	57	53	49	55	51	48	46						46													
4	66	56	49	43	64	55	48	43	53	47	42	51	46	42	49	45	41	39						39													
5	61	50	42	37	59	49	42	37	47	41	36	46	40	36	44	39	35	34						34													
6	56	45	37	32	54	44	37	32	43	36	32	41	36	31	40	35	31	29						29													
7	52	41	33	28	50	40	33	28	39	32	28	37	32	28	36	31	27	26						26													
8	48	37	30	25	47	36	30	25	35	29	25	34	29	25	33	28	25	23						23													
9	45	34	27	23	44	33	27	22	32	27	22	32	26	22	31	26	22	21						21													
10	42	31	25	20	41	31	25	20	30	24	20	29	24	20	29	24	20	19						19													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7027	7027	7027
5°	6922	7063	7090
10°	6899	7073	7134
15°	6862	7082	7187
20°	6803	7086	7260
25°	6727	7087	7339
30°	6631	7078	7423
35°	6515	7061	7508
40°	6390	7042	7607
45°	6249	7008	7726
50°	6094	6982	7852
55°	5937	6970	7955
60°	5769	6977	8059
65°	5584	6965	7838
70°	5382	6814	7474
75°	5165	6306	7062
80°	4892	5767	6152
85°	4349	4736	5082



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	223.3	3.1	2.5
10°-20°	644.3	8.9	7.2
20°-30°	987.6	13.7	11.1
30°-40°	1207.3	16.7	13.6
40°-50°	1277.7	17.7	14.4
50°-60°	1193.8	16.5	13.4
60°-70°	952.9	13.2	10.7
70°-80°	570.7	7.9	6.4
80°-90°	161.1	2.2	1.8
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°	1855.2	25.7	20.8
0°-40°	3062.5	42.4	34.4
0°-60°	5534.0	76.7	62.2
0°-90°	7218.8	100.0	81.1
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°	7218.8	100.0	81.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2354	2354	2354	2354	2354	
5°	2310	2328	2357	2365	2366	220
15°	2221	2245	2292	2317	2326	626
25°	2043	2076	2152	2206	2228	941
35°	1788	1832	1938	2023	2060	1118
45°	1480	1532	1660	1776	1830	1142
55°	1141	1193	1340	1475	1529	1020
65°	791	842	986	1084	1110	783
75°	448	495	547	593	612	474
85°	127	130	138	140	148	145
90°	9	9	10	10	13	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2354.2	2354.2	2354.2	2354.2	2354.2
2.5°	2318.5	2335.6	2363.8	2370.1	2371.7
5°	2310.2	2328.0	2357.3	2365.3	2366.4
7.5°	2296.5	2315.5	2347.4	2357.8	2362.1
10°	2276.5	2297.4	2333.7	2348.1	2353.9
12.5°	2251.4	2273.8	2315.2	2334.4	2341.7
15°	2220.7	2244.7	2291.9	2316.6	2326.0
17.5°	2184.4	2210.1	2264.0	2293.3	2308.4
20°	2142.0	2170.4	2230.8	2269.0	2285.8
22.5°	2095.3	2125.7	2194.0	2239.0	2259.1
25°	2042.7	2076.3	2152.1	2205.7	2228.4
27.5°	1985.6	2022.2	2104.9	2166.8	2194.0
30°	1923.9	1963.0	2053.7	2123.7	2153.8
32.5°	1858.0	1899.6	1997.9	2075.2	2108.8
35°	1788.0	1832.2	1938.0	2022.9	2060.5
37.5°	1715.3	1761.9	1875.3	1966.7	2008.1
40°	1640.0	1687.4	1807.4	1905.8	1952.5
42.5°	1561.6	1610.7	1734.8	1842.0	1893.0
45°	1480.5	1531.8	1660.2	1775.7	1830.5
47.5°	1397.1	1451.6	1583.3	1706.9	1762.5
50°	1312.4	1367.2	1503.6	1634.5	1691.0
52.5°	1227.0	1280.7	1420.7	1557.0	1614.3
55°	1140.9	1193.3	1339.5	1475.0	1528.7
57.5°	1054.1	1105.7	1255.8	1387.0	1442.3
60°	966.5	1017.7	1168.8	1297.2	1350.1
62.5°	879.0	929.9	1079.5	1200.1	1241.4
65°	790.7	841.7	986.2	1084.4	1109.8
67.5°	703.3	755.8	889.0	953.5	982.4
70°	616.7	669.7	780.8	828.6	856.5
72.5°	531.6	583.5	661.5	708.2	737.0
75°	447.9	495.1	546.8	592.7	612.4
77.5°	366.3	404.6	439.7	470.2	482.7
80°	284.6	309.1	335.5	349.3	357.9
82.5°	204.9	215.0	232.9	238.6	244.8
85°	127.0	130.4	138.3	140.3	148.4
87.5°	55.8	55.5	58.0	59.2	65.7
90°	8.7	9.4	10.1	10.1	13.2

(END OF REPORT)