



MODULAR
LIGHTING
INSTRUMENTS
— by MLI NA Corporation

Project

Type

Contact

Smart Cake 4.5 Recessed Fixed

Overview

Smart Cake is part of the Smart family. This family's styling is based on our most popular iconic designs. Its gently sloping sides ensure a soft distribution of light. Since its introduction, Smart has become an extensive portfolio with a broad range of accessories. The new recessed lights can be combined with the optional Smart mask to form the perfect solution for any interior.

With an outer flange diameter of 4.5" and an aperture of 4.5 inches, the Smart Cake 4.5 is compact yet powerful. Made from die cast aluminum alloy and offered in a variety of finishes.



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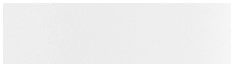


Smart Cake 4.5 Recessed Fixed

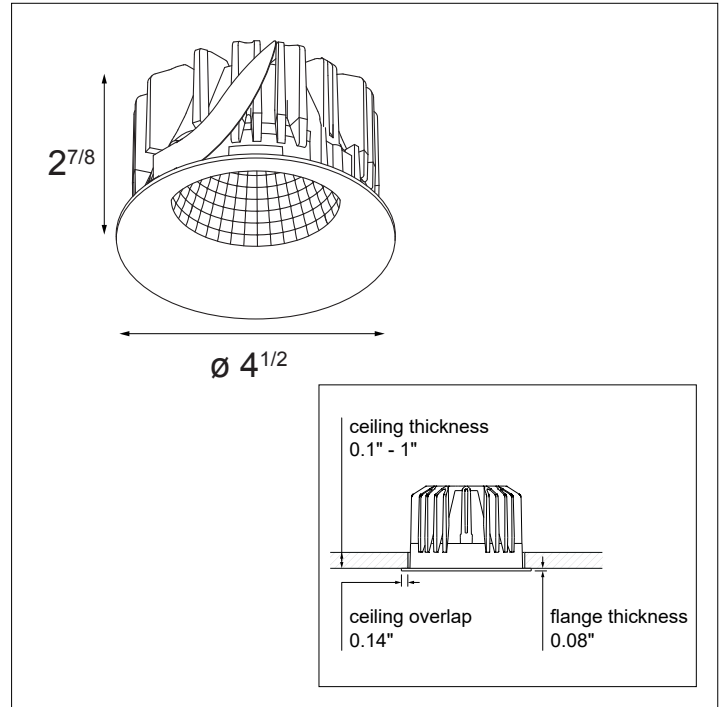
Lamp Specifications & Ordering Information

- Aperture: 4.5"
- Trim Material: Cast Aluminum
- Trim Finish: Powder Coat or Wet Paint*
- Must be combined with Housing or NON-IC Remodel Driver

* Wet Paint is only used for the gold finish

Lamp Module Finish Options

		
White Structure (WHS) Powder Coat (Matte)	Black Structure (BLS) Powder Coat (Matte)	Gold (GOMT) Wet Paint (Matte)



Ordering Information

SMART-C-R-4.5-1X -

DE -

Smart Cake Recessed
4.5 1x

[blank]	Clear Glass ⁽¹⁾
MPG	Microprismatic Glass ⁽²⁾
FRG	Frosted Glass ⁽³⁾

27	2700K
30	3000K
35	3500K

S	Spot 13° ⁽¹⁾
M	Medium 25° ⁽¹⁾⁽²⁾
F	Flood 39° ⁽¹⁾ /41° ⁽²⁾ /37° ⁽³⁾

DP	Damp Location
WT	Wet Location

DE Driver
Excluded

WHS	White Structure
BLS	Black Structure
GOMT	Gold Matt

Example Ordering Code

SMART-C-R-4.5-1X -

30M -

DP -

DE -

BLS

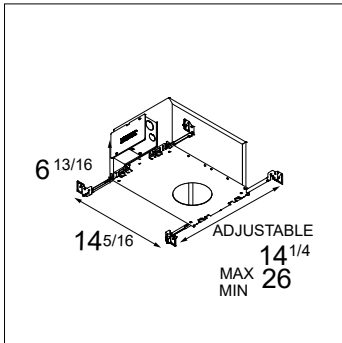
Smart Cake Recessed 4.5 1x, 3000K, medium, damp rated, driver excluded, black structure)

Smart Cake 4.5 Recessed Fixed

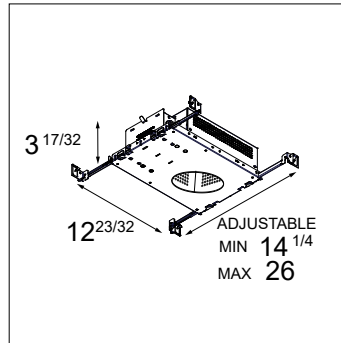
Housing & Driver Specifications

Driver Integrated Housing Options

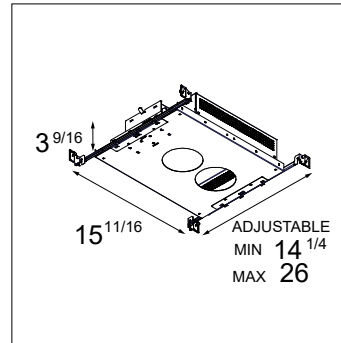
- Material: Sheet metal (galvanized steel)
- Driver: Included in Housing
- CCEA Chicago Plenum rated & Airtight per ASTM-E283-04 (when used with IC-UAT box)



IC-UAT 1X



Non-IC 1X



Non-IC 2X

Driver Specifications

DRIVER	OUTPUT CURRENT	INPUT VOLTAGE	DIMMING TYPE	TYPICAL DIMMING LEVEL**	CONNECTED LOAD (TYPICAL)	
					1X	2X***
010P-500	500mA	120-277VAC, 120VAC*	0-10V, ELV & Triac	1%	19.1 W	38.2 W
0101-EL-500	500mA	120-277VAC	0-10V	1%	19.2 W	

* Dimming via ELV and Triac only compatible at 120VAC

** Consult the factory for dimmer compatibility

*** 2X fixtures only offered in non-IC versions

Housing Ordering Information

- **SMART-4.5** -

NON-IC Non-IC/
New Construction*

IC-UAT Insulation Contact
Rated, ultra air-tight

1X Single
Luminaire

2X Double
Luminaire**

010P-500 0-10V/ELV/Triac 500mA

0101-EL-500 0-10V 500mA

* not applicable for Wet Location lamps

** only available with 010P-500 driver option

Smart Cake 4.5 Recessed Fixed

Housing & Driver Specifications - contd.

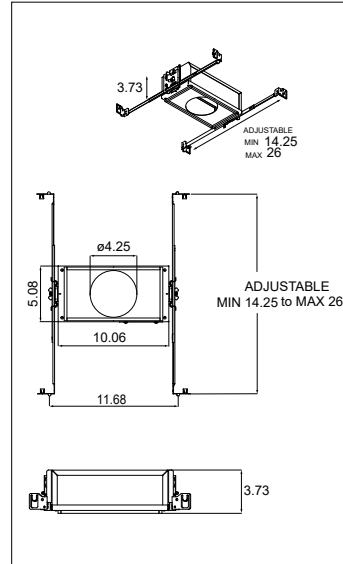
IC-UAT Housing Options for Remote Driver

- Material: Sheet metal (galvanized steel)
- Driver: Remote. Specify below
 - Material: Sheet metal (galvanized steel)
 - Remote driver box can be bottom, side or t-bar mounted
- CCEA Chicago Plenum rated & Airtight per ASTM-E283-04
- Built in electrical connection box with 2x 7/8" knockout
- Bar hangers adjustable by 1.5" to accommodate different mounting heights or ceiling thicknesses

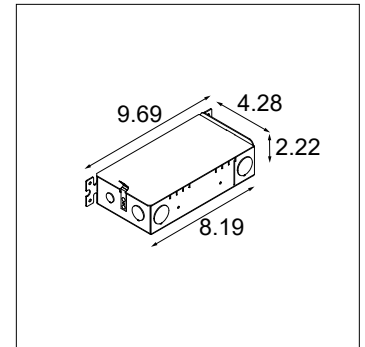
Housing Ordering Information

SELECTION ↓	ORDERING CODE	LAMP TYPE	COMPATIBLE DRIVE CURRENT*
	ICB-SMART-4.5-RD-500	Fixed CCT	350mA & 500mA

* Drive current of IC Box must match remote driver current selection



IC-BOX Smart 4.5 1X for remote driver



Remote Driver Box 'B'

Remote Driver Options for IC-UAT Housing

Remote Driver Information & Ordering

SELECTION ↓	ORDERING CODE	BOX TYPE	DIMMING TYPE	TYPICAL DIMMING LEVEL**	OUTPUT CURRENT	INPUT VOLTAGE	UL LOCATION					SMART LAMP MODULE
							RECESSED TYPE IC	RECESSED TYPE NON-IC	SURFACE	CABINET	UNDER CABINET	
	NON-IC-RD-DP-010P-350-14	B	0-10V, ELV & Triac	1%	350mA	120-277VAC, 120VAC*	-	X	X	X	X	SMART 4.5 1X ✓
	NON-IC-RD-DP-010P-500-21	B	0-10V, ELV & Triac	1%	500mA	120-277VAC, 120VAC*	-	X	X	X	X	SMART 4.5 1X ✓
	IC-RD-DP-TE1-500-20	B	ELV & Triac	1%	500mA	120VAC	X	-	X	X	X	SMART 4.5 1X ✓
	IC-RD-DP-0101-EL-350-30	B	0-10V	1%	350mA	120-277VAC	X	-	X	X	X	SMART 4.5 1X ✓
	IC-RD-DP-0101-EL-500-30	B	0-10V	1%	500mA	120-277VAC	X	-	X	X	X	SMART 4.5 1X ✓

* Dimming via ELV and Triac only compatible at 120VAC

** Consult the factory for dimmer compatibility

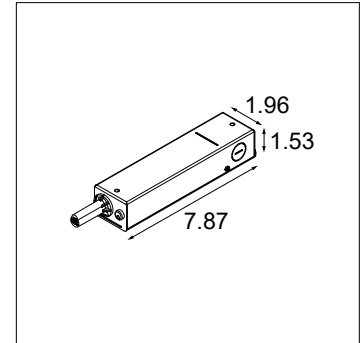
*** Matrix shows combinations of modules that are compatible with various drivers. Compatibility is designated by a box denoted with an "✓"

Smart Cake 4.5 Recessed Fixed

Housing & Driver Specifications - cntd.

NON-IC Remodel Options

- Lamp Module and driver can be installed from below through the ceiling cutout
- Driver must be placed in the ceiling next to the Lamp Module (distance between Driver and Lamp Module: min 10", max 20")
- Required height to tilt the driver through the ceiling cutout: 4" (for ceiling thickness 1/2")
- For Non Insulation Contact applications only
- Only 1 Lamp Module per driver
- Driver: Remote. Specify below
 - Material: Sheet metal (galvanized steel)
 - Includes female connector for connection to fixture
 - See installation instructions for specific mounting requirements
- Built in electrical connection box with 3x 7/8" knockout
- Must be used with MC-RD connector (ordered separately)



Non-IC Remote LED Driver

Remote Driver Information & Ordering

SELECTION ↓	ORDERING CODE	DIMMING TYPE	TYPICAL DIMMING LEVEL**	OUTPUT CURRENT	INPUT VOLTAGE	CONNECTED LOAD	SMART LAMP MODULE
							SMART 4.5 1X
	NON-IC-RD-120-DP-010P-350-14	ELV/TRIAC/0-10V	1%	350mA	120VAC	14.8W	✓
	NON-IC-RD-120-DP-010P-500-21	ELV/TRIAC/0-10V	1%	500mA	120VAC	20.7W	✓
	NON-IC-RD-120-DP-010P-700-29	ELV/TRIAC/0-10V	1%	700mA	120VAC	28.8W	✓
	NON-IC-RD-277-DP-0101-350-14	0-10V	1%	350mA	277VAC	14.8W	✓
	NON-IC-RD-277-DP-0101-500-21	0-10V	1%	500mA	277VAC	20.7W	✓
	NON-IC-RD-277-DP-0101-700-29	0-10V	1%	700mA	277VAC	28.8W	✓

ACCESSORIES

Male Connector for non-IC Remote Driver

- Required
- To be connected to the Lamp Module by a contractor

Bar Hanger for non-IC Remote Driver

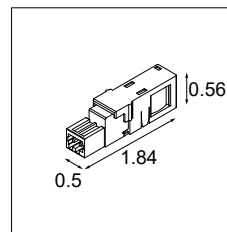
- Optional
- Attaches to the remote driver housing
- Used to span joists or attach to t-bar
- Access above ceiling is required, when the bar hanger is used

New Construction Frame

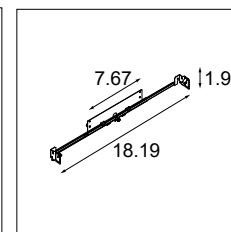
- Optional
- With cutout hole for the Lamp Module
- Used to span joists or attach to t-bar

Recessed Ring

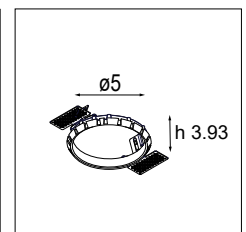
- Optional, for trim installation flush with ceiling
- Can only be used in combination with the NON-IC Remote Driver
- Can not be used in combination with the New Construction Frame



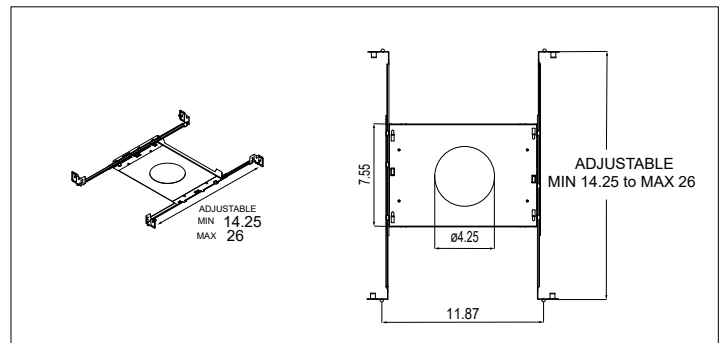
Male Connector for Non-IC Remote LED Driver



Bar Hanger for Non-IC Remote LED Driver



Recessed Ring



New Construction Frame 4.3

Ordering Information

SELECTION ↓	ORDERING CODE	ITEM
	MC-RD	Male Connector for Non-IC Remote LED Driver
	BH-RD	Bar Hanger for Non-IC Remote LED Driver
	NCF-4.3	New Construction Frame 4.3
	RING-R-4.5	Recessed Ring Ø4.5

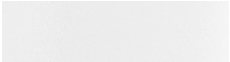
Smart Cake 4.5 Recessed Fixed

Accessories Specifications


- Accessories are optional
- Mask Material: Cast Aluminum
- Mask Finish: Powder Coat or Wet Paint*
- Mask Thickness: 0.2"

* Wet Paint is only used for the gold finish


Mask Finish Options



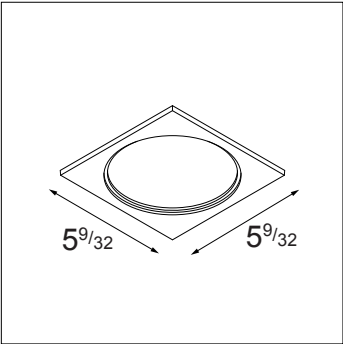
White Structure (WHS)
Powder Coat (Matte)



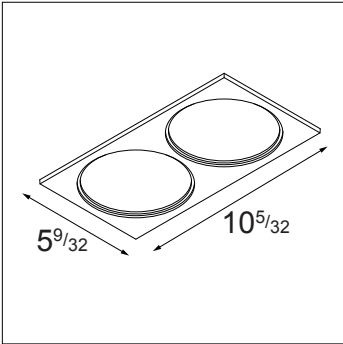
Black Structure (BLS)
Powder Coat (Matte)



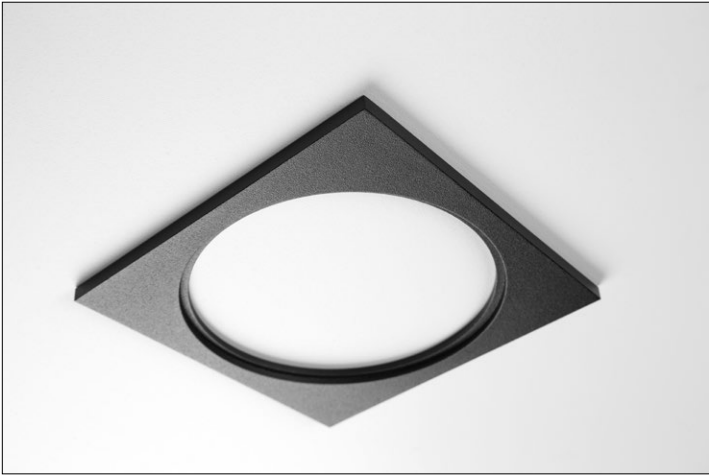
Gold (GOMT)
Wet Paint (Matte)



Single Mask



Double Mask



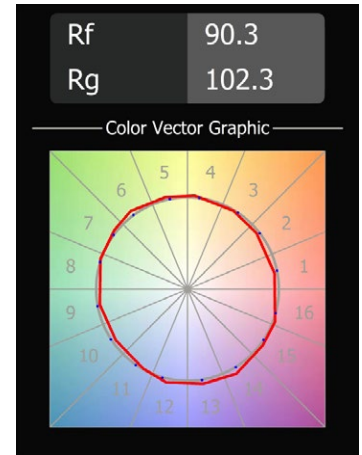
Accessories Ordering Information

SMART-M-4.5		-	-
1X	Single Luminaire	WHS	White Structure
2X	Double Luminaire	BLS	Black Structure
		GOMT	Gold

Smart Cake 4.5 Recessed Fixed

Performance Specifications (per lamp)

Weight	1.3lbs
Cut-Out Size	Ø4.25"
Location	Damp & Wet
CRI*	92, R9: 71
Lifetime	L80 B20 @ 50.000 hrs
UGR	see website
Electrical (typical)	
	350mA 500mA 700mA
Vf	30.6V 31.3V 32.1V
Power	10.7W 15.7W 22.5W



*CRI & TM-30 Value for 3000K

For photometric files see website or contact factory

Output Specifications

Reference: 3000K, 40deg (FL), 500mA, White
Values below are typical
() indicates multipliers

Reference Delivered Lumens	CCT	Optics	Current	Finish
1590	2700K (0.95) 3000K (1.0) 3500K (1.07)	S (1.05) M (1.02) F (1.0) MPG M (1.03) MPG F (1.0) FRG F (0.92)	350mA (0.73) 500mA (1.0) 700mA (1.31)	WHS (1.0) GOMT (0.93) BLS (0.89)

Example Calculation

To determine typical output for 2700K, Medium optic, 700mA in Gold:
 $1590 \times 0.95 \times 1.02 \times 1.31 \times 0.93 = 1877 \text{ lumen}$

Listings and Certifications

- cUL & UL listed
- CCEA Chicago Plenum rated & Airtight per ASTM-E283-04 (when used with IC-UAT box)

Warranty

Visit <https://www.supermodular.com/warranty>