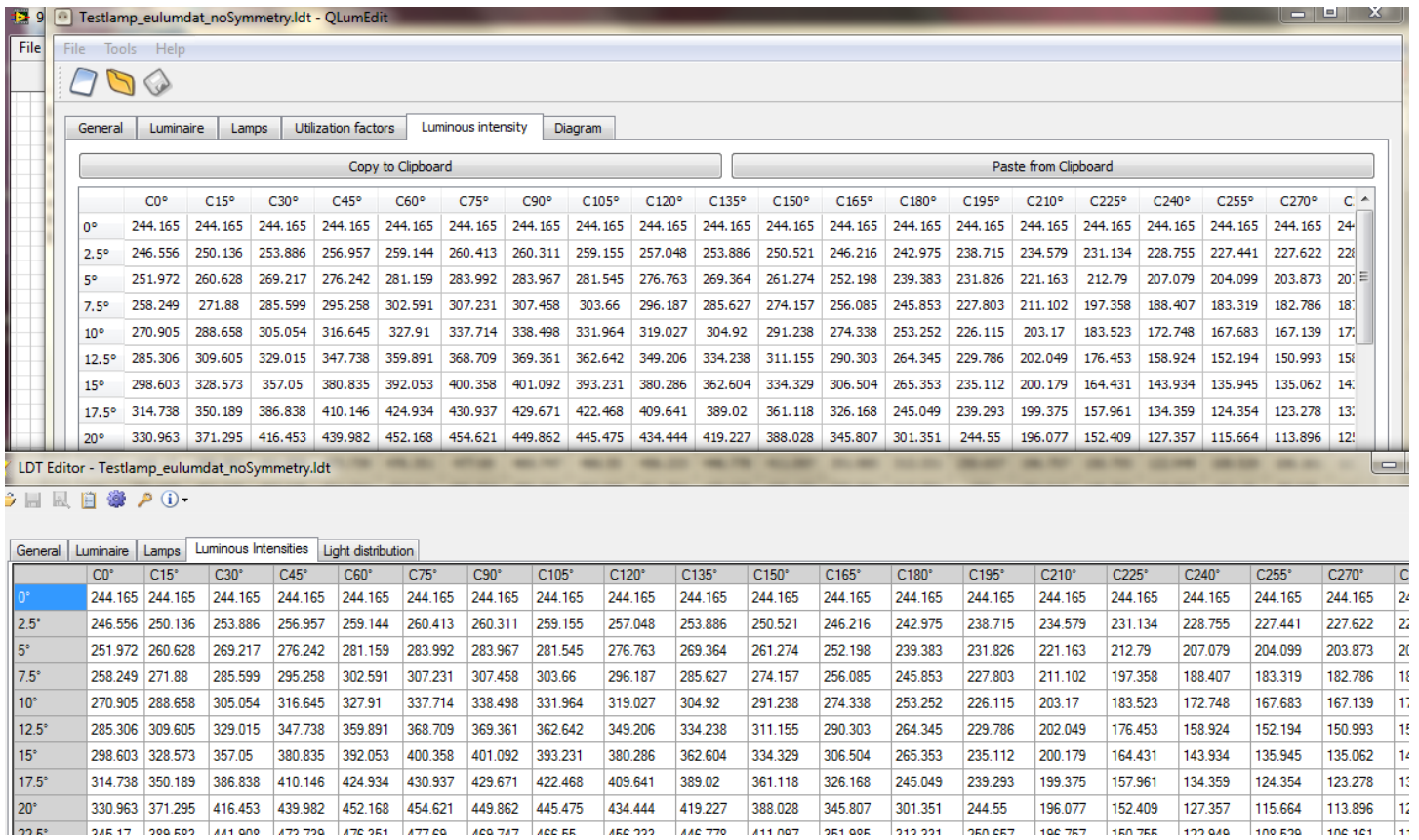


Analyse difference I-table displayed by Qlumedit (v 1.0.1) and LDTeditor (v 1.1.0.3), source OliNo.org

Ana program 9.2, symmetry = 0. Qlumedit and LDT editor display the same.



See also the values for the C0,C90,C180,C270 planes which are displayed as equal for both programs.

	C0°	C90°	C180°	C270°
0°	244.165	244.165	244.165	244.165
2.5°	246.556	260.311	242.975	227.622
5°	251.972	283.967	239.383	203.873
7.5°	258.249	307.458	245.853	182.786
10°	270.905	338.498	253.252	167.139
12.5°	285.306	369.361	264.345	150.993
15°	298.603	401.092	265.353	135.062
17.5°	314.738	429.671	245.049	123.278
20°	330.963	449.862	301.351	113.896
22.5°	345.17	469.747	313.331	106.161
25°	351.668	489.353	317.752	98.076
27.5°	352.518	507.076	319.704	91.314
30°	355.826	519.878	319.627	86.66
32.5°	354.197	527.879	318.794	84.083
35°	353.007	534.737	315.707	81.244

Ana program 9.2, symmetry = 3 (over the C90-270 axis). Qlumedit en LDT editor show differences.

As we averaged over the C90-C270 axis, one would expect the C90 and C270 planes as being equal to the no-symmetry situation, and the C0 and C180 axis should be the averaged result of the previous C0 and C180 together (with previous is meant the situation without symmetry). See the results. The Qlumedit reports what we expected, the LDTeditor seems to swap the X-axis, meaning it considers the first column as C270 and then counts down to C90. Therefore the results are not the same between the programs and also the C90 and C270 results shown by LDTeditor are not the same as with the calculation without symmetry.

Testlamp_eulumdat_symmetryOverC90C270axis.ltd - QLumEdit

File Tools Help

General Luminaire Lamps Utilization factors Luminous intensity Diagram

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	C90°	C105°	C120°	C135°	C150°	C165°	C180°	C195°	C210°	C225°	C240°	C255°	C270°
0°	244.165	244.165	244.165	244.165	244.165	244.165	244.165	244.165	244.165	244.165	244.165	244.165	244.165
2.5°	260.311	259.784	258.096	255.422	252.204	248.176	244.765	240.856	236.8	233.106	230.035	228.092	227.622
5°	283.967	282.768	278.961	272.803	265.245	256.413	245.677	237.417	226.829	217.702	210.354	205.623	203.873
7.5°	307.458	305.446	299.389	290.443	279.878	263.982	252.051	235.565	218.812	204.23	192.871	185.478	182.786
10°	338.498	334.839	323.468	310.782	298.146	281.498	262.079	237.423	214.286	193.454	178.566	170.317	167.139
12.5°	369.361	365.676	354.548	340.988	320.085	299.954	274.826	242.72	213.357	187.942	166.011	155.423	150.993
15°	401.092	396.795	386.169	371.72	345.689	317.538	281.978	249.694	214.637	179.897	153.332	139.673	135.062
17.5°	429.671	426.703	417.288	399.583	373.978	338.179	279.893	255.274	214.524	174.294	143.259	128.303	123.278
20°	449.862	450.048	443.306	429.604	402.241	358.551	316.157	262.883	214.813	169.971	137.492	120.57	113.896
22.5°	469.747	472.12	466.292	460.258	426.503	370.784	329.25	270.026	215.81	166.754	133.64	113.206	106.161
25°	489.353	493.05	492.352	489.867	450.389	388.113	334.71	273.381	214.036	163.961	127.481	105.947	98.076
27.5°	507.076	509.928	516.406	509.247	466.082	395.876	336.111	270.513	208.054	158.709	120.683	98.717	91.314
30°	519.878	522.359	535.648	524.084	477.465	403.99	337.727	268.983	200.088	151.083	113.072	92.729	86.66
32.5°	527.879	531.947	550.896	533.667	484.858	409.201	336.496	267.019	194.627	143.084	107.281	89.634	84.083

LDT Editor - Testlamp_eulumdat_symmetryOverC90C270axis.ltd

General Luminaire Lamps Luminous Intensities Light distribution

	C270°	C285°	C300°	C315°	C330°	C345°	C0°	C15°	C30°	C45°	C60°	C75°	C90°
0°	244.165	244.165	244.165	244.165	244.165	244.165	244.165	244.165	244.165	244.165	244.165	244.165	244.165
2.5°	260.311	259.784	258.096	255.422	252.204	248.176	244.765	240.856	236.8	233.106	230.035	228.092	227.622
5°	283.967	282.768	278.961	272.803	265.245	256.413	245.677	237.417	226.829	217.702	210.354	205.623	203.873
7.5°	307.458	305.446	299.389	290.443	279.878	263.982	252.051	235.565	218.812	204.23	192.871	185.478	182.786
10°	338.498	334.839	323.468	310.782	298.146	281.498	262.079	237.423	214.286	193.454	178.566	170.317	167.139
12.5°	369.361	365.676	354.548	340.988	320.085	299.954	274.826	242.72	213.357	187.942	166.011	155.423	150.993
15°	401.092	396.795	386.169	371.72	345.689	317.538	281.978	249.694	214.637	179.897	153.332	139.673	135.062
17.5°	429.671	426.703	417.288	399.583	373.978	338.179	279.893	255.274	214.524	174.294	143.259	128.303	123.278
20°	449.862	450.048	443.306	429.604	402.241	358.551	316.157	262.883	214.813	169.971	137.492	120.57	113.896
22.5°	469.747	472.12	466.292	460.258	426.503	370.784	329.25	270.026	215.81	166.754	133.64	113.206	106.161
25°	489.353	493.05	492.352	489.867	450.389	388.113	334.71	273.381	214.036	163.961	127.481	105.947	98.076

Ana program 9.2, symmetry = 2 (over the C0-180 axis). Qlumedit en LDT editor show again the same.

As we averaged over the C0-C180 axis, one would expect the C0 and C180 planes as being equal to the no-symmetry situation, and the C0 and C180 axis should be the averaged result of the previous C0 and C180 together (with previous is meant the situation without symmetry). See the results. The Qlumedit reports what we expected, as does the LDTeditor.

The image shows two overlapping software windows. The top window is titled 'Testlamp_eulumdat_symmetryOverC0C180axis.ltd - QLumEdit'. It has a menu bar (File, Tools, Help) and a toolbar. Below the toolbar are tabs for 'General', 'Luminaire', 'Lamps', 'Utilization factors', 'Luminous intensity', and 'Diagram'. The 'Luminous intensity' tab is active, showing a table with columns for angles from 0° to 32.5° and values for various C-axes (C0° to C180°). The bottom window is titled 'LDT Editor - Testlamp_eulumdat_symmetryOverC0C180axis.ltd'. It has a similar menu bar and toolbar. Below the toolbar are tabs for 'General', 'Luminaire', 'Lamps', 'Luminous Intensities', and 'Light distribution'. The 'Luminous Intensities' tab is active, showing a table with columns for angles from 0° to 25° and values for various C-axes (C0° to C180°). The data in both tables is identical, showing a symmetric distribution of luminous intensity values across the C-axes.

	C0°	C15°	C30°	C45°	C60°	C75°	C90°	C105°	C120°	C135°	C150°	C165°	C180°
0°	244.165	244.165	244.165	244.165	244.165	244.165	244.165	244.165	244.165	244.165	244.165	244.165	244.165
2.5°	246.556	246.567	246.454	246.017	245.23	244.578	243.966	243.298	242.901	242.51	242.55	242.465	242.975
5°	251.972	251.819	250.856	249.428	247.394	245.57	243.92	242.822	241.921	241.077	241.219	242.012	239.383
7.5°	258.249	257.603	256.061	253.18	249.963	247.434	245.122	243.489	242.297	241.492	242.629	241.944	245.853
10°	270.905	268.695	265.227	260.015	256.147	255.333	252.819	249.823	245.887	244.221	247.204	250.227	253.252
12.5°	285.306	282.63	276.84	273.585	266.495	263.681	260.177	257.418	254.065	255.345	256.602	260.045	264.345
15°	298.603	296.425	293.073	288.099	277.392	271.88	268.077	264.588	262.11	263.518	267.254	270.808	265.353
17.5°	314.738	310.723	308.256	300.386	288.547	281.595	276.474	273.411	272	273.49	280.246	282.73	245.049
20°	330.963	326.256	325.001	313.758	299.898	290.048	281.879	280.569	280.901	285.818	292.053	295.178	301.351
22.5°	345.17	339.489	338.385	328.246	310.34	297.787	287.954	287.539	289.591	298.766	303.927	301.321	313.331
25°	351.668	347.502	351.053	342.811	321.171	304.62	293.714	294.378	298.662	311.016	313.373	313.992	317.752
27.5°	352.518	349.946	355.293	349.936	329.944	309.837	299.195	298.808	307.145	318.02	318.842	316.443	319.704
30°	355.826	354.668	358.171	354.054	335.67	313.234	303.269	301.854	313.05	321.113	319.382	318.306	319.627
32.5°	354.197	356.887	357.997	354.182	340.413	316.16	305.981	305.421	317.764	322.569	321.488	319.332	318.794

There is a difference in the situation when symmetry is present over the c90-c270 axis. The program LDT editor does show different results than in the no symmetry situation. It swaps the turn- degrees-axis.

Why?