

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: 23307

Luminaire Tested: **R2-WB-1N5-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 23307  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: R2-WB-1N5-24  
Description: WITH WHITE INTERIOR AND CLEAR LINEAR PRISMATIC PLASTIC LENS WITH  
WHITE BAFFLE  
Light Source: ONE SYLVANIA 28 WATT T5 LAMP  
  
FP28/841. LUMEN RATING = 2600 LMS.  
  
Ballast/Driver: -

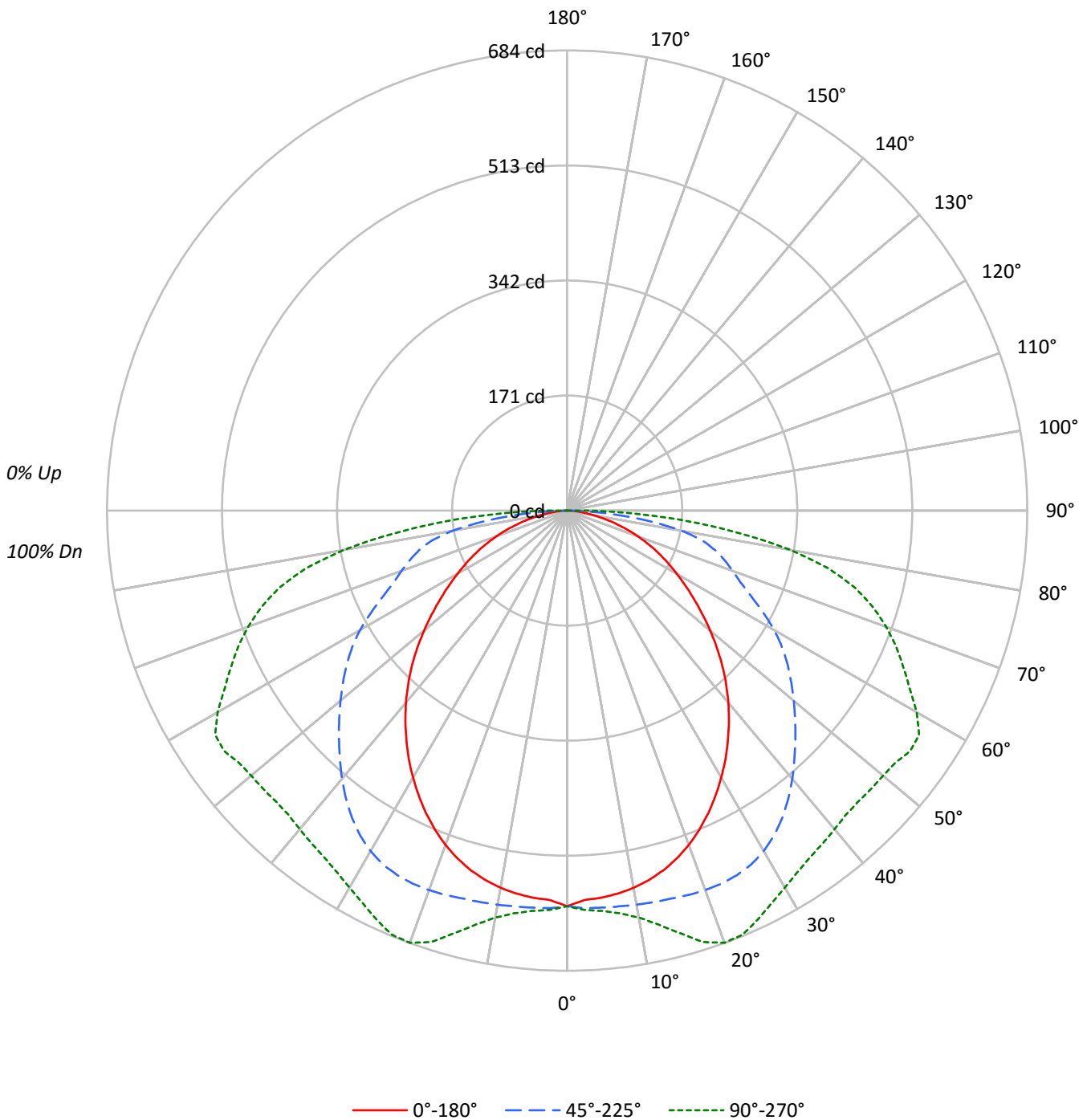
**Summary**

Lumens per Lamp: 2600 (1 lamp)  
Luminaire Lumens: 2227.0 lumens  
Efficiency: 85.7%  
Efficacy: 67.5 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.61 / 1.53  
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	102	102	102	102	100	100	100	100	95	95	95	91	91	91	87	87	87	86
1	91	86	82	78	89	84	81	77	81	77	74	77	75	72	74	72	70	68
2	82	74	67	62	80	72	66	61	69	64	59	66	62	58	64	60	57	55
3	74	64	56	50	72	63	55	50	60	54	49	58	52	48	55	51	47	45
4	68	56	48	42	65	55	47	41	53	46	41	51	45	40	49	44	40	38
5	62	50	42	35	60	49	41	35	47	40	35	45	39	34	44	38	34	32
6	57	45	37	31	55	44	36	31	42	35	30	41	35	30	39	34	30	28
7	53	40	32	27	51	40	32	27	38	31	27	37	31	26	36	30	26	24
8	49	37	29	24	48	36	29	24	35	28	24	34	28	23	33	27	23	21
9	46	34	26	21	44	33	26	21	32	26	21	31	25	21	30	25	21	19
10	43	31	24	19	42	31	24	19	30	23	19	29	23	19	28	23	19	17

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

	0°	45°	90°
0°	828	828	828
5°	816	837	844
10°	814	851	878
15°	807	871	948
20°	792	900	1024
25°	771	929	1042
30°	745	950	1052
35°	716	958	1082
40°	685	957	1137
45°	650	955	1219
50°	608	963	1343
55°	566	983	1529
60°	531	1002	1689
65°	499	1006	1838
70°	460	1078	2078
75°	404	1240	2411
80°	325	1406	2734
85°	229	1246	2897



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	56.4	2.5	2.2
10°-20°	170.1	7.6	6.5
20°-30°	271.7	12.2	10.5
30°-40°	334.0	15.0	12.8
40°-50°	361.2	16.2	13.9
50°-60°	362.4	16.3	13.9
60°-70°	320.6	14.4	12.3
70°-80°	250.2	11.2	9.6
80°-90°	100.3	4.5	3.9
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°	498.3	22.4	19.2
0°-40°	832.3	37.4	32.0
0°-60°	1555.9	69.9	59.8
0°-90°	2227.0	100.0	85.7
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°	2227.0	100.0	85.7

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	588	588	588	588	588	
5°	578	584	592	596	597	55
15°	553	566	597	634	650	156
25°	496	521	598	661	671	228
35°	417	449	557	604	629	260
45°	326	357	480	561	612	251
55°	231	262	400	534	623	207
65°	150	173	302	463	552	148
75°	74	101	228	374	443	79
85°	14	44	77	139	179	18
90°	1	3	8	21	30	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	588.0	588.0	588.0	588.0	588.0
2.5°	579.4	584.0	591.5	593.3	594.2
5°	577.6	583.6	592.4	596.1	597.4
7.5°	574.4	581.7	593.4	600.5	603.8
10°	569.4	578.2	594.9	607.7	614.1
12.5°	562.4	573.3	596.0	618.2	630.4
15°	553.4	566.1	597.2	634.0	650.5
17.5°	542.2	557.5	599.2	649.9	672.3
20°	528.8	547.2	600.4	663.5	683.6
22.5°	513.4	534.6	600.1	667.1	682.0
25°	496.2	521.3	597.8	660.6	670.6
27.5°	477.7	505.7	592.9	646.9	658.0
30°	458.2	488.2	584.5	631.4	647.0
32.5°	437.9	469.5	572.7	617.5	637.1
35°	416.6	448.8	557.4	603.6	629.3
37.5°	395.0	426.9	539.9	592.0	623.7
40°	372.8	404.1	520.6	581.4	618.4
42.5°	349.8	380.8	500.1	570.7	613.2
45°	326.2	357.4	479.7	561.0	611.9
47.5°	302.0	334.2	459.5	553.7	612.6
50°	277.6	310.2	439.8	547.6	612.9
52.5°	253.7	286.0	420.0	540.1	615.2
55°	230.7	262.1	400.2	534.2	622.7
57.5°	208.8	238.5	379.0	527.3	620.3
60°	188.4	215.7	355.7	509.9	599.8
62.5°	169.1	193.9	328.8	484.7	574.1
65°	149.8	173.0	301.8	463.2	551.5
67.5°	130.8	152.8	278.9	445.2	529.4
70°	111.8	133.9	261.8	423.5	504.6
72.5°	92.9	116.3	245.4	400.8	476.5
75°	74.3	100.8	227.9	373.7	443.1
77.5°	56.4	88.7	206.2	332.9	397.9
80°	40.1	79.5	173.4	284.6	337.2
82.5°	25.7	67.0	128.2	215.4	259.4
85°	14.2	44.1	77.1	139.3	179.3
87.5°	5.6	17.8	32.8	74.8	97.5
90°	1.0	3.0	8.3	21.2	29.5

(END OF REPORT)