

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: ITL67610

Luminaire Tested: **Z3-WN-2T5-1C-UNV-24-T1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: ITL67610  
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WN-2T5-1C-UNV-24-T1  
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH, TWO FORMED WHITE PAINTED OUTBOARD REFLECTORS, ONE EXTRUDED FROSTED PLASTIC DIFFUSER BELOW EACH REFLECTOR, EXTRUDED CLEAR PLASTIC LENS BELOW LAMPS WITH FROSTED MICRO-LINEAR PRISMATIC SIDES AND FROSTED PLASTIC OVERLAY, LENS PRISMS OUT AND PARALLEL WITH LAMPS, OVERLAY FROSTED SIDE DOWN, DIFFUSERS FROSTED BOTH SIDES.  
Light Source: TWO 54-WATT T-5 SYLVANIA FP54/841/HO/ECO LINEAR FLUORESCENTS.  
Ballast/Driver: UNIVERSAL B254PUNV-D

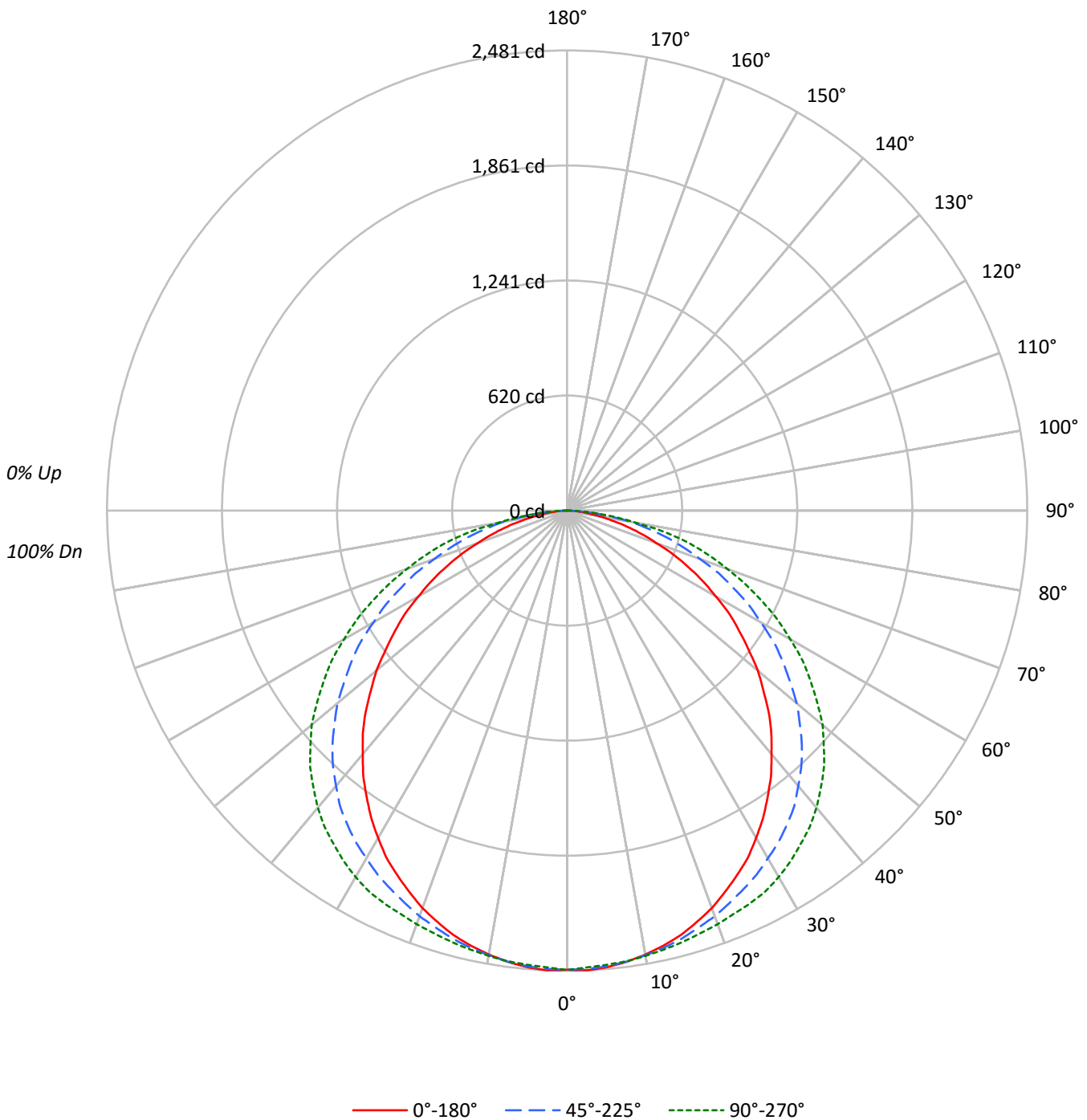
**Summary**

Lumens per Lamp: 4450 (2 lamps)  
Luminaire Lumens: 7511.9 lumens  
Efficiency: 84.4%  
Efficacy: 65.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.37 / 1.43  
Luminous Opening: Rectangular (W 1.8' x L: 3.91' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 114.4  
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	50	30	10	0	
RCR																						
0	100	100	100	100	98	98	98	98	94	94	94	90	90	90	86	86	86	84				84
1	92	87	84	80	89	86	82	79	82	79	77	79	76	74	76	74	72	70				70
2	83	76	70	65	81	74	69	64	71	67	63	69	65	61	66	63	60	58				58
3	76	66	59	54	73	65	59	53	63	57	52	60	55	51	58	54	50	49				49
4	69	59	51	45	67	58	50	45	55	49	44	53	48	44	52	47	43	41				41
5	63	52	45	39	62	51	44	39	50	43	38	48	42	38	46	41	37	36				36
6	58	47	39	34	57	46	39	34	45	38	33	43	37	33	42	37	33	31				31
7	54	43	35	30	53	42	35	30	41	34	29	39	33	29	38	33	29	27				27
8	50	39	31	26	49	38	31	26	37	31	26	36	30	26	35	30	26	24				24
9	47	36	28	24	46	35	28	24	34	28	24	33	27	23	32	27	23	22				22
10	44	33	26	21	43	32	26	21	31	25	21	31	25	21	30	25	21	20				20

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

	0°	45°	90°
0°	3797	3797	3797
5°	3804	3796	3784
10°	3784	3790	3796
15°	3761	3793	3823
20°	3722	3798	3873
25°	3668	3809	3953
30°	3609	3834	4039
35°	3527	3870	4109
40°	3431	3880	4186
45°	3333	3882	4249
50°	3202	3855	4290
55°	3029	3794	4283
60°	2837	3696	4260
65°	2616	3592	4216
70°	2300	3412	4121
75°	1985	3271	4041
80°	1563	3064	3294
85°	1126	2287	2481



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	234.3	3.1	2.6
10°-20°	674.5	9.0	7.6
20°-30°	1039.0	13.8	11.7
30°-40°	1284.4	17.1	14.4
40°-50°	1362.2	18.1	15.3
50°-60°	1248.5	16.6	14.0
60°-70°	960.7	12.8	10.8
70°-80°	562.9	7.5	6.3
80°-90°	145.4	1.9	1.6
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°	1947.7	25.9	21.9
0°-40°	3232.1	43.0	36.3
0°-60°	5842.8	77.8	65.6
0°-90°	7511.9	100.0	84.4
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°	7511.9	100.0	84.4

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2476	2476	2476	2476	2476	
5°	2471	2469	2466	2460	2458	235
15°	2369	2373	2389	2403	2408	668
25°	2168	2190	2251	2310	2336	999
35°	1884	1939	2067	2166	2195	1179
45°	1537	1621	1790	1914	1959	1183
55°	1133	1246	1419	1553	1602	1014
65°	721	836	990	1125	1162	714
75°	335	429	552	654	682	356
85°	64	111	130	140	141	78
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2476	2476	2476	2476	2476
2.5°	2481	2479	2473	2467	2465
5°	2471	2469	2466	2460	2458
7.5°	2454	2452	2453	2450	2450
10°	2430	2432	2434	2438	2438
12.5°	2402	2403	2414	2421	2423
15°	2369	2373	2389	2403	2408
17.5°	2326	2336	2357	2382	2389
20°	2281	2292	2327	2359	2373
22.5°	2225	2246	2289	2335	2352
25°	2168	2190	2251	2310	2336
27.5°	2110	2137	2213	2287	2315
30°	2038	2071	2165	2255	2281
32.5°	1966	2009	2120	2214	2242
35°	1884	1939	2067	2166	2195
37.5°	1805	1862	2011	2111	2149
40°	1714	1790	1938	2055	2091
42.5°	1630	1698	1869	1984	2025
45°	1537	1621	1790	1914	1959
47.5°	1434	1535	1702	1841	1877
50°	1342	1438	1616	1747	1798
52.5°	1233	1351	1514	1657	1699
55°	1133	1246	1419	1553	1602
57.5°	1037	1147	1322	1457	1506
60°	925	1035	1205	1345	1389
62.5°	826	933	1105	1238	1282
65°	721	836	990	1125	1162
67.5°	621	724	885	1002	1043
70°	513	623	761	889	919
72.5°	423	519	655	766	801
75°	335	429	552	654	682
77.5°	248	346	444	537	544
80°	177	257	347	373	373
82.5°	110	184	218	255	248
85°	64	111	130	140	141
87.5°	23	44	53	57	56
90°	0	0	0	0	0

(END OF REPORT)