

| | |
|---------------|--------|
| Project : | Type: |
| Product Code: | Date : |



Round



Square



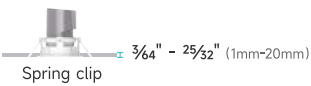
Wall Washing

DESCRIPTION

ELLA-Hotel series is not only an aesthetic designed downlight, but also release high quality light thanks to combination of a precision light beam lens and secondary reflector. The luminaires blend elegantly into the ceiling layout and embody the philosophy of "light instead of luminaires." Super modular design, round as well as square with adjustable and fixed options, in various wattages, ELLA-hotel series is a great choice to get a unified impression in one environment.

FEATURES

- Elegant & compact in its style, versatile in its using.
- Precise light control, 15°, 24°, 38°, 55° beam lens options.
- Interchangeable different color secondary reflectors for anti-glare and decorative function.
- Super modular design, replacing LED module, trims, beam lens, honeycomb filter and secondary reflectors without any needs for tools.
- 355° rotation and 30° tilt.
- Anti-glare accessories provide maximum visual comfort.
- Service the LED optics and Driver from above the ceiling.

| | | EM060 | |
|-------------------------------|-------------------------------------|--|--------|
| WATTAGE | | 10W | 15W |
| LUMEN OUTPUT | | 920lm | 1248lm |
| BEAM OPTICS | Spot <input type="checkbox"/> | 15°, 24° | |
| | Flood <input type="checkbox"/> | 38° | |
| | Wide Flood <input type="checkbox"/> | 55° | |
| | Wallwash <input type="checkbox"/> | Wall Washing | |
| LIGHT COLOR | | Static White: 2700K, 3000K, 3500K, 4000K Dim To Warm: 2000K-3000K | |
| COLOR QUALITY | | CRI80+/90+, 3 SDCM | |
| INPUT WATTAGE | | 10W | 15W |
| INPUT VOLTAGE | | 120/277V input, 50/60Hz | |
| POWER FACTOR | | Greater than 0.9 | |
| DIMMING TYPE | | Triac dimming & 0-10V dimming range: 10%-100% | |
| CEILING THICKNESS: | |  Spring clip $\frac{3}{64}'' - \frac{25}{32}''$ (1mm-20mm) | |
| INSTALLATION | | New Construction, Remodel, IC Rated Housing | |
| LISTINGS | | ETL Listed to US and Canadian standards for damp locations. (IC) ETL listed for direct contact w/insulation. | |
| WARRANTY | | 5 year limited warranty | |
| AMBIENT OPERATING TEMPERATURE | | -20°C to 40°C | |
| SYSTEM RATING | | 80% of initial lumens at 50000 hours (L80) | |







1. Approximate lumen output based on 3000K performance, see photometric test results for additional information.
2. 10W Can be **IC-Rated housing**.

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ORDERING INFORMATION

| EM060 | EF | 6 | 1 | | | | | | | | |
|------------|------|-------------------------|-------------|---|--|-----------------------------|-------------------------------|--|---|---|--|
| LED Module | Trim | Dimensions of Trim | Application | Trim Shape | Trim Style | Flangeless Trim | Safety Standard | Voltage | Lumen Output | Dimming Methods | Including Housing |
| EM060 | EF | 6 Nominal size: 60mm | 1 Hotel | RA Round adjustable RF Round fixed SA Square adjustable | 01 Standard 02 Wall Washing 03 Wall Washing Dual-head 04 Wall Washing Triple-head | F Flangeless Trim | A American standard | SV 120V MV 120-277V | L08 800lm L12 1200lm | V 0-10V T Triac X 0-10V/Triac | C New Construction R Remodel H Housing |

ACCESSORIES (TO BE ORDERED SEPARATELY) FOR INSTALLATION CONSULT THE INSTRUCTION SHEET

| | | | | | | | | | | | | | |
|--|--|---|--|---|--|--|--|---|--|---|--|--|--|
| OPTICAL ACCESSORY <input type="checkbox"/> HONEYCOMB FILTER EM060-H  | | <input type="checkbox"/> SOFT LENS EM060-L  | | SECONDARY REFLECTOR COLOR <input type="checkbox"/> BLACK EF61RA-SB EF61RF-SB EF61SA-SB  | | | | <input type="checkbox"/> BRIGHT SILVER EF61RA-SS EF61RF-SS EF61SA-SS  | | <input type="checkbox"/> MATT SILVER EF61RA-SM EF61RF-SM EF61SA-SM  | | <input type="checkbox"/> MATT WHITE EF61RA-SW EF61RF-SW EF61SA-SW  | |
|--|--|---|--|---|--|--|--|---|--|---|--|--|--|

LUMEN MULTIPLIERS

| CCT | MULTIPLIER |
|-------|------------|
| 2700K | 0.95 |
| 3000K | 1.00 |
| 3500K | 1.03 |
| 4000K | 1.06 |

| CRI | MULTIPLIER |
|-----|------------|
| 80+ | 1.23 |
| 90+ | 1.00 |

| STANDARD TRIM | MULTIPLIER |
|-------------------------------------|------------|
| EF61RA01 (Round adjustable) | 1.00 |
| EF61RF01 (Round fixed) | 0.95 |
| EF61SA01 (Square adjustable) | 0.97 |

| WALL WASHING TRIM | MULTIPLIER |
|--|------------|
| EF61RF02 (Round fixed) | 1.00 |
| EF61SF02 (Square fixed) | 0.99 |
| EF61SF03 (Square fixed Dual-head) | 1.20 |
| EF61SF04 (Square fixed Triple-head) | 1.85 |

Applying Lumen Multipliers to Calculate Delivered Lumens

| | | | | | | | | |
|--|---|----------------|---|----------------|---|-----------------|---|--------------------------------------|
| Base Fixture Delivered Lumens (from PHOTOMETRIC DATA) | x | CCT Multiplier | x | CRI Multiplier | x | TRIM Multiplier | = | Delivered Lumens for Desired Fixture |
| STANDARD TRIM Example: EM060-EF61RF01 3500K 80+ | | | | | | | | |
| 795.35 lm | x | 1.03 | x | 1.23 | x | 0.95 | = | 957.24 lm |
| WALL WASHING TRIM Example: EM060-EF61RF02 3500K 80+ | | | | | | | | |
| 431.99 lm | x | 1.03 | x | 1.23 | x | 1.00 | = | 547.28 lm |

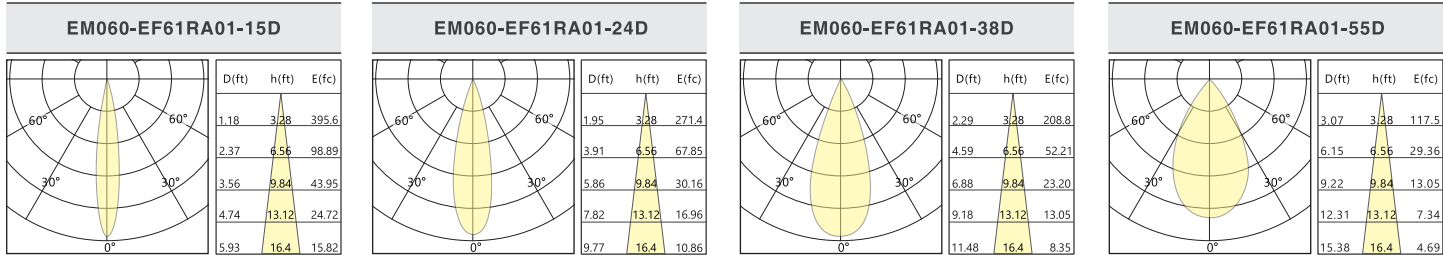
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PHOTOMETRIC DATA (NON-DIMMING)

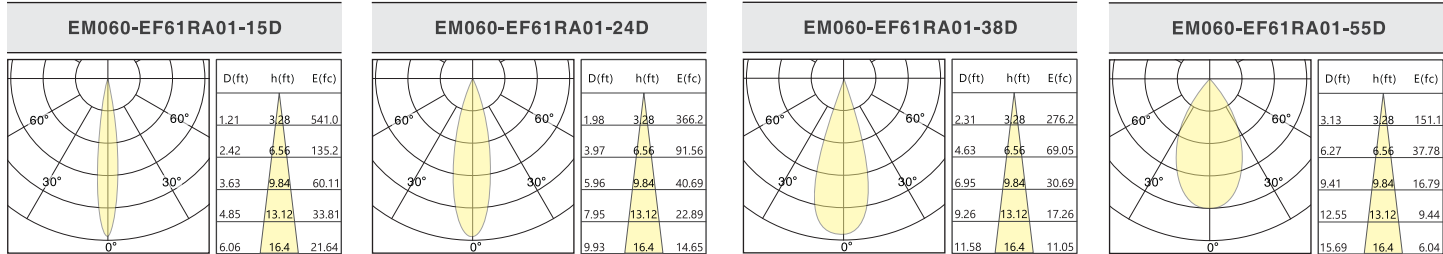
| CCT (K) | CRI | LOAD (W) | BEAM OPTIC | LUMENS (lm) | EFFICACY (lm/w) | MAX CANDELA (cd) |
|---------|-----|----------|------------|-------------|-----------------|------------------|
| 3000K | 90 | 10W | 15° | 795 | 78 | 6244 |
| | | | 24° | 920 | 91 | 2932 |
| | | | 38° | 912 | 90 | 2248 |
| | | | 55° | 869 | 86 | 1264 |
| | | 15W | 15° | 1087 | 78 | 5807 |
| | | | 24° | 1249 | 90 | 3972 |
| | | | 38° | 1212 | 88 | 2969 |
| | | | 55° | 1150 | 84 | 1640 |

Above test data is based on Round Adjustable trim with 3000K 90CRI LED.

EM060-EF61RA01 10W



EM060-EF61RA01 15W



Above test data is based on Round Adjustable trim with 3000K 90CRI LED.

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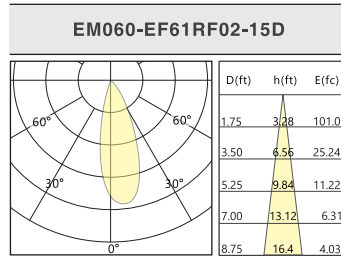
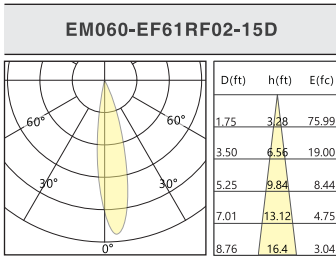
PHOTOMETRIC DATA (NON-DIMMING)

| CCT (K) | CRI | LOAD (W) | BEAM OPTIC | LUMENS (lm) | EFFICACY (lm/w) | MAX CANDELA (cd) |
|---------|-----|----------|--------------|-------------|-----------------|------------------|
| 3000K | 90 | 10W | Wall Washing | 431 | 43 | 828 |
| | | 15W | | 573 | 41 | 1106 |
| | | 10Wx2 | | 957 | 46 | 1909 |
| | | 15Wx2 | | 1474 | 49 | 2871 |
| | | 10Wx3 | | 1241 | 41 | 2398 |
| | | 15Wx3 | | 1981 | 45 | 3803 |

Above test data is based on **Wall Washing** trim with 3000K 90CRI LED.

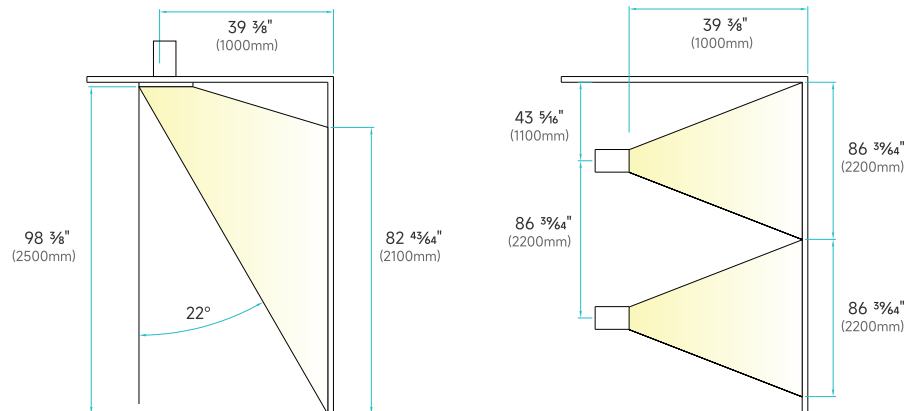
EM060-EF61RF02 10W

EM060-EF61RF02 15W



Above test data is based on **Wall Washing** trim with 3000K 90CRI LED.

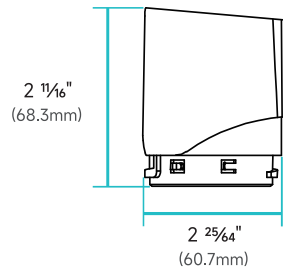
WALL WASHING SUGGESTED SPACING AND WALL DISTANCE



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DIMENSION

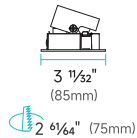
LED Module



Trim For Hotel Series



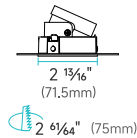
EF61RA01



Round Adjustable



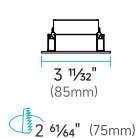
EF61RA01T



Round Adjustable
Flangeless



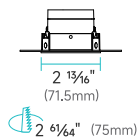
EF61RF01



Round Fixed



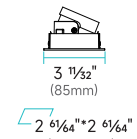
EF61RF01T



Round Fixed
Flangeless



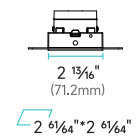
EF61SA01



Square Adjustable



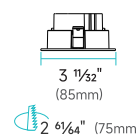
EF61SA01T



Square Adjustable
Flangeless



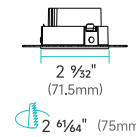
EF61RF02



Round Wall Washing



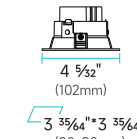
EF61RF02T



Round Wall Washing
Flangeless



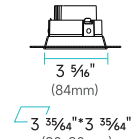
EF61SF02



Square Wall Washing



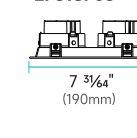
EF61SF02T



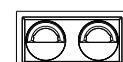
Square Wall Washing
Flangeless



EF61SF03



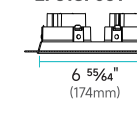
Square Wall Washing
Dual-head



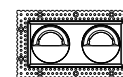
3 15/16"
(100mm)



EF61SF03T



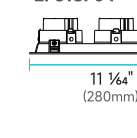
Square Wall Washing
Dual-head Flangeless



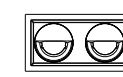
3 5/16"
(84mm)



EF61SF04



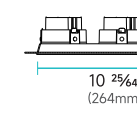
Square Wall Washing
Triple-head



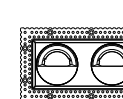
3 15/16"
(100mm)



EF61SF04T



Square Wall Washing
Triple-head Flangeless



3 5/16"
(84mm)

| | |
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INSTALLATION

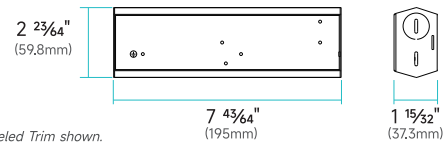


REMODEL

INSTALLATION

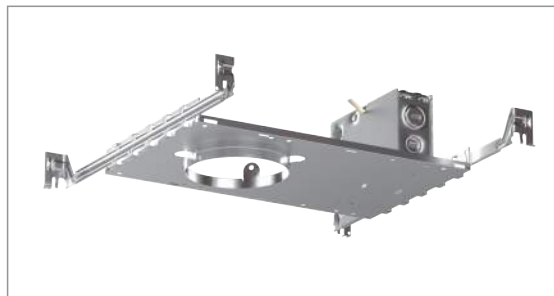
1. Direct connection with installed housing.
2. Operation temperature: -20°C - 40°C.

DIMENSION FOR REMODEL MOUNTED DRIVER



Note: Total height varies depending on trim, Beveled Trim shown.

Minimum height: 3 29/32" (99mm)
Maximum height: 4 31/64" (114mm)

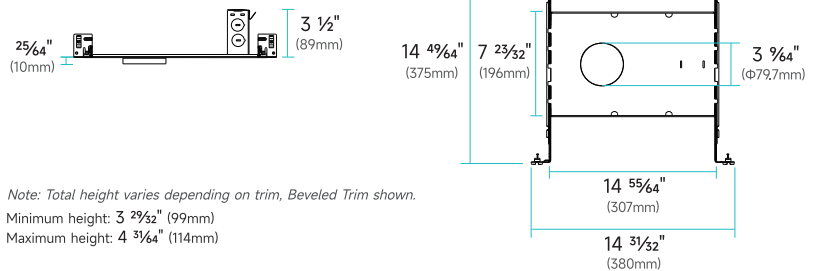


PLATE

INSTALLATION

1. Non-IC rated housings must be kept at a minimum of 3" away from insulation.
2. Fixture includes adjustable bar hangers (14"-25") for wood joist or t-bar ceiling installations.
3. Bar hangers can be installed in either direction.
4. Operation temperature: -20°C - 40°C.

DIMENSION



Note: Total height varies depending on trim, Beveled Trim shown.

Minimum height: 3 29/32" (99mm)
Maximum height: 4 31/64" (114mm)



IC RATED HOUSING

INSTALLATION

1. ETL Listed for direct contact with insulation.
2. Fixture includes adjustable bar hangers (14"-25") for wood joist or t-bar ceiling installations.
3. Bar hangers can be installed in either direction.
4. Operation temperature: -20°C - 40°C.

DIMENSION

