

# ELLA DOWNLIGHT SYSTEM

## Deep Anti-Glare Series - 3" Aperture

Project :	Type:
Product Code:	Date :



Round








Square

## DESCRIPTION

ELLA-Deep Anti-glare series, deep recessed mounting ring enable 48° cut-off for excellent glare control. The luminaires blend elegantly into the ceiling layout and embody the philosophy of "light instead of luminaires." Super modular design with round as well as square, honeycomb filter can be added to provide maximum visual comfort.

## FEATURES

- Elegant & compact in its style, versatile in its using.
- Precise light control, UGR<9.
- Super modular design, replacing LED module, mounting ring, beam lens and anti-glare accessories without any needs for tools.

		EM060	
WATTAGE		10W	15W
LUMEN OUTPUT		962lm	1284lm
BEAM OPTICS	Narrow Spot 	15°	
	Spot 	24°	
	Flood 	38°	
	Wide Flood 	55°	
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:		 $\frac{3}{4}'' - 2\frac{5}{8}''$ (1mm-20mm) Spring clip	
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

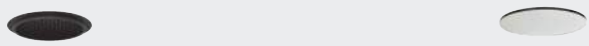
EM060	EF	6	4								
LED Module	Trim	Dimensions of Trim	Application	Trim Shape	Trim Style	Flangeless Trim	Safety Standard	Voltage	Lumen Output	Dimming Methods	Including Housing
EM060	EF	6 Nominal size: 60mm	4 Deep anti-glare	RF Round fixed  SF Square fixed	01 Standard	F Flangeless Trim	A American standard	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**

**HONEYCOMB FILTER**  
EM060-H

**SOFT LENS**  
EM060-L



### LUMEN MULTIPLIERS

CCT	MULTIPLIER	CRI	MULTIPLIER	STANDARD TRIM	MULTIPLIER
2700K	0.95	80+	1.23	EF64RF01 (Round fixed)	0.98
3000K	1.00	90+	1.00	EF64SF01 (Square fixed)	1.00
3500K	1.03				
4000K	1.06				

### 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
<b>STANDARD TRIM Example: EM060-EF64RF01 3500K 80+</b>								
894.97 lm	x	1.03	x	1.23	x	0.98	=	1109.9 lm

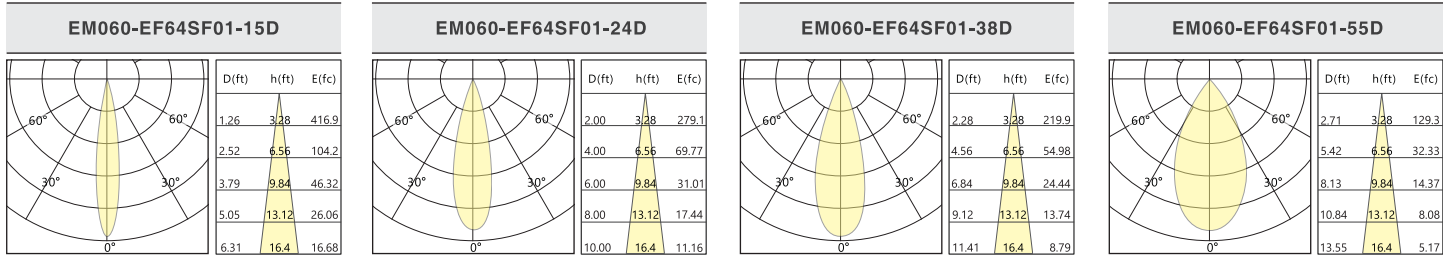
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**PHOTOMETRIC DATA (NON-DIMMING)**

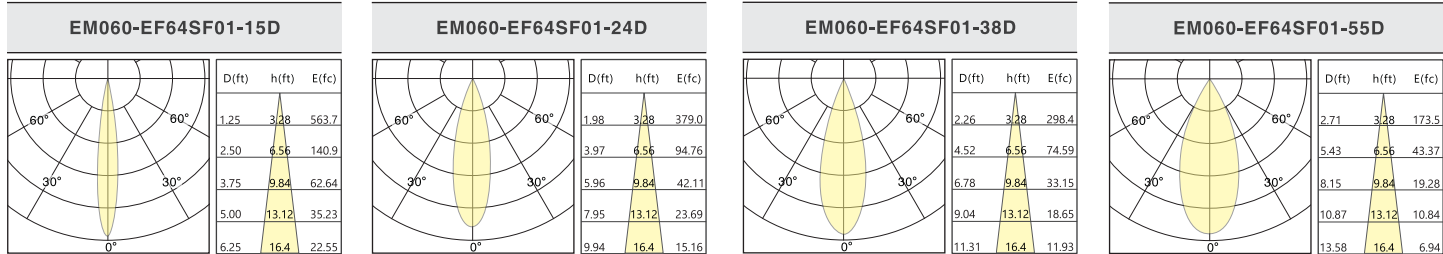
CCT (K)	CRI	LOAD (W)	BEAM OPTIC	LUMENS (lm)	EFFICACY (lm/w)	MAX CANDELA (cd)
3000K	90	10W	15°	894	89	4489
			24°	966	96	3002
			38°	962	96	2366
			55°	905	90	1395
		15W	15°	1184	86	6090
			24°	1284	93	4083
			38°	1274	93	3208
			55°	1206	87	1870

Above test data is based on **Square Fixed** trim with 3000K 90CRI LED.

**EM060-EF64SF01 10W**



**EM060-EF64SF01 15W**



Above test data is based on **Square Fixed** trim with 3000K 90CRI LED.

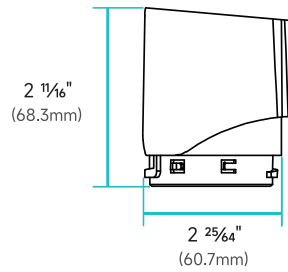
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### DIMENSION

#### LED Module



#### Trim For Deep Anti-Glare Series



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## INSTALLATION

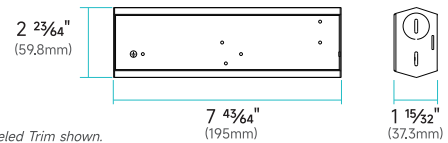


## REMODEL

### INSTALLATION

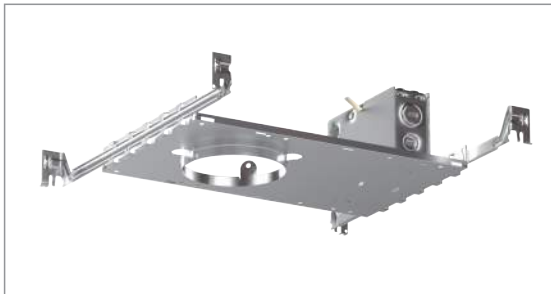
1. Direct connection with installed housing.
2. Operation temperature: -20°C - 40°C.

### DIMENSION FOR REMODEL MOUNTED DRIVER



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

Minimum height: 4 3/32" (126.2mm)  
Maximum height: 4 31/32" (126.2mm)

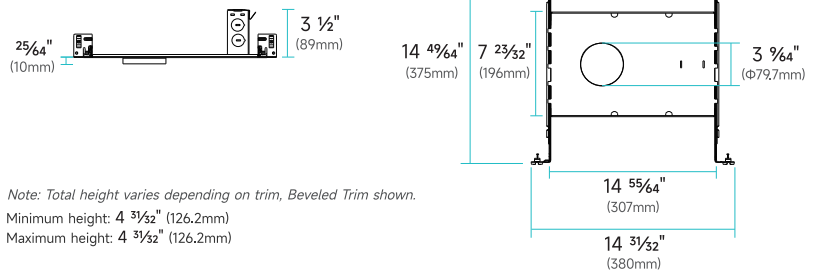


## PLATE

### 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: 4 31/32" (126.2mm)  
Maximum height: 4 31/32" (126.2mm)



## 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

