

Solatube Tubular Daylighting Device Visible Transmittance (VT) Summary 2020

VT_{annual} and VT Data for Product Performance Tested and Reported per the NFRC 203 Standard

Product	Description	VT _{annual}	VT _{max} Solar Position	VT _{max}	VT _(SALT=60,SAZ=0)	VT _{normal}	Test Report	Certified for CPD
S160/290-DS-DA-LN	Single Dome w/ Diffuser/Fixture & Natural Effect Lens	0.51	SALT=20, SAZ=0	0.582	0.466	0.467	E1047.01-301-41	Yes
S160/290-DS-DA-LS	Single Dome w/ Diffuser/Fixture & Softening Effect Lens	0.46	SALT=20, SAZ=0	0.548	0.425	0.422	E1047.05-301-41	Yes
S160/290-DS-DA-TIP-LN	Single Dome w/ Diffuser/Fixture & Natural Effect Lens and TIP	0.35	SALT=20, SAZ=0	0.433	0.331	0.371	E1047.09-301-41	Yes
S160/290-DS-LP-LN	290 DS Low Profile w/Raybender Slim Lens w/Diffuser & Natural Effect Lens	0.46	SALT=70, SAZ=0	0.592	0.554	0.547	J4176.01-301-41	Yes

Product	Description	VT _{annual}	VT _{max} Solar Position	VT _{max}	VT _(SALT=60,SAZ=0)	VT _{normal}	Test Report	Certified for CPD
S330DS-C-DA-LN	Single Dome w/ Diffuser and Dual Glazed Transition Box	0.34	SALT=20, SAZ=0	0.416	0.335	0.446	F0909.01-301-41	Yes
S330DS-C-DA-TIP-LN	Single Dome w/ Diffuser and Dual Glazed Transition Box and TIP	0.38	SALT=70, SAZ=60	0.512	0.454	0.582	G3705.03-301-41	Yes
S750DS-C-DA-LN	Single Dome w/ Diffuser and Dual Glazed Transition Box	0.40	SALT=20, SAZ=30	0.718	0.238	0.249	F0909.02-301-41	Yes
S750DS-C-DAI-LN	Double Dome w/ Diffuser and Dual Glazed Transition Box	0.36	SALT=20, SAZ=0	0.645	0.210	0.205	F0909.03-301-41	Yes
S750DS-C-DA-TIP-LN	Single Dome w/ Diffuser and Dual Glazed Transition Box and TIP	0.53	SALT=20, SAZ=60	0.718	0.440	0.402	G3940.06-301-41-r0	Yes
S750DS-C-DAI-TIP-LN	Double Dome w/ Diffuser and Dual Glazed Transition Box and TIP	0.37	SALT=20, SAZ=0	0.524	0.281	0.300	G3705.04-301-41	Yes
S330DS-O-DA	Single Dome w/ Diffuser	0.74	SALT=20, SAZ=60	0.784	0.722	0.752	G3940.12-301-41-r0	Yes
S330DS-O-DA-TIP	Single Dome w/ Diffuser and TIP	0.54	SALT=70, SAZ=30	0.604	0.569	0.639	G3940.18-301-41-r0	Yes
S750DS-O-DA	Single Dome w/ Diffuser	0.70	SALT=20, SAZ=0	1.023	0.528	0.501	G3940.09-301-41-r0	Yes
S750DS-O-DAI	Double Dome w/ Diffuser	0.59	SALT=20, SAZ=30	0.834	0.449	0.412	G3940.14-301-41-r0	Yes
S750DS-O-DA-TIP	Single Dome w/ Diffuser and TIP	0.51	SALT=20, SAZ=30	0.744	0.377	0.400	G3940.16-301-41-r0	Yes
S750DS-O-DAI-TIP	Double Dome w/ Diffuser and TIP	0.48	SALT=20, SAZ=60	0.706	0.350	0.368	G3940.19-301-41-r0	Yes
S750DS-C-DA-TP-LN	Single Dome w/ Diffuser and Dual Glazed Metal Transition Box	0.48	SALT=20, SAZ=30	0.648	0.387	0.409	I9044.05-301-41-r0	Yes
S750DS-C-DA-TP-TIP-LN	Single Dome w/ Diffuser and TIP w/ Dual Glazed Metal Transition Box	0.41	SALT=20, SAZ=0	0.545	0.333	0.361	I9044.06-301-41-r0	Yes

Product	Description	VT _{annual}	VT _{max} Solar Position	VT _{max}	VT _(SALT=60,SAZ=0)	VT _{normal}	Test Report	Certified for CPD
M74 DS-O---DP----B-L2	Core Single Dome	0.50	SALT=70, SAZ=0	0.699	0.646	0.716	H5026.05-301-41	Yes
M74 DS-O---DPP--B-L2	Core Double Dome	0.47	SALT=30, SAZ=90	0.643	0.604	0.656	H5026.04-301-41	Yes
M74 DS-O---DP--A--L2	Single Dome w/Amplifier	0.60	SALT=20, SAZ=30	0.684	0.652	0.703	E2465.03-301-41	Yes
M74 DS O-C-DPP--A--L2	Double Dome w/Amplifier	0.57	SALT=70, SAZ=0	0.666	0.638	0.671	H5026.07-301-41	Yes
M74 DS-O---DPP-TIP-A-L2	Double Dome w/ TIP & Amplifier	0.46	SALT=70, SAZ=30	0.538	0.515	0.561	H5026.12-301-41	Yes
M74 DS O-C-DP----A-L2	Single Dome w/Amplifier & Collector	0.98	SALT=30, SAZ=30	1.155	0.905	0.665	H5026.09-301-41	Yes
M74 DS-O--DP-TIP-B-L2	Single Dome Core w/TIP	0.37	SALT=70, SAZ=0	0.529	0.496	0.573	F6776.01-301-41	Yes
M74 DS-O-DP-TIP-A-L2	Single Dome w/Amplifier & TIP	0.47	SALT=70, SAZ=30	0.579	0.552	0.620	F6776.02-301-41	Yes

Notes:

- All reported Visible Transmittance Data were generated through Third-Party Testing of Solatube TDD Products in accordance with NFRC 203-2017: "Procedure for Determining Visible Transmittance of Tubular Daylighting Devices"
- NFRC 203-2014 Testing yields the collection and reporting of 21 unique clear sky Visible Transmittance (VT) values for a range of Solar Positions representing a wide range of critical Solar Altitude and Solar Azimuth angle pairs that are encountered over the course of the Solar Year.
- VT_{annual} provides a product's yearly-average Visible Transmittance. VT_{annual} accounts for the annual, clear sky sun path using 18 individual VT data points, and represents the **annual average** clear sky Visible Transmittance for a 9:00 AM to 5:00 PM Day for a "Middle America" site located at a 40 degree latitude.
- VT_{max} represents the Maximum Visible Transmittance measured for the range of Daytime Solar Positions tested under NFRC 203-2014 for Solar Altitude angles between 20 and 70 degrees. VT_{normal} represents the direct-normal Visible Transmittance for a beam of light perpendicular to the TDD Dome Opening. VT_(SALT=60,AZ=0) represents the Visible Transmittance occurring for the Solar Position used to test and rate TDDs for Solar Heat Gain Coefficient (SHGC).