

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: ITL67608

Luminaire Tested: **Z3-WL-2T5-1C-UNV-24-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL67608
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-2T5-1C-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 54-WATT T-5 SYLVANIA FP54/841/HO/ECO LINEAR FLUORESCENTS.
Ballast/Driver: UNIVERSAL B254PUNV-D

Summary

Lumens per Lamp: 4450 (2 lamps)
Luminaire Lumens: 7592.0 lumens
Efficiency: 85.3%
Efficacy: 66.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.39 / 1.44
Luminous Opening: Rectangular (W 1.8' x L: 3.91' x H: 0')
CIE Type: Direct

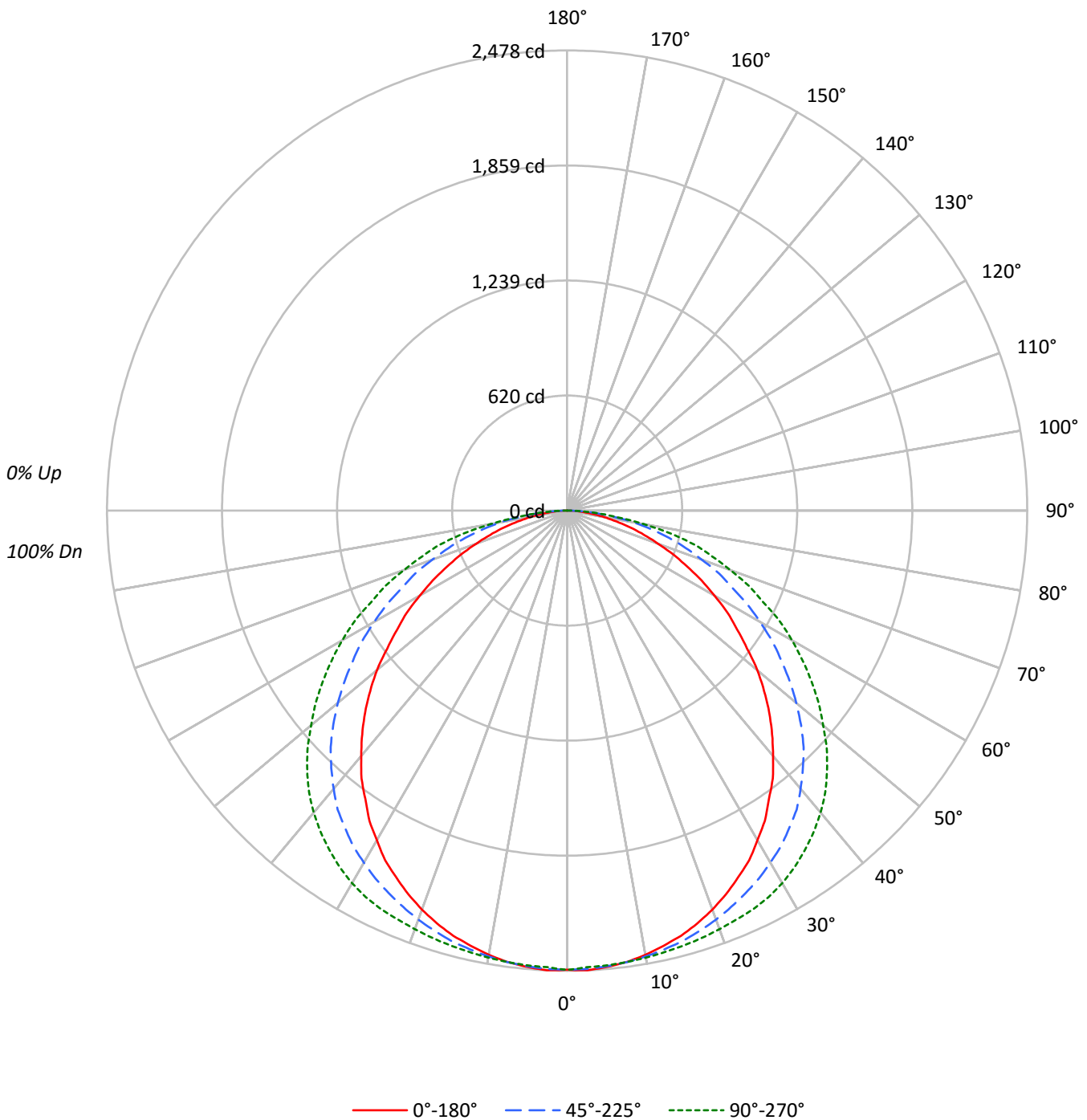
Input Watts (W): 114.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	102	102	102	99	99	99	99	95	95	95	91	91	91	87	87	87	85
1	92	88	84	81	90	86	83	80	83	80	77	79	77	75	76	74	73	71
2	84	77	71	66	82	75	69	65	72	67	63	69	65	62	66	63	60	58
3	76	67	60	54	74	66	59	54	63	57	53	61	56	52	58	54	51	49
4	70	59	52	46	68	58	51	45	56	50	45	54	48	44	52	47	43	42
5	64	53	45	39	62	52	44	39	50	43	38	48	43	38	47	42	38	36
6	59	47	40	34	57	47	39	34	45	38	34	44	38	33	42	37	33	31
7	55	43	35	30	53	42	35	30	41	34	30	40	34	29	38	33	29	27
8	51	39	32	27	49	38	31	27	37	31	26	36	30	26	35	30	26	24
9	47	36	29	24	46	35	28	24	34	28	24	33	28	24	33	27	23	22
10	44	33	26	22	43	33	26	22	32	26	21	31	25	21	30	25	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3792	3792	3792
5°	3798	3792	3784
10°	3782	3796	3807
15°	3763	3810	3850
20°	3731	3825	3915
25°	3687	3846	4008
30°	3630	3876	4103
35°	3548	3905	4179
40°	3453	3916	4250
45°	3338	3906	4294
50°	3192	3843	4294
55°	2989	3764	4297
60°	2809	3677	4291
65°	2587	3552	4224
70°	2336	3452	4188
75°	2092	3365	4213
80°	1784	3223	3674
85°	1408	2604	2850



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	234.4	3.1	2.6
10°-20°	677.9	8.9	7.6
20°-30°	1049.5	13.8	11.8
30°-40°	1299.4	17.1	14.6
40°-50°	1371.9	18.1	15.4
50°-60°	1246.3	16.4	14.0
60°-70°	961.6	12.7	10.8
70°-80°	584.5	7.7	6.6
80°-90°	166.5	2.2	1.9
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°	1961.8	25.8	22.0
0°-40°	3261.1	43.0	36.6
0°-60°	5879.3	77.4	66.1
0°-90°	7592.0	100.0	85.3
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°	7592.0	100.0	85.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2473	2473	2473	2473	2473	
5°	2467	2467	2463	2461	2458	234
15°	2370	2380	2400	2419	2425	668
25°	2179	2209	2273	2342	2369	1004
35°	1895	1959	2086	2203	2232	1187
45°	1539	1628	1801	1940	1980	1185
55°	1118	1231	1408	1565	1607	1004
65°	713	819	979	1141	1164	709
75°	353	445	568	686	711	374
85°	80	125	148	169	162	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2473	2473	2473	2473	2473
2.5°	2478	2476	2470	2465	2461
5°	2467	2467	2463	2461	2458
7.5°	2452	2453	2453	2453	2452
10°	2429	2435	2438	2445	2445
12.5°	2400	2409	2420	2433	2435
15°	2370	2380	2400	2419	2425
17.5°	2331	2346	2373	2404	2413
20°	2286	2306	2344	2385	2399
22.5°	2236	2259	2310	2366	2383
25°	2179	2209	2273	2342	2369
27.5°	2123	2155	2235	2319	2347
30°	2050	2092	2189	2289	2317
32.5°	1981	2026	2143	2251	2278
35°	1895	1959	2086	2203	2232
37.5°	1819	1879	2030	2143	2181
40°	1725	1800	1956	2084	2123
42.5°	1634	1710	1880	2013	2058
45°	1539	1628	1801	1940	1980
47.5°	1439	1538	1708	1857	1896
50°	1338	1436	1611	1762	1800
52.5°	1222	1345	1511	1670	1708
55°	1118	1231	1408	1565	1607
57.5°	1024	1135	1310	1467	1504
60°	916	1020	1199	1356	1399
62.5°	816	921	1094	1246	1291
65°	713	819	979	1141	1164
67.5°	619	718	886	1023	1059
70°	521	625	770	915	934
72.5°	435	529	670	790	818
75°	353	445	568	686	711
77.5°	271	361	462	572	570
80°	202	280	365	413	416
82.5°	136	203	238	302	271
85°	80	125	148	169	162
87.5°	36	56	66	82	67
90°	0	0	0	0	0

(END OF REPORT)