

Table – Building Exterior Lighting Power Density

Building Type	Maximum average Watts per square metre (W/ m²) across total building area
Commercial/Public: Offices, Hotels, Resorts, Restaurants	10
Educational Facilities	12
Manufacturing Facility	13
Retail Outlets, Shopping Malls , Workshop	14
Warehouses	8

Lighting Power Densities for building types not listed in the Table should be no greater than those values given in ASHRAE 90.1-2007 Table 9.5.1. or equivalent as approved by DEWA

12.2.3 Lighting Power Density – Exterior

The average Lighting Power Density for the exterior connected lighting load must be no more than the values given in the Table.

Table – Building Exterior Lighting Power Density

Building Type	Maximum Watts per square metre or linear metre
Uncovered parking lots and drives	1.6 W/m ²
Walkways less than 3 metres wide	3.3 W/linear metre
Walkways 3 metres wide or greater	2.2 W/m ²
Outdoor Stairways	10.8 W/m ²
Main entries	98 W/linear metre of door width
Other doors	66 W/linear meter of door width
Open sales areas (including vehicle sales lots)	5.4 W/m ²
Building Facades	2.2 W/m ² for each illuminated wall or surface or 16.4 W/linear metre for each illuminated wall or surface length
Entrances and gatehouse inspection stations at guarded facilities	13.5 W/m ²
Drive-up windows at fast food restaurants	400 W per drive-through