



LIGHTING WATTAGE WORKSHEET

Space-by-Space Method

To comply with Fort Collins adopted commercial energy code 2018 IECC, a lighting wattage worksheet must be submitted for new buildings and whenever 50% or more of the lighting changed, added or replaced for a tenant finish. Find the applicable allowances recorded in section C405. Record these allowances with floor area to the allowance table. Sum up the Total Interior Lighting Power Allowance for this table. Keeping this allowance in mind, list every new light fixture and its individual wattage on the Proposed Interior Connected Lighting Power worksheet. Sum the proposed lighting and verify that this is equal or less than the Allowance. When the proposed is greater than the Allowance, lighting fixtures must be removed or replaced with lower wattage fixtures. Along with a lighting plan, submit the completed Lighting Wattage worksheets for review and approval. The lighting wattage form from the ComCheck program can also be used.

WATTAGE ALLOWANCE: SPECIFIC SPACE METHOD (2018 IECC table C405.3.2(2))

Room Number	Specific Space Activity	Area square feet	Allowed watts/sq.ft.	Total allowed watts
Total Interior Lighting Power Allowance:				

PROPOSED INTERIOR CONNECTED LIGHTING POWER

Location	Fixture description (lamp/bulb type and quantity)	Number of fixtures	Watts per fixture	Proposed watts
Total Interior Lighting Wattage Proposed:				

TABLE C405.3.2(2)
INTERIOR LIGHTING POWER ALLOWANCES:
SPACE-BY-SPACE METHOD

COMMON SPACE TYPES^a	LPD (watts/sq.ft)
Atrium	
Less than (<) 40 feet in height	0.03 per ft/height
Greater than (>) 40 feet in height	0.40+0.02 per ft/height
Audience seating area	
In an auditorium	0.63
In a convention center	0.82
In a gymnasium	0.65
In a motion picture theater	1.14
In a penitentiary	0.28
In a performing arts theater	2.03
In a religious building	1.53
In a sports arena	0.43
Otherwise	0.43
Banking activity area	0.86
Breakroom (See Lounge/breakroom)	
Classroom/lecture hall/training room	
In a penitentiary	1.34
Otherwise	0.96
Computer room	1.33
Conference/meeting/multipurpose	1.07
Copy /print room	0.56
Corridor	
In a facility for the visually impaired (not used primarily by staff) ^b	0.92
In a hospital	0.92
In a manufacturing facility	0.29
Otherwise	0.66
Courtroom	1.39
Dining area	
In a bar/lounge or leisure dining	0.93
In a cafeteria or fast food dining	0.63
In a facility for the visually impaired (not used primarily by staff) ^b	2.00
In family dining	0.71
In a penitentiary	0.96
Otherwise	0.63
Electrical/mechanical room	0.43
Emergency vehicle garage	0.41
Food preparation area	1.06
Guestroom ^{c,d}	0.77
Laboratory	
In or as a classroom	1.20

COMMON SPACE TYPES^a	LPD (watts/sq.ft)
Otherwise	1.45
Laundry/washing area	0.43
Loading dock, interior	0.58
Lobby	
For an elevator	0.68
In a facility for the visually impaired (not used primarily by staff) ^b	2.03
In a hotel	1.06
In a motion picture theater	0.45
In a performing arts theater	1.7
Otherwise	1.0
Locker room	0.48
Lounge/breakroom	
In a healthcare facility	0.78
Otherwise	0.62
Office	
Enclosed	0.93
Open plan	0.81
Parking area, interior	0.14
Pharmacy area	1.34
Restroom	
In a facility for the visually impaired (not used primarily by staff) ^b	0.96
Otherwise	0.85
Sales area	1.22
Seating area, general	0.42
Stairway (see space containing stairway)	
Stairwell	0.58
Storage room	0.46
Vehicular maintenance area	0.56
Workshop	1.14
BUILDING TYPE SPECIFIC SPACE TYPES^a	LPD (watts/sq.ft)
Automotive (see vehicular maintenance area)	
Convention center-exhibit space	0.88
Dormitory-living quarters ^{c,d}	0.54
Facility for the visually impaired ^b	
In a chapel (not used by primary staff)	1.06
In rec room (not used by primary staff)	1.80
Fire station-sleeping quarters ^c	0.20
Gymnasium/fitness center	
In an exercise area	0.50
In a playing area	0.82

(continued)

BUILDING TYPE SPECIFIC SPACE TYPES^a	LPD (watts/sq.ft)
Healthcare facility	
In an exam/treatment room	1.68
In an imaging room	1.06
In a medical supply room	0.54
In a nursery	1.00
In a nurse's station	0.81
In an operating room	2.17
In an patient room ^c	0.62
In a physical therapy room	0.84
In a recovery room	1.03
Library	
In a reading area	0.82
In the stacks	1.20
Manufacturing facility	
In a detailed manufacturing area	0.93
In an equipment room	0.65
In an extra-high-bay area > 50' high	1.05
In a low-bay-area 25'-50' high	0.75
In a low-bay-area < 25' high	0.96
Museum	
In a general exhibition area	1.05
In a restoration room	0.85
Performing arts theater dressing rm	0.36
Post office-sorting area	0.68
Religious buildings	
In a fellowship hall	0.55
In a worship/pulpit/choir area	1.53
Retail facilities	
In a dressing/fitting room	0.5
In a mall concourse	0.9
Sports arena-playing area	
For a Class I facility ^e	2.47
For a Class II facility ^f	1.96
For a Class III facility ^g	1.7
For a Class IV facility ^h	1.13
Transportation facility	
In a baggage/carousel area	0.45
In an airport concourse	0.31
At a terminal ticket counter	0.62
Warehouse-storage area	
For med to bulky, palletized items	0.35
For smaller, hand-carried items	0.69