

Table HC5.6 Lighting in U.S. homes, by climate region, 2024

	Number of housing units (million)					
	Total U.S. ^a	Climate region ^b				
		Very cold/Cold	Mixed-humid	Mixed-dry/Hot-dry	Hot-humid	Marine
All homes	132.54	42.10	42.02	16.28	25.15	6.98
Number of indoor light bulbs used at least 4 hours a day						
0 to 2	53.97	17.58	16.22	7.12	10.49	2.55
3 to 5	33.41	10.44	10.71	4.00	6.31	1.94
6 to 9	23.91	7.55	8.15	2.80	4.20	1.20
10 to 19	16.79	5.37	5.24	1.88	3.28	1.02
20 or more	4.46	1.15	1.70	0.48	0.87	0.26
Incandescent or halogen bulbs used indoors						
Yes, at least one incandescent or halogen bulb	67.80	21.47	22.50	8.14	12.50	3.20
All bulbs are incandescent or halogen	7.03	2.00	2.47	0.87	1.44	0.25
Most bulbs are incandescent or halogen	6.84	2.21	2.36	0.68	1.36	0.22
About half of bulbs are incandescent or halogen	7.99	2.49	2.73	0.75	1.67	0.34
Some bulbs are incandescent or halogen	45.95	14.77	14.93	5.83	8.04	2.39
No incandescent or halogen bulbs	64.73	20.63	19.53	8.14	12.65	3.79
CFL bulbs used indoors						
Yes, at least one CFL bulb	59.35	18.25	18.91	8.15	10.57	3.47
All bulbs are CFL	3.22	0.82	1.03	0.55	0.67	0.15
Most bulbs are CFL	6.12	1.84	1.93	0.92	1.14	0.30
About half of bulbs are CFL	8.04	2.32	2.41	1.19	1.68	0.44
Some bulbs are CFL	41.97	13.26	13.54	5.49	7.08	2.59
No CFL bulbs	73.18	23.85	23.11	8.13	14.58	3.51
LED bulbs used indoors						
Yes, at least one LED bulb	118.89	38.25	37.33	14.42	22.45	6.44
All bulbs are LED	48.71	15.52	14.60	5.98	9.92	2.69
Most bulbs are LED	34.27	11.41	10.68	4.04	6.04	2.10
About half of bulbs are LED	16.16	5.11	5.41	1.99	2.81	0.83
Some bulbs are LED	19.76	6.21	6.64	2.41	3.68	0.82
No LED bulbs	13.65	3.85	4.69	1.86	2.70	0.55
Outdoor light bulbs left on all night						
None	75.02	25.47	24.77	7.84	13.17	3.77
1 to 4	49.46	14.48	14.72	7.31	10.18	2.78
5 to 9	6.16	1.64	2.04	0.90	1.27	0.32
10 or more	1.89	0.52	0.50	0.23	0.53	0.11
Type of outdoor light bulbs left on all night						
At least one outdoor light bulb	57.52	16.63	17.25	8.44	11.98	3.21
LED	44.22	13.18	13.02	6.61	8.98	2.42
CFL	6.19	1.55	1.95	0.96	1.23	0.50
Incandescent or halogen	11.34	2.98	3.63	1.49	2.71	0.53
No outdoor light bulbs	75.02	25.47	24.77	7.84	13.17	3.77

Data source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-457A of the 2024 Residential Energy Consumption Survey (RECS)

Note: Because of rounding, data may not sum to totals. See RECS Terminology for the definitions of terms used in these tables.

^a Total U.S. includes all primary occupied housing units in the 50 states and the District of Columbia. Vacant housing units, seasonal units, second homes, military houses, and group quarters are excluded.

^b The Building America program, sponsored by the U.S. Department of Energy, created these climate regions. We combined climate regions for this publication. The Subarctic region is included with data for Very cold/Cold.

Relative standard errors (RSEs) for Table HC5.6 Lighting in U.S. homes, by climate region, 2024

RSEs for number of housing units

	Climate region ^b					
	Total U.S. ^a	Very cold/Cold	Mixed-humid	Mixed-dry/Hot-dry	Hot-humid	Marine
All homes	P	0.71	0.83	1.23	0.72	2.91
Number of indoor light bulbs used at least 4 hours a day						
0 to 2	1.13	2.06	2.05	4.08	3.09	7.30
3 to 5	1.40	2.90	2.74	5.32	3.65	8.68
6 to 9	2.36	3.07	3.66	6.45	5.69	8.51
10 to 19	2.37	4.02	3.85	7.47	6.39	10.82
20 or more	4.29	8.80	6.67	15.89	13.17	19.23
Incandescent or halogen bulbs used indoors						
Yes, at least one incandescent or halogen bulb	0.78	1.68	1.69	3.08	2.13	4.39
All bulbs are incandescent or halogen	3.44	7.36	6.58	11.98	9.28	22.56
Most bulbs are incandescent or halogen	3.94	6.47	6.73	12.83	10.05	25.29
About half of bulbs are incandescent or halogen	4.02	5.72	6.19	10.97	9.07	17.09
Some bulbs are incandescent or halogen	1.19	2.67	1.79	3.81	3.17	5.74
No incandescent or halogen bulbs	0.82	1.59	1.83	3.39	2.30	4.63
CFL bulbs used indoors						
Yes, at least one CFL bulb	0.94	1.85	1.53	2.75	2.89	4.35
All bulbs are CFL	6.98	13.08	10.12	18.39	12.24	35.92
Most bulbs are CFL	3.83	7.31	5.68	12.28	10.31	17.03
About half of bulbs are CFL	3.68	5.80	6.34	10.17	8.09	16.28
Some bulbs are CFL	1.45	2.29	2.07	3.87	3.61	5.40
No CFL bulbs	0.76	1.72	1.54	2.52	2.28	4.95
LED bulbs used indoors						
Yes, at least one LED bulb	0.28	0.88	1.00	1.57	1.02	3.43
All bulbs are LED	0.99	1.99	2.21	3.48	2.55	5.32
Most bulbs are LED	1.49	2.44	2.62	5.27	4.23	6.78
About half of bulbs are LED	2.35	3.84	4.30	7.34	6.45	10.82
Some bulbs are LED	1.92	3.81	3.03	7.28	6.27	10.73
No LED bulbs	2.40	5.03	4.44	7.64	5.93	15.44
Outdoor light bulbs left on all night						
None	0.79	1.29	1.48	3.46	2.29	4.72
1 to 4	1.30	2.44	2.35	3.60	2.45	5.89
5 to 9	3.36	6.67	7.40	11.75	9.04	15.87
10 or more	8.07	13.24	15.87	22.54	17.29	37.24
Type of outdoor light bulbs left on all night						
At least one outdoor light bulb	1.04	2.08	1.89	3.10	2.36	5.66
LED	1.27	2.36	2.14	3.98	3.56	7.26
CFL	4.46	6.71	7.98	13.58	9.26	15.48
Incandescent or halogen	2.85	5.74	4.97	8.91	6.34	14.85
No outdoor light bulbs	0.79	1.29	1.48	3.46	2.29	4.72

Data source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-457A of the 2024 Residential Energy Consumption Survey (RECS)

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P=Estimate is equal to the control total that is used in poststratification and is based on the U.S. Census Bureau's 2024 American Community Survey one-year estimates.