

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: ITL67597

Luminaire Tested: **Z3-WN-2T8-1C-UNV-24-T1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: ITL67597  
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WN-2T8-1C-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 32-WATT T-8 FO32/835 LINEAR FLUORESCENTS.  
Ballast/Driver: GE GE-232-MV-N

**Summary**

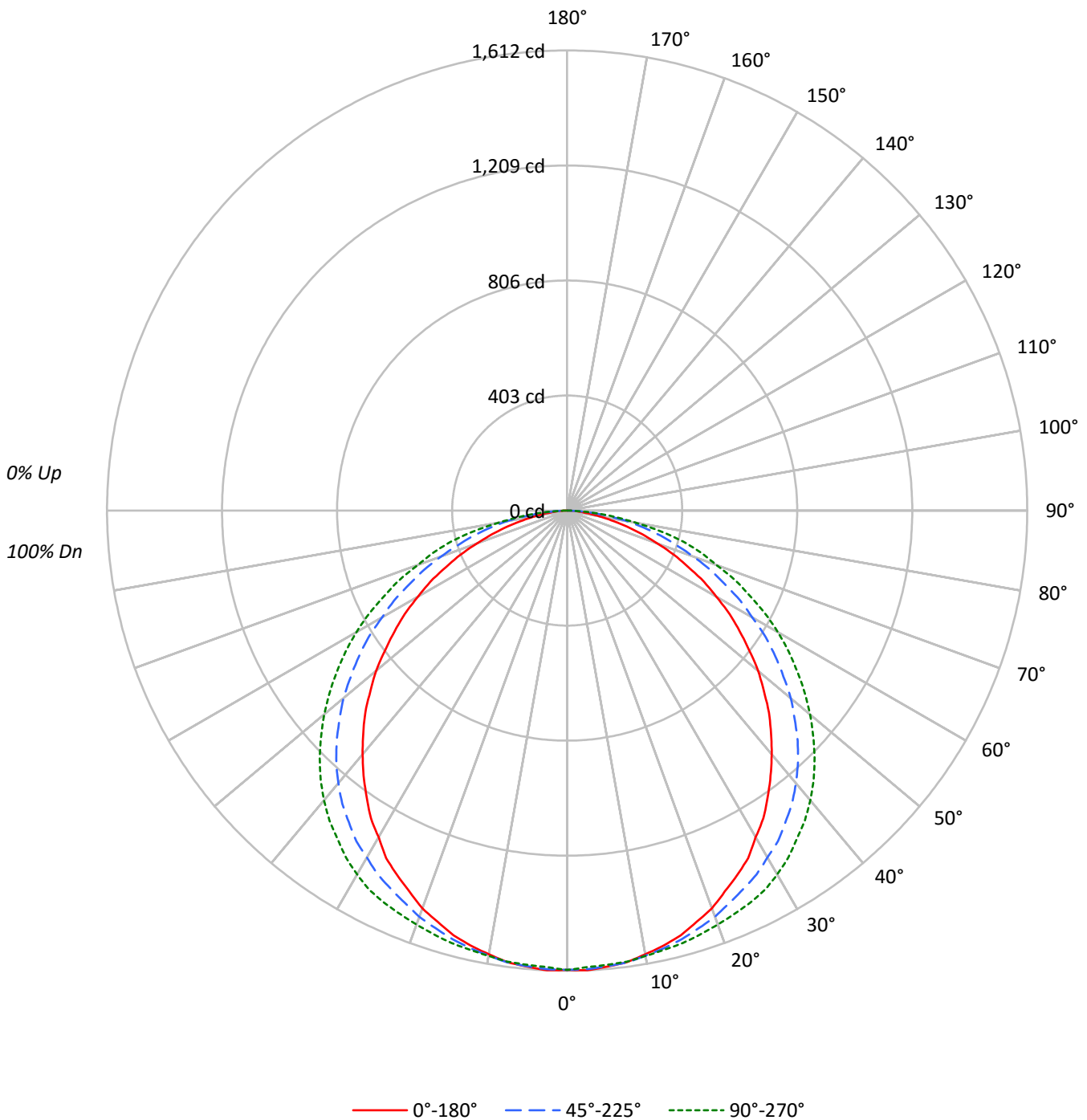
Lumens per Lamp: 2950 (2 lamps)  
Luminaire Lumens: 4791.2 lumens  
Efficiency: 81.2%  
Efficacy: 87.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.35 / 1.42  
Luminous Opening: Rectangular (W 1.8' x L: 3.91' x H: 0')  
CIE Type: Direct

Input Watts (W): 54.7  
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	50	30	10	50	30	10	0																			
RCR																																														
0	97	97	97	97	94	94	94	94	90	90	90	86	86	86	83	83	83	81																												
1	88	84	81	77	86	82	79	76	79	76	74	76	74	72	73	71	69	68																												
2	80	73	68	63	78	72	66	62	69	64	61	66	62	59	64	61	58	56																												
3	73	64	57	52	71	63	57	52	60	55	51	58	54	50	56	52	49	47																												
4	67	57	49	44	65	56	49	44	54	48	43	52	47	42	50	45	42	40																												
5	61	51	43	38	59	50	43	38	48	42	37	46	41	37	45	40	36	35																												
6	56	45	38	33	55	45	38	33	43	37	32	42	36	32	41	36	32	30																												
7	52	41	34	29	51	41	34	29	39	33	29	38	33	28	37	32	28	27																												
8	49	38	31	26	47	37	30	26	36	30	25	35	29	25	34	29	25	24																												
9	45	34	28	23	44	34	27	23	33	27	23	32	27	23	31	26	23	21																												
10	43	32	25	21	42	31	25	21	30	25	21	30	24	21	29	24	21	19																												

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

	0°	45°	90°
0°	2467	2467	2467
5°	2469	2466	2458
10°	2457	2465	2467
15°	2445	2467	2489
20°	2420	2471	2518
25°	2384	2474	2565
30°	2339	2484	2607
35°	2293	2496	2627
40°	2232	2496	2652
45°	2169	2477	2659
50°	2085	2441	2651
55°	1973	2382	2634
60°	1849	2297	2616
65°	1698	2206	2562
70°	1502	2103	2488
75°	1286	2009	2500
80°	1007	1881	2128
85°	739	1478	1636



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	152.4	3.2	2.6
10°-20°	438.7	9.2	7.4
20°-30°	675.0	14.1	11.4
30°-40°	828.8	17.3	14.0
40°-50°	869.4	18.1	14.7
50°-60°	786.3	16.4	13.3
60°-70°	597.9	12.5	10.1
70°-80°	348.9	7.3	5.9
80°-90°	93.9	2.0	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°	1266.0	26.4	21.5
0°-40°	2094.8	43.7	35.5
0°-60°	3750.5	78.3	63.6
0°-90°	4791.2	100.0	81.2
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°	4791.2	100.0	81.2

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1609	1609	1609	1609	1609	
5°	1604	1605	1602	1600	1597	152
15°	1540	1543	1554	1563	1568	434
25°	1409	1425	1462	1501	1516	649
35°	1225	1261	1333	1391	1403	766
45°	1000	1053	1142	1206	1226	769
55°	738	805	891	961	985	661
65°	468	532	608	689	706	466
75°	217	270	339	400	422	231
85°	42	71	84	93	93	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1609	1609	1609	1609	1609
2.5°	1612	1611	1608	1603	1601
5°	1604	1605	1602	1600	1597
7.5°	1596	1596	1597	1595	1594
10°	1578	1581	1583	1585	1584
12.5°	1561	1562	1570	1575	1576
15°	1540	1543	1554	1563	1568
17.5°	1510	1520	1534	1550	1556
20°	1483	1491	1514	1536	1543
22.5°	1444	1462	1487	1519	1530
25°	1409	1425	1462	1501	1516
27.5°	1373	1391	1437	1484	1499
30°	1321	1348	1403	1456	1472
32.5°	1279	1306	1374	1428	1442
35°	1225	1261	1333	1391	1403
37.5°	1171	1210	1294	1349	1368
40°	1115	1163	1247	1308	1325
42.5°	1057	1106	1197	1258	1278
45°	1000	1053	1142	1206	1226
47.5°	934	995	1081	1153	1169
50°	874	932	1023	1090	1111
52.5°	804	871	955	1031	1049
55°	738	805	891	961	985
57.5°	675	741	824	896	920
60°	603	666	749	825	853
62.5°	541	601	684	757	782
65°	468	532	608	689	706
67.5°	405	460	543	612	637
70°	335	396	469	542	555
72.5°	276	328	399	465	492
75°	217	270	339	400	422
77.5°	158	214	272	333	336
80°	114	160	213	242	241
82.5°	72	117	140	170	166
85°	42	71	84	93	93
87.5°	17	31	33	34	34
90°	0	0	0	0	0

(END OF REPORT)