

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

ORDERIN
G CODE

AE-DL-GR

-

-UV

-

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-X

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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
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
AE-DL-GR	-	- UV	-		-X			
AE-DL-GR ERALUX Guardians Series Led commercial downlight.	-4 4 inches	-UV 120-277V	-20W Power: 20W Lumens: 1694 lms	-WH WHITE	-X Dual dimming	P27 2700k CCT At 90 CRI	24 24° Beam angle	BK Black finish
				-BK BLACK		P30 3000k CCT At 90 CRI		
			-25W Power: 25W Lumens: 2190 lms	-GD GOLD		P35 3500k CCT At 90 CRI	38 38° Beam angle	WH White finish
				-DF DIFFUSED MATT SILVER		P40 4000k CCT At 90 CRI		
				-SP Specular Bright silver		P50 5000k CCT At 90 CRI		

FIXTURE FAMILY	SIZE	INPUT VOLTAGE	POWER	REFLECTOR FINISH	CONTROLS	CRI & CCT	BEAM ANGLE	FLANGE FINISH
AE-DL-GR	-	- UV	-	-	-X			
AE-DL-GR ERALUX Guardians Series Led commercial downlight.	-5 5 inches	-UV 120-277V	-20W Power: 20W Lumens: 1694 lms	-WH WHITE	-X Dual dimming	P27 2700k CCT At 90 CRI	24 24° Beam angle	BK Black finish
			-25W Power: 25W Lumens: 2190 lms	-BK BLACK		P30 3000k CCT At 90 CRI	38 38° Beam angle	WH White finish
			-30W Power: 30W Lumens: 2441 lms	-GD GOLD		P35 3500k CCT At 90 CRI		
				-DF DIFFUSED MATT SILVER		P40 4000k CCT At 90 CRI	60 60° Beam angle	
			-35W Power: 35W Lumens: 3016 lms	-SP Specular Bright silver		P50 5000k CCT At 90 CRI		

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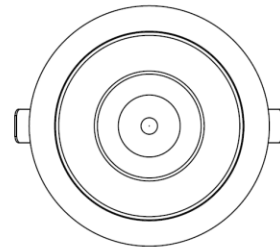
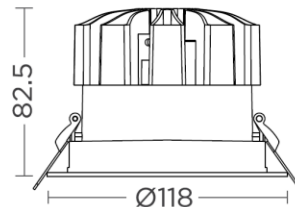
EXAMPLE: AE-DL-GR-6-UV-20W-WH-XP2724BK

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

PRODUCT DIMENSIONS (mm)

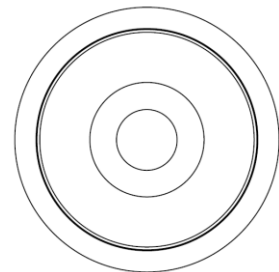
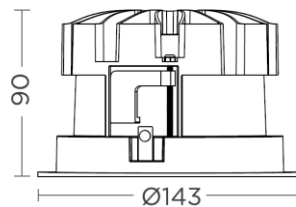
GR100

AE-DL-GR-4-XXX



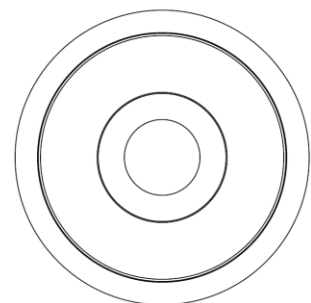
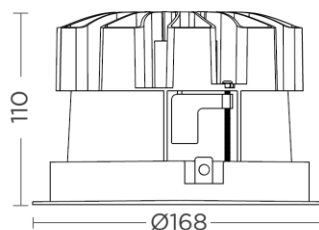
GR125

AE-DL-GR-5-XXX



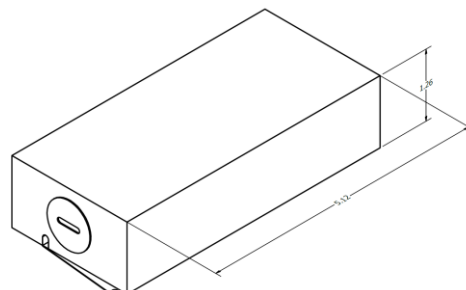
GR150

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



MATERIAL

22-gauge galvanized steel housing.
Galvanized steel junction box with multiple knockouts.

MOUNTING

T-bar or drywall ceilings
Up to 1.5" thick

Ordering Code

AE-DL-FRKT-04
AE-DL-FRKT-05
AE-DL-FRKT-06
AE-DL-FRKT-08

NEW CONSTRUCTION UNIVERSAL FRAME KIT



MATERIAL

22-gauge galvanized steel housing

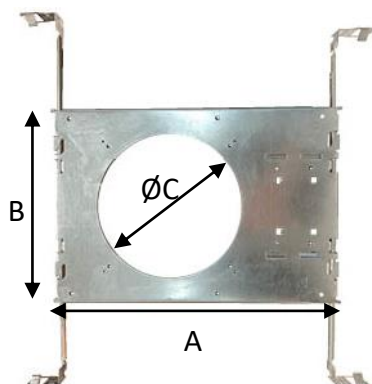
MOUNTING

T-bar or drywall ceilings
Up to 1.5" thick

Ordering Code

AE-DL-FRKT-04-UNV
AE-DL-FRKT-05-UNV
AE-DL-FRKT-06-UNV
AE-DL-FRKT-08-UNV

FRAME KIT DIMENSIONS



DIMENSIONS

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

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ACCESSORIES

Ordered separately, field installed

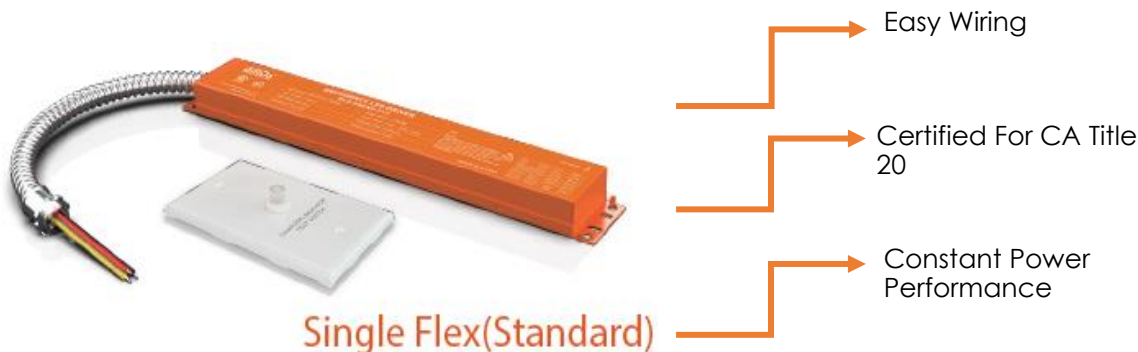
EMERGENCY LED DRIVER (BLD-HMXXD-YYY)

BLD-HM8D-YYY

OUTPUT POWER : 8 WATTS

BLD-HM25D-YYY

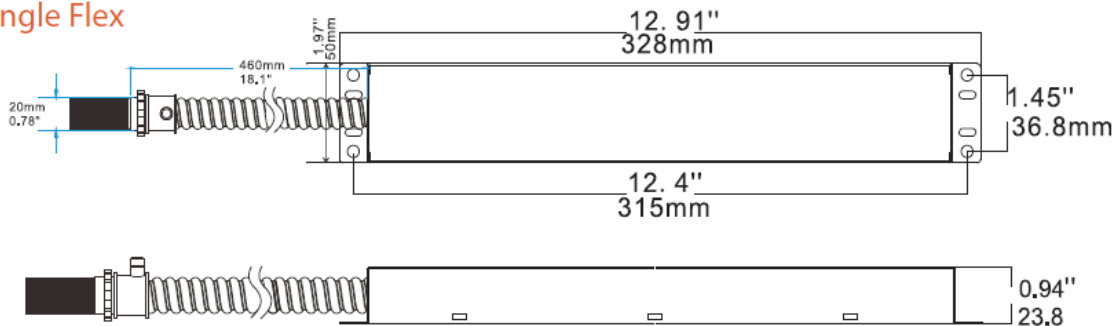
OUTPUT POWER : 25 WATTS



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

ZONAL LUMEN SUMMARY			POLAR LUMINOUS INTENSITY GRAPH
ZONE	LUMENS	% OF FIXTURE	
0-20°	1262.8	67.3	
0-30°	1587.42	84.6	
0-40°	1751	93.3	
0-60°	1829	97.5	
0-80°	1830.05	97.6	
0-90°	1830.37	97.6	

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

ZONAL LUMEN SUMMARY			POLAR LUMINOUS INTENSITY GRAPH
ZONE	LUMENS	% OF FIXTURE	
0-20°	1489.71	67.4	
0-30°	1871.48	84.6	
0-40°	2064.2	93.3	
0-60°	2155.92	97.5	
0-80°	2157.14	97.5	
0-90°	2157.51	97.6	

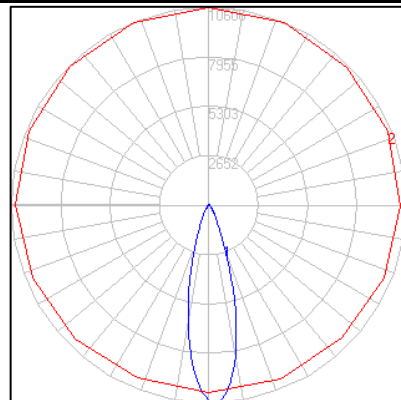
PHOTOMETRIC DATA

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

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% OF FIXTURE
0-20°	2059.45	67.6
0-30°	2595.93	85.3
0-40°	2838.94	93.2
0-60°	2968.7	97.5
0-80°	2970.31	97.5
0-90°	2970.83	97.6

POLAR LUMINOUS INTENSITY GRAPH

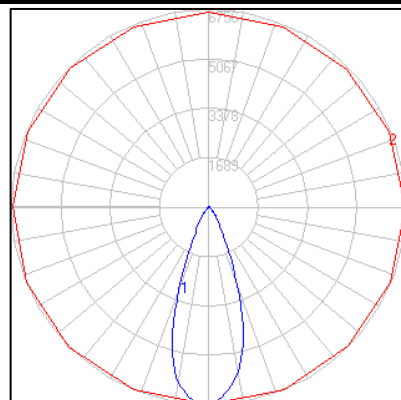


AE-DL-GR-5-UV-30W-X-XP4038X

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% OF FIXTURE
0-20°	1861.51	60.4
0-30°	2578.68	83.6
0-40°	2877.14	93.3
0-60°	3007.66	97.5
0-80°	3009.19	97.6
0-90°	3009.71	97.6

POLAR LUMINOUS INTENSITY GRAPH

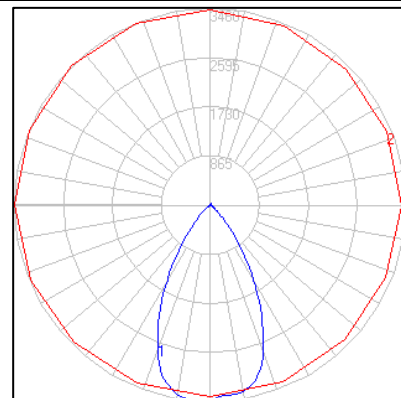


AE-DL-GR-5-UV-30W-X-XP4060X

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% OF FIXTURE
0-20°	1192.12	38.9
0-30°	2157.18	70.4
0-40°	2759.88	90
0-60°	2991.36	97.6
0-80°	2992.87	97.6
0-90°	2993.35	97.6

POLAR LUMINOUS INTENSITY GRAPH



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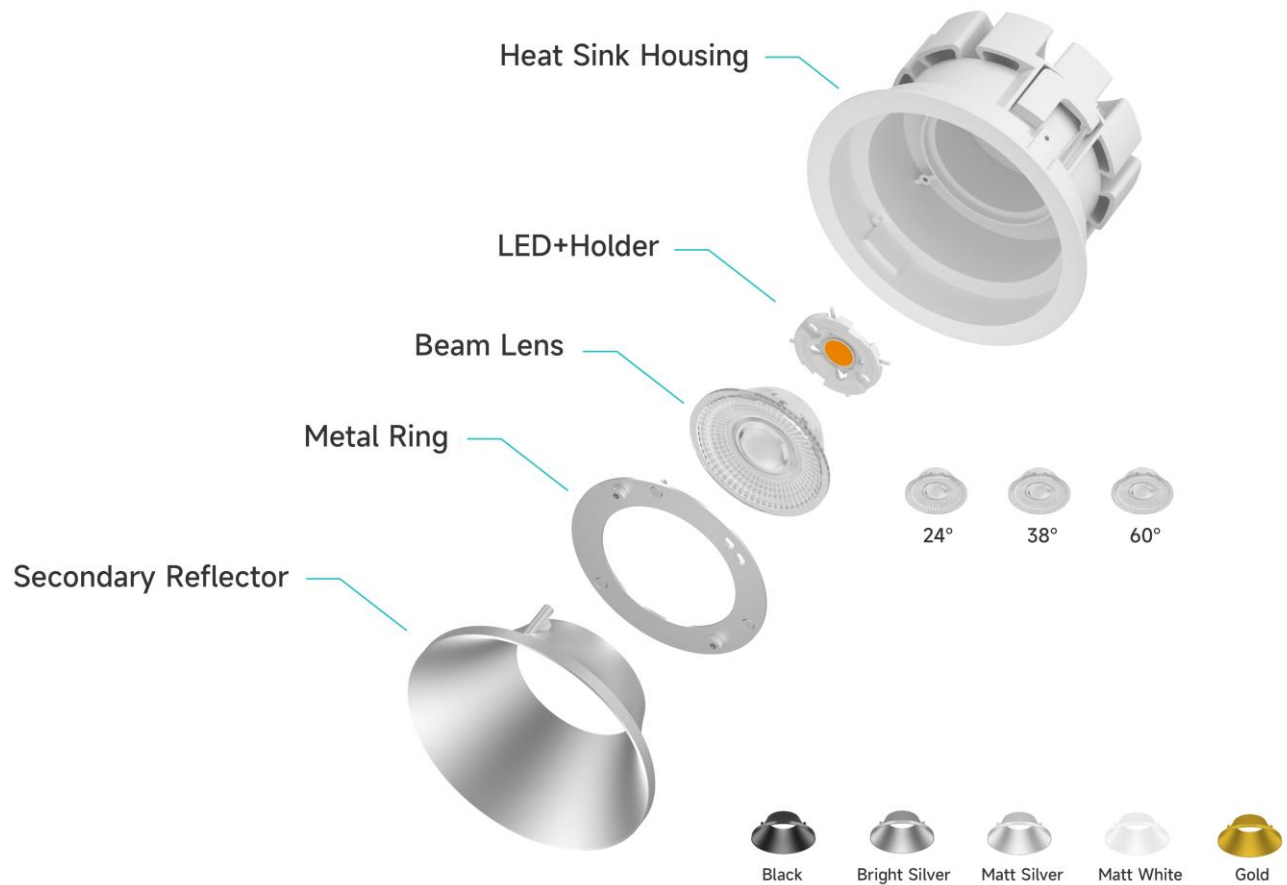
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PRODUCT ASSEMBLY GUIDE



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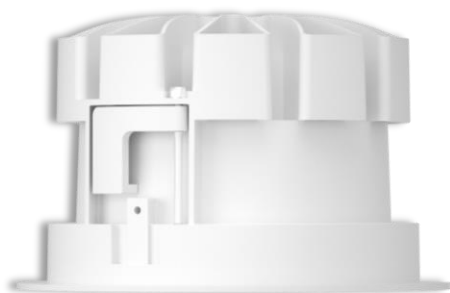
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-X

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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.