

Table B44. Lighting Equipment, Floorspace for Non-Mall Buildings, 2003

	Total Floorspace (million square feet)						
	All Buildings*	Lit Buildings	Lighting Equipment Types (more than one may apply)				
			Incand- escent	Standard Fluor- escent	Compact Fluor- escent	High- Intensity Discharge	Halogen
All Buildings*	64,783	62,060	38,528	59,688	27,571	20,643	17,703
Building Floorspace (Square Feet)							
1,001 to 5,000	6,789	6,038	2,918	5,579	1,123	312	604
5,001 to 10,000	6,585	6,090	3,061	5,726	1,109	686	781
10,001 to 25,000	11,535	11,229	6,424	10,458	2,944	1,721	1,973
25,001 to 50,000	8,668	8,297	5,176	8,001	3,662	2,191	2,013
50,001 to 100,000	9,057	8,912	5,296	8,667	4,330	3,646	2,599
100,001 to 200,000	9,064	8,732	6,042	8,612	5,268	4,349	3,473
200,001 to 500,000	7,176	6,946	4,913	6,839	4,610	3,918	2,775
Over 500,000	5,908	5,816	4,698	5,806	4,526	3,819	3,485
Principal Building Activity							
Education	9,874	9,870	6,095	9,633	4,727	4,178	2,231
Food Sales	1,255	1,237	550	1,192	304	Q	Q
Food Service	1,654	1,650	1,296	1,602	717	246	510
Health Care	3,163	3,163	2,555	3,142	2,305	1,324	1,433
Inpatient	1,905	1,905	1,715	1,886	1,689	1,115	1,166
Outpatient	1,258	1,258	840	1,255	616	209	267
Lodging	5,096	5,096	4,581	4,842	3,674	1,498	2,266
Retail (Other Than Mall).....	4,317	4,315	1,991	4,041	1,173	943	828
Office	12,208	12,208	8,480	12,004	7,357	4,054	4,201
Public Assembly	3,939	3,917	2,621	3,748	1,726	1,293	1,393
Public Order and Safety	1,090	1,074	684	1,048	495	Q	Q
Religious Worship	3,754	3,754	3,060	3,567	1,284	421	959
Service	4,050	3,911	1,654	3,793	720	1,312	758
Warehouse and Storage	10,078	9,125	3,362	8,489	1,853	3,939	2,186
Other	1,738	1,721	1,066	1,677	972	713	425
Vacant	2,567	1,020	533	909	Q	Q	Q
Year Constructed							
Before 1920	3,769	3,554	2,663	3,430	1,300	536	881
1920 to 1945	6,871	6,367	4,107	6,078	2,827	2,351	1,225
1946 to 1959	7,045	6,727	4,324	6,488	2,461	2,105	1,973
1960 to 1969	8,101	7,972	4,866	7,739	3,605	2,284	1,798
1970 to 1979	10,772	10,381	7,003	10,048	4,613	3,530	2,921
1980 to 1989	10,332	10,087	6,213	9,743	5,286	3,417	3,384
1990 to 1999	12,360	11,828	6,466	11,358	4,899	4,419	3,352
2000 to 2003	5,533	5,144	2,885	4,803	2,581	2,002	2,169
Census Region and Division							
Northeast	12,905	12,559	8,102	12,159	6,091	4,379	3,581
New England	2,964	2,873	1,996	2,724	1,474	1,021	769
Middle Atlantic	9,941	9,687	6,105	9,435	4,616	3,358	2,812
Midwest	17,080	16,246	10,973	15,708	6,828	6,620	4,661
East North Central	11,595	11,046	7,211	10,701	4,845	5,104	3,259
West North Central	5,485	5,200	3,762	5,006	1,983	1,515	1,402
South	23,489	22,325	13,045	21,222	8,881	6,229	6,193
South Atlantic	12,258	11,856	7,028	11,245	4,856	4,053	3,474
East South Central	3,393	3,148	1,984	3,022	1,262	706	620
West South Central	7,837	7,322	4,033	6,955	2,764	1,470	2,099
West	11,310	10,930	6,408	10,599	5,772	3,416	3,268
Mountain	3,675	3,618	2,443	3,534	1,748	977	993
Pacific	7,635	7,312	3,965	7,066	4,024	2,438	2,275

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	All Buildings*	Lit Buildings	Lighting Equipment Types (more than one may apply)				
			Incand- escent	Standard Fluor- escent	Compact Fluor- escent	High- Intensity Discharge	Halogen
All Buildings*	64,783	62,060	38,528	59,688	27,571	20,643	17,703
Climate Zone: 30-Year Average							
Under 2,000 CDD and --							
More than 7,000 HDD	10,622	10,108	7,016	9,783	4,667	3,955	2,762
5,500-7,000 HDD	17,335	16,676	10,308	16,090	6,835	6,149	4,485
4,000-5,499 HDD	11,504	11,228	8,192	10,871	6,292	4,385	3,903
Fewer than 4,000 HDD	15,739	14,947	7,939	14,316	6,439	3,863	4,117
2,000 CDD or More and --							
Fewer than 4,000 HDD	9,584	9,102	5,073	8,627	3,339	2,292	2,435
Number of Floors							
One	25,981	24,288	10,640	22,875	5,431	6,176	3,811
Two	16,270	15,752	9,812	15,172	6,571	4,893	4,590
Three	7,501	7,242	5,620	7,057	3,914	2,582	2,026
Four to Nine	10,085	9,831	8,192	9,691	7,324	4,088	4,145
Ten or More	4,947	4,947	4,264	4,893	4,332	2,904	3,131
Number of Workers (main shift)							
Fewer than 5	15,492	12,835	6,370	11,501	2,142	1,930	1,270
5 to 9	6,166	6,143	3,436	5,943	1,516	977	1,141
10 to 19	7,803	7,791	4,363	7,615	2,744	1,651	1,473
20 to 49	10,989	10,959	6,456	10,688	4,604	3,505	3,303
50 to 99	7,934	7,934	5,336	7,790	4,337	3,364	2,439
100 to 249	6,871	6,871	4,776	6,693	4,304	3,508	2,720
250 or More	9,528	9,528	7,791	9,457	7,923	5,708	5,358
Weekly Operating Hours							
Fewer than 40	6,863	4,922	2,708	4,588	857	852	581
40 to 48	11,622	11,515	6,162	11,067	3,496	2,644	2,181
49 to 60	15,723	15,625	9,130	15,123	6,391	4,770	3,930
61 to 84	10,334	10,312	6,234	10,063	4,567	4,015	3,155
85 to 167	7,092	6,906	4,153	6,654	3,304	3,256	2,122
Open Continuously	13,149	12,781	10,142	12,192	8,957	5,105	5,733
Vacancy Status							
Completely Vacant	2,161	676	Q	610	Q	Q	Q
Mostly Vacant	406	Q	Q	Q	Q	Q	Q
Partially Vacant	12,382	12,062	8,638	11,663	7,412	4,627	4,621
Not At All Vacant	49,834	48,978	29,357	47,116	19,896	15,695	13,028
Multibuilding Facility							
Not Part of a Multibuilding							
Facility	40,048	38,514	23,775	37,281	15,624	12,243	11,311
College or University	3,480	3,478	2,354	3,437	2,494	1,100	804
Primary or Secondary School	3,947	3,938	1,938	3,714	1,516	1,380	708
Office Complex	2,712	2,548	1,749	2,540	1,638	1,019	1,073
Retail Complex	1,238	1,166	491	1,043	Q	249	259
Religious Campus or Complex	2,347	2,314	1,769	2,150	1,132	247	506
Health Care Complex	2,303	2,301	2,047	2,283	1,777	1,073	1,195
Lodging or Resort Complex	912	904	838	809	620	Q	463
Government Complex	2,014	1,995	882	1,976	921	949	Q
Other	5,783	4,903	2,685	4,456	1,588	2,099	1,129

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			Incand- escent	Standard Fluor- escent	Compact Fluor- escent	High- Intensity Discharge	Halogen
All Buildings*	64,783	62,060	38,528	59,688	27,571	20,643	17,703
Renovations in Buildings Constructed Before 1980 (more than one may apply)							
Any Type of Renovation							
Since 1980	17,844	17,473	12,502	17,033	8,464	6,882	6,132
Addition or Annex	6,551	6,543	5,029	6,412	3,236	2,993	3,019
Reduction In Floorspace	1,012	1,012	769	1,012	683	509	513
Cosmetic Improvements	13,119	12,905	9,432	12,555	6,652	4,770	4,869
Wall or Roof Replacement	8,070	7,978	5,927	7,799	4,505	3,522	3,286
Interior Wall							
Re-Configuration	8,518	8,434	6,452	8,246	4,937	3,776	3,891
HVAC Equipment Upgrade	10,768	10,742	7,951	10,606	6,330	4,967	4,357
Lighting Upgrade	10,275	10,232	7,312	9,999	5,858	4,481	4,096
Window Replacement	6,354	6,207	4,575	6,124	3,462	2,758	2,719
Plumbing System Upgrade	7,144	7,118	5,225	6,996	4,311	3,149	3,097
Insulation Upgrade	4,015	3,988	2,626	3,916	2,229	1,799	1,240
Other Renovation	523	523	427	500	321	Q	Q
No Renovations Since 1980	18,714	17,529	10,462	16,750	6,341	3,923	2,665
Building Newer than 1980	28,225	27,058	15,564	25,904	12,766	9,837	8,906
Energy Sources (more than one may apply)							
Electricity	63,307	62,060	38,528	59,688	27,571	20,643	17,703
Natural Gas	43,468	42,950	28,624	41,843	21,209	15,922	13,645
Fuel Oil	15,157	15,037	11,635	14,904	10,201	7,314	6,893
District Heat	5,443	5,319	3,617	5,239	3,663	2,665	1,857
District Chilled Water	2,853	2,819	1,768	2,784	1,909	1,040	725
Propane	7,076	6,990	4,170	6,821	2,999	3,170	2,015
Other	1,401	1,370	902	1,365	672	525	480
Energy End Uses (more than one may apply)							
Buildings with Space Heating	60,028	59,215	37,220	57,351	26,835	20,093	17,042
Buildings with Cooling	56,940	56,661	36,075	55,117	26,790	19,054	17,115
Buildings with Water Heating	56,478	56,011	36,622	54,438	26,878	19,191	16,887
Buildings with Cooking	22,237	22,166	17,258	21,686	14,174	9,621	9,083
Buildings with Manufacturing	3,138	3,097	1,877	3,028	1,297	1,682	925
Buildings with Electricity Generation	12,821	12,745	9,976	12,665	10,041	6,861	6,448
Percent Lit When Open							
Zero	293	Q	Q	Q	Q	Q	Q
1 to 50	10,203	10,203	6,483	9,412	3,456	1,947	2,425
51 to 99	18,288	18,288	12,947	17,816	9,855	7,153	6,112
100	32,789	32,789	18,667	31,745	14,115	11,234	9,110
Building Never Open/ Electricity Not Used	3,210	754	Q	688	Q	Q	Q
Percent Lit When Closed							
Zero	17,385	16,238	7,932	15,284	3,944	3,946	3,202
1 to 50	30,948	30,948	19,169	30,185	13,696	10,741	8,126
51 to 100	2,093	2,093	1,285	2,027	975	850	642
Building Never Closed/ Electricity Not Used	14,357	12,781	10,142	12,192	8,957	5,105	5,733

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	All Buildings*	Lit Buildings	Lighting Equipment Types (more than one may apply)					Halogen
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All Buildings*	64,783	62,060	38,528	59,688	27,571	20,643	17,703	
Lighting Equipment Types (more than one may apply)								
Incandescent	38,528	38,528	38,528	37,239	21,329	14,648	14,163	
Standard Fluorescent	59,688	59,688	37,239	59,688	26,861	20,142	17,120	
Compact Fluorescent	27,571	27,571	21,329	26,861	27,571	12,576	11,937	
High Intensity Discharge	20,643	20,643	14,648	20,142	12,576	20,643	9,747	
Halogen	17,703	17,703	14,163	17,120	11,937	9,747	17,703	
Other	269	269	Q	Q	Q	Q	Q	
Window and Interior Lighting Features (more than one may apply)								
Multipaned Windows	38,910	38,424	25,727	37,660	20,119	14,503	13,124	
Tinted Window Glass	29,887	29,365	18,489	28,746	15,891	11,918	10,155	
Reflective Window Glass	8,544	8,425	6,287	8,268	5,773	4,227	3,826	
External Overhangs or Awnings	17,242	17,087	11,255	16,708	8,357	6,023	5,334	
Skylights or Atriums	12,546	12,486	9,279	12,237	8,220	6,289	5,355	
Daylighting Sensors	2,868	2,868	2,294	2,866	2,241	1,703	1,496	
Specular Reflectors	26,118	26,118	18,183	26,118	15,591	12,104	9,930	
Electronic Ballasts	46,882	46,882	30,132	46,583	24,070	17,727	14,691	
Energy Management and Control System (EMCS) For Lighting	4,781	4,781	3,410	4,660	3,520	2,482	2,107	
Equipment Usage Reduced When Building Not In Full Use (more than one may apply)^a								
Heating	42,722	42,305	26,468	41,078	19,895	14,125	12,169	
Cooling	43,205	42,977	27,055	41,816	20,272	14,612	12,630	
Lighting	46,987	46,987	27,178	45,368	17,968	14,743	11,455	
Office Equipment	19,397	19,349	10,095	18,742	6,533	5,154	4,089	

See "Guide to the Tables" or "Glossary" for further explanations of the terms used in this table. Both can be accessed from the CBECS web site - <http://www.eia.doe.gov/emeu/cbecs>.

* Figures in this table do not include enclosed malls and strip malls. Mall buildings add an estimated 213 thousand buildings comprising 6.9 billion square feet.

^a The definition for one or more of these row items has changed and may not be directly comparable with past CBECS estimates. See "Guide to the Tables" for discussion of the differences.

Q=Data withheld because the Relative Standard Error (RSE) was greater than 50 percent, or fewer than 20 buildings were sampled. N=No responding cases in sample.

Notes: ● HVAC = Heating, Ventilation, and Air Conditioning. ● Due to rounding, data may not sum to totals.

Source: Energy Information Administration, Office of Energy Markets and End Use, Form EIA-871A of the 2003 Commercial Buildings Energy Consumption Survey.