

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: 23304

Luminaire Tested: **R2-WL-2T5-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23304
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R2-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

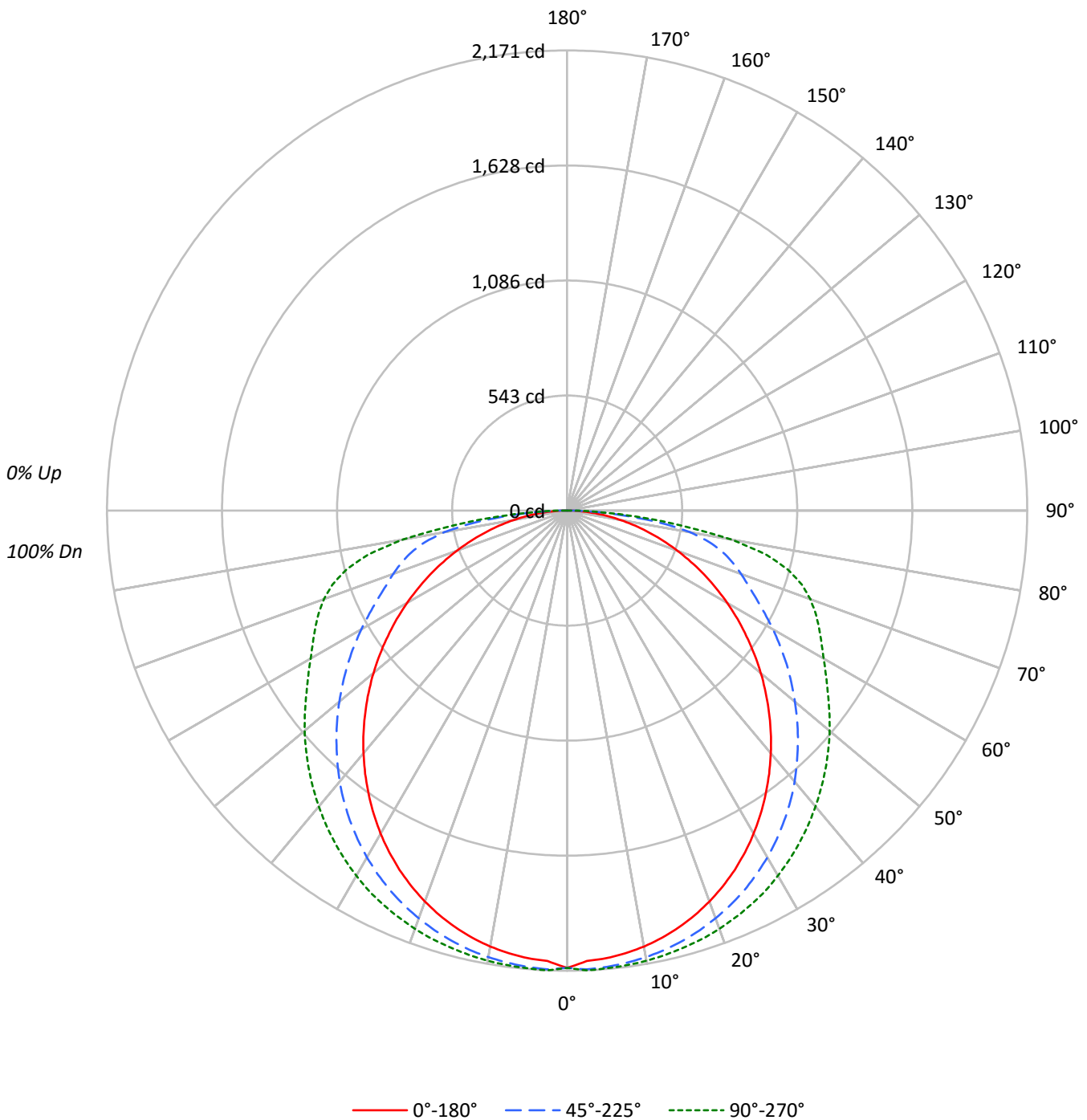
Lumens per Lamp: 4450 (2 lamps)
Luminaire Lumens: 7190.8 lumens
Efficiency: 80.8%
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.37 / 1.43
Luminous Opening: Rectangular (W 1.95' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 59
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				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	0
RCR																				
0	96	96	96	96	94	94	94	94	90	90	90		86	86	86		82	82	82	81
1	86	82	78	74	84	80	76	73	77	74	71		73	71	69		70	68	67	65
2	78	70	64	59	76	69	63	58	66	61	57		63	59	56		61	57	54	52
3	71	61	54	48	68	60	53	48	57	52	47		55	50	46		53	49	45	43
4	64	54	46	40	62	53	46	40	51	44	40		49	43	39		47	42	38	37
5	59	48	40	34	57	47	40	34	45	39	34		44	38	33		42	37	33	31
6	54	43	35	30	53	42	35	30	41	34	29		39	34	29		38	33	29	27
7	50	39	31	26	49	38	31	26	37	31	26		36	30	26		35	29	26	24
8	47	35	28	23	46	35	28	23	34	28	23		33	27	23		32	27	23	21
9	44	32	26	21	43	32	25	21	31	25	21		30	25	21		29	24	20	19
10	41	30	23	19	40	30	23	19	29	23	19		28	22	19		27	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3038	3038	3038
5°	2996	3054	3064
10°	2986	3059	3084
15°	2968	3064	3111
20°	2941	3067	3147
25°	2906	3072	3189
30°	2862	3072	3235
35°	2808	3070	3287
40°	2748	3070	3351
45°	2683	3066	3434
50°	2613	3074	3542
55°	2535	3103	3687
60°	2458	3159	3934
65°	2373	3280	4371
70°	2278	3592	5026
75°	2180	4142	5868
80°	2069	4773	6359
85°	1924	4433	5254



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	204.7	2.8	2.3
10°-20°	590.9	8.2	6.6
20°-30°	907.2	12.6	10.2
30°-40°	1112.8	15.5	12.5
40°-50°	1186.3	16.5	13.3
50°-60°	1132.4	15.7	12.7
60°-70°	991.0	13.8	11.1
70°-80°	777.4	10.8	8.7
80°-90°	288.1	4.0	3.2
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°	1702.7	23.7	19.1
0°-40°	2815.5	39.2	31.6
0°-60°	5134.2	71.4	57.7
0°-90°	7190.8	100.0	80.8
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°	7190.8	100.0	80.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2157	2157	2157	2157	2157	
5°	2120	2134	2161	2166	2167	201
15°	2036	2057	2102	2125	2134	574
25°	1870	1903	1977	2030	2052	861
35°	1633	1679	1786	1874	1912	1021
45°	1347	1402	1540	1668	1724	1039
55°	1033	1095	1264	1432	1502	924
65°	712	780	984	1217	1312	705
75°	401	488	761	998	1079	424
85°	119	203	274	308	325	134
90°	12	22	26	28	31	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2157.2	2157.2	2157.2	2157.2	2157.2
2.5°	2127.4	2141.1	2166.3	2169.5	2171.3
5°	2119.7	2134.1	2160.6	2165.8	2167.3
7.5°	2106.9	2122.5	2151.6	2159.4	2163.4
10°	2088.6	2106.2	2139.4	2151.2	2156.9
12.5°	2065.1	2084.3	2123.0	2139.9	2146.6
15°	2036.0	2057.3	2102.1	2124.7	2133.8
17.5°	2002.0	2025.8	2076.6	2104.9	2119.1
20°	1962.8	1989.3	2047.0	2084.0	2099.9
22.5°	1919.1	1948.4	2014.3	2058.3	2077.5
25°	1870.5	1903.2	1977.0	2030.2	2052.3
27.5°	1817.5	1853.3	1934.7	1996.7	2023.6
30°	1760.1	1799.3	1889.0	1960.1	1989.5
32.5°	1698.5	1740.8	1839.7	1918.5	1952.4
35°	1633.2	1679.0	1785.8	1874.3	1912.1
37.5°	1565.4	1614.3	1730.0	1826.7	1868.7
40°	1495.0	1545.9	1669.9	1775.4	1822.8
42.5°	1422.3	1475.3	1605.6	1722.2	1774.5
45°	1347.3	1402.4	1539.7	1668.1	1724.2
47.5°	1270.8	1329.2	1472.4	1612.1	1671.3
50°	1192.9	1252.5	1403.3	1554.9	1616.7
52.5°	1113.4	1173.6	1332.9	1494.7	1559.4
55°	1032.7	1094.7	1263.8	1432.4	1501.7
57.5°	953.2	1015.8	1192.6	1371.6	1448.1
60°	872.7	936.4	1121.7	1314.5	1397.0
62.5°	792.4	857.7	1051.1	1261.9	1352.5
65°	712.2	779.8	984.5	1217.2	1311.9
67.5°	632.1	703.4	924.6	1172.9	1268.9
70°	553.3	629.0	872.5	1126.4	1220.7
72.5°	476.2	556.3	820.5	1070.9	1160.9
75°	400.7	488.1	761.3	997.5	1078.6
77.5°	327.2	428.7	687.5	894.5	962.9
80°	255.2	369.5	588.6	742.0	784.2
82.5°	185.9	297.5	445.9	524.2	542.2
85°	119.1	202.8	274.4	307.7	325.2
87.5°	55.1	95.0	117.2	130.4	138.5
90°	11.8	21.9	25.5	27.9	31.0

(END OF REPORT)