

# GUARDIANS

LED ARCHITECTURAL DOWNLIGHT

RECESSED DOWNLIGHT



eralux®



The GUARDIANS series is the 4 , 5 and 6-inch commercial downlight family from ERALUX. This downlight features a spring mechanisms that makes installation a breeze. It is perfect for retrofit and for new constructions environment. The 4 inches can achieve up to 2500 lumens, 5 inches can achieve up to 3600 lumens and the 6 inches can achieve up to 4300 lumens at 90 CRI, 3000K. The GUARDIANS Series separates itself from competitor downlights by having selectable lumens, CCT switches, and magnetic reflector enabling high flexibility at the project location.

|               |                         |
|---------------|-------------------------|
| DATE          |                         |
| PROJECT NAME  |                         |
| TYPE          |                         |
| QTY           |                         |
| ORDERING CODE | AE-DL-GR - -UV - -X - - |

## OPERATING & ELECTRICAL

|                                |             |
|--------------------------------|-------------|
| INPUT VOLTAGE                  | 120-277 Vac |
| POWER FACTOR                   | 0.9         |
| TOTAL HARMONIC DISTORTION(THD) | <20%        |

## PERFORMANCE

|                 |   |
|-----------------|---|
| LUMENS PER WATT | 110LPW at 90CRI                         |
| BEAM ANGLE      | 24°, 38°, 60°                           |
| DIMMING         | 0-10V external dimming<br>TRIAC dimming |

## MECHANICAL & HOUSING

|              |                                     |
|--------------|-------------------------------------|
| HOUSING      | Aluminum                            |
| LENS         | PMMA and high transmittance lens    |
| FINISH       | Black, White                        |
| POWER SUPPLY | Factory wired electronic LED driver |
| LED BOARD    | COB                                 |

## APPLICATION CONDITION

|                           |               |
|---------------------------|---------------|
| AMBIENT TEMPERATURE RANGE | -20°C to 45°C |
| PROTECTION                | IP54          |

## COMPATIBLE MOUNTING

|          |          |
|----------|----------|
| MOUNTING | Recessed |
|----------|----------|

## WARRANTY

### SYSTEM WARRANTY – 5 YEARS

Eralux will warrant defective drivers, LEDs and boards for 5 years from the date of purchase. This warranty is valid only if the fixture is installed and used as per installation guides and specifications. If a defect is present, Eralux will send drivers and boards at no fee with a thorough replacement instructions along with instructions on the return of the defective parts back to Eralux.

### LUMEN MAINTENANCE – L85 at 50,000 hours

Rated for 85% initial lumen output at 50,000 hours of operation, operated at 25°C ambient temperature; per guidelines published by the Illuminating Engineering Society (IES)

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## ORDERING GUIDE

EXAMPLE: AE-DL-GR-4-UV-20W-WH-XP2724BK

| FIXTURE FAMILY   | SIZE                  | INPUT VOLTAGE          | POWER   | REFLECTOR FINISH                     | CONTROLS              | CRI & CCT                            | BEAM ANGLE                           | FLANGE FINISH                  |                                      |
|--|-----------------------|------------------------|---|--------------------------------------|-----------------------|--------------------------------------|--------------------------------------|--------------------------------|--------------------------------------|
| <b>AE-DL-GR</b>  | -                     | - UV                   | -   |                                      | -X                    |                                      |                                      |                                |                                      |
| <b>AE-DL-GR</b><br>ERALUX<br>Guardians<br>Series Led<br>commercial<br>downlight. | <b>-4</b><br>4 inches | <b>-UV</b><br>120-277V | <b>-20W</b><br>Power:<br>20W<br>Lumens:<br>1694 lms | -WH<br>WHITE                         | -X<br>Dual<br>dimming | <b>P27</b><br>2700k CCT<br>At 90 CRI | <b>24</b><br>24° Beam<br>angle       | <b>BK</b><br>Black<br>finish   |                                      |
|  |                       |                        |   | -BK<br>BLACK                         |                       |                                      |                                      |                                | <b>P30</b><br>3000k CCT<br>At 90 CRI |
|  |                       |                        | <b>-25W</b><br>Power:<br>25W<br>Lumens:<br>2190 lms | -GD<br>GOLD                          |                       | <b>P35</b><br>3500k CCT<br>At 90 CRI |                                      |                                |                                      |
|  |                       |                        |   | -DF<br>DIFFUSED<br>MATT SILVER       |                       |                                      | <b>P40</b><br>4000k CCT<br>At 90 CRI | <b>60</b><br>60° Beam<br>angle |                                      |
|  |                       |                        | -SP<br>Specular<br>Bright silver                    | <b>P50</b><br>5000k CCT<br>At 90 CRI |                       |                                      |                                      |                                |                                      |

| FIXTURE FAMILY   | SIZE                  | INPUT VOLTAGE          | POWER   | REFLECTOR FINISH                     | CONTROLS              | CRI & CCT                            | BEAM ANGLE                           | FLANGE FINISH                  |                                      |
|--|-----------------------|------------------------|---|--------------------------------------|-----------------------|--------------------------------------|--------------------------------------|--------------------------------|--------------------------------------|
| <b>AE-DL-GR</b>  | -                     | - UV                   | -   |                                      | -X                    |                                      |                                      |                                |                                      |
| <b>AE-DL-GR</b><br>ERALUX<br>Guardians<br>Series Led<br>commercial<br>downlight. | <b>-5</b><br>5 inches | <b>-UV</b><br>120-277V | <b>-20W</b><br>Power:<br>20W<br>Lumens:<br>1694 lms | -WH<br>WHITE                         | -X<br>Dual<br>dimming | <b>P27</b><br>2700k CCT<br>At 90 CRI | <b>24</b><br>24° Beam<br>angle       | <b>BK</b><br>Black<br>finish   |                                      |
|  |                       |                        |   | -BK<br>BLACK                         |                       |                                      |                                      |                                | <b>P30</b><br>3000k CCT<br>At 90 CRI |
|  |                       |                        | <b>-30W</b><br>Power:<br>30W<br>Lumens:<br>2441 lms | -GD<br>GOLD                          |                       | <b>P35</b><br>3500k CCT<br>At 90 CRI |                                      |                                |                                      |
|  |                       |                        |   | -DF<br>DIFFUSED<br>MATT SILVER       |                       |                                      | <b>P40</b><br>4000k CCT<br>At 90 CRI | <b>60</b><br>60° Beam<br>angle |                                      |
|  |                       |                        | -SP<br>Specular<br>Bright silver                    | <b>P50</b><br>5000k CCT<br>At 90 CRI |                       |                                      |                                      |                                |                                      |

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| QTY           |          |   |     |   |   |    |  |  |   |
| ORDERING CODE | AE-DL-GR | - | -UV | - | - | -X |  |  | - |

## ORDERING GUIDE

EXAMPLE: AE-DL-GR-6-UV-20W-WH-XP2724BK

| FIXTURE FAMILY   | SIZE                  | INPUT VOLTAGE           | POWER   | REFLECTOR FINISH                         | CONTROLS                     | CRI & CCT                            | BEAM ANGLE                     | FLANGE FINISH                |
|--|-----------------------|-------------------------|---|--|------------------------------|--------------------------------------|--------------------------------|------------------------------|
| <b>AE-DL-GR</b>  | -                     | <b>- UV</b>             | -   | -  | <b>-X</b>                    |                                      |                                |                              |
| <b>AE-DL-GR</b><br>ERALUX<br>Guardians<br>Series Led<br>commercial<br>downlight. | <b>-6</b><br>6 inches | <b>-UV</b><br>120-277 V | <b>-20W</b><br>Power:<br>20W<br>Lumens:<br>1694 lms | <b>-WH</b><br>WHITE                      | <b>-X</b><br>Dual<br>dimming | <b>P27</b><br>2700k CCT<br>At 90 CRI | <b>24</b><br>24° Beam<br>angle | <b>BK</b><br>Black<br>finish |
|  |                       |                         | <b>-25W</b><br>Power:<br>25W<br>Lumens:<br>2190 lms | <b>-BK</b><br>BLACK                      |                              | <b>P30</b><br>3000k CCT<br>At 90 CRI | <b>38</b><br>38° Beam<br>angle | <b>WH</b><br>White<br>finish |
|  |                       |                         |   |  |                              | <b>P35</b><br>3500k CCT<br>At 90 CRI |                                |                              |
|  |                       |                         | <b>-30W</b><br>Power:<br>30W<br>Lumens:<br>2441 lms | <b>-GD</b><br>GOLD                       |                              | <b>P40</b><br>4000k CCT<br>At 90 CRI | <b>60</b><br>60° Beam<br>angle |                              |
|  |                       |                         | <b>-35W</b><br>Power:<br>35W<br>Lumens:<br>3016 lms | <b>-DF</b><br>DIFFUSED<br>MATT<br>SILVER |                              | <b>P50</b><br>5000k CCT<br>At 90 CRI |                                |                              |
|  |                       |                         | <b>-40W</b><br>Power:<br>35W<br>Lumens:<br>3600 lms |  |                              |                                      |                                |                              |
|  |                       |                         | <b>-45W</b><br>Power:<br>45W<br>Lumens:<br>4056 lms | <b>-SP</b><br>Specular<br>Bright silver  |                              |                                      |                                |                              |

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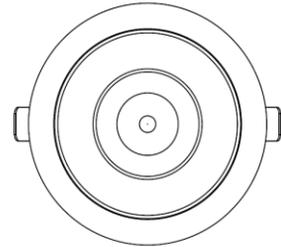
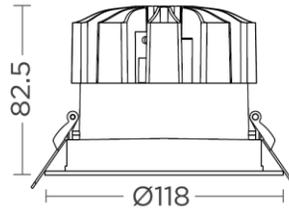
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|               |                           |
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## PRODUCT DIMENSIONS (mm)

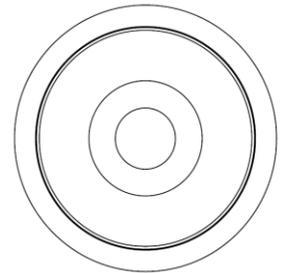
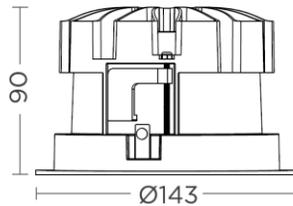
### GR100

AE-DL-GR-4-XXX



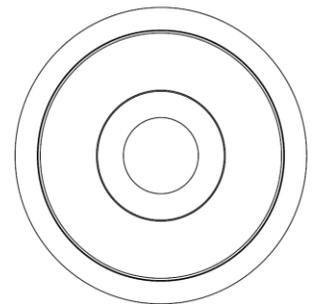
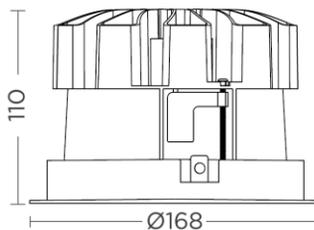
### GR125

AE-DL-GR-5-XXX



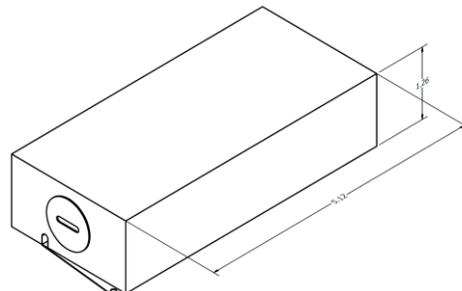
### GR150

AE-DL-GR-6-XXX



Driver's dimensions

20-25-30-35-40-45W



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## ACCESSORIES

Ordered separately, field installed

## NEW CONSTRUCTION FRAME KIT



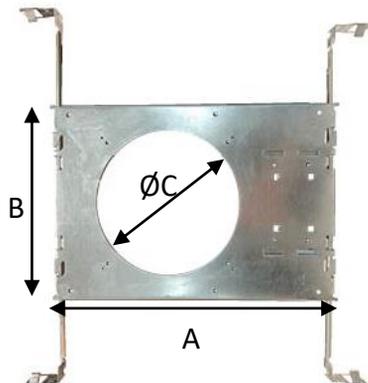
|                      |  |
|----------------------|--|
| <b>MATERIAL</b>      | 22-gauge galvanized steel housing.<br>Galvanized steel junction box with multiple knockouts. |
| <b>MOUNTING</b>      | T-bar or drywall ceilings<br>Up to 1.5" thick  |
| <b>Ordering Code</b> | AE-DL-FRKT-04<br>AE-DL-FRKT-05<br>AE-DL-FRKT-06<br>AE-DL-FRKT-08                             |

## NEW CONSTRUCTION UNIVERSAL FRAME KIT



|                      |  |
|----------------------|--|
| <b>MATERIAL</b>      | 22-gauge galvanized steel housing  |
| <b>MOUNTING</b>      | T-bar or drywall ceilings<br>Up to 1.5" thick                                    |
| <b>Ordering Code</b> | AE-DL-FRKT-04-UNV<br>AE-DL-FRKT-05-UNV<br>AE-DL-FRKT-06-UNV<br>AE-DL-FRKT-08-UNV |

## FRAME KIT DIMENSIONS



| DIMENSIONS |   |                  |
|------------|---|------------------|
|            | A | 12.75" [324 mm]  |
| 4" Round   | B | 8.63" [219 mm]   |
|            | C | Ø 4.50" [114 mm] |
|            | A | 12.75" [324 mm]  |
| 5" Round   | B | 8.63" [219 mm]   |
|            | C | Ø 5.50" [114 mm] |
|            | A | 12.75" [324mm]   |
| 6" Round   | B | 8.63" [219 mm]   |
|            | C | Ø 6.37" [162 mm] |
|            | A | 12.75" [324mm]   |
| 8" Round   | B | 8.63" [219 mm]   |
|            | C | Ø 7.25" [184 mm] |

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## ACCESSORIES

Ordered separately, field installed

### EMERGENCY LED DRIVER (BLD-HMXXD-YYY)

BLD-HM8D-YYY

OUTPUT POWER : 8 WATTS

BLD-HM25D-YYY

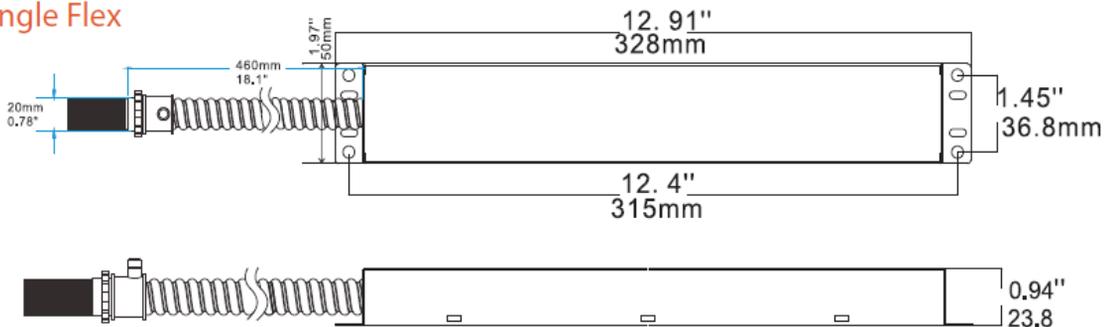
OUTPUT POWER : 25 WATTS



BLD-HMXXD-YYY series LED Emergency Driver is UL listed for field and factory installation that allows the same LED fixture to be used for both normal and emergency operation . In the event of a power failure , the emergency driver switches to emergency mode and operates the existing. Fixture to 90 minutes. The unit contains a battery , charge , and converter circuit in a single enclosure .This module will operate an LED array load at 6-25W with constant power at a rated output voltage of 170VDC. The constant power design of BLD-HMXXD-YYY maintains the output wattage to LED array, providing consistent illumination for entire emergency runtime. Ideal for use with most 0-10V dimmable indoor commercial LED lighting fixtures, such as LED flat panel, troffer, downlight and suspension mounting LED linear strip lights, etc.

## DIMENSIONS

### Single Flex



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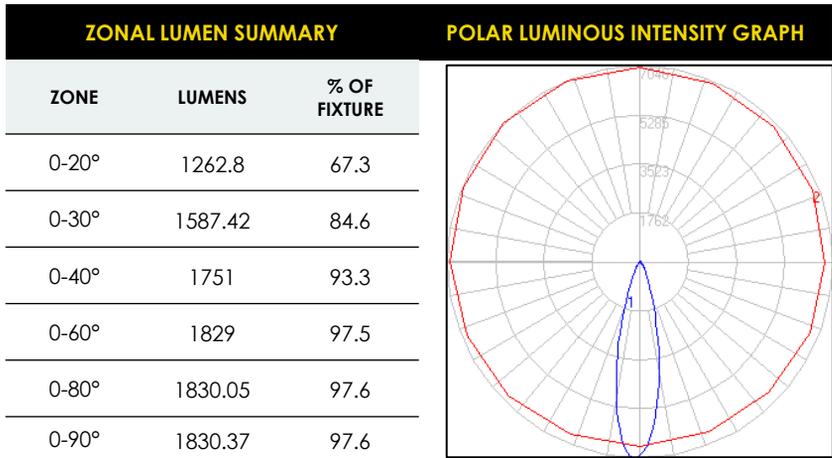
## LUMEN ESTIMATE

Lumen output varies based on CCT and CRI. An estimate of lumen output of the various CCT/CRI combinations, use correction factors as per table below:

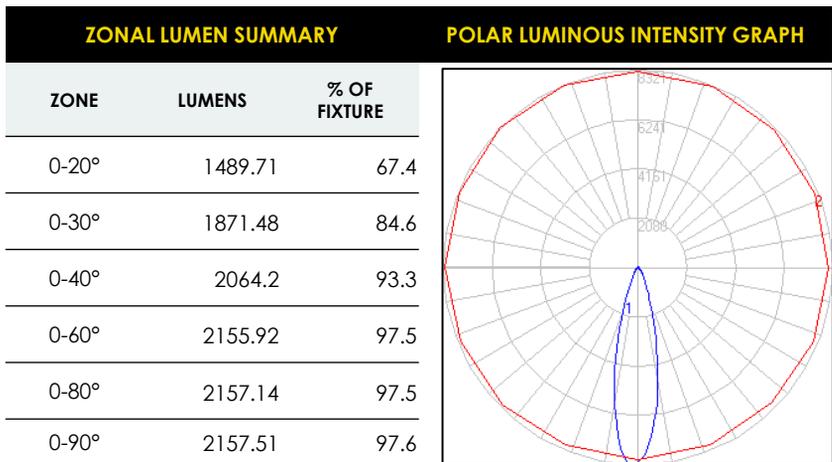
| LUMEN ESTIMATE ADJUSTMENT FACTORS |       |       |       |       |
|-----------------------------------|-------|-------|-------|-------|
| CCT                               | 2700K | 3000K | 3500K | 4000K |
| PREMIUM (90CRI)                   | 0.96  | 1     | 1.03  | 1.06  |

## PHOTOMETRIC DATA

AE-DL-GR-4-UV-20W-X-XP2724X



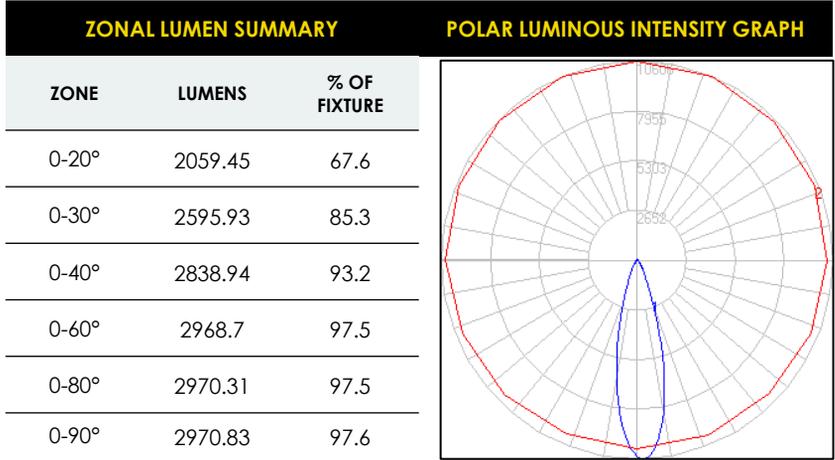
AE-DL-GR-4-UV-25W-X-XP2724X



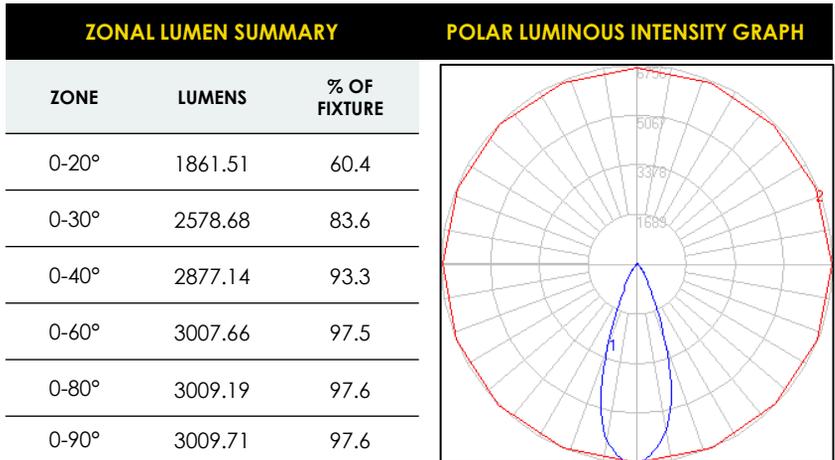
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## PHOTOMETRIC DATA

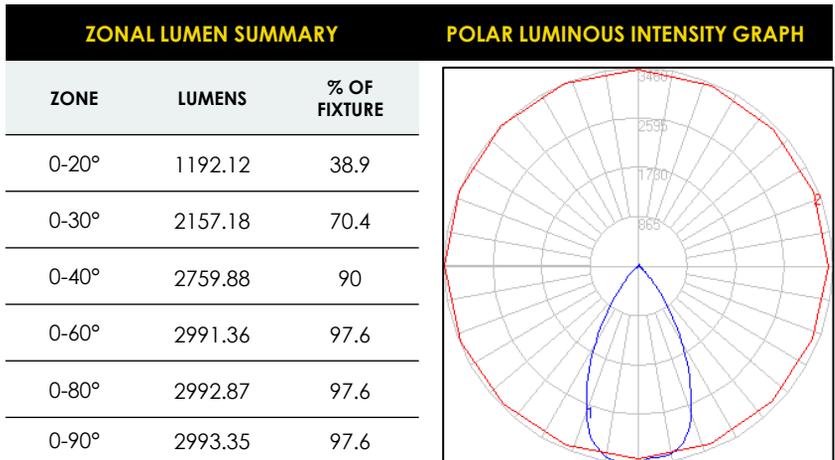
AE-DL-GR-5-UV-30W-X-XP4024X



AE-DL-GR-5-UV-30W-X-XP4038X



AE-DL-GR-5-UV-30W-X-XP4060X



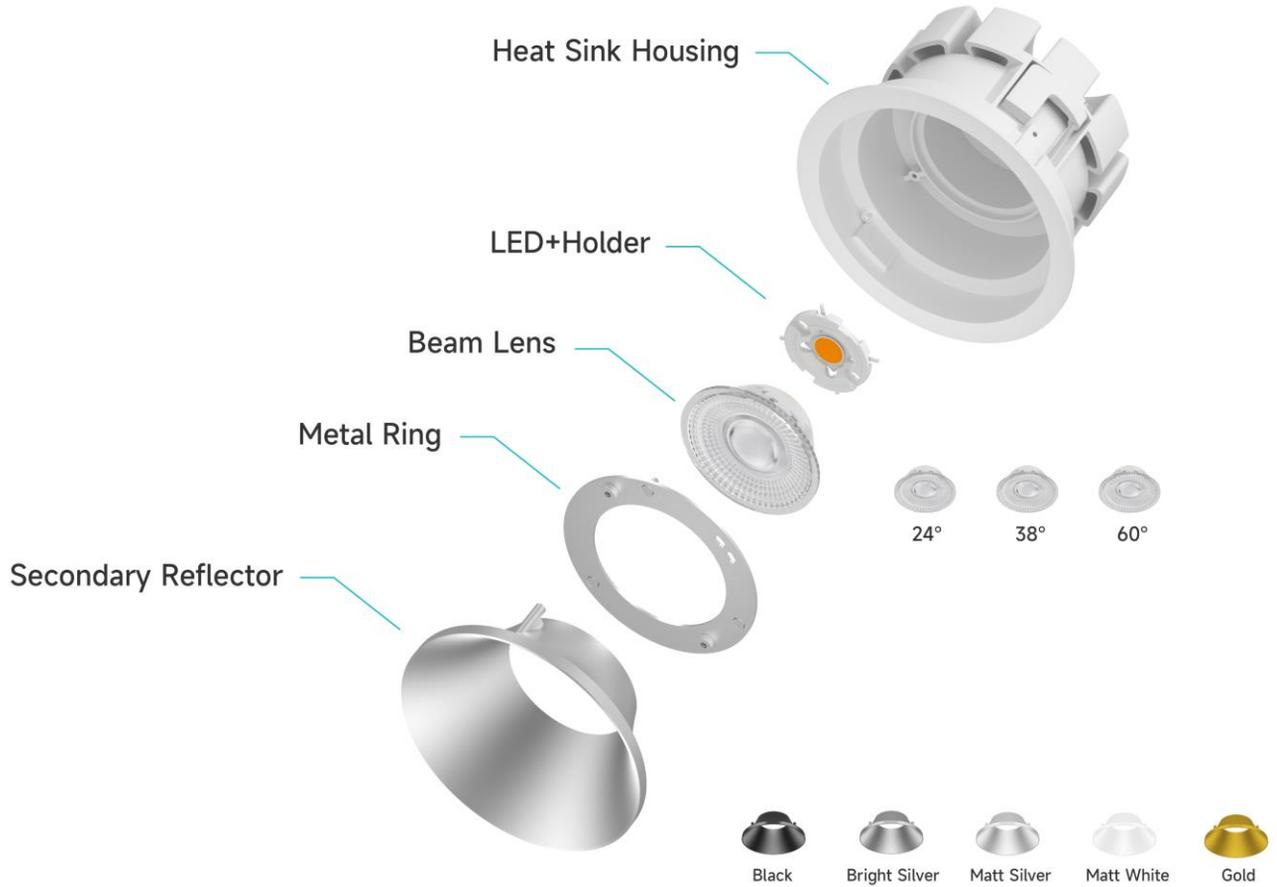
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## PRODUCT ASSEMBLY GUIDE



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## OVERVIEW



## PROTECTION

IP 54

Suitable for semi outdoor and wet areas

## PREMIUM DESIGN & MATERIALS

Housing made from aluminum for increased rigidity and strength. Wet location rated and suitable for temperatures ranging from -20 to 45 degrees Celsius.

## MULTIPLE BEAMS

24 ,38 & 60 DEGREES

## VARIOUS REFLECTORS

Reflectors are available in specular, diffuse and charcoal black. They could fulfill all your needs to create a desirable lighting effect.

## DESIGN

Two different designs for the Guardians Series. The 4" size has springs for installation.

The 5 and 6" size have the Roto Lock Clamp feature which makes the installation easier.