

Solatube Daylighting System Thermal Performance Characteristics



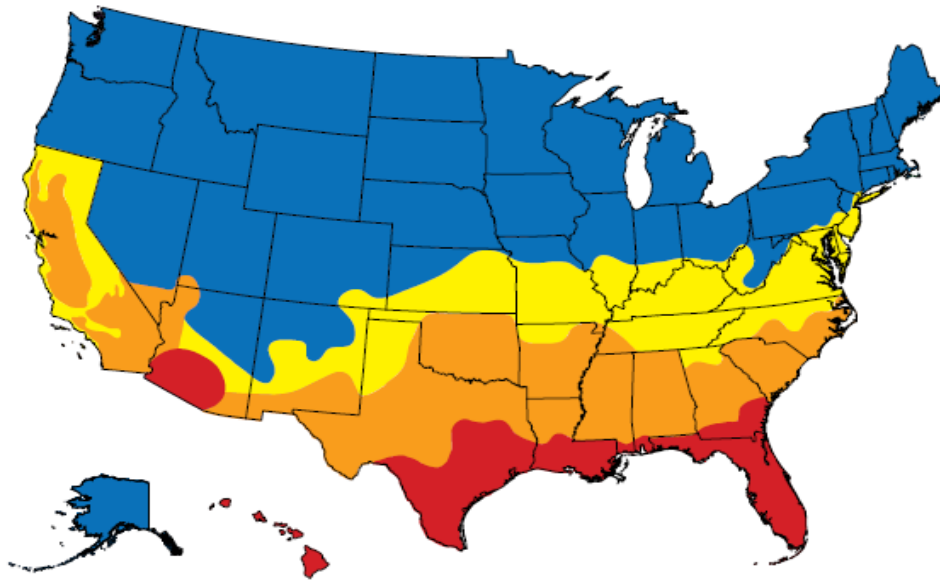
Product	Diffuser Type	U-Factor ¹ (BTU/hr-sf-F)	Metric/SI (W/m-K)	R-Value (hr-sf-F/BTU)	SHGC ²	Keystone Certification #	NFRC CPD # (Certified Product Directory)
Solatube 160 DS (10 in/250 mm) and 290 DS (14 in/350 mm)	Diffuser/Fixture Natural Effect	0.51	2.9	1.96	0.23	Cert. # 3762	STU-K-2
Solatube 160 DS (10 in/250 mm) and 290 DS (14 in/350 mm)	Diffuser/Fixture Softening Effect	0.51	2.9	1.96	0.22	Cert. # 3762	STU-K-2
Solatube 160 DS (10 in/250 mm) and 290 DSe (14 in/350 mm)	Diffuser/Fixture w/ TIP	0.37	2.12	2.70	0.20	Cert. # 3762	STU-K-2
Solatube Smart LED	Diffuser/Fixture Natural Effect	0.46	2.59	2.17	0.26	Cert. # 9020	STU-K-5
Solatube 330 DS-C (21 in/530 mm) Suspended Ceiling	Diffuser Natural Effect	0.32	2.89	3.13	0.37	Cert. # 5006	STU-K-3
Solatube 330 DS-C (21 in/530 mm) Suspended Ceiling	Diffuser Natural Effect w/ TIP	0.18	1.04	5.56	0.33	Cert. # 5006	STU-K-3
Solatube 750 DS-C (21 in/530 mm) Suspended Ceiling	Diffuser Natural Effect	0.32	1.79	3.13	0.25	Cert.# 5006	STU-K-3
Solatube 750 DS-C (21 in/530 mm) Suspended Ceiling (with Inner Dome)	Diffuser Natural Effect	0.32	1.79	3.13	0.22	Cert.# 5006	STU-K-3
Solatube 750 DS-C (21 in/530 mm) Suspended Ceiling	Diffuser Natural Effect w/ TIP	0.18	1.04	5.56	0.22	Cert.# 5006	STU-K-3
Solatube 750 DS-C (21 in/530 mm) Suspended Ceiling (with Inner Dome)	Diffuser Natural Effect w/ TIP	0.18	1.04	5.56	0.19	Cert.# 5006	STU-K-3
Solatube 330 DS-O (21 in/530 mm) Open Ceiling	Diffuser	1.35	7.68	0.74	0.40	Cert.# 5006	STU-K-3
Solatube 330 DS-O (21 in/530 mm) Open Ceiling	Diffuser w/ TIP	0.38	2.17	2.63	0.36	Cert.# 5006	STU-K-3

Product	Diffuser Type	U-Factor ¹ (BTU/hr-sf-F)	Metric/SI (W/m-K)	R-Value (hr-sf-F/BTU)	SHGC ²	Keystone Certification #	NFRC CPD # (Certified Product Directory)
Solatube 750 DS-O (21 in/530 mm) Open Ceiling	Diffuser	1.35	7.68	0.74	0.27	Cert.# 5006	STU-K-3
Solatube 750 DS-O (21 in/530 mm) Open Ceiling (with Inner Dome)	Diffuser	1.35	7.68	0.74	0.25	Cert.# 5006	STU-K-3
Solatube 750 DS-O (21 in/530 mm) Open Ceiling	Diffuser w/ TIP	0.38	2.17	2.63	0.23	Cert.# 5006	STU-K-3
Solatube 750 DS-O (21 in/530 mm) Open Ceiling (with Inner Dome)	Diffuser w/ TIP	0.38	2.17	2.63	0.21	Cert.# 5006	STU-K-3
Solatube M74 DS-O (29 in/740 mm) Open Ceiling	Prismatic	1.39	7.89	0.72	0.29	Cert.# 9096	STU-K-6
Solatube M74 DS-O (29 in/740 mm) Open Ceiling (with Inner Dome)	Prismatic	1.06	6.02	0.94	0.28	Cert.# 9096	STU-K-6
Solatube M74 DS-O (29 in/740 mm) Open Ceiling	Prismatic w/ TIP	0.45	2.55	2.22	0.32	Cert.# 9096	STU-K-6
Solatube M74 DS-O with Amplifier with Collector (29 in/740 mm) Open Ceiling	Prismatic	1.43	8.12	0.70	0.52	Cert.# 9096	STU-K-6
Solatube M74 DS-O with Amplifier (29 in/740 mm) Open Ceiling	Prismatic	1.43	8.1	0.70	0.45	NA	NA
Solatube M74 DS-O with Amplifier (29 in/740 mm) Open Ceiling (with Inner Dome)	Prismatic	1.08	6.13	0.93	0.49	N/A	N/A
Solatube M74 DS-O with Amplifier (29 in/740 mm) Open Ceiling	Prismatic w/ TIP	0.44	2.49	2.27	0.36	Cert.# 9096	STU-K-6

Notes:

1. U-Factor measures how well a product prevents heat from escaping a home or building. It measures the rate of heat transfer through a building element over a given area, under standardised conditions. The lower the U-Factor, the better a product is at keeping heat in.
2. Solar Heat Gain Coefficient (SHGC) measures how well a product blocks heat from the sun. SHGC is expressed as a number between 0 and 1. The lower the SHGC, the better a product is at blocking unwanted heat gain.
3. Data listed N/A is pending certification from NFRC.

ENERGY STAR® Qualification Criteria for Skylights



- Northern
- North-Central
- South-Central
- Southern

Skylights

Climate Zone	U-Factor ¹	SHGC ²
Northern	≤ 0.50	Any
North-Central	≤ 0.53	≤ 0.35
South-Central	≤ 0.53	≤ 0.28
Southern	≤ 0.60	≤ 0.28

Air Leakage ≤ 0.3 cfm/ft²

2015 IECC Commercial Climate Zone Map & U-factor Benchmarks

