

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: 23305

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 23305  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R2-WB-2T5-24  
Description: WITH WHITE INTERIOR AND CLEAR LINEAR PRISMATIC PLASTIC LENS WITH  
WHITE BAFFLE  
Light Source: TWO SYLVANIA 54 WATT T5HO LAMPS  
  
FP54/841. LUMEN RATING = 4450 LMS.  
  
Ballast/Driver: -

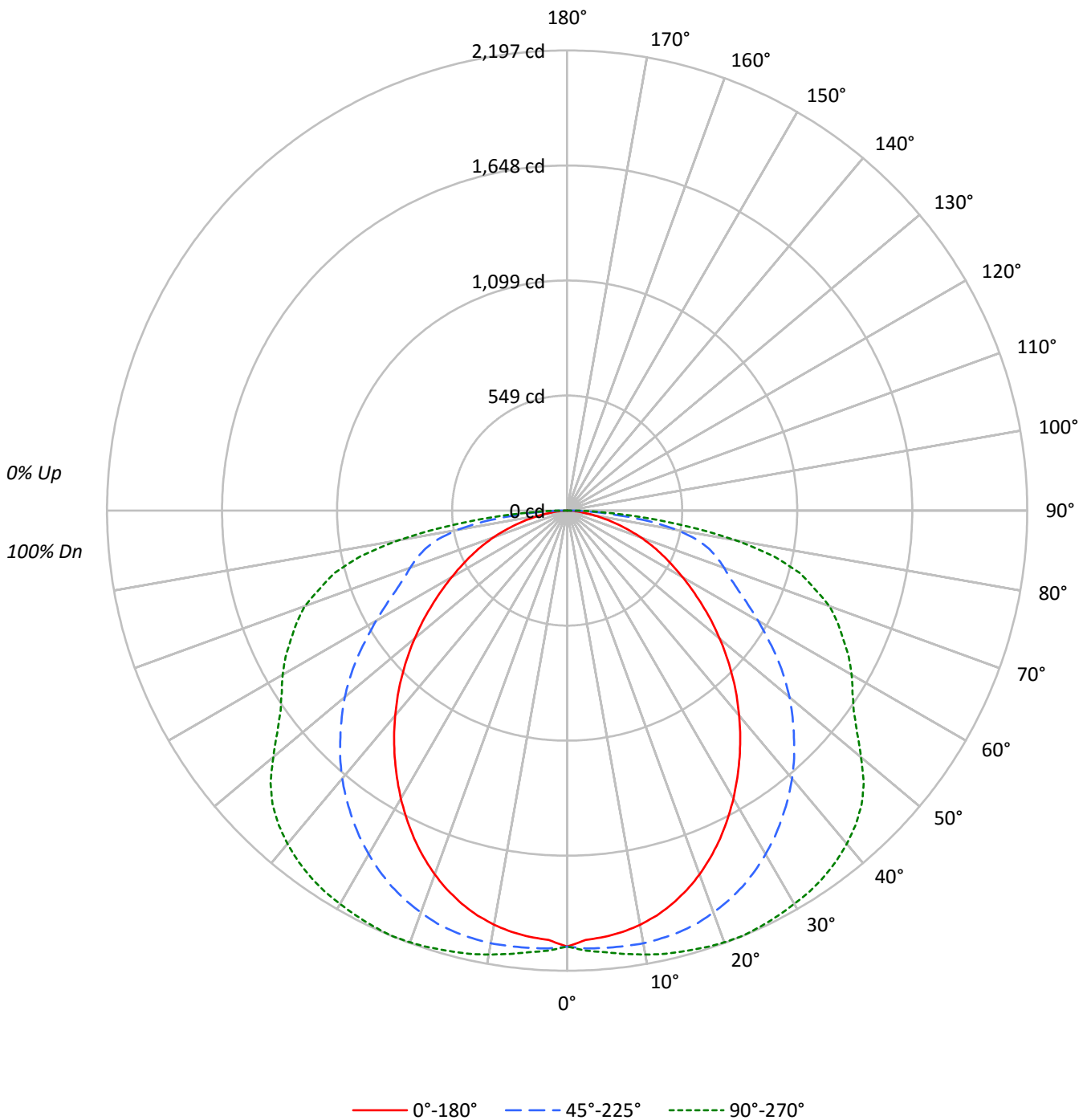
**Summary**

Lumens per Lamp: 4450 (2 lamps)  
Luminaire Lumens: 6987.5 lumens  
Efficiency: 78.5%  
Efficacy: 116.5 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.55 / 1.46  
Luminous Opening: Rectangular (W 1.95' x L: 3.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 60  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	93	93	93	93	91	91	91	91	87	87	87		84	84	84		80	80	80	79
1	84	80	76	73	82	78	75	72	75	72	69		72	69	67		69	67	65	63
2	76	69	63	58	74	67	62	57	65	60	56		62	58	55		59	56	53	52
3	69	60	53	48	67	59	52	47	56	51	46		54	49	45		52	48	45	43
4	63	53	46	40	61	52	45	40	50	44	39		48	43	38		46	42	38	36
5	58	47	40	34	56	46	39	34	44	38	34		43	37	33		41	37	33	31
6	53	42	35	30	52	41	35	29	40	34	29		39	33	29		37	32	29	27
7	49	38	31	26	48	38	31	26	36	30	26		35	30	26		34	29	25	24
8	46	35	28	23	45	34	28	23	33	27	23		32	27	23		31	26	23	21
9	43	32	25	21	42	31	25	21	31	25	21		30	24	20		29	24	20	19
10	40	29	23	19	39	29	23	19	28	23	19		27	22	19		27	22	18	17

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2931	2931	2931
5°	2888	2962	2992
10°	2871	3000	3077
15°	2833	3035	3173
20°	2770	3060	3287
25°	2685	3078	3403
30°	2581	3080	3526
35°	2468	3077	3672
40°	2348	3072	3819
45°	2221	3050	3959
50°	2083	3037	4012
55°	1935	3002	4100
60°	1792	2965	4420
65°	1670	3005	4848
70°	1539	3280	5487
75°	1336	3808	6249
80°	1067	4319	6637
85°	743	3781	5537



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	199.2	2.9	2.2
10°-20°	584.6	8.4	6.6
20°-30°	906.9	13.0	10.2
30°-40°	1117.4	16.0	12.6
40°-50°	1186.8	17.0	13.3
50°-60°	1095.3	15.7	12.3
60°-70°	929.1	13.3	10.4
70°-80°	713.9	10.2	8.0
80°-90°	254.3	3.6	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°	1690.7	24.2	19.0
0°-40°	2808.1	40.2	31.6
0°-60°	5090.2	72.8	57.2
0°-90°	6987.5	100.0	78.5
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°	6987.5	100.0	78.5

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2081	2081	2081	2081	2081	
5°	2043	2062	2096	2110	2117	194
15°	1943	1986	2082	2149	2177	547
25°	1728	1808	1981	2126	2190	794
35°	1436	1550	1790	2018	2136	897
45°	1115	1240	1532	1836	1988	860
55°	788	903	1223	1527	1670	706
65°	501	581	902	1274	1455	497
75°	246	340	700	1010	1149	262
85°	46	145	234	293	343	59
90°	4	10	22	29	37	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2081.4	2081.4	2081.4	2081.4	2081.4
2.5°	2051.5	2065.8	2092.7	2098.9	2102.8
5°	2043.4	2061.5	2095.6	2110.0	2116.7
7.5°	2029.2	2051.5	2097.7	2122.5	2135.3
10°	2008.0	2037.4	2098.0	2133.8	2152.1
12.5°	1979.7	2015.7	2091.2	2146.1	2168.0
15°	1943.3	1986.2	2081.9	2148.8	2176.7
17.5°	1899.6	1950.3	2066.7	2146.4	2186.8
20°	1848.6	1907.5	2041.9	2145.4	2193.7
22.5°	1791.1	1859.2	2014.1	2137.9	2196.6
25°	1727.8	1807.7	1980.9	2125.6	2189.9
27.5°	1659.3	1750.4	1940.2	2102.1	2180.7
30°	1587.5	1688.1	1894.5	2076.3	2168.7
32.5°	1512.5	1620.7	1845.2	2048.4	2155.3
35°	1435.5	1550.1	1790.1	2017.9	2136.0
37.5°	1357.3	1476.2	1732.8	1980.9	2110.0
40°	1277.3	1398.8	1671.0	1938.0	2077.6
42.5°	1196.9	1319.4	1603.9	1888.2	2037.4
45°	1115.2	1239.7	1531.7	1836.3	1988.0
47.5°	1032.7	1161.1	1459.8	1774.7	1921.0
50°	950.8	1078.6	1386.2	1699.2	1831.5
52.5°	869.1	992.2	1306.4	1610.7	1744.9
55°	788.2	903.4	1222.6	1527.4	1670.1
57.5°	710.1	815.9	1134.6	1453.1	1615.5
60°	636.4	731.7	1052.8	1393.7	1569.3
62.5°	566.7	653.0	974.7	1333.5	1515.9
65°	501.3	580.7	902.0	1274.2	1455.0
67.5°	437.6	513.1	841.6	1219.8	1397.6
70°	373.8	449.1	796.7	1164.7	1332.8
72.5°	309.1	391.4	752.1	1093.8	1238.3
75°	245.6	340.1	700.0	1010.0	1148.6
77.5°	185.9	299.2	629.5	893.1	1011.0
80°	131.6	265.1	532.6	735.6	818.5
82.5°	84.2	217.4	397.4	523.4	580.9
85°	46.0	144.6	234.0	293.4	342.7
87.5°	18.1	60.6	94.3	121.2	143.9
90°	3.6	10.4	21.7	28.6	37.3

(END OF REPORT)