

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: ITL67598

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: ITL67598  
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WD-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 WITH WHITE GRID PATTERN ON TOP SURFACE, 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**

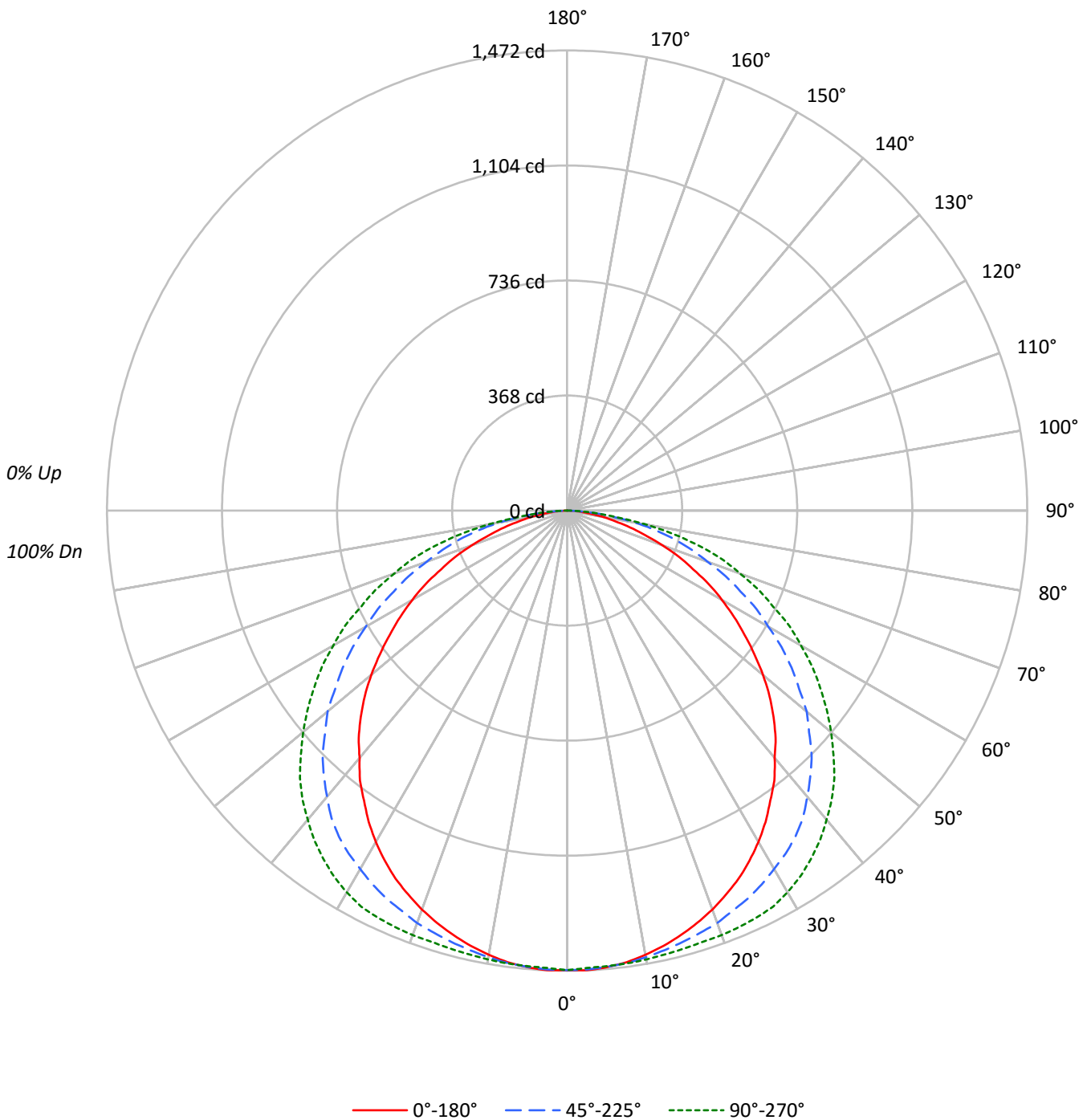
Lumens per Lamp: 2950 (2 lamps)  
Luminaire Lumens: 4633.1 lumens  
Efficiency: 78.5%  
Efficacy: 84.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.42 / 1.46  
Luminous Opening: Rectangular (W 1.8' x L: 3.91' x H: 0')  
CIE Type: Direct

Input Watts (W): 54.6  
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



TEST NUMBER: ITL67598  
CATALOG NUMBER: Z3-WD-2T8-1C-UNV-24-T1

### Luminous Intensity Polar Plot





TEST NUMBER: ITL67598

CATALOG NUMBER: Z3-WD-2T8-1C-UNV-24-T1

**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	84	84	84	80	80	80	79
1	85	81	78	75	83	79	76	73	76	73	71	73	71	69	70	68	67	65
2	77	70	65	60	75	69	64	59	66	62	58	63	60	57	61	58	55	54
3	70	62	55	50	68	60	54	49	58	53	48	56	51	47	54	50	47	45
4	64	54	47	42	62	53	47	41	51	45	41	49	44	40	48	43	40	38
5	59	48	41	36	57	47	41	36	46	40	35	44	39	35	43	38	34	33
6	54	43	36	31	53	43	36	31	41	35	31	40	34	30	39	34	30	28
7	50	39	32	27	49	39	32	27	37	31	27	36	31	27	35	30	27	25
8	47	36	29	24	45	35	29	24	34	28	24	33	28	24	32	27	24	22
9	44	33	26	22	42	32	26	22	31	26	22	31	25	21	30	25	21	20
10	41	30	24	20	40	30	24	20	29	23	20	28	23	19	28	23	19	18

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

	0°	45°	90°
0°	2254	2254	2254
5°	2257	2255	2252
10°	2247	2259	2270
15°	2232	2269	2302
20°	2216	2291	2358
25°	2198	2316	2430
30°	2167	2344	2497
35°	2121	2383	2546
40°	2068	2392	2584
45°	2026	2399	2622
50°	1952	2386	2629
55°	1853	2342	2642
60°	1754	2282	2650
65°	1615	2221	2638
70°	1448	2143	2636
75°	1238	2109	2601
80°	1016	1952	2234
85°	739	1460	1531



TEST NUMBER: ITL67598

CATALOG NUMBER: Z3-WD-2T8-1C-UNV-24-T1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	139.4	3.0	2.4
10°-20°	404.2	8.7	6.9
20°-30°	631.3	13.6	10.7
30°-40°	788.2	17.0	13.4
40°-50°	839.7	18.1	14.2
50°-60°	771.9	16.7	13.1
60°-70°	601.5	13.0	10.2
70°-80°	362.5	7.8	6.1
80°-90°	94.4	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°	1174.9	25.4	19.9
0°-40°	1963.1	42.4	33.3
0°-60°	3574.7	77.2	60.6
0°-90°	4633.1	100.0	78.5
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°	4633.1	100.0	78.5

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1470	1470	1470	1470	1470	
5°	1466	1467	1465	1464	1463	139
15°	1406	1415	1429	1445	1450	397
25°	1299	1320	1369	1417	1436	598
35°	1133	1182	1273	1346	1360	709
45°	934	998	1106	1187	1209	719
55°	693	776	876	961	988	621
65°	445	524	612	709	727	443
75°	209	275	356	431	439	223
85°	42	76	83	91	87	51
90°	0	0	0	0	0	



TEST NUMBER: ITL67598

CATALOG NUMBER: Z3-WD-2T8-1C-UNV-24-T1

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1470	1470	1470	1470	1470
2.5°	1472	1471	1469	1465	1464
5°	1466	1467	1465	1464	1463
7.5°	1457	1458	1460	1461	1461
10°	1443	1447	1451	1457	1458
12.5°	1426	1431	1440	1451	1454
15°	1406	1415	1429	1445	1450
17.5°	1383	1396	1416	1439	1446
20°	1358	1374	1404	1433	1445
22.5°	1329	1348	1385	1426	1441
25°	1299	1320	1369	1417	1436
27.5°	1263	1291	1348	1408	1428
30°	1224	1253	1324	1392	1410
32.5°	1181	1219	1301	1371	1388
35°	1133	1182	1273	1346	1360
37.5°	1089	1136	1239	1309	1329
40°	1033	1092	1195	1271	1291
42.5°	987	1046	1152	1230	1253
45°	934	998	1106	1187	1209
47.5°	878	951	1050	1140	1155
50°	818	890	1000	1077	1102
52.5°	755	838	935	1028	1047
55°	693	776	876	961	988
57.5°	633	715	813	901	930
60°	572	646	744	839	864
62.5°	512	585	683	776	803
65°	445	524	612	709	727
67.5°	388	454	549	637	664
70°	323	394	478	572	588
72.5°	261	331	418	496	522
75°	209	275	356	431	439
77.5°	156	221	289	349	349
80°	115	171	221	252	253
82.5°	72	122	141	171	156
85°	42	76	83	91	87
87.5°	16	30	30	32	25
90°	0	0	0	0	0

(END OF REPORT)