

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: ITL67616

Luminaire Tested: **Z2-WN-2N5-1C-UNV-22-T1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: ITL67616  
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z2-WN-2N5-1C-UNV-22-T1  
Description: FORMED WHITE PAINTED METAL REFLECTOR, FORMED WHITE PAINTED METAL BALLAST COVER, FABRICATED WHITE PAINTED METAL END PLATES, EXTRUDED CLEAR PLASTIC LENS WITH FROSTED MICRO-LINEAR PRISMATIC SIDES AND FROSTED PLASTIC OVERLAY, LENS PRISMS OUT AND PARALLEL WITH LAMPS, OVERLAY FROSTED SIDE DOWN.  
Light Source: TWO 14-WATT T-5 PHILIPS F14T5/835 LINEAR FLUORESCENTS.  
Ballast/Driver: UNIVERSAL B228PUNV-C

**Summary**

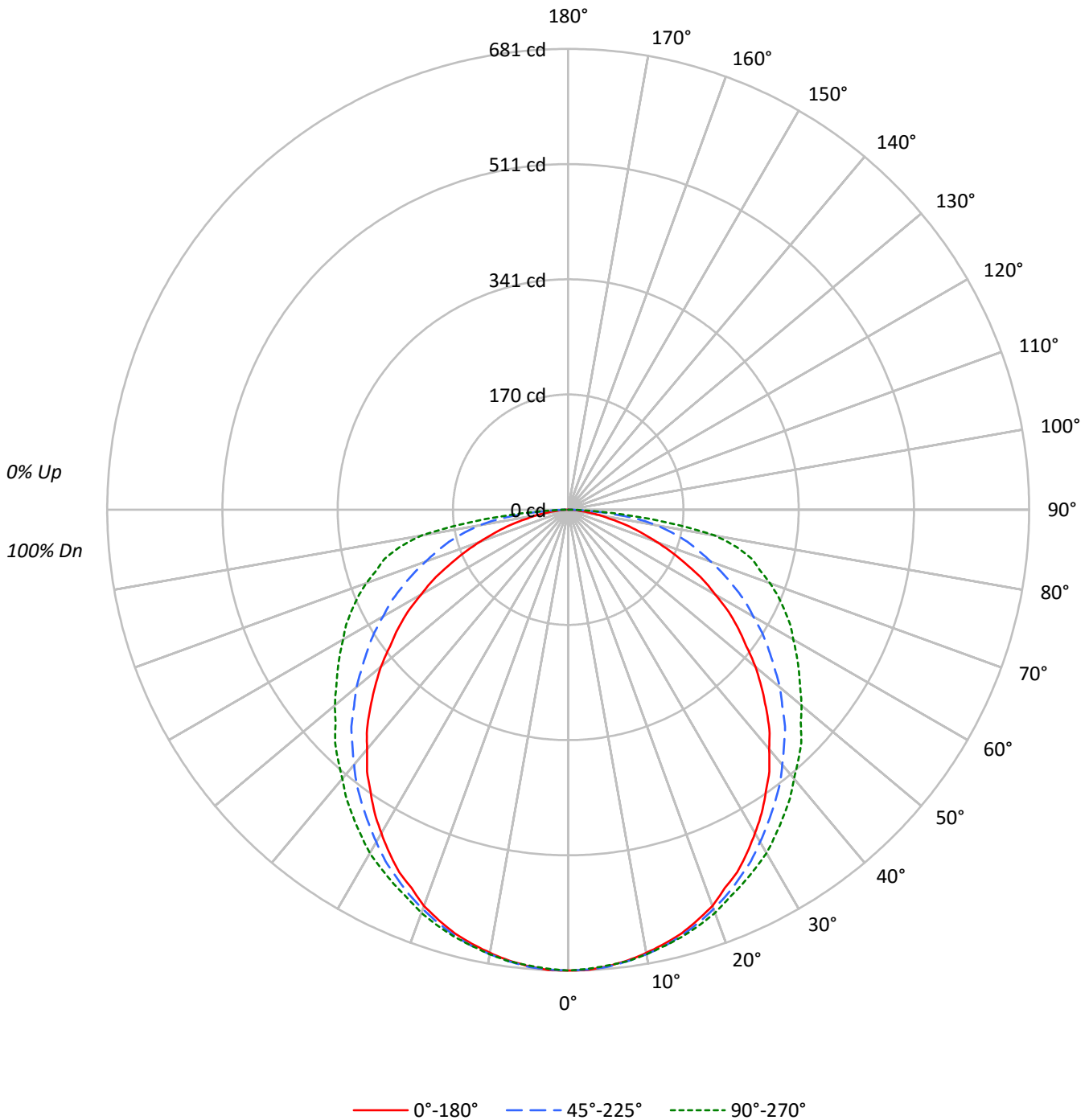
Lumens per Lamp: 1200 (2 lamps)  
Luminaire Lumens: 2061.7 lumens  
Efficiency: 85.9%  
Efficacy: 67.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1.93' x L: 1.9' x H: 0')  
CIE Type: Direct

Input Watts (W): 30.5  
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	102	102	102	102	100	100	100	100	95	95	95	91	91	91	88	88	88	86
1	92	88	84	80	90	86	82	79	82	79	76	79	76	74	76	74	72	70
2	84	76	70	64	81	74	69	64	71	66	62	68	64	61	66	62	59	57
3	76	66	59	53	74	65	58	53	62	56	52	60	55	51	58	53	50	48
4	69	59	51	45	67	57	50	44	55	49	44	53	48	43	51	46	42	40
5	64	52	44	38	62	51	44	38	49	43	38	48	42	37	46	41	37	35
6	59	47	39	33	57	46	39	33	45	38	33	43	37	33	42	36	32	30
7	54	43	35	29	53	42	34	29	40	34	29	39	33	29	38	33	29	27
8	51	39	31	26	49	38	31	26	37	30	26	36	30	26	35	30	26	24
9	47	36	28	23	46	35	28	23	34	28	23	33	27	23	32	27	23	21
10	44	33	26	21	43	32	26	21	31	25	21	31	25	21	30	25	21	19

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

	0°	45°	90°
0°	1996	1996	1996
5°	1991	1994	1988
10°	1979	1985	1985
15°	1966	1975	1981
20°	1943	1958	1977
25°	1911	1940	1972
30°	1868	1918	1983
35°	1821	1899	1982
40°	1767	1882	1985
45°	1711	1877	2018
50°	1646	1860	2051
55°	1568	1849	2125
60°	1471	1852	2250
65°	1352	1879	2448
70°	1191	1919	2716
75°	1019	2061	3181
80°	793	2244	3712
85°	538	1916	2690



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	64.3	3.1	2.7
10°-20°	183.6	8.9	7.6
20°-30°	276.8	13.4	11.5
30°-40°	333.2	16.2	13.9
40°-50°	348.0	16.9	14.5
50°-60°	324.6	15.7	13.5
60°-70°	271.5	13.2	11.3
70°-80°	194.0	9.4	8.1
80°-90°	65.6	3.2	2.7
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°	524.8	25.5	21.9
0°-40°	858.0	41.6	35.7
0°-60°	1530.6	74.2	63.8
0°-90°	2061.7	100.0	85.9
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°	2061.7	100.0	85.9

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	677	678	678	677	676	64
15°	648	649	651	653	653	183
25°	591	595	600	607	610	272
35°	509	519	531	550	554	319
45°	413	425	453	477	487	319
55°	307	325	362	402	416	274
65°	195	223	271	331	353	193
75°	90	120	182	255	281	95
85°	16	34	57	80	80	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	681	681	681	681	681
2.5°	681	681	680	680	679
5°	677	678	678	677	676
7.5°	672	673	673	673	673
10°	665	667	667	669	667
12.5°	657	658	660	661	660
15°	648	649	651	653	653
17.5°	636	638	640	644	644
20°	623	625	628	632	634
22.5°	605	611	615	620	621
25°	591	595	600	607	610
27.5°	572	578	585	594	598
30°	552	558	567	580	586
32.5°	532	538	549	566	570
35°	509	519	531	550	554
37.5°	488	495	513	532	538
40°	462	473	492	515	519
42.5°	440	449	472	496	503
45°	413	425	453	477	487
47.5°	387	402	429	459	466
50°	361	374	408	439	450
52.5°	332	351	384	422	432
55°	307	325	362	402	416
57.5°	281	300	340	384	400
60°	251	273	316	364	384
62.5°	225	248	295	348	370
65°	195	223	271	331	353
67.5°	167	195	248	310	336
70°	139	170	224	293	317
72.5°	113	143	202	272	297
75°	90	120	182	255	281
77.5°	65	97	157	231	255
80°	47	76	133	203	220
82.5°	29	56	102	152	151
85°	16	34	57	80	80
87.5°	7	13	20	24	25
90°	0	0	0	0	0

(END OF REPORT)