

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: 23302

Luminaire Tested: **R2-WL-3N5-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 23302
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R2-WL-3N5-22
Description: WITH WHITE INTERIOR AND FROSTED LINEAR PRISMATIC PLASTIC LENS

Light Source: THREE SYLVANIA 14 WATT T5 LAMPS

FP14/841. LUMEN RATING = 1200 LMS.

Ballast/Driver: -

Summary

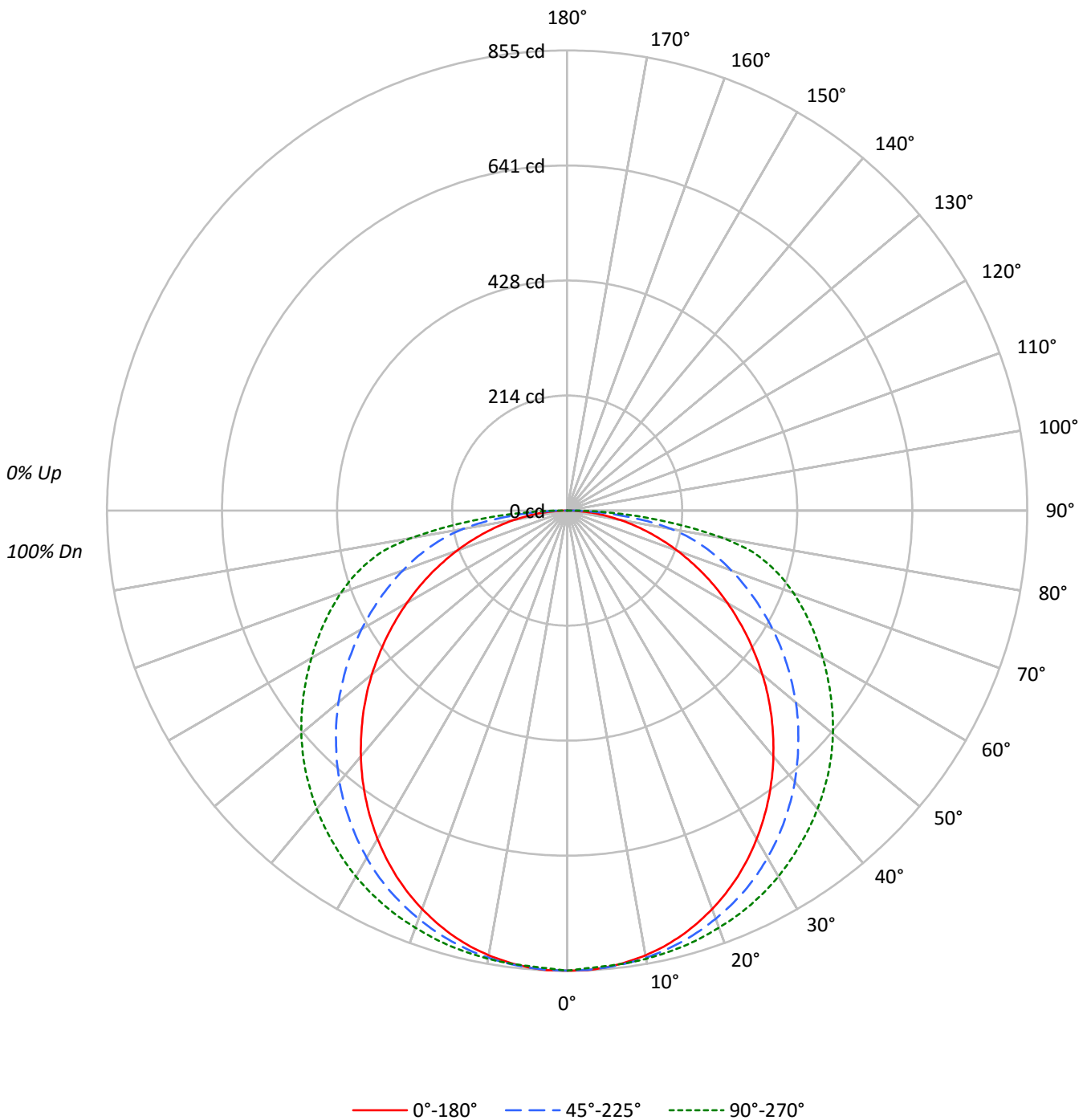
Lumens per Lamp: 1200 (3 lamps)
Luminaire Lumens: 2804.7 lumens
Efficiency: 77.9%
Efficacy: 61.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.42
Luminous Opening: Rectangular (W 1.95' x L: 1.91' x H: 0')
CIE Type: Direct

Input Watts (W): 46
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	93	93	93	93	91	91	91	91	87	87	87	83	83	83	79	79	79	78
1	84	79	76	72	81	78	74	71	74	71	69	71	69	67	68	66	65	63
2	75	68	62	57	73	67	61	57	64	59	55	61	57	54	59	56	53	51
3	68	59	53	47	66	58	52	47	56	50	46	54	49	45	52	48	44	42
4	62	52	45	39	60	51	44	39	49	43	39	47	42	38	46	41	37	36
5	57	47	39	34	55	46	39	33	44	38	33	42	37	33	41	36	32	31
6	53	42	34	29	51	41	34	29	40	33	29	38	33	29	37	32	28	27
7	49	38	31	26	47	37	30	26	36	30	25	35	29	25	34	29	25	23
8	45	34	28	23	44	34	27	23	33	27	23	32	26	22	31	26	22	21
9	42	32	25	20	41	31	25	20	30	24	20	29	24	20	28	24	20	19
10	40	29	23	19	39	29	23	18	28	22	18	27	22	18	26	22	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2470	2470	2470
5°	2471	2472	2464
10°	2462	2476	2482
15°	2448	2480	2507
20°	2423	2482	2537
25°	2392	2487	2576
30°	2351	2486	2620
35°	2303	2484	2668
40°	2249	2483	2731
45°	2192	2483	2807
50°	2129	2495	2899
55°	2060	2513	3013
60°	1989	2549	3173
65°	1920	2616	3413
70°	1840	2743	3782
75°	1754	2965	4343
80°	1661	3277	4910
85°	1522	3210	4772



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	81.0	2.9	2.3
10°-20°	234.0	8.3	6.5
20°-30°	359.4	12.8	10.0
30°-40°	440.9	15.7	12.2
40°-50°	470.6	16.8	13.1
50°-60°	447.8	16.0	12.4
60°-70°	382.3	13.6	10.6
70°-80°	281.8	10.0	7.8
80°-90°	106.8	3.8	3.0
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°	674.4	24.0	18.7
0°-40°	1115.3	39.8	31.0
0°-60°	2033.8	72.5	56.5
0°-90°	2804.7	100.0	77.9
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°	2804.7	100.0	77.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	855	855	855	855	855	
5°	852	853	852	851	849	81
15°	818	823	829	836	838	231
25°	750	760	780	800	808	345
35°	653	668	704	741	756	408
45°	536	556	608	663	687	414
55°	409	432	499	568	598	366
65°	281	306	382	465	499	278
75°	157	185	266	352	389	166
85°	46	61	97	127	144	52
90°	4	6	12	17	24	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	854.8	854.8	854.8	854.8	854.8
2.5°	854.8	856.2	854.2	852.4	851.1
5°	851.6	853.3	852.0	850.7	849.4
7.5°	846.2	848.5	848.6	848.4	848.1
10°	839.1	842.0	843.6	845.3	845.7
12.5°	829.9	833.5	837.1	841.0	842.0
15°	818.1	822.6	828.9	835.7	837.9
17.5°	804.1	809.6	818.8	828.5	831.9
20°	787.9	794.7	807.1	820.1	824.8
22.5°	770.0	778.1	794.1	810.3	817.1
25°	750.1	759.7	779.8	800.0	807.9
27.5°	728.4	739.4	763.2	787.1	797.2
30°	704.6	717.2	745.0	773.1	785.0
32.5°	679.4	693.5	725.2	757.5	771.2
35°	652.7	668.2	704.0	740.6	756.1
37.5°	625.1	642.0	681.7	723.0	740.6
40°	596.2	614.8	658.2	704.4	723.9
42.5°	566.5	585.8	633.1	684.2	705.8
45°	536.2	556.3	607.5	663.2	686.9
47.5°	505.5	526.4	581.7	641.4	666.4
50°	473.6	495.3	554.9	618.0	644.8
52.5°	441.0	463.1	526.7	593.2	621.8
55°	408.8	431.7	498.7	568.2	597.9
57.5°	376.4	400.0	469.9	542.6	573.4
60°	344.2	368.5	441.0	517.0	548.9
62.5°	312.3	337.4	411.7	491.0	524.0
65°	280.7	306.5	382.5	464.8	499.1
67.5°	249.0	276.0	353.3	438.4	473.7
70°	217.8	245.5	324.6	411.4	447.6
72.5°	187.2	215.3	295.6	383.1	419.7
75°	157.1	185.2	265.5	352.3	388.9
77.5°	127.9	155.4	233.3	316.4	352.2
80°	99.8	125.5	196.9	266.8	295.0
82.5°	72.4	94.2	150.4	199.4	219.2
85°	45.9	61.2	96.8	126.6	143.9
87.5°	20.5	28.3	45.1	61.6	74.2
90°	4.0	6.5	11.6	17.4	23.6

(END OF REPORT)