

## Solatube Tubular Daylighting Device Visible Transmittance (VT) Summary 2017

VT<sub>annual</sub> and VT Data for Product Performance Tested and Reported per the NFRC 203 Standard

Product	Description	VT <sub>annual</sub>	VT <sub>max</sub> Solar Position	VT <sub>max</sub>	VT <sub>(SALT=60,SAZ=0)</sub>	VT <sub>normal</sub>	Test Report	Certified for CPD
S160/290-DS-DA-LN	Single Dome w/ Diffuser/Fixture & Natural Effect Lens	<b>0.51</b>	SALT=20, SAZ=0	<b>0.582</b>	0.466	0.467	E1047.01-301-41	Yes
S160/290-DS-DA-LS	Single Dome w/ Diffuser/Fixture & Softening Effect Lens	<b>0.46</b>	SALT=20, SAZ=0	<b>0.548</b>	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	<b>0.35</b>	SALT=20, SAZ=0	<b>0.433</b>	0.331	0.371	E1047.09-301-41	Yes

Product	Description	VT <sub>annual</sub>	VT <sub>max</sub> Solar Position	VT <sub>max</sub>	VT <sub>(SALT=60,SAZ=0)</sub>	VT <sub>normal</sub>	Test Report	Certified for CPD
Smart LED	Single Dome w/ Diffuser/Fixture & Natural Effect Lens	<b>0.58</b>	SALT=20, SAZ=0	<b>0.78</b>	0.578	0.596	G9904.02-301-41-r0	Yes

Product	Description	VT <sub>annual</sub>	VT <sub>max</sub> Solar Position	VT <sub>max</sub>	VT <sub>(SALT=60,SAZ=0)</sub>	VT <sub>normal</sub>	Test Report	Certified for CPD
S330DS-C-DA-LN	Single Dome w/ Diffuser and Dual Glazed Transition Box	<b>0.34</b>	SALT=20, SAZ=0	<b>0.416</b>	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	<b>0.38</b>	SALT=70, SAZ=60	<b>0.512</b>	0.454	0.582	G3705.03-301-41	Yes
S750DS-C-DA-LN	Single Dome w/ Diffuser and Dual Glazed Transition Box	<b>0.40</b>	SALT=20, SAZ=30	<b>0.718</b>	0.238	0.249	F0909.02-301-41	Yes
S750DS-C-DAI-LN	Double Dome w/ Diffuser and Dual Glazed Transition Box	<b>0.36</b>	SALT=20, SAZ=0	<b>0.645</b>	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	<b>0.53</b>	SALT=20, SAZ=60	<b>0.718</b>	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	<b>0.37</b>	SALT=20, SAZ=0	<b>0.524</b>	0.281	0.300	G3705.04-301-41	Yes
S330DS-O-DA	Single Dome w/ Diffuser and Dual Glazed Transition Box	<b>0.74</b>	SALT=20, SAZ=60	<b>0.784</b>	0.722	0.752	G3940.12-301-41-r0	Yes
S330DS-O-DA-TIP	Single Dome w/ Diffuser and Dual Glazed Transition Box and TIP	<b>0.54</b>	SALT=70, SAZ=30	<b>0.604</b>	0.569	0.639	G3940.18-301-41-r0	Yes
S750DS-O-DA	Single Dome w/ Diffuser and Dual Glazed Transition Box	<b>0.70</b>	SALT=20, SAZ=0	<b>1.023</b>	0.528	0.501	G3940.09-301-41-r0	Yes
S750DS-O-DAI	Double Dome w/ Diffuser and Dual Glazed Transition Box	<b>0.59</b>	SALT=20, SAZ=30	<b>0.834</b>	0.449	0.412	G3940.14-301-41-r0	Yes
S750DS-O-DA-TIP	Single Dome w/ Diffuser and Dual Glazed Transition Box and TIP	<b>0.51</b>	SALT=20, SAZ=30	<b>0.744</b>	0.377	0.400	G3940.16-301-41-r0	Yes
S750DS-O-DAI-TIP	Double Dome w/ Diffuser and Dual Glazed Transition Box and TIP	<b>0.48</b>	SALT=20, SAZ=60	<b>0.706</b>	0.350	0.368	G3940.19-301-41-r0	Yes

Product	Description	VT <sub>annual</sub>	VT <sub>max</sub> Solar Position	VT <sub>max</sub>	VT <sub>(SALT=60,SAZ=0)</sub>	VT <sub>normal</sub>	Test Report	Certified for CPD
M74 DS-O---DP-----B-L2	Core Single Dome	<b>0.52</b>	SALT=70, SAZ=30	<b>0.715</b>	0.655	0.751	E1047.11-301-41	Yes
M74 DS-O---DP-TIP-B-L2	Core Single Dome with TIP	<b>0.37</b>	SALT=70, SAZ=0	<b>0.529</b>	0.496	0.573	F6776.01-301-41	Yes
M74 DS-O---DP-----A-L2	Single Dome w/ Amplifier	<b>0.60</b>	SALT=20, SAZ=30	<b>0.684</b>	0.652	0.703	E2465.03-301-41	Yes
M74 DS-O---DP-TIP-A-L2	Single Dome w/ TIP & Amplifier	<b>0.47</b>	SALT=70, SAZ=0	<b>0.579</b>	0.552	0.620	F6776.02-301-41	Yes
M74 DS O-C-DP-----A-L2	Single Dome w/ Amplifier & Collector	<b>1.03</b>	SALT=20, SAZ=0	<b>1.351</b>	0.839	0.685	E2465.01-301-41	Yes

### Notes:

- All reported Visible Transmittance Data were generated through Third-Party Testing of Solatube TDD Products in accordance with NFRC 203-2014: "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<sub>annual</sub> provides a product's yearly-average Visible Transmittance. VT<sub>annual</sub> 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<sub>max</sub> 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<sub>normal</sub> represents the direct-normal Visible Transmittance for a beam of light perpendicular to the TDD Dome Opening. VT<sub>(SALT=60,AZ=0)</sub> represents the Visible Transmittance occurring for the Solar Position used to test and rate TDDs for Solar Heat Gain Coefficient (SHGC).