

Table 2. Lighting Power Densities Using Space-by-Space Method

Common Space Types*	LPD, W/m²	Building-Specific Space Types	LPD, W/m²
Office—enclosed	12	Gymnasium/exercise center	
Office—open plan	12	Playing Area	15
Conference/meeting/multipurpose	14	Exercise Area	10
Classroom/lecture/training	15	Courthouse/police station/penitentiary	
For penitentiary	14	Courtroom	20
Lobby	14	Confinement cells	10
For hotel	12	Judges' chambers	14
For performing arts theater	36	Fire Stations	
For motion picture theater	12	Engine room	9
Audience/seating Area	10	Sleeping quarters	3
For gymnasium	4	Post office—sorting area	13
For exercise center	3	Convention center—exhibit space	14
For convention center	8	Library	
For penitentiary	8	Card file and cataloging	12
For religious buildings	18	Stacks	18
For sports arena	4	Reading area	13
For performing arts theater	28	Hospital	
For motion picture theater	13	Emergency	29
For transportation	5	Recovery	9
Atrium—first three floors	6	Nurses' station	11
Atrium—each additional floor	2	Exam/treatment	16
Lounge/recreation	13	Pharmacy	13
For hospital	9	Patient room	8
Dining Area	10	Operating room	24
For penitentiary	14	Nursery	6
For hotel	14	Medical supply	15
For motel	13	Physical therapy	10
For bar lounge/leisure dining	15	Radiology	4
For family dining	23	Laundry—washing	6
Food preparation	13	Automotive—service/repair	8
Laboratory	15	Manufacturing	
Restrooms	10	Low bay (<7.6 m floor to ceiling height)	13
Dressing/locker/fitting room	6	High bay (≥7.6 m floor to ceiling height)	18
Corridor/transition	5	Detailed manufacturing	23
For hospital	11	Equipment room	13
For manufacturing facility	5	Control room	5
Stairs—active	6	Hotel/motel guest rooms	12
Active storage	9	Dormitory—living quarters	12
For hospital	10	Museum	
Inactive storage	3	General exhibition	11
For museum	9	Restoration	18
Electrical/mechanical	16	Bank/office—banking activity area	16
Workshop	20	Religious buildings	
Sales area [for accent lighting, see Section 9.6.2(B) of ASHRAE Standard 90.1]	18	Worship pulpit, choir	26
		Fellowship hall	10
		Retail	
		Sales area for accent lighting, see Section 9.6.3(C) of ASHRAE Standard 90.1]	18
		Mall concourse	18
		Sports arena	
		Ring sports area	29
		Court sports area	25
		Indoor playing field area	15
		Warehouse	
		Fine material storage	15
		Medium/bulky material storage	10
		Parking garage—garage area	2

Transportation	
Airport—concourse	6
Air/train/bus—baggage area	11
Terminal—ticket counter	16

Source: ASHRAE *Standard* 90.1-2007.

* In cases where both a common space type and a building-specific type are listed, the building-specific space type applies.