



MODULAR
LIGHTING
INSTRUMENTS
— by MLI NA Corporation

Project

Type

Contact

Smart Cake 4.5 Adj Recessed

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 3.3 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 Adj Recessed

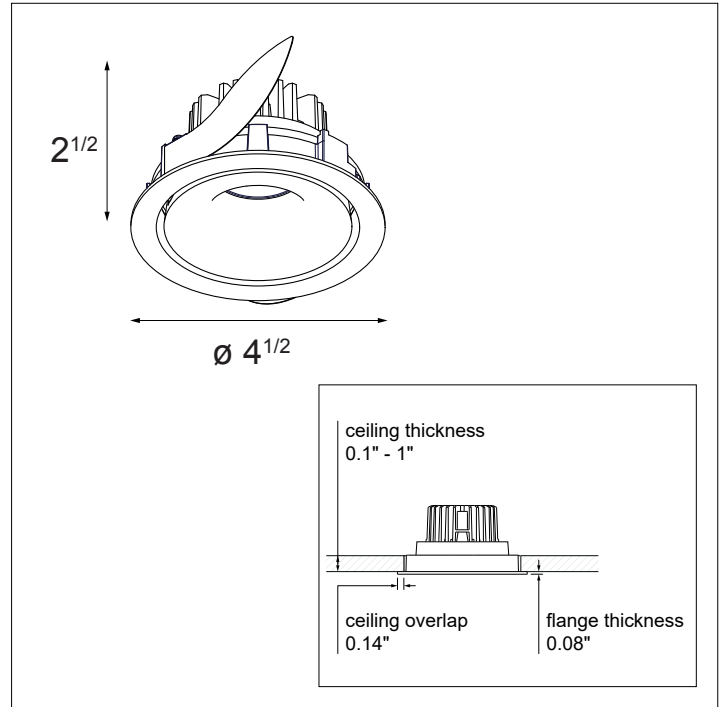
Lamp Specifications & Ordering Information

- Aperture: 3.3"
- Adjustability: 0-25°
- 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-A-4.5-1X					DP	DE				
Smart Cake Recessed Adjustable 4.5 1x	27	2700K	S	Spot 13°	DP	Damp Location	DE	Driver Excluded	WHS	White Structure
	30	3000K	M	Medium 25°					BLS	Black Structure
	35	3500K	F	Flood 39°					GOMT	Gold Matt
	WD	Warm Dim 3000K - 1800K	<u>Warm Dim</u>							
			M	Medium 24°						
		F	Flood 40°							
Example Ordering Code										
SMART-C-R-A-4.5-1X			30M		DP		DE		BLS	

Example Ordering Code

SMART-C-R-A-4.5-1X	-	30M	-	DP	-	DE	-	BLS
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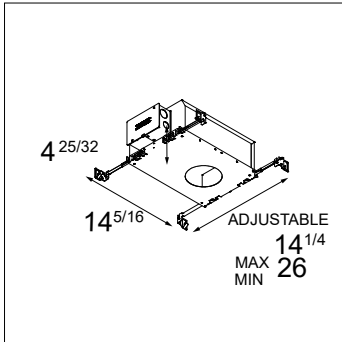
Smart Cake Recessed Adjustable 4.5 1x, 3000K, medium, damp rated, driver excluded, black structure)

Smart Cake 4.5 Adj Recessed

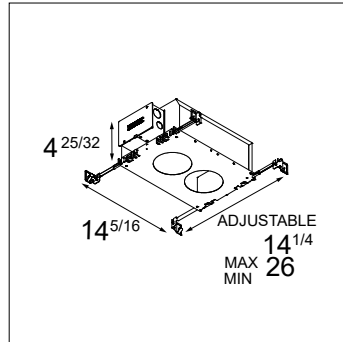
Housing & Driver Specifications

Driver Integrated Housing Options

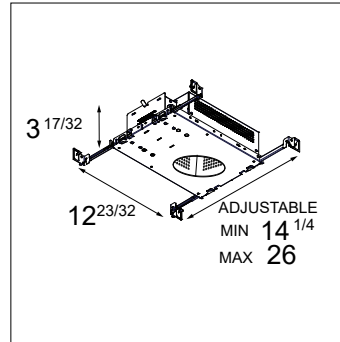
- Material: Sheet metal (galvanized steel)
- Driver: Included in Housing
- CCEA Chicago Plenum rated & Airtight per ASTM-E283-04 (when used with IC-UAT box)



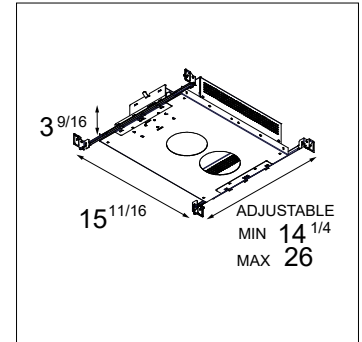
IC-UAT 1X



IC-UAT 2X



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%	10.5 W	21.5 W
0101-EL-500	500mA	120-277VAC	0-10V	1%	11.6 W	

* Dimming via ELV and Triac only compatible at 120VAC

** Consult the factory for dimmer compatibility

Housing Ordering Information

- SMART-4.5-ADJ -		- 010P-500	
NON-IC Non-IC/ New Construction		1X Single Luminaire	010P-500 0-10V/ELV/Triac 500mA
IC-UAT Insulation Contact Rated, ultra air-tight		2X Double Luminaire	
<i>! not applicable for Warm Dim</i>			
- SMART-4.5 -		- 1X -	- 0101-EL-500
NON-IC Non-IC/ New Construction		1X Single Luminaire	0101-EL-500 0-10V 500mA
IC-UAT Insulation Contact Rated, ultra air-tight			
<i>! not applicable for Warm Dim</i>			

Smart Cake 4.5 Adj Recessed

Housing & Driver Specifications - cntd.

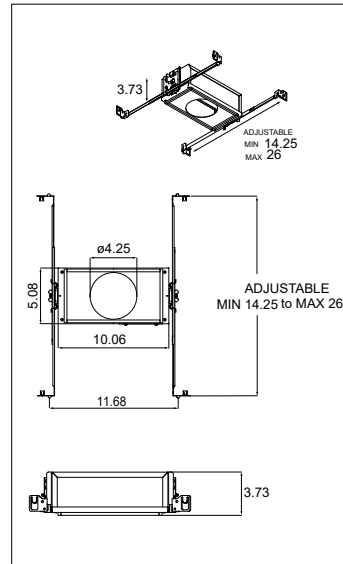
Remote Driver Options for IC-UAT Housing

- 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

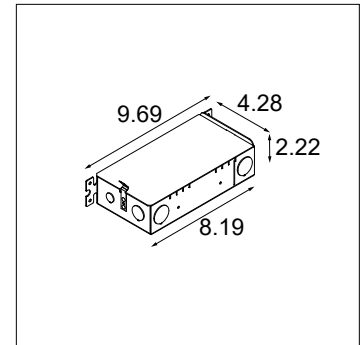
Housing Ordering Information

SELECTION ↓	ORDERING CODE	LAMP TYPE	COMPATIBLE DRIVE CURRENT*
	ICB-SMART-4.5-RD-350	Warm Dim	350mA
	ICB-SMART-4.5-RD-700	Fixed CCT	350mA, 500mA & 700mA

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



IC-BOX Smart 4.5 1X for remote driver



Remote Driver Box 'B'

IC-UAT Housing Options for Remote Driver

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	CABINET	SMART 4.5 ADJ WD	SMART 4.5 ADJ		
													1X	2X	3X
	NON-IC-RD-DP-010P-350-8	B	0-10V, ELV & Triac	1%	350mA	120-277VAC, 120VAC*	-	X	X	X	X	-	✓	-	-
	NON-IC-RD-DP-010P-350-11	B	0-10V, ELV & Triac	1%	350mA	120-277VAC, 120VAC*	-	X	X	X	X	-	-	✓	-
	NON-IC-RD-DP-010P-350-14	B	0-10V, ELV & Triac	1%	350mA	120-277VAC, 120VAC*	-	X	X	X	X	✓	-	✓	-
	NON-IC-RD-DP-010P-500-16	B	0-10V, ELV & Triac	1%	500mA	120-277VAC, 120VAC*	-	X	X	X	X	-	-	✓	-
	NON-IC-RD-DP-010P-500-21	B	0-10V, ELV & Triac	1%	500mA	120-277VAC, 120VAC*	-	X	X	X	X	-	-	✓	-
	IC-RD-DP-TE1-500-12	B	ELV & Triac	1%	500mA	120VAC	X	-	X	X	X	-	✓	-	-
	IC-RD-DP-TE1-500-20	B	ELV & Triac	1%	500mA	120VAC	X	-	X	X	X	-	-	✓	-
	IC-RD-DP-0101-EL-350-30	B	0-10V	1%	350mA	120-277VAC	X	-	X	X	X	✓	✓	✓	✓
	IC-RD-DP-0101-EL-500-30	B	0-10V	1%	500mA	120-277VAC	X	-	X	X	X	-	✓	✓	✓
	IC-RD-DP-0101-EL-700-30	B	0-10V	1%	700mA	120-277VAC	X	-	X	X	X	-	✓	✓	-

* Dimming via ELV and Triac only compatible at 120VAC

** Consult the factory for dimmer compatibility

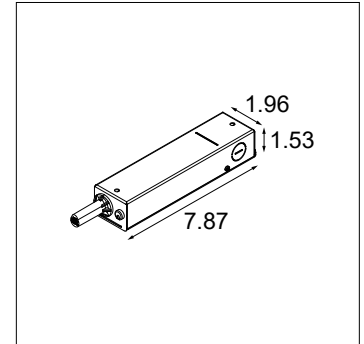
*** Matrix shows combinations of modules that are compatible with various drivers. Compatibility is designated by a box denoted with an "✓"

Smart Cake 4.5 Adj Recessed

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 ADJ WD	SMART 4.5 ADJ	SMART 4.5 ADJ WD 1X	SMART 4.5 ADJ 1X
	NON-IC-RD-120-DP-010P-350-8	ELV/TRIAC/0-10V	1%	350mA	120VAC	-	8.7W	-	✓
	NON-IC-RD-120-DP-010P-350-14	ELV/TRIAC/0-10V	1%	350mA	120VAC	16.0W	-	✓	-
	NON-IC-RD-120-DP-010P-500-9	ELV/TRIAC/0-10V	1%	500mA	120VAC	-	10.9W	-	✓
	NON-IC-RD-120-DP-010P-700-16	ELV/TRIAC/0-10V	1%	700mA	120VAC	-	15.1W	-	✓
	NON-IC-RD-277-DP-0101-350-8	0-10V	1%	350mA	277VAC	-	8.7W	-	✓
	NON-IC-RD-277-DP-0101-350-14	0-10V	1%	350mA	277VAC	16.0W	-	✓	-
	NON-IC-RD-277-DP-0101-500-9	0-10V	1%	500mA	277VAC	-	10.9W	-	✓
	NON-IC-RD-277-DP-0101-700-16	0-10V	1%	700mA	277VAC	-	15.1W	-	✓

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

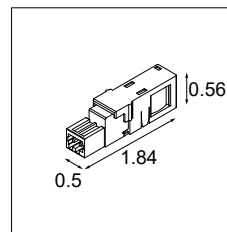
- Optional
- Attaches to the remote driver housing
- Used to span joists or attach to t-bar
- Access above ceiling is required, when the bar hanger is used

New Construction Frame

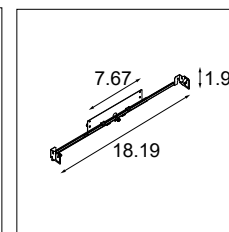
- Optional
- With cutout hole for the Lamp Module
- Used to span joists or attach to t-bar

Recessed Ring

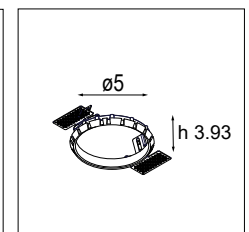
- Optional, for trim installation flush with ceiling
- Can only be used in combination with the NON-IC Remote Driver
- Can not be used in combination with the New Construction Frame



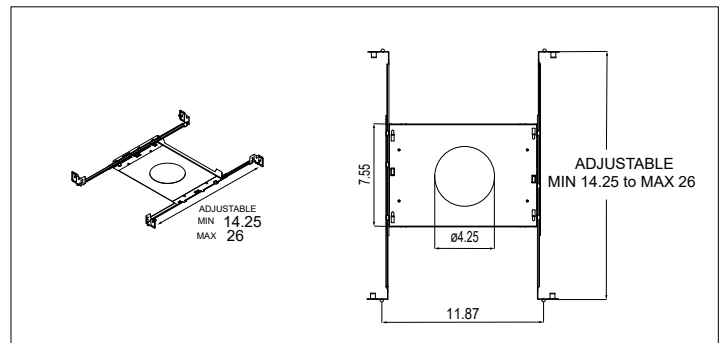
Male Connector for Non-IC Remote LED Driver



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 Adj Recessed

Accessories Specifications

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

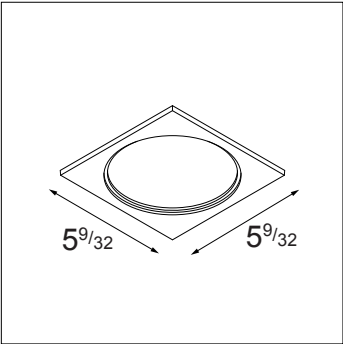
* Wet Paint is only used for the gold finish

Mask Finish Options

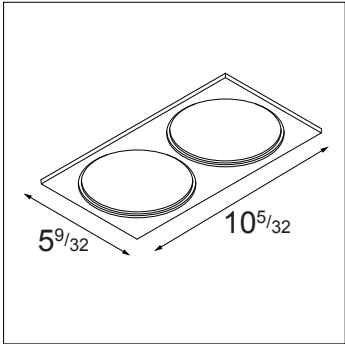
White Structure (WHS)
Powder Coat (Matte)

Black Structure (BLS)
Powder Coat (Matte)

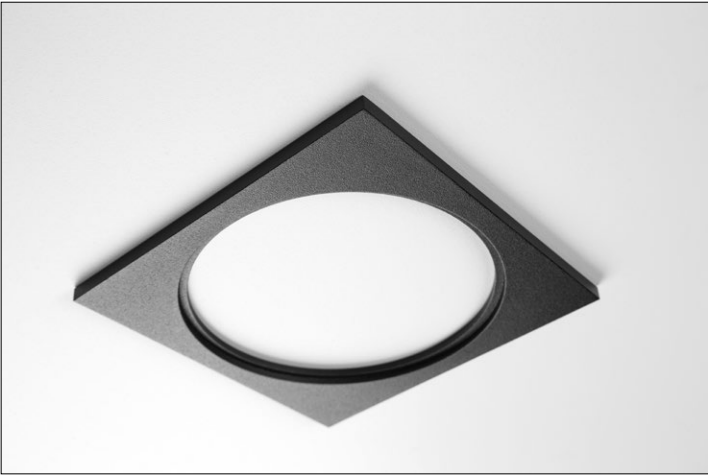
Gold (GOMT)
Wet Paint (Matte)



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 Adj Recessed

Performance Specifications (per lamp)

	Fixed CCT	Warm Dim		
Weight	1.0lbs			
Cut-Out Size	Ø4.25"			
Adjustability	0-25°			
Location	Damp			
CRI*	92, R9: 71	95, R9: 86		
Lifetime	L80 B20 @ 50.000 hrs			
UGR	see website			
Electrical (typical)				
	Fixed CCT		Warm Dim	
	350mA	500mA	700mA	350mA
Vf	14.2V	14.4V	15.1V	33.8V
Power	5W	7.2W	10.6W	11.8W

For photometric files see website or contact factory

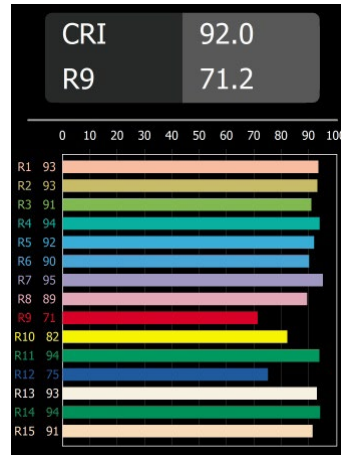
Output Specifications

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

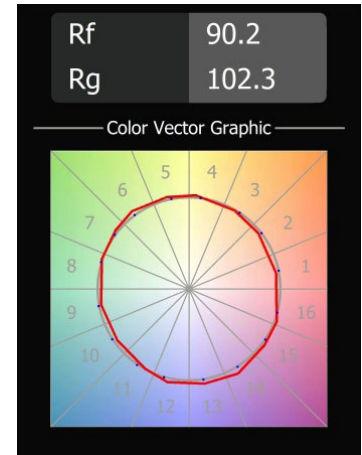
Reference Delivered Lumens	CCT	Optics	Current	Finish
618	2700K (0.96) 3000K (1.0) 3500K (1.04)	S (1.13) M (1.06) F (1.0)	350mA (0.75) 500mA (1.0) 700mA (1.28)	WHS (1.0) GOMT (0.91) BLS (0.75)
739	3000K – 1800K (1.0)	M (1.04) F (1.0)	350mA (1.0)	WHS (1.0) GOMT (0.91) BLS (0.76)

Example Calculation

To determine typical output for 2700K, Medium optic, 700mA in Gold:
 $618 \times 0.96 \times 1.06 \times 1.28 \times 0.91 = 732 \text{ lumen}$



*CRI & TM-30 Value for 3000K



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>