

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: 23306

Luminaire Tested: **R2-WL-1T5-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 23306  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R2-WL-1T5-24  
Description: WITH WHITE INTERIOR AND FROSTED LINEAR PRISMATIC PLASTIC LENS  
  
Light Source: ONE SYLVANIA 54 WATT T5HO LAMP  
  
FP54/841. LUMEN RATING = 4450 LMS.  
  
Ballast/Driver: -

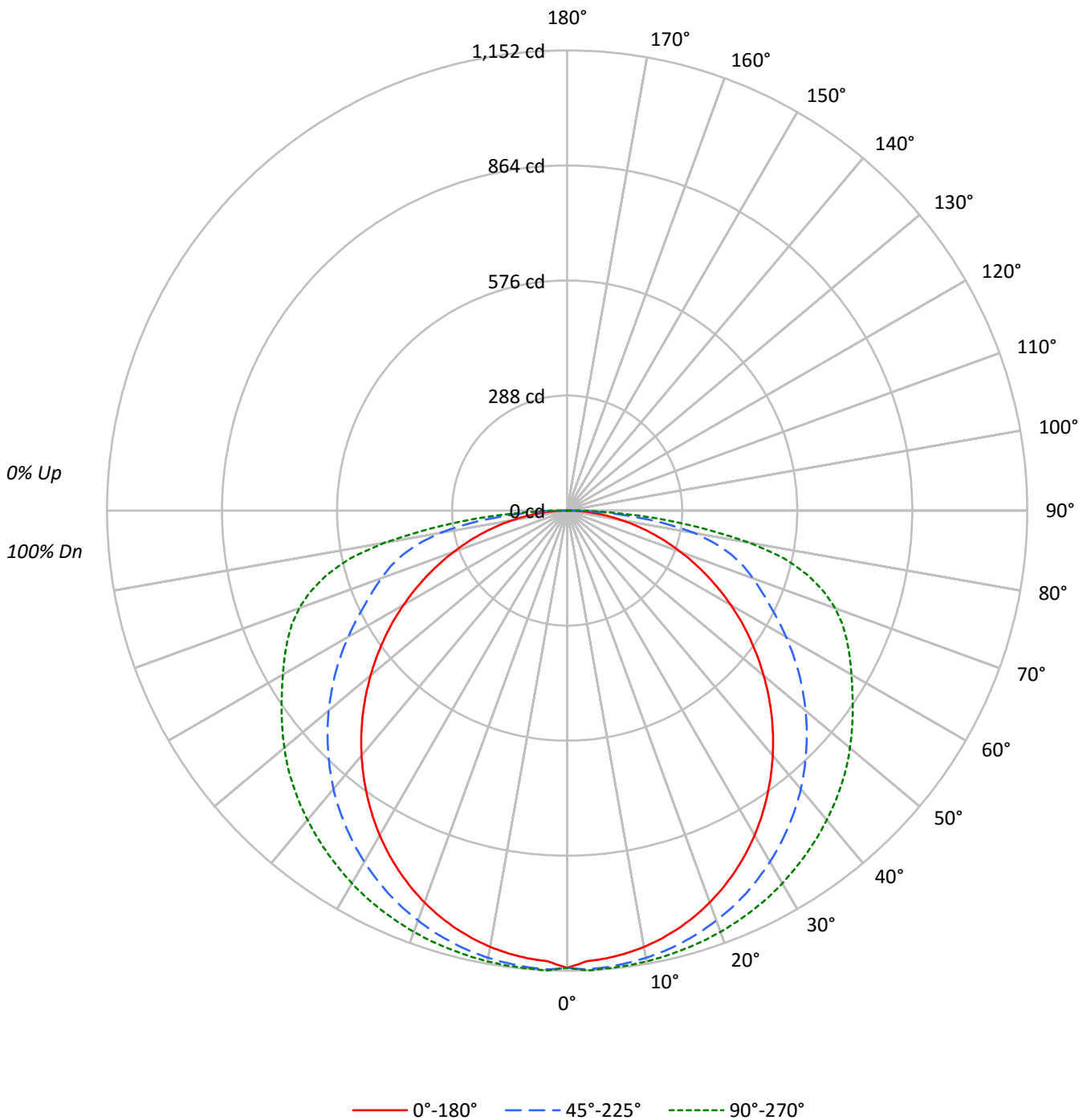
**Summary**

Lumens per Lamp: 4450 (1 lamp)  
Luminaire Lumens: 3976.6 lumens  
Efficiency: 89.4%  
Efficacy: 120.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.41 / 1.46  
Luminous Opening: Rectangular (W 1.95' x L: 3.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 33  
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				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	106	106	106	106	104	104	104	104	99	99	99	95	95	95	91	91	91	89
1	95	90	86	82	93	88	84	81	84	81	78	81	78	76	78	75	73	71
2	86	77	71	65	83	76	69	64	72	67	62	69	65	61	67	63	60	57
3	78	67	59	53	75	66	58	52	63	57	51	60	55	50	58	53	49	47
4	71	59	51	44	69	58	50	44	56	49	43	53	47	42	51	46	42	40
5	65	52	44	37	63	51	43	37	49	42	37	48	41	36	46	40	36	34
6	60	47	39	32	58	46	38	32	45	37	32	43	37	32	41	36	31	29
7	55	43	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
8	51	39	31	25	50	38	30	25	37	30	25	36	29	25	35	29	25	23
9	48	35	28	23	47	35	28	23	34	27	22	33	27	22	32	26	22	20
10	45	33	25	20	44	32	25	20	31	25	20	30	24	20	30	24	20	18

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

	0°	45°	90°
0°	1612	1612	1612
5°	1591	1622	1626
10°	1586	1626	1639
15°	1577	1631	1657
20°	1565	1637	1682
25°	1547	1644	1713
30°	1526	1651	1752
35°	1500	1661	1799
40°	1472	1674	1859
45°	1441	1686	1934
50°	1407	1707	2025
55°	1372	1738	2143
60°	1333	1784	2315
65°	1290	1863	2576
70°	1242	2037	2938
75°	1192	2313	3391
80°	1130	2623	3760
85°	1042	2604	3638



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	108.7	2.7	2.4
10°-20°	314.5	7.9	7.1
20°-30°	485.7	12.2	10.9
30°-40°	602.4	15.1	13.5
40°-50°	653.5	16.4	14.7
50°-60°	636.5	16.0	14.3
60°-70°	564.9	14.2	12.7
70°-80°	439.3	11.0	9.9
80°-90°	171.1	4.3	3.8
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°	908.8	22.9	20.4
0°-40°	1511.2	38.0	34.0
0°-60°	2801.3	70.4	62.9
0°-90°	3976.6	100.0	89.4
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°	3976.6	100.0	89.4

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1145	1145	1145	1145	1145	
5°	1125	1133	1147	1150	1150	107
15°	1082	1094	1119	1131	1136	305
25°	996	1016	1058	1089	1103	459
35°	872	900	966	1022	1046	546
45°	724	758	847	933	971	558
55°	559	598	708	823	873	500
65°	387	429	559	711	773	383
75°	219	268	425	568	623	232
85°	64	108	161	207	225	73
90°	5	11	17	20	22	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1144.8	1144.8	1144.8	1144.8	1144.8
2.5°	1129.3	1137.0	1149.6	1151.2	1152.4
5°	1125.3	1133.2	1147.2	1149.6	1150.3
7.5°	1118.7	1127.6	1142.8	1146.6	1148.8
10°	1109.2	1119.0	1137.0	1143.0	1146.0
12.5°	1096.9	1107.9	1129.1	1138.0	1141.8
15°	1082.0	1094.4	1118.8	1131.2	1136.3
17.5°	1064.4	1077.9	1106.5	1121.9	1130.3
20°	1044.2	1059.4	1092.1	1113.0	1122.3
22.5°	1021.1	1038.6	1076.2	1101.4	1113.0
25°	995.9	1015.5	1058.1	1089.4	1102.7
27.5°	968.4	989.8	1037.4	1074.7	1091.1
30°	938.6	962.1	1015.6	1058.8	1077.6
32.5°	906.6	932.3	991.7	1041.0	1062.4
35°	872.5	900.4	966.0	1021.8	1046.4
37.5°	837.6	867.1	939.0	1001.8	1029.3
40°	800.8	832.3	910.5	979.9	1011.2
42.5°	762.8	795.9	878.9	956.8	992.0
45°	723.6	758.4	846.7	933.0	971.1
47.5°	683.4	720.6	813.8	908.0	948.9
50°	642.3	680.7	779.3	881.1	924.4
52.5°	600.8	639.3	743.7	853.2	898.9
55°	558.8	597.5	707.9	823.3	872.7
57.5°	516.4	555.2	670.4	793.1	846.7
60°	473.4	513.3	633.3	765.1	821.9
62.5°	430.3	470.7	595.4	737.7	797.7
65°	387.3	428.6	559.2	711.3	773.1
67.5°	344.2	387.2	526.3	683.6	746.4
70°	301.6	345.7	494.8	652.8	713.7
72.5°	259.8	305.7	463.3	615.6	673.7
75°	219.1	268.0	425.1	568.4	623.3
77.5°	178.7	234.7	379.4	510.0	558.3
80°	139.3	201.1	323.5	429.8	463.7
82.5°	101.2	159.2	246.3	319.4	342.0
85°	64.5	107.7	161.2	207.1	225.2
87.5°	29.3	50.1	75.0	96.2	106.5
90°	5.3	11.1	16.8	20.5	21.6

(END OF REPORT)