

**Table HC5.9 Lighting in U.S. homes, by home size, 2020**

	Number of housing units (million)						
	Size of home in square feet <sup>b</sup>						
	Total U.S. <sup>a</sup>	Less than 1,000	1,000 to 1,499	1,500 to 1,999	2,000 to 2,499	2,500 to 2,999	3,000 or more
<b>All homes</b>	123.53	30.01	28.08	22.22	15.62	10.31	17.29
<b>Indoor light bulbs used at least 4 hours a day</b>							
0 to 2	47.78	14.77	11.74	8.32	5.16	3.24	4.54
3 to 5	31.24	8.22	7.83	5.26	3.73	2.52	3.69
6 to 9	23.06	4.65	4.87	4.78	3.16	2.21	3.39
10 to 19	16.66	2.03	3.06	3.02	2.71	1.78	4.07
20 or more	4.79	0.35	0.57	0.84	0.86	0.56	1.60
<b>Incandescent or halogen bulbs used indoors</b>							
Yes, at least one incandescent or halogen bulb	75.22	17.33	16.92	13.33	9.67	6.81	11.16
All bulbs are incandescent or halogen	8.50	3.44	2.17	1.39	0.64	0.33	0.52
Most bulbs are incandescent or halogen	10.19	2.63	2.45	1.81	1.27	0.66	1.35
About half of bulbs are incandescent or halogen	9.10	2.00	2.27	1.40	1.18	0.87	1.38
Some bulbs are incandescent or halogen	47.43	9.26	10.02	8.72	6.57	4.94	7.91
No incandescent or halogen bulbs	48.31	12.68	11.16	8.89	5.95	3.50	6.13
<b>CFL bulbs used indoors</b>							
Yes, at least one CFL bulb	74.38	16.99	16.39	13.67	9.62	6.59	11.11
All bulbs are CFL	5.35	2.27	1.30	0.95	0.38	0.22	0.24
Most bulbs are CFL	9.55	2.43	2.21	1.65	1.21	0.81	1.23
About half of bulbs are CFL	11.82	2.71	2.74	2.10	1.59	1.14	1.54
Some bulbs are CFL	47.66	9.58	10.14	8.97	6.45	4.41	8.10
No CFL bulbs	49.15	13.02	11.68	8.54	5.99	3.72	6.19
<b>LED bulbs used indoors</b>							
Yes, at least one LED bulb	101.85	21.75	22.67	18.52	13.72	9.34	15.85
All bulbs are LED	26.08	7.01	6.02	4.57	3.30	1.86	3.31
Most bulbs are LED	31.61	5.73	6.41	5.87	4.59	3.23	5.79
About half of bulbs are LED	17.69	2.88	3.96	3.39	2.56	1.84	3.05
Some bulbs are LED	26.47	6.12	6.28	4.69	3.27	2.41	3.69
No LED bulbs	21.68	8.26	5.41	3.70	1.89	0.97	1.44
<b>Outdoor light bulbs left on all night</b>							
None	72.40	19.91	16.96	12.63	8.64	5.58	8.69
1 to 4	45.30	9.42	10.57	8.78	6.02	3.96	6.55
5 to 9	4.25	0.48	0.39	0.63	0.75	0.61	1.39
10 or more	1.57	0.20	0.16	0.18	0.21	0.15	0.66

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<b>All homes</b>	123.53	30.01	28.08	22.22	15.62	10.31	17.29
<b>Type of outdoor light bulbs left on all night</b>							
At least 1 outdoor light bulb	51.12	10.10	11.12	9.59	6.98	4.73	8.60
LED	33.26	5.30	6.89	6.48	4.89	3.35	6.35
CFL	8.39	1.88	1.77	1.57	1.10	0.79	1.27
Incandescent or halogen	13.62	3.58	3.22	2.34	1.59	1.05	1.84
No outdoor light bulbs	72.40	19.91	16.96	12.63	8.64	5.58	8.69

Data source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-457A of the *2020 Residential Energy Consumption Survey*

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

<sup>a</sup> 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.

<sup>b</sup> Total square footage includes all basements, finished or conditioned (heated or cooled) areas of attics, and conditioned garage space that is attached to the home. Unconditioned and unfinished areas in attics and attached garages are excluded. The square footage of the home is based on respondent reports. Previous RECS cycles calculated square footage based on interviewer measurements. For households that did not report an exact square footage estimate, the square footage of the home was imputed based on a reported square footage range and/or characteristics of the home. See *2020 RECS Square Footage Methodology* for full details about data collection and processing.

Q = Data withheld because either the relative standard error (RSE) was greater than 50% or fewer than 10 households in reporting sample.

N = No households in reporting sample.

## Relative standard errors (RSEs) for Table HC5.9 Lighting in U.S. homes, by home size, 2020

	RSEs for number of housing units						
	Size of home in square feet <sup>b</sup>						
	Total U.S. <sup>a</sup>	Less than 1,000	1,000 to 1,499	1,500 to 1,999	2,000 to 2,499	2,500 to 2,999	3,000 or more
<b>All homes</b>	0.00	1.20	1.54	1.59	2.32	2.55	1.93
<b>Indoor light bulbs used at least 4 hours a day</b>							
0 to 2	1.21	2.37	2.86	2.99	3.14	5.33	3.57
3 to 5	1.27	3.50	3.36	3.45	4.98	5.77	4.50
6 to 9	1.80	4.44	4.45	4.20	4.93	4.84	5.18
10 to 19	2.26	7.39	6.13	5.16	5.22	5.85	4.74
20 or more	4.44	18.05	11.49	9.82	9.15	11.55	6.45
<b>Incandescent or halogen bulbs used indoors</b>							
Yes, at least one incandescent or halogen bulb	0.70	2.17	2.02	2.16	3.05	3.18	2.41
All bulbs are incandescent or halogen	3.27	5.83	7.50	7.96	12.16	16.03	10.39
Most bulbs are incandescent or halogen	2.70	6.20	6.92	6.77	9.42	10.30	7.15
About half of bulbs are incandescent or halogen	2.52	7.14	6.57	6.83	8.36	9.27	6.31
Some bulbs are incandescent or halogen	1.03	2.89	2.71	2.88	3.35	3.87	2.97
No incandescent or halogen bulbs	1.08	2.77	3.16	2.73	3.44	4.96	3.44
<b>CFL bulbs used indoors</b>							
Yes, at least one CFL bulb	0.57	2.11	2.24	2.32	2.84	3.16	2.50
All bulbs are CFL	4.82	7.78	9.78	11.57	15.74	17.73	19.90
Most bulbs are CFL	2.85	6.32	6.12	5.42	8.15	9.98	6.85
About half of bulbs are CFL	2.75	6.07	6.02	5.76	6.07	8.39	7.23
Some bulbs are CFL	1.02	2.62	2.80	3.14	3.51	3.42	3.01
No CFL bulbs	0.87	2.43	2.99	2.63	3.55	4.04	3.44
<b>LED bulbs used indoors</b>							
Yes, at least one LED bulb	0.40	1.50	1.95	1.95	2.45	2.67	2.01
All bulbs are LED	1.33	3.14	4.07	4.04	4.66	6.20	4.14
Most bulbs are LED	1.48	4.03	3.98	3.80	3.65	4.87	3.50
About half of bulbs are LED	1.88	6.39	5.24	4.14	5.49	6.47	4.53
Some bulbs are LED	1.53	4.28	3.64	3.70	5.33	5.71	3.73
No LED bulbs	1.90	3.48	4.31	5.10	6.01	7.77	6.71
<b>Outdoor light bulbs left on all night</b>							
None	0.66	1.76	2.16	2.14	3.00	2.96	2.19
1 to 4	0.99	3.21	2.69	2.37	4.06	4.22	3.53
5 to 9	4.74	13.00	14.72	12.96	10.12	11.43	8.91
10 or more	6.76	21.07	25.45	26.84	18.17	19.01	9.56

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	Total U.S. <sup>a</sup>	Less than 1,000	1,000 to 1,499	1,500 to 1,999	2,000 to 2,499	2,500 to 2,999	3,000 or more
<b>All homes</b>	0.00	1.20	1.54	1.59	2.32	2.55	1.93
<b>Type of outdoor light bulbs left on all night</b>							
At least 1 outdoor light bulb	0.93	3.22	2.65	2.30	3.51	4.03	2.94
LED	1.36	4.62	3.48	3.62	4.23	5.47	3.67
CFL	3.07	8.52	8.13	8.59	9.73	9.62	8.39
Incandescent or halogen	2.22	5.29	5.39	4.97	6.94	7.44	6.36
No outdoor light bulbs	0.66	1.76	2.16	2.14	3.00	2.96	2.19

Data source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-457A of the *2020 Residential Energy Consumption Survey*

Notes: See RECS Terminology for definition of terms used in these tables.

<sup>a</sup> *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.

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