

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: 23389

Luminaire Tested: **R2-WL-1N5-14**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 23389  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R2-WL-1N5-14  
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: -

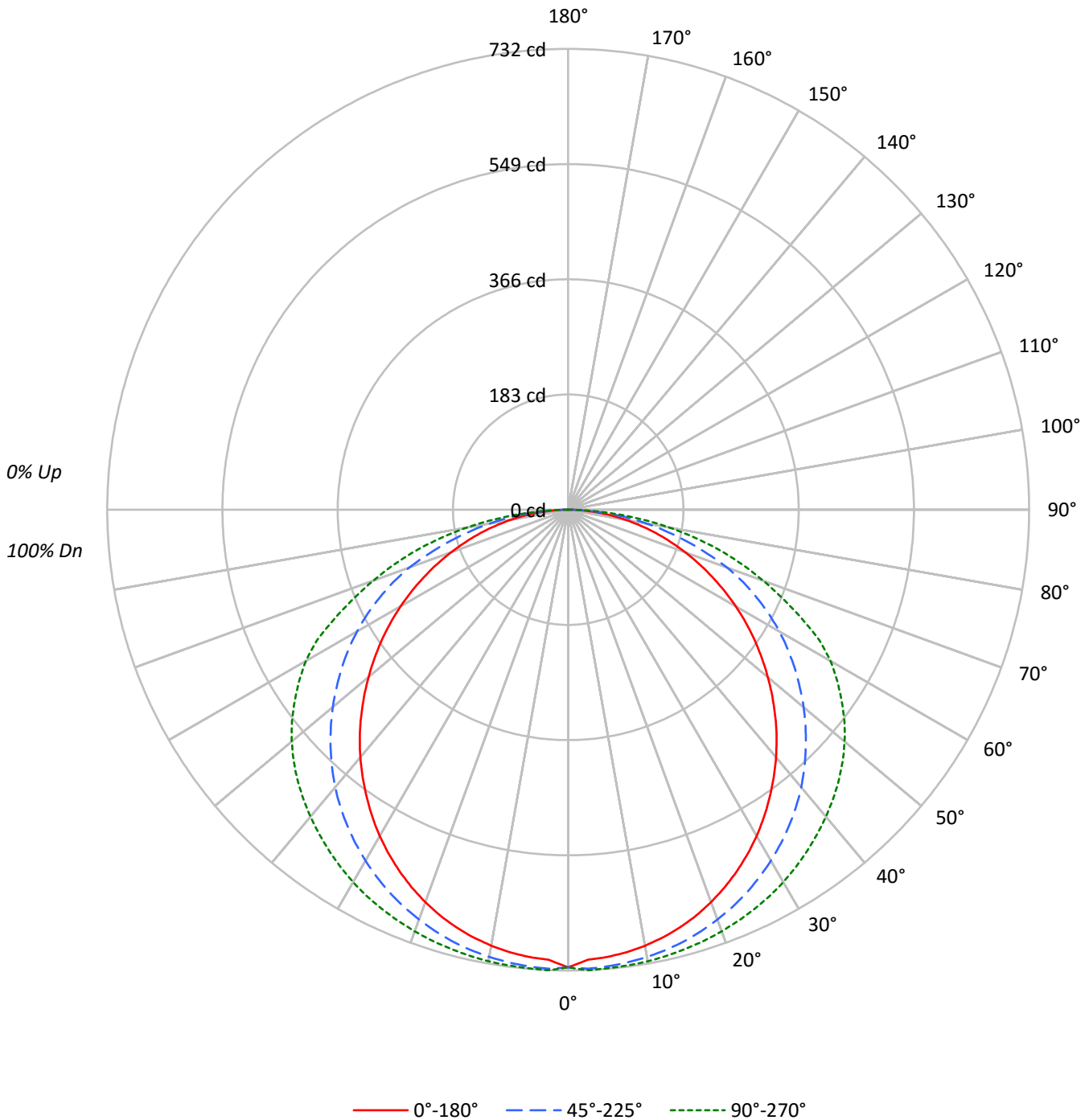
**Summary**

Lumens per Lamp: 2600 (1 lamp)  
Luminaire Lumens: 2365.7 lumens  
Efficiency: 91.0%  
Efficacy: 69.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.4 / 1.45  
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 34  
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	108	108	108	108	106	106	106	106	101	101	101	97	97	97	93	93	93	91
1	98	93	89	85	96	91	87	84	87	84	81	84	81	79	80	78	76	74
2	89	81	74	68	86	79	73	68	76	70	66	73	68	64	70	66	63	61
3	80	70	62	56	78	69	62	56	66	60	55	63	58	54	61	57	53	51
4	73	62	53	47	71	61	53	47	58	51	46	56	50	45	54	49	45	43
5	67	55	47	40	65	54	46	40	52	45	40	50	44	39	48	43	39	37
6	62	49	41	35	60	49	40	35	47	40	34	45	39	34	44	38	34	32
7	57	45	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
8	53	41	33	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25
9	50	37	30	24	48	37	29	24	36	29	24	35	28	24	34	28	24	22
10	47	34	27	22	45	34	27	22	33	26	22	32	26	22	31	26	22	20

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

	0°	45°	90°
0°	2170	2170	2170
5°	2136	2181	2190
10°	2132	2186	2207
15°	2122	2194	2230
20°	2107	2200	2264
25°	2087	2210	2305
30°	2062	2219	2354
35°	2032	2230	2411
40°	2000	2243	2480
45°	1963	2252	2565
50°	1922	2266	2661
55°	1881	2285	2759
60°	1836	2313	2872
65°	1783	2333	2891
70°	1725	2339	2876
75°	1664	2249	2876
80°	1588	2169	2798
85°	1435	2007	2517



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	69.0	2.9	2.7
10°-20°	199.7	8.4	7.7
20°-30°	308.4	13.0	11.9
30°-40°	382.1	16.2	14.7
40°-50°	412.4	17.4	15.9
50°-60°	395.2	16.7	15.2
60°-70°	326.2	13.8	12.5
70°-80°	207.0	8.7	8.0
80°-90°	65.7	2.8	2.5
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°	577.1	24.4	22.2
0°-40°	959.1	40.5	36.9
0°-60°	1766.8	74.7	68.0
0°-90°	2365.7	100.0	91.0
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°	2365.7	100.0	91.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	727	727	727	727	727	
5°	713	719	728	731	731	68
15°	687	695	710	718	722	194
25°	634	646	671	691	700	292
35°	558	573	612	646	662	349
45°	465	484	534	584	608	359
55°	362	381	439	502	530	323
65°	252	272	330	390	409	250
75°	144	160	195	233	249	153
85°	42	46	59	70	74	48
90°	3	4	5	5	6	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	726.9	726.9	726.9	726.9	726.9
2.5°	715.6	721.3	729.8	731.9	732.3
5°	713.1	719.2	728.0	730.8	731.0
7.5°	709.1	715.5	725.3	728.8	730.1
10°	703.3	710.3	721.4	726.5	728.3
12.5°	695.8	703.4	716.4	723.2	725.5
15°	686.8	694.9	709.9	718.5	721.8
17.5°	676.0	684.7	702.1	712.6	717.9
20°	663.4	673.0	692.8	706.5	712.7
22.5°	649.3	660.0	682.6	699.3	706.7
25°	633.7	645.6	671.0	691.1	699.8
27.5°	616.8	629.5	657.9	681.5	692.2
30°	598.4	612.2	643.8	671.0	683.1
32.5°	578.8	593.3	628.5	659.1	672.9
35°	557.8	573.4	612.0	646.1	661.6
37.5°	536.1	552.4	594.5	632.1	649.5
40°	513.4	530.3	575.7	616.8	636.6
42.5°	489.8	507.3	555.1	600.7	622.7
45°	465.1	483.7	533.5	583.8	607.7
47.5°	439.7	459.8	511.3	565.6	591.2
50°	413.9	434.3	488.0	546.5	573.0
52.5°	387.7	408.1	463.6	525.4	552.9
55°	361.5	381.4	439.2	502.2	530.2
57.5°	334.7	354.6	413.8	477.5	506.6
60°	307.5	327.2	387.4	451.6	481.2
62.5°	280.0	299.4	359.5	423.9	449.9
65°	252.5	271.5	330.3	390.0	409.3
67.5°	224.9	243.8	300.6	349.4	368.8
70°	197.7	216.2	268.0	309.7	329.6
72.5°	170.7	188.4	231.8	271.3	290.0
75°	144.3	160.5	195.0	233.0	249.4
77.5°	118.2	132.2	160.2	193.3	206.2
80°	92.4	103.0	126.2	152.0	162.8
82.5°	66.8	73.4	92.2	111.6	118.5
85°	41.9	46.2	58.6	69.5	73.5
87.5°	18.5	21.2	26.2	29.2	31.2
90°	2.8	3.9	4.7	4.7	5.8

(END OF REPORT)