

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: ITL67595

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL67595
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-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 FROSTED LINEAR PRISMATIC PLASTIC DIFFUSER BELOW LAMPS WITH MICRO-LINEAR SIDES, DIFFUSER BOTTOM PRISMS UP AND PARALLEL WITH LAMPS, SIDE PRISMS OUT AND PARALLEL WITH LAMPS, DIFFUSERS FROSTED BOTH SIDES.
Light Source: TWO 32-WATT T-8 FO32/835 LINEAR FLUORESCENTS.
Ballast/Driver: GE GE-232-MV-N

Summary

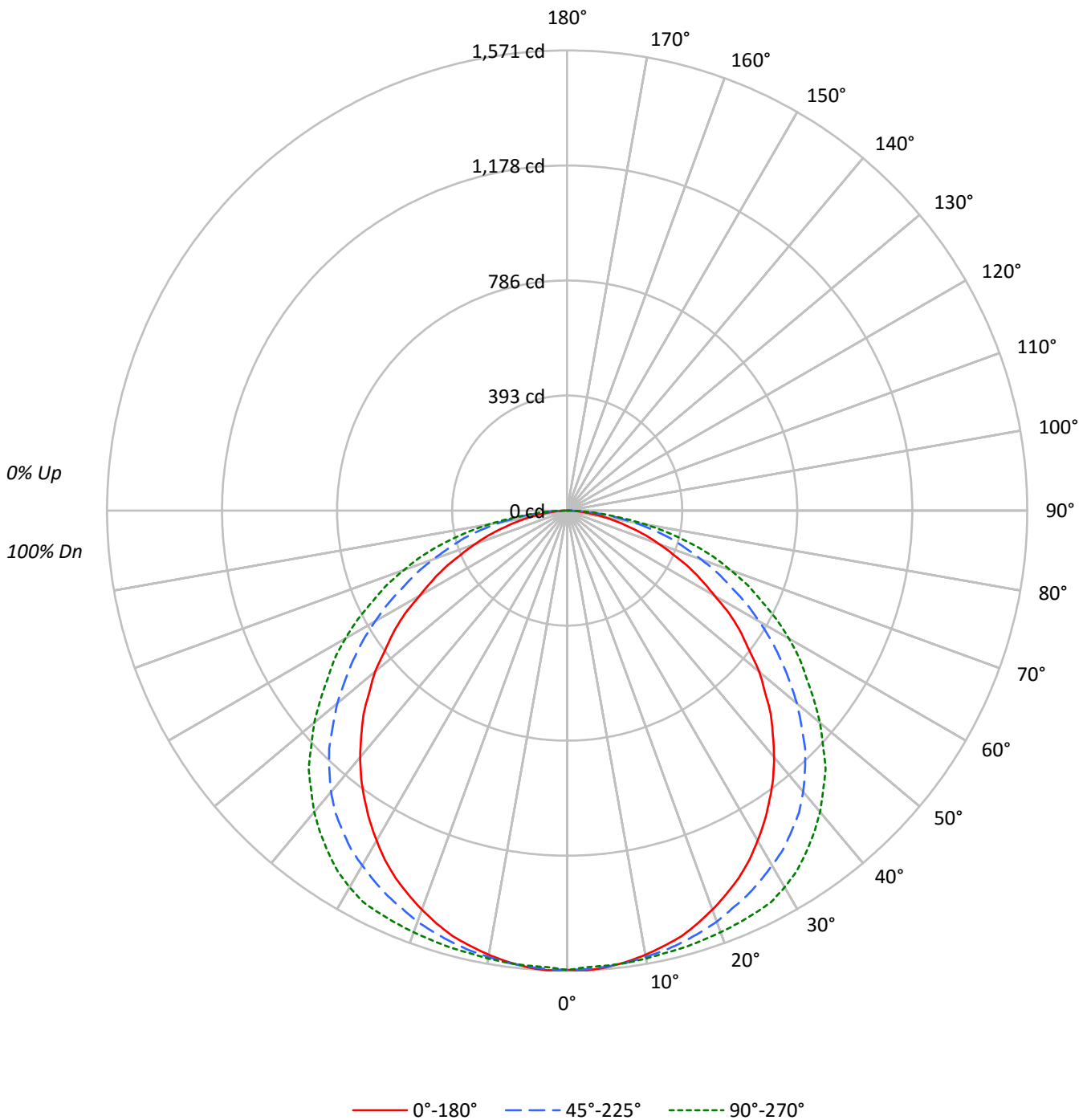
Lumens per Lamp: 2950 (2 lamps)
Luminaire Lumens: 4820.2 lumens
Efficiency: 81.7%
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.4 / 1.44
Luminous Opening: Rectangular (W 1.8' x L: 3.91' x H: 0')
CIE Type: Direct

Input Watts (W): 54.8
Input Voltage (V): NR
Input Current (A_{in}): 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	97	97	97	97	95	95	95	95	91	91	91		87	87	87		83	83	83	82
1	89	85	81	78	86	83	79	76	79	76	74		76	74	72		73	71	70	68
2	80	73	68	63	78	72	67	62	69	64	61		66	62	59		64	61	58	56
3	73	64	57	52	71	63	57	51	60	55	51		58	54	50		56	52	49	47
4	67	57	49	44	65	56	49	43	54	48	43		52	46	42		50	45	42	40
5	61	51	43	38	60	50	43	37	48	42	37		46	41	36		45	40	36	34
6	57	45	38	33	55	45	38	33	43	37	32		42	36	32		40	35	32	30
7	52	41	34	29	51	40	34	29	39	33	28		38	32	28		37	32	28	26
8	49	37	30	26	47	37	30	25	36	30	25		35	29	25		34	29	25	23
9	45	34	28	23	44	34	27	23	33	27	23		32	27	23		31	26	22	21
10	43	32	25	21	42	31	25	21	30	25	21		30	24	20		29	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2405	2405	2405
5°	2409	2406	2400
10°	2398	2409	2418
15°	2389	2421	2451
20°	2366	2438	2500
25°	2344	2455	2567
30°	2304	2477	2630
35°	2256	2501	2664
40°	2200	2510	2689
45°	2132	2492	2707
50°	2042	2443	2689
55°	1933	2385	2666
60°	1782	2322	2684
65°	1669	2239	2656
70°	1498	2179	2654
75°	1321	2157	2625
80°	1148	2014	2384
85°	880	1724	1883



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	148.7	3.1	2.5
10°-20°	430.9	8.9	7.3
20°-30°	669.4	13.9	11.3
30°-40°	829.1	17.2	14.1
40°-50°	870.9	18.1	14.8
50°-60°	787.2	16.3	13.3
60°-70°	607.3	12.6	10.3
70°-80°	370.4	7.7	6.3
80°-90°	106.4	2.2	1.8
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°	1249.0	25.9	21.2
0°-40°	2078.1	43.1	35.2
0°-60°	3736.2	77.5	63.3
0°-90°	4820.2	100.0	81.7
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°	4820.2	100.0	81.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1568	1568	1568	1568	1568	
5°	1565	1564	1563	1560	1559	149
15°	1505	1510	1525	1539	1544	424
25°	1385	1404	1451	1499	1517	637
35°	1205	1247	1336	1408	1423	754
45°	983	1040	1149	1222	1248	756
55°	723	793	892	974	997	644
65°	460	527	617	713	732	452
75°	223	284	364	432	443	240
85°	50	81	98	110	107	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1568	1568	1568	1568	1568
2.5°	1571	1570	1567	1563	1560
5°	1565	1564	1563	1560	1559
7.5°	1554	1556	1557	1558	1557
10°	1540	1544	1547	1552	1553
12.5°	1523	1527	1538	1546	1547
15°	1505	1510	1525	1539	1544
17.5°	1479	1490	1510	1532	1538
20°	1450	1463	1494	1522	1532
22.5°	1418	1437	1471	1510	1525
25°	1385	1404	1451	1499	1517
27.5°	1346	1372	1426	1486	1507
30°	1301	1330	1399	1467	1485
32.5°	1255	1290	1372	1440	1459
35°	1205	1247	1336	1408	1423
37.5°	1155	1197	1300	1365	1385
40°	1099	1150	1254	1326	1343
42.5°	1040	1095	1202	1272	1294
45°	983	1040	1149	1222	1248
47.5°	916	985	1084	1168	1184
50°	856	918	1024	1103	1127
52.5°	783	861	957	1045	1062
55°	723	793	892	974	997
57.5°	658	729	827	909	941
60°	581	658	757	840	875
62.5°	520	592	690	776	806
65°	460	527	617	713	732
67.5°	392	463	556	637	669
70°	334	402	486	577	592
72.5°	281	338	421	497	523
75°	223	284	364	432	443
77.5°	174	231	296	353	357
80°	130	177	228	267	270
82.5°	86	130	158	185	181
85°	50	81	98	110	107
87.5°	20	36	42	44	45
90°	0	0	0	0	0

(END OF REPORT)