

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: 23388

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 23388  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R2-WB-2T5-14  
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: -

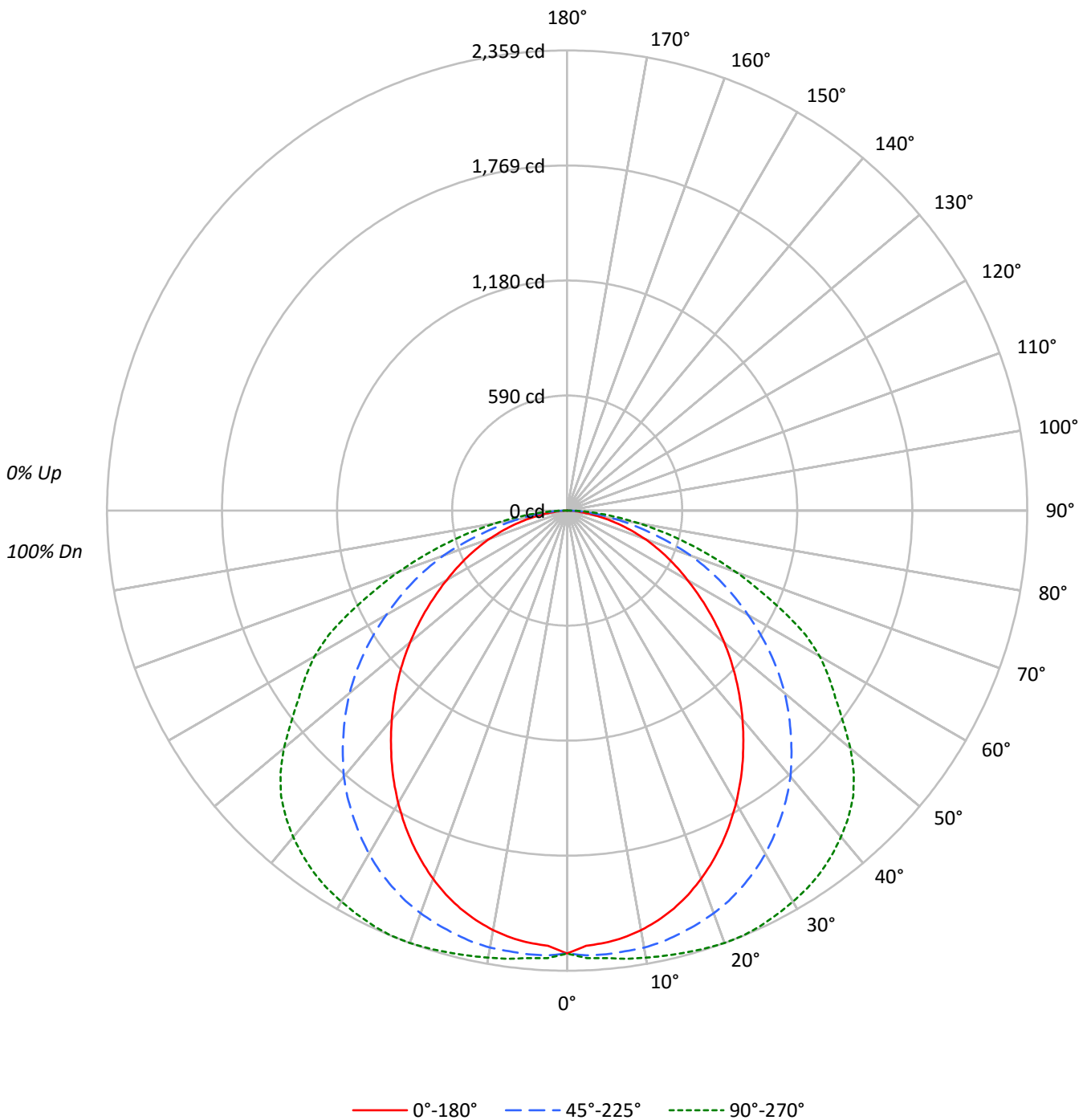
**Summary**

Lumens per Lamp: 4450 (2 lamps)  
Luminaire Lumens: 6878.3 lumens  
Efficiency: 77.3%  
Efficacy: 114.6 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.51 / 1.43  
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	92	92	92	92	90	90	90	90	86	86	86	82	82	82	79	79	79	77						77													
1	84	80	77	74	82	79	75	73	75	73	70	72	70	68	69	68	66	65						65													
2	76	70	65	60	74	68	63	59	66	61	58	63	60	57	61	58	55	54						54													
3	69	61	55	50	68	60	54	49	58	53	48	56	51	48	54	50	47	45						45													
4	64	54	47	42	62	53	47	42	51	46	41	49	44	41	48	43	40	38						38													
5	58	48	41	36	57	47	41	36	46	40	35	44	39	35	43	38	35	33						33													
6	54	43	36	31	52	43	36	31	41	35	31	40	35	31	39	34	30	29						29													
7	50	39	32	28	48	39	32	28	37	32	27	36	31	27	35	31	27	25						25													
8	46	36	29	25	45	35	29	25	34	28	24	33	28	24	32	28	24	23						23													
9	43	33	26	22	42	32	26	22	31	26	22	31	25	22	30	25	22	20						20													
10	41	30	24	20	40	30	24	20	29	24	20	28	23	20	28	23	20	18						18													

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

	0°	45°	90°
0°	6776	6776	6776
5°	6664	6841	6899
10°	6620	6895	7054
15°	6527	6934	7248
20°	6382	6977	7492
25°	6192	7002	7734
30°	5968	7003	7978
35°	5715	6973	8251
40°	5450	6939	8510
45°	5172	6846	8752
50°	4881	6758	8801
55°	4565	6607	8742
60°	4256	6400	8930
65°	3989	6183	8626
70°	3695	5890	8033
75°	3251	5151	7251
80°	2637	4342	6401
85°	1753	3750	5294



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	216.7	3.2	2.4
10°-20°	631.6	9.2	7.1
20°-30°	975.9	14.2	11.0
30°-40°	1196.1	17.4	13.4
40°-50°	1258.2	18.3	14.1
50°-60°	1137.2	16.5	12.8
60°-70°	864.0	12.6	9.7
70°-80°	476.8	6.9	5.4
80°-90°	121.8	1.8	1.4
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°	1824.2	26.5	20.5
0°-40°	3020.2	43.9	33.9
0°-60°	5415.7	78.7	60.9
0°-90°	6878.3	100.0	77.3
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°	6878.3	100.0	77.3

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2270	2270	2270	2270	2270	
5°	2224	2246	2283	2297	2303	211
15°	2112	2154	2244	2314	2346	595
25°	1880	1953	2126	2278	2348	865
35°	1568	1677	1914	2142	2264	981
45°	1225	1344	1622	1915	2073	945
55°	877	984	1270	1549	1680	786
65°	565	624	876	1109	1221	560
75°	282	336	447	550	629	300
85°	51	63	110	126	155	66
90°	2	4	8	11	17	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2270.4	2270.4	2270.4	2270.4	2270.4
2.5°	2233.7	2251.5	2282.3	2291.8	2296.2
5°	2224.3	2245.5	2283.4	2297.1	2302.7
7.5°	2208.4	2234.8	2278.9	2305.1	2317.8
10°	2184.4	2215.8	2275.0	2311.1	2327.5
12.5°	2152.4	2187.9	2263.5	2313.5	2336.4
15°	2112.2	2153.6	2244.2	2313.8	2345.7
17.5°	2064.3	2113.9	2222.4	2310.7	2353.5
20°	2009.3	2066.3	2196.6	2305.6	2358.8
22.5°	1947.9	2011.6	2165.1	2295.5	2358.2
25°	1880.3	1952.7	2126.1	2278.1	2348.4
27.5°	1808.1	1889.0	2082.6	2249.5	2333.3
30°	1731.7	1822.1	2031.9	2217.5	2314.9
32.5°	1651.8	1752.3	1974.8	2181.9	2293.6
35°	1568.5	1677.1	1913.8	2141.5	2264.5
37.5°	1484.1	1596.7	1849.8	2095.1	2228.1
40°	1398.7	1513.9	1780.9	2040.7	2184.3
42.5°	1311.9	1429.0	1702.6	1978.4	2134.1
45°	1225.3	1344.4	1622.0	1915.2	2073.4
47.5°	1138.2	1259.2	1540.4	1842.8	1993.6
50°	1051.1	1171.4	1455.5	1756.0	1895.5
52.5°	964.1	1078.8	1365.0	1656.9	1783.4
55°	877.3	983.6	1269.6	1548.6	1679.9
57.5°	793.5	888.1	1171.5	1446.4	1591.4
60°	713.0	794.3	1072.1	1347.5	1495.9
62.5°	637.2	706.4	973.5	1236.1	1376.8
65°	564.8	624.5	875.5	1109.2	1221.4
67.5°	494.5	548.0	776.4	960.7	1064.1
70°	423.4	475.1	674.9	820.2	920.5
72.5°	351.7	405.5	559.5	687.2	771.2
75°	281.9	336.5	446.7	549.9	628.8
77.5°	215.0	263.9	343.8	433.4	497.2
80°	153.4	191.5	252.6	321.6	372.4
82.5°	98.1	119.8	176.3	216.5	253.5
85°	51.2	63.3	109.5	125.8	154.6
87.5°	17.3	25.3	45.7	54.3	72.1
90°	2.1	4.1	7.9	10.8	17.3

(END OF REPORT)