

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: ITL67602

Luminaire Tested: **Z3-WL-2N5-1C-UNV-24-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL67602
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-2N5-1C-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 PRISMATIC SIDES, DIFFUSER BOTTOM PRISMS UP AND PARALLEL WITH LAMPS, SIDE PRISMS OUT AND PARALLEL WITH LAMPS, DIFFUSERS FROSTED BOTH SIDES.
Light Source: TWO 28-WATT T-5 SYLVANIA FP28/835 LINEAR FLUORESCENTS.
Ballast/Driver: GE GE228MVPS-A

Summary

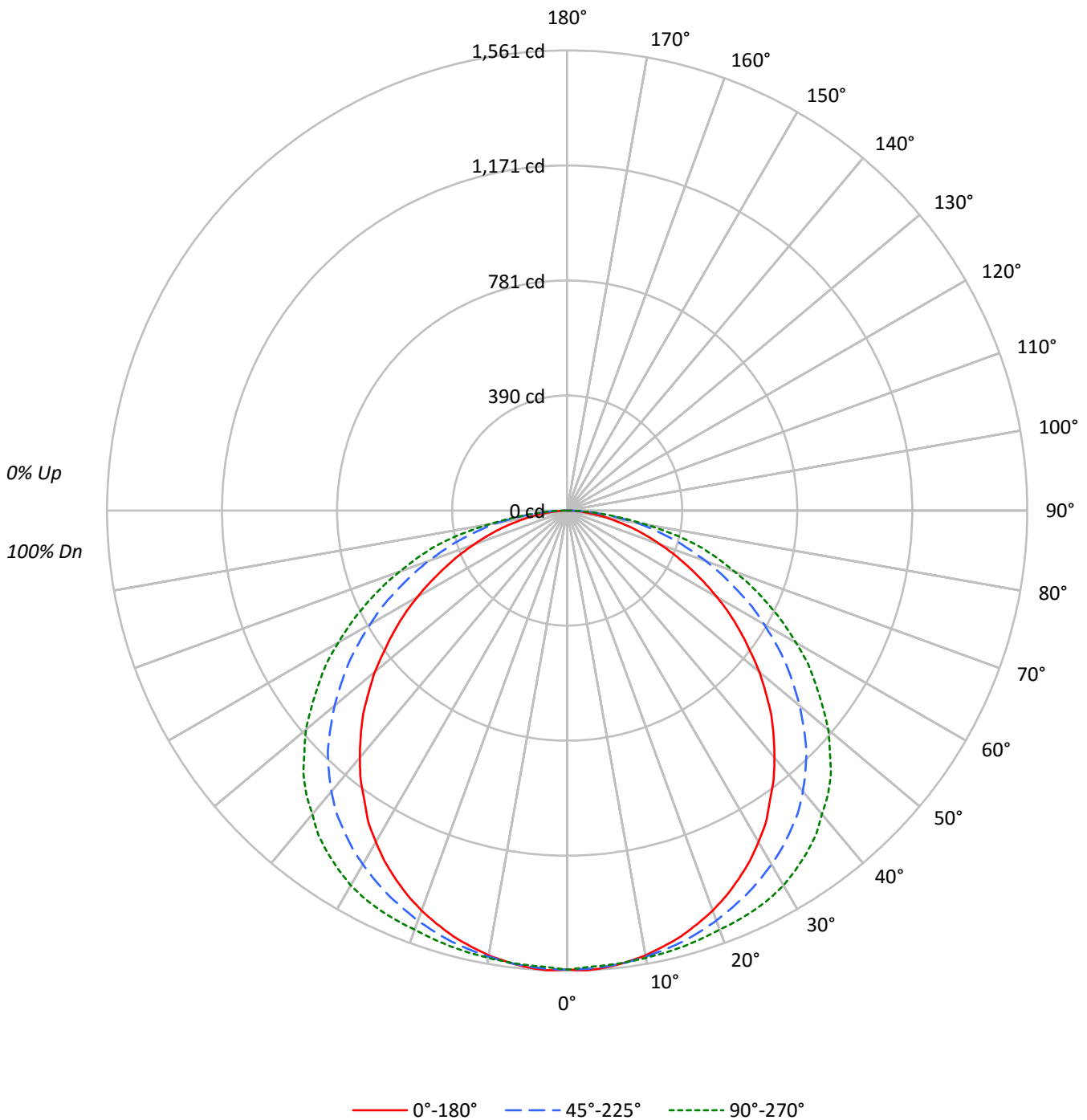
Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 4842.8 lumens
Efficiency: 93.1%
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.4 / 1.45
Luminous Opening: Rectangular (W 1.8' x L: 3.91' x H: 0')
CIE Type: Direct

Input Watts (W): 63.3
Input Voltage (V): NR
Input Current (Ain): 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	111	111	111	111	108	108	108	108	103	103	103		99	99	99		95	95	95	93
1	101	96	92	88	98	94	90	87	90	87	84		86	84	82		83	81	79	77
2	91	83	77	71	89	82	76	70	78	73	69		75	71	67		72	69	66	64
3	83	73	65	59	81	71	64	58	69	62	57		66	61	56		64	59	55	53
4	76	64	56	50	74	63	55	49	61	54	49		59	53	48		57	51	47	45
5	70	57	49	43	68	56	48	42	54	47	42		52	46	41		51	45	41	39
6	64	52	43	37	62	51	43	37	49	42	36		47	41	36		46	40	36	34
7	60	47	38	33	58	46	38	32	44	37	32		43	37	32		42	36	32	30
8	55	43	34	29	54	42	34	29	41	34	29		39	33	28		38	33	28	26
9	52	39	31	26	50	38	31	26	37	30	26		36	30	26		35	30	25	24
10	48	36	28	23	47	35	28	23	34	28	23		34	27	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2388	2388	2388
5°	2394	2389	2383
10°	2386	2392	2400
15°	2374	2404	2429
20°	2357	2415	2469
25°	2332	2433	2533
30°	2298	2454	2599
35°	2245	2477	2653
40°	2190	2490	2693
45°	2123	2490	2743
50°	2033	2457	2760
55°	1920	2422	2754
60°	1797	2365	2748
65°	1658	2304	2736
70°	1507	2242	2708
75°	1363	2180	2726
80°	1166	2128	2367
85°	950	1795	1935



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	147.7	3.0	2.8
10°-20°	427.6	8.8	8.2
20°-30°	663.5	13.7	12.8
30°-40°	824.0	17.0	15.8
40°-50°	873.8	18.0	16.8
50°-60°	798.5	16.5	15.4
60°-70°	619.4	12.8	11.9
70°-80°	378.1	7.8	7.3
80°-90°	110.1	2.3	2.1
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°	1238.8	25.6	23.8
0°-40°	2062.8	42.6	39.7
0°-60°	3735.1	77.1	71.8
0°-90°	4842.8	100.0	93.1
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°	4842.8	100.0	93.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1557	1557	1557	1557	1557	
5°	1555	1555	1552	1550	1548	148
15°	1495	1502	1514	1526	1530	422
25°	1378	1397	1438	1481	1497	635
35°	1199	1243	1323	1398	1417	751
45°	979	1033	1148	1237	1265	753
55°	718	790	906	1004	1030	642
65°	457	529	635	737	754	454
75°	230	288	368	443	460	243
85°	54	85	102	113	110	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1557	1557	1557	1557	1557
2.5°	1561	1560	1556	1552	1550
5°	1555	1555	1552	1550	1548
7.5°	1545	1545	1546	1546	1545
10°	1532	1534	1536	1541	1541
12.5°	1514	1520	1526	1533	1536
15°	1495	1502	1514	1526	1530
17.5°	1470	1481	1498	1515	1522
20°	1444	1455	1480	1505	1513
22.5°	1413	1429	1459	1494	1506
25°	1378	1397	1438	1481	1497
27.5°	1341	1362	1413	1468	1485
30°	1298	1322	1386	1449	1468
32.5°	1255	1285	1357	1426	1444
35°	1199	1243	1323	1398	1417
37.5°	1151	1191	1288	1362	1386
40°	1094	1144	1244	1325	1345
42.5°	1037	1088	1197	1283	1309
45°	979	1033	1148	1237	1265
47.5°	913	978	1088	1187	1209
50°	852	916	1030	1126	1157
52.5°	782	858	967	1070	1093
55°	718	790	906	1004	1030
57.5°	654	726	839	940	970
60°	586	656	771	869	896
62.5°	521	593	708	803	827
65°	457	529	635	737	754
67.5°	397	460	568	659	681
70°	336	404	500	590	604
72.5°	281	340	432	511	531
75°	230	288	368	443	460
77.5°	176	234	301	368	367
80°	132	181	241	268	268
82.5°	90	134	163	192	179
85°	54	85	102	113	110
87.5°	25	37	46	50	47
90°	0	0	0	0	0

(END OF REPORT)