NOTE: Low-rise residential buildings subject to the Standards must comply with all applicable mandatory measures listed, regardless of the compliance approach used. More stringent energy measures listed on the Certificate of Compliance (CF-1R, CF-1R-ADD, or CF-1R-ALT Forms) shall supersede the item marked with an asterisk (*) below. This Mandatory Measures Summary shall be incorporated into the permit documents and the applicable features shall be considered by all parties as minimum component performance specifications whether they are shown elsewhere in the documents or in this summary.

Submit this MF-1R Form with the submittal documents.

## Lighting Measures:

$§150(k)1$: High efficacy luminaires or LED Light Engine with Internal Heat Sink has an efficacy that is no lower than the efficacies contained in Table 150-C and is not a low efficacy luminaire as specified by $§150(k)2$.

$§150(k)3$: The wattage of permanently installed luminaires shall be determined as specified by $§130(d)$.

$§150(k)4$: Ballasts for fluorescent lamps rated 13 watts or greater shall be electronic and shall have an output frequency no less than 20 kHz.

$§150(k)5$: Permanently installed night lights and night lights integral to a permanently installed luminaire or exhaust fan shall contain only high efficacy lamps meeting the minimum efficacies contained in Table 150-C and shall not contain a line-voltage lamp holder; OR shall be rated to consume no more than 5 watts of power as determined by $§130(d)$, and shall not contain a medium screw-base socket.

$§150(k)6$: Lighting integral to exhaust fans, in rooms other than kitchens, shall meet the applicable requirements of $§150(k)$.

$§150(k)7$: All switching devices and controls shall meet the requirements of $§150(k)7$.

$§150(k)8$: A minimum of 50 percent of the total rated wattage of permanently installed lighting in kitchens shall be high efficacy.

**EXCEPTION:** Up to 50 watts for dwelling units less than or equal to 2,500 $ft^2$ or 100 watts for dwelling units larger than 2,500 $ft^2$ may be exempt from the 50 percent high efficacy requirement when: all low efficacy luminaires in the kitchen are controlled by manual on occupant sensors, dimmer, energy management system (EMCS), or a multi-scene programmable control system; and all permanently installed luminaires in garages, laundry rooms, closets greater than 70 $ft^2$, and utility rooms are high efficacy and controlled by a manual-on occupant sensor.

$§150(k)9$: Permanently installed lighting that is internal to cabinets shall use no more than 20 watts of power per linear foot of illuminated cabinet.

$§150(k)10$: Permanently installed luminaires in bathrooms, attached and detached garages, laundry rooms, closets and utility rooms shall be high efficacy.

**EXCEPTION 1:** Permanently installed low efficacy luminaires shall be allowed provided that they are controlled by a manual-on occupant sensor certified to comply with the applicable requirements of $§119$.

**EXCEPTION 2:** Permanently installed low efficacy luminaires in closets less than 70 $ft^2$ are required to be controlled by a manual-on occupant sensor.

$§150(k)11$: Permanently installed luminaires located in rooms or areas other than in kitchens, bathrooms, garages, laundry rooms, closets, and utility rooms shall be high efficacy luminaires.

**EXCEPTION 1:** Permanently installed low efficacy luminaires shall be allowed provided that they are controlled by either a dimmer switch that complies with the applicable requirements of $§119$, or by a manual-on occupant sensor that complies with the applicable requirements of $§119$.

**EXCEPTION 2:** Lighting in detached storage building less than 1,000 $ft^2$ located on a residential site is not required to comply with $§150(k)11$.

$§150(k)12$: Luminaires recessed into insulated ceilings shall be listed for zero clearance insulation contact (IC) by Underwriters Laboratories or other nationally recognized testing/rating laboratory; and have a label that certifies the luminaire is air tight with air leakage less than 2.0 CFM at 75 Pascals when tested in accordance with ASTM E283; and be sealed with a gasket or caulk between the luminaire housing and ceiling.