

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-1N5-24**

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-1N5-24  
Description: WITH WHITE INTERIOR AND FROSTED LINEAR PRISMATIC PLASTIC LENS  
  
Light Source: ONE SYLVANIA 28 WATT T5 LAMP  
  
FP28/841. LUMEN RATING = 2600 LMS.  
  
Ballast/Driver: -

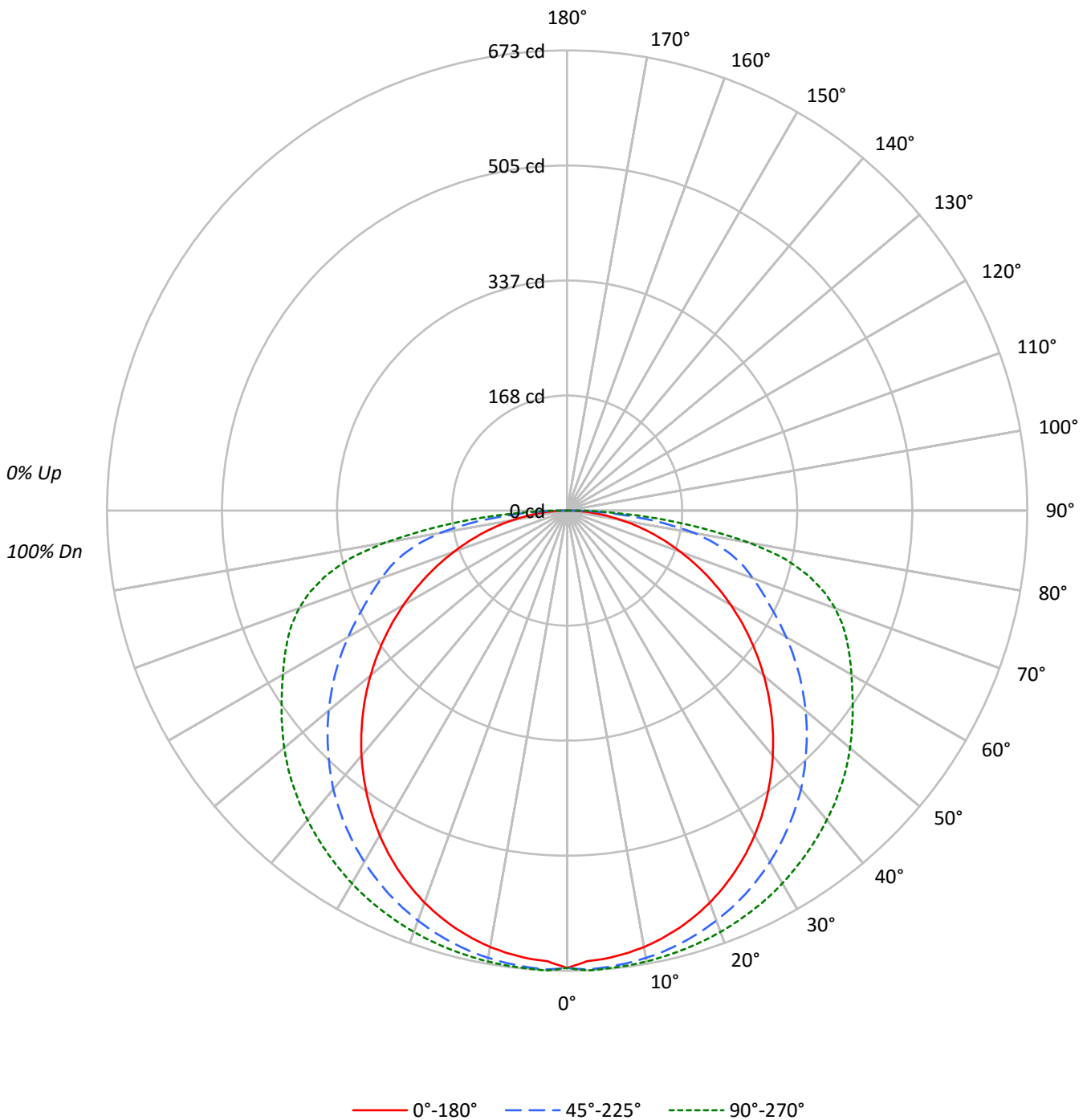
**Summary**

Lumens per Lamp: 2600 (1 lamp)  
Luminaire Lumens: 2323.4 lumens  
Efficiency: 89.4%  
Efficacy: 70.4 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 (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



TEST NUMBER: 23306  
CATALOG NUMBER: R2-WL-1N5-24

### Luminous Intensity Polar Plot





TEST NUMBER: 23306  
 CATALOG NUMBER: R2-WL-1N5-24

**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°	942	942	942
5°	929	947	950
10°	927	950	957
15°	922	953	968
20°	914	956	983
25°	904	961	1001
30°	892	965	1024
35°	876	970	1051
40°	860	978	1086
45°	842	985	1130
50°	822	997	1183
55°	802	1015	1252
60°	779	1042	1352
65°	754	1089	1505
70°	725	1190	1717
75°	696	1351	1981
80°	660	1533	2197
85°	609	1522	2126



TEST NUMBER: 23306  
 CATALOG NUMBER: R2-WL-1N5-24

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	63.5	2.7	2.4
10°-20°	183.8	7.9	7.1
20°-30°	283.8	12.2	10.9
30°-40°	352.0	15.1	13.5
40°-50°	381.8	16.4	14.7
50°-60°	371.9	16.0	14.3
60°-70°	330.0	14.2	12.7
70°-80°	256.7	11.0	9.9
80°-90°	100.0	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°	531.0	22.9	20.4
0°-40°	883.0	38.0	34.0
0°-60°	1636.7	70.4	62.9
0°-90°	2323.4	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°	2323.4	100.0	89.4

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	669	669	669	669	669	
5°	658	662	670	672	672	62
15°	632	639	654	661	664	178
25°	582	593	618	636	644	268
35°	510	526	564	597	611	319
45°	423	443	495	545	567	326
55°	326	349	414	481	510	292
65°	226	250	327	416	452	224
75°	128	157	248	332	364	135
85°	38	63	94	121	132	42
90°	3	6	10	12	13	



TEST NUMBER: 23306  
 CATALOG NUMBER: R2-WL-1N5-24

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	668.9	668.9	668.9	668.9	668.9
2.5°	659.8	664.3	671.7	672.6	673.3
5°	657.5	662.1	670.3	671.7	672.1
7.5°	653.6	658.8	667.7	669.9	671.2
10°	648.1	653.8	664.3	667.8	669.6
12.5°	640.9	647.3	659.7	664.9	667.1
15°	632.2	639.4	653.7	660.9	663.9
17.5°	621.9	629.8	646.5	655.5	660.4
20°	610.1	619.0	638.1	650.3	655.7
22.5°	596.6	606.8	628.8	643.5	650.3
25°	581.9	593.3	618.2	636.5	644.3
27.5°	565.8	578.3	606.1	627.9	637.5
30°	548.4	562.1	593.4	618.6	629.6
32.5°	529.7	544.7	579.4	608.2	620.7
35°	509.8	526.1	564.4	597.0	611.4
37.5°	489.4	506.6	548.6	585.3	601.4
40°	467.9	486.3	532.0	572.5	590.8
42.5°	445.7	465.0	513.5	559.0	579.6
45°	422.8	443.1	494.7	545.1	567.4
47.5°	399.3	421.0	475.5	530.5	554.4
50°	375.3	397.7	455.3	514.8	540.1
52.5°	351.0	373.5	434.5	498.5	525.2
55°	326.5	349.1	413.6	481.0	509.9
57.5°	301.7	324.4	391.7	463.4	494.7
60°	276.6	299.9	370.0	447.0	480.2
62.5°	251.4	275.0	347.9	431.0	466.1
65°	226.3	250.4	326.7	415.6	451.7
67.5°	201.1	226.2	307.5	399.4	436.1
70°	176.2	202.0	289.1	381.4	417.0
72.5°	151.8	178.6	270.7	359.7	393.6
75°	128.0	156.6	248.4	332.1	364.2
77.5°	104.4	137.1	221.7	298.0	326.2
80°	81.4	117.5	189.0	251.1	270.9
82.5°	59.1	93.0	143.9	186.6	199.8
85°	37.7	62.9	94.2	121.0	131.6
87.5°	17.1	29.3	43.8	56.2	62.2
90°	3.1	6.5	9.8	12.0	12.6

(END OF REPORT)