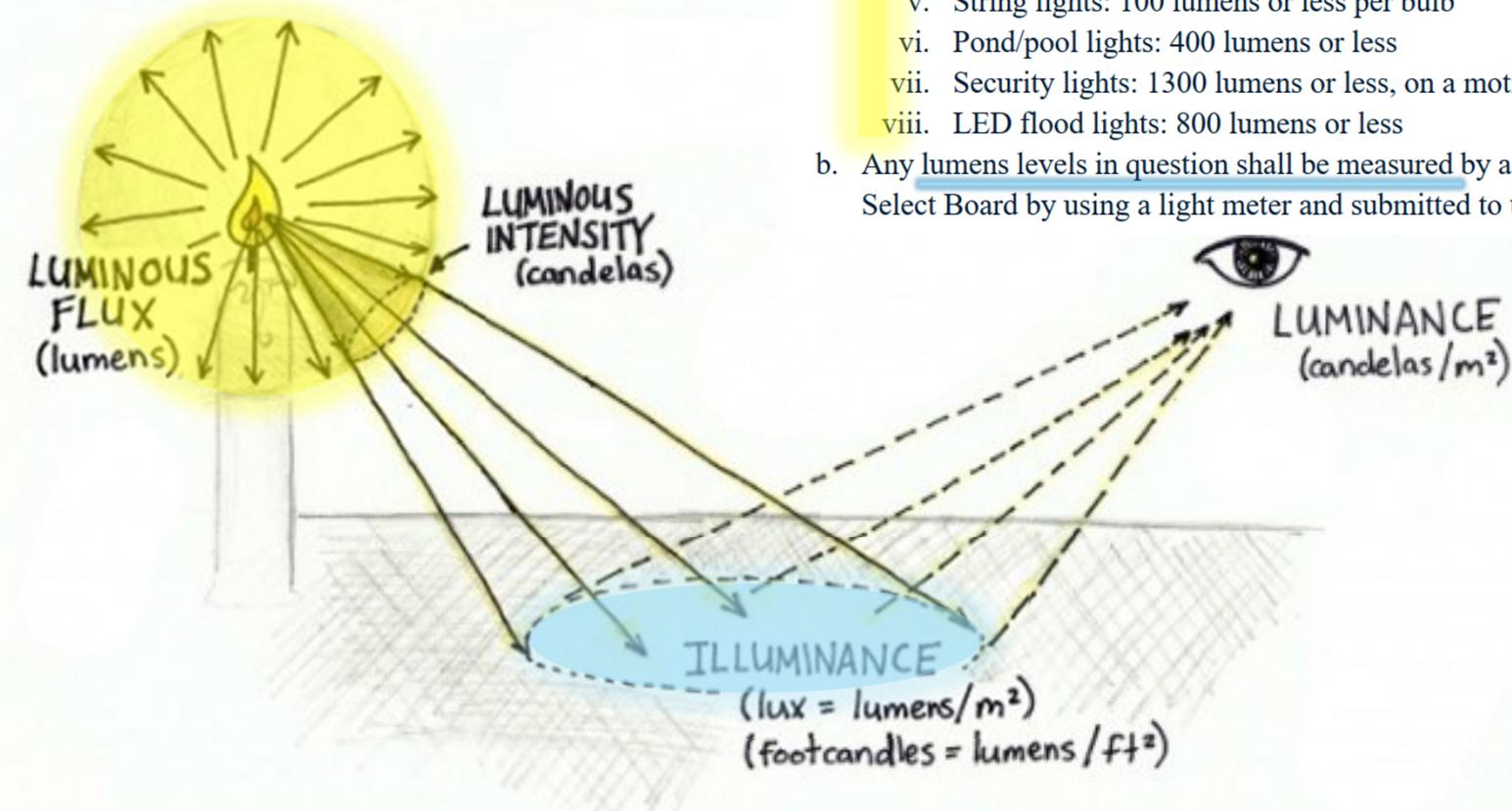


5. Lumens levels that are too bright for the area that would impact sleeping, enjoying one's own property while outdoors, or directly impacting the enjoyment of the night sky;

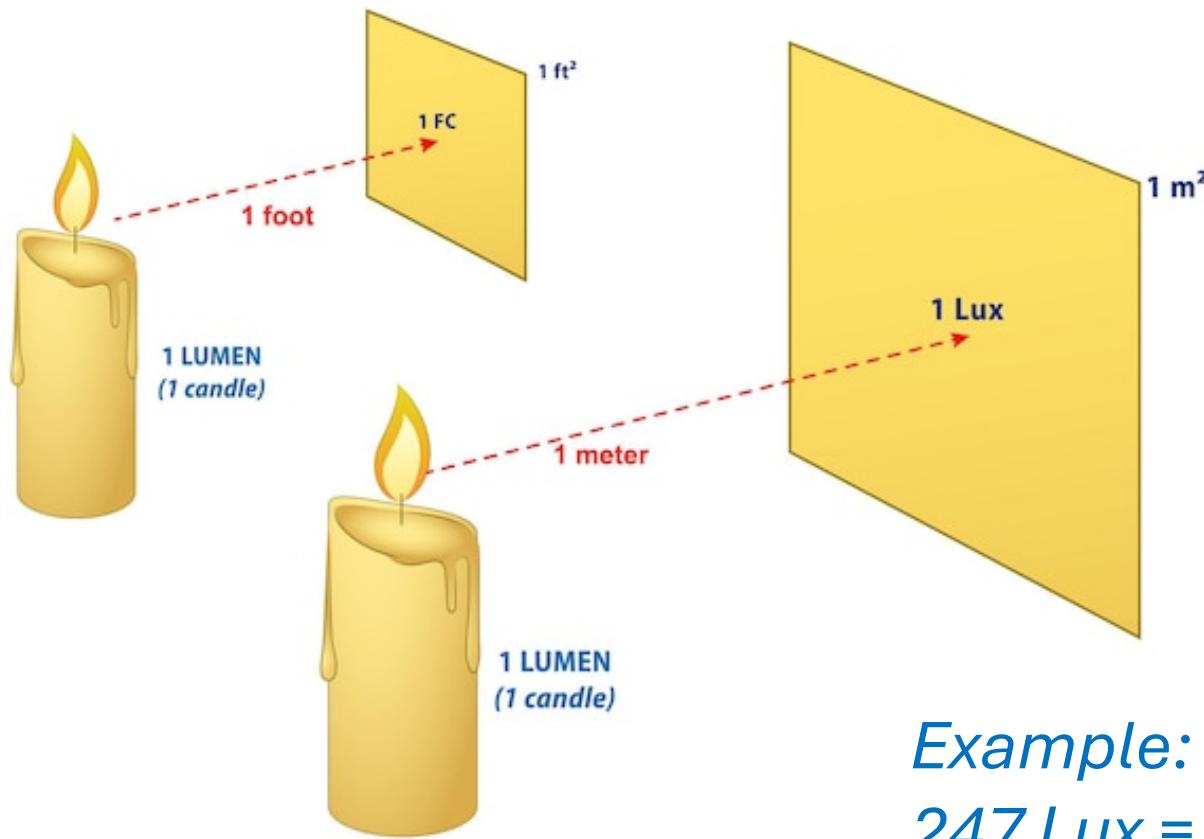
a. appropriate lumens levels for residential neighborhoods:

- i. Step lights: 100 lumens or less;
- ii. Path lights: 200 lumens or less
- iii. Landscape lights: 300 lumens or less
- iv. Wall lights: 600 lumens or less
- v. String lights: 100 lumens or less per bulb
- vi. Pond/pool lights: 400 lumens or less
- vii. Security lights: 1300 lumens or less, on a motion sensor
- viii. LED flood lights: 800 lumens or less

b. Any lumens levels in question shall be measured by a Town employee designated by the Select Board by using a light meter and submitted to the Select Board for consideration.



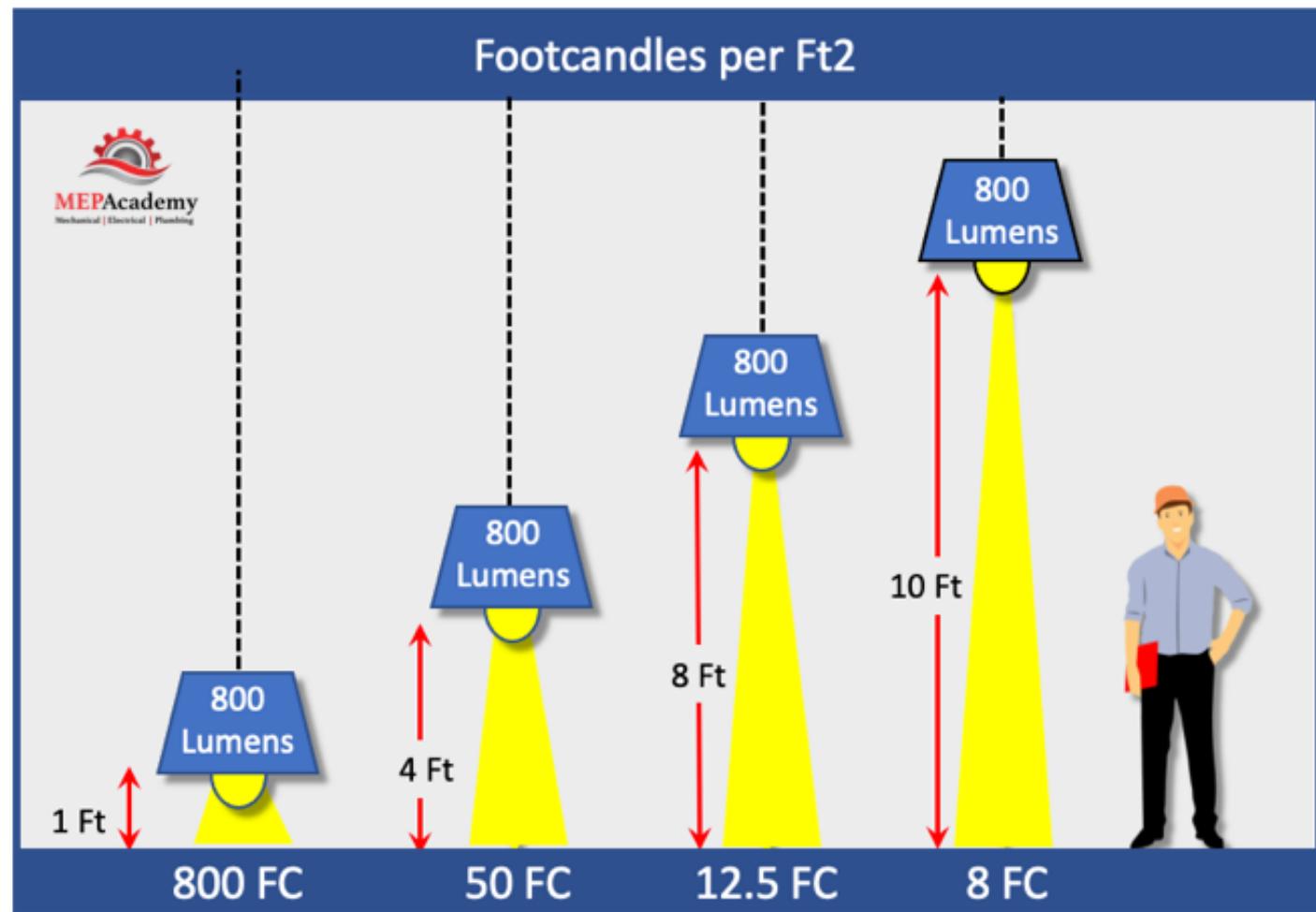
1 Footcandle = 10.76 Lux



Example:
 $247 \text{ Lux} = 22.94 \text{ Footcandles}$

Inverse Square Relationship:

As the distance from the light source doubles, the footcandle intensity decreases to one-fourth of its original value.





Representative image only.

Konica Minolta T-10A Illuminance Light Meter

Konica Minolta | Mfr: A58U-213 (T-10A) | Item: UX-50537-07

 (5.0) [1 Review](#) | [Write a Review](#) | [Q&A](#)

 100% of respondents would recommend this to a friend

Illuminance meters provide highly accurate and reliable measurements

- Conform to Class AA JIS C 1609-1:2006 and DIN 5032 Part 7 Class B standards ... [READ MORE](#)

\$1,719.90 USD / EACH

~~\$1,911.00~~ USD / EACH

In Stock

1

ADD TO CART

https://sensing.konicaminolta.us/us/products/t-10a_t-10ma-illuminance-meters/



Light polluted sky

Visible night sky

UNACCEPTABLE

Unshielded

VERY BAD

Shielded

BAD

Shielded

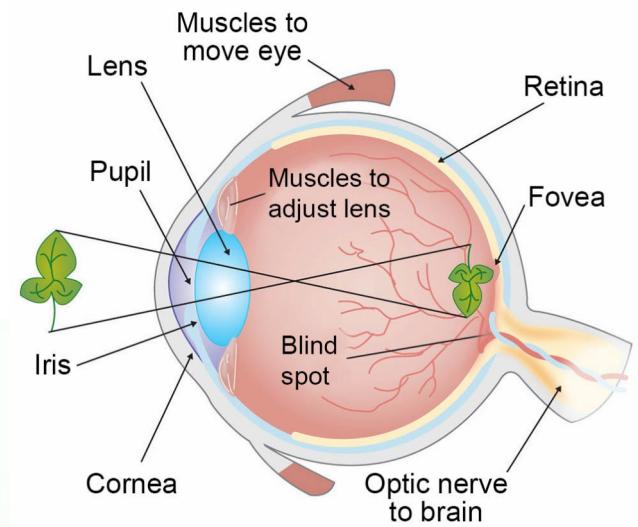
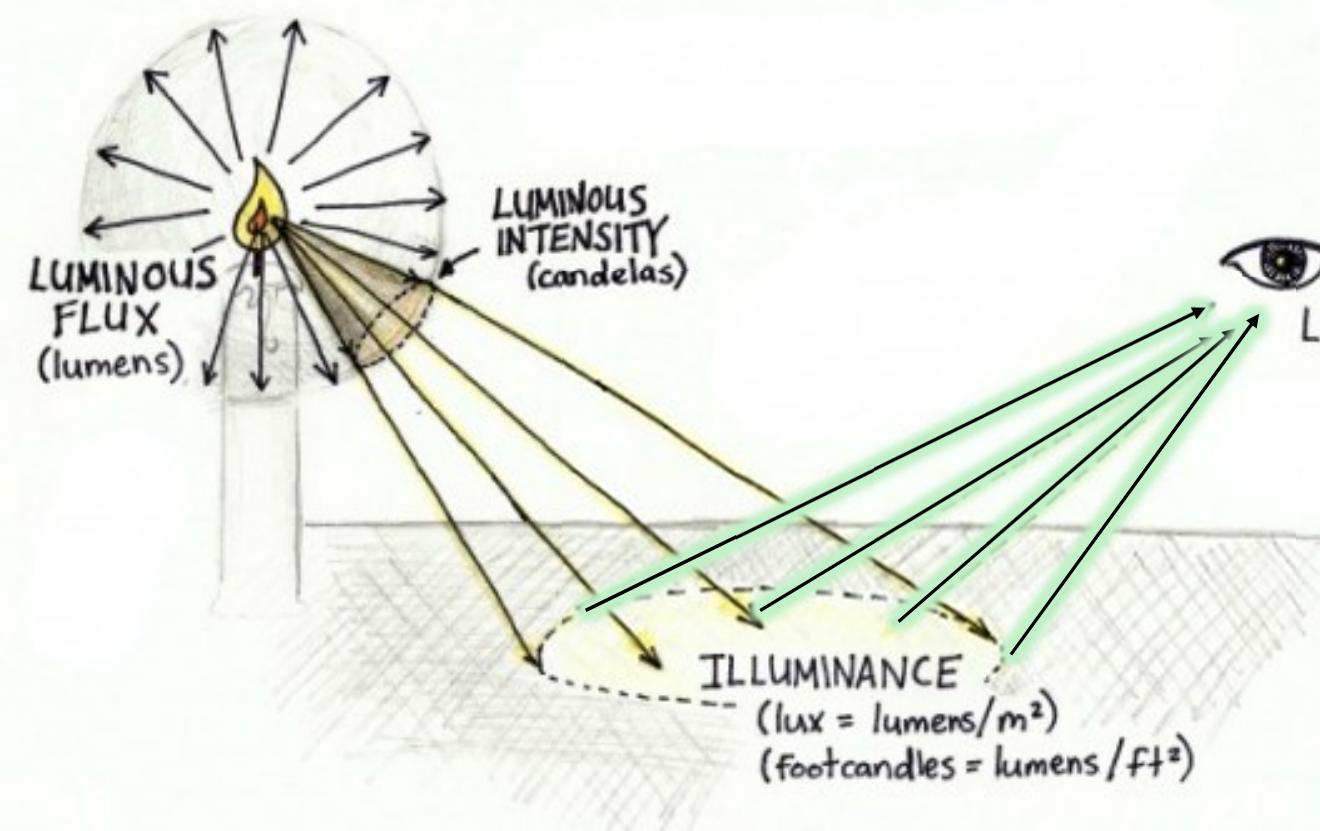
BETTER

Fully shielded

BEST



Fully shielded + timer
or motion sensor



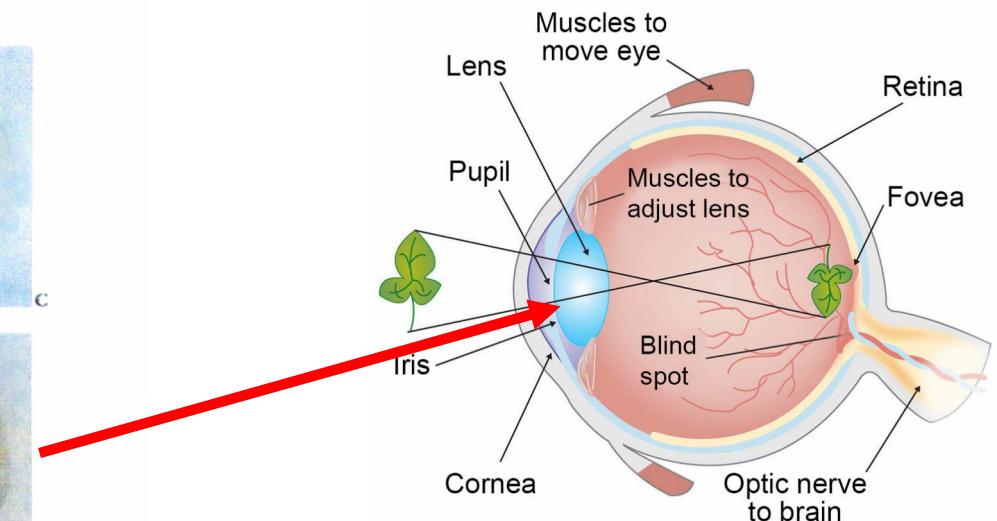
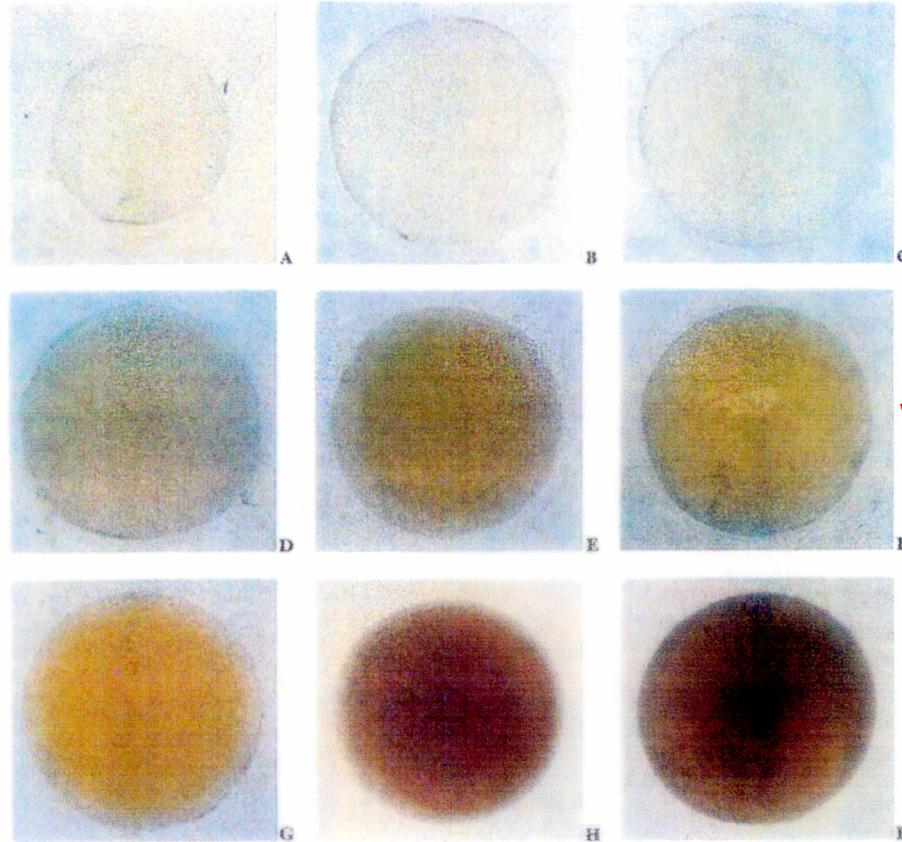


Figure 13 Yellowing and transparency of the Human Lens from 6 month (A) to 8 years (B), 12 years (C), 25 years (D), 47 years (E), 60 years (F), 70 years (G), 82 years (H) and 91 years (I) of age.

Adopted from Lerman, S "Radiant Energy and the Eye"
Macmillan Publishing Co. Inc. New York 1980 Plate 3.1

Town of
WELLESLEY
MASSACHUSETTS

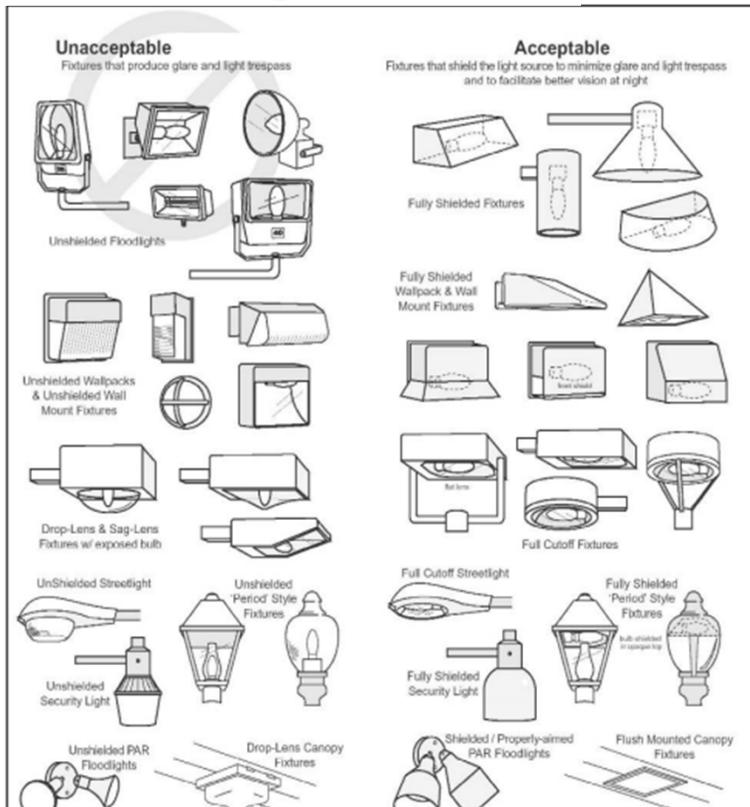


Figure 2 - Examples of Non-Shielded (unacceptable) and Fully Shielded (acceptable) Luminaires

F. General Regulations All exterior luminaires and/or the outdoor lighting conditions associated with the project types subject to the provisions of this Section, shall comply with the following regulations, unless otherwise specified:

1. All luminaires shall be fully shielded. (See Figure 2 for examples for Fully Shielded Luminaires that would be Acceptable and permitted under this Section, or would be unacceptable and therefore prohibited under this Section)
2. For residential uses, the correlated color temperature ("CCT") of any Lamp shall not exceed 2,700K; for all other uses, the CCT of any Lamp shall not exceed 3,000K. ZBL as amended through 2024 STM Page 183
3. Building-Mounted Fixtures: Luminaires attached to the exterior of a building or structure, including those to light signs, shall be mounted no higher than fifteen (15) feet above grade.
4. Ground-Mounted Fixtures: Luminaires mounted on the ground, including on poles or attached to Ground Signs, shall have a height no greater than twenty (20) feet.
5. Illuminance Levels and Light Trespass Limitations: Exterior lighting shall not exceed the illuminance levels (measured horizontally on the ground) or exceed the Light Trespass limits specified below in Table 16G.1; Table 16G.1 shall not apply to Externally Illuminated Signs; however, luminaires associated with such signs shall not have Lamps which produce more than 60 watts and/or 800-900 lumens.

TABLE 16G.1, LIGHTING LEVELS AND LIGHT TRESPASS LIMITATIONS		
Use	Maximum Illuminance (foot-candles/lux)	Maximum Light Trespass* (foot-candles/lux)
Residential Uses	5/50	0.5/5
Outdoor Recreation and Sports Facilities**	75/800	1.0/10
All Other Uses	10/100	

*The maximum foot-candles/lux allowable at all property lines, including property lines along a public or private street or way, except property lines between lots under common ownership.

**To include fields and venues for sporting events, games, and matches, such as tennis courts, and fields for baseball and soccer; not applicable to passive recreation areas, such as walking paths, or natural areas that may be used for recreation, such as skating ponds.