MODULAR
LIGHTING
INSTRUMENTS
— *by MLI NA Corporation*
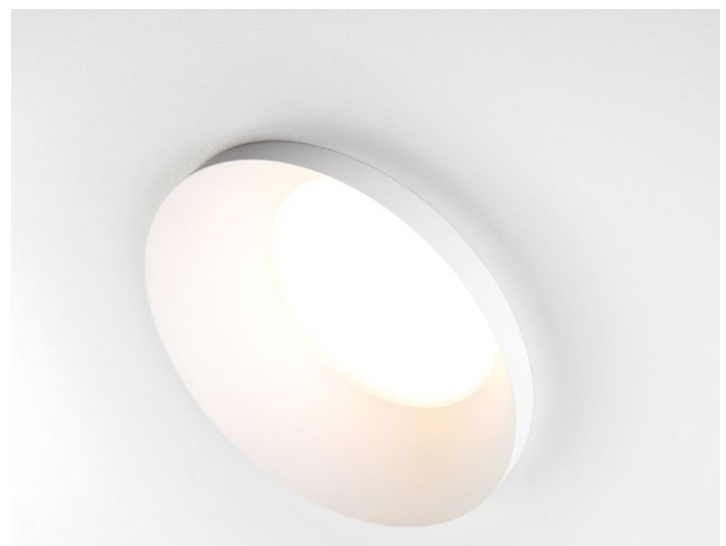
Project	
Type	
Contact	

Smart Kup 4.5 Recessed Fixed

Overview

Smart Kup is one of the 3 forms of the Smart family. The cone of the Smart Kup ends in a fine trim. A trim particular Modular. The same subtle trim is used in several other Modular luminaires. The Smart family's styling is based on our most popular designs.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 Kup 4.5 is compact yet powerful. Made from die cast aluminum alloy and offered in a variety of finishes.

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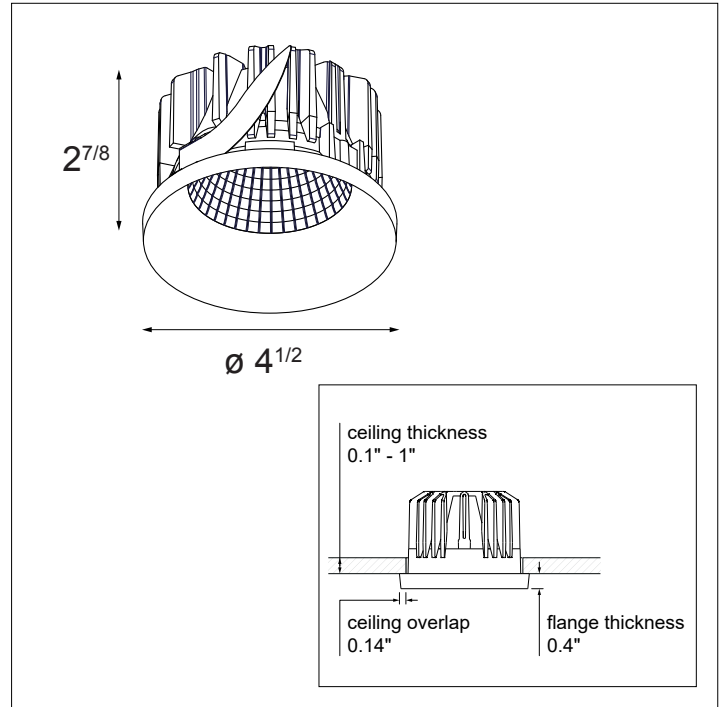## Lamp Specifications & Ordering Information

- 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)

$2^{7/8}$

Ø $4^{1/2}$

ceiling thickness
0.1" - 1"

ceiling overlap
0.14"

flange thickness
0.4"

Ordering Information

| SMART-K-R-4.5-1X | - | | - | | - | | - | DE | - | |

Smart Kup Recessed 4.5 1x	[blank]	Clear Glass[1]	27	2700K	S	Spot 13°[1]	DP	Damp Location	DE	Driver Excluded	WHS	White Structure
	MPG	Microprismatic Glass[2]	30	3000K	M	Medium 25°[1][2]	WT	Wet Location			BLS	Black Structure
	FRG	Frosted Glass[3]	35	3500K	F	Flood 39°[1]/41°[2]/37°[3]					GOMT	Gold Matt

Example Ordering Code

| SMART-K-R-4.5-1X | - | | - | 30M | - | DP | - | DE | - | BLS |

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

Housing & Driver Specifications

- Material: Sheet metal (galvanized steel)
- Driver: Included in Housing
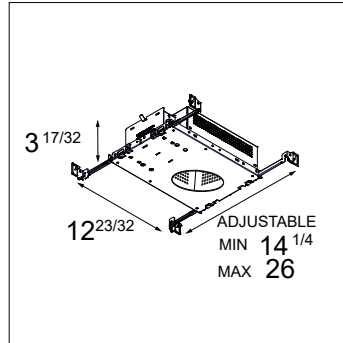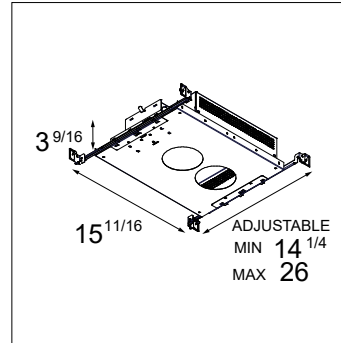- CCEA Chicago Plenum rated & Airtight per ASTM-E283-04 (when used with IC-UAT box)
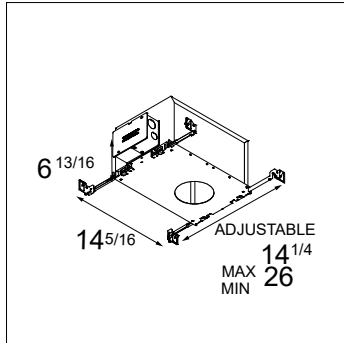
IC-UAT 1X

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* | | **1X** | Single Luminaire | **010P-500** | 0-10V/ELV/Triac 500mA |
| **IC-UAT** | Insulation Contact Rated, ultra air-tight | | **2X** | Double Luminaire** | **0101-EL-500** | 0-10V 500mA |

* not applicable for Wet Location lamps
** only available with 010P-500 driver option

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## *Housing & Driver Specifications - cntd.*

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 accomodate 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
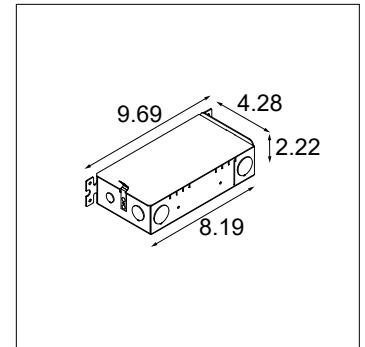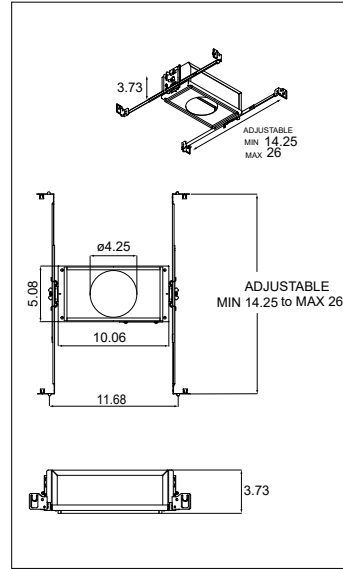
Remote Driver Box '**B**'

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	SMART 4.5 1X
	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-500-21	B	0-10V, ELV & Triac	1%	500mA	120-277VAC, 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	✔

* 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 "✔"

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)
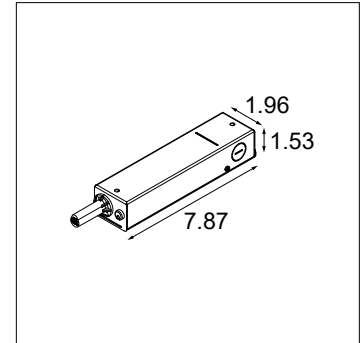
Non-IC Remote LED Driver

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
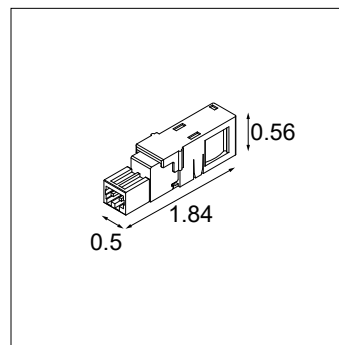
Bar Hanger for non-IC Remote Driver
- Optional
- Attaches to the remote driver housing
- Used to span joists or attach to t-bar
- Access above ceiling is required, when the bar hanger is used
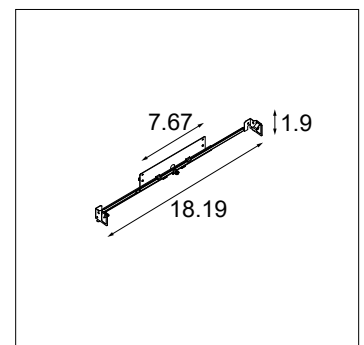
New Construction Frame
- Optional
- With cutout hole for the Lamp Module
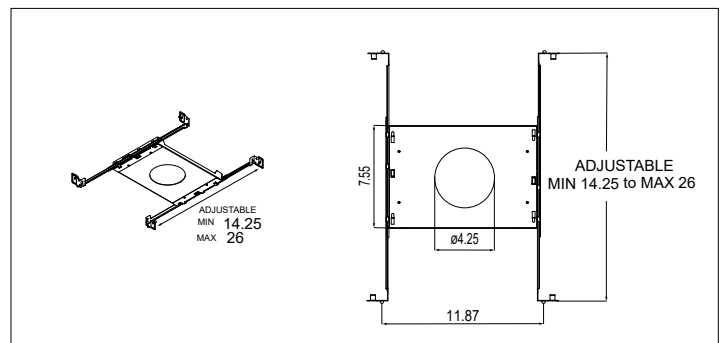- Used to span joists or attach to t-bar

Male Connector for
Non-IC Remote LED Driver

Bar Hanger for
Non-IC Remote LED Driver

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

New Construction Frame 4.3
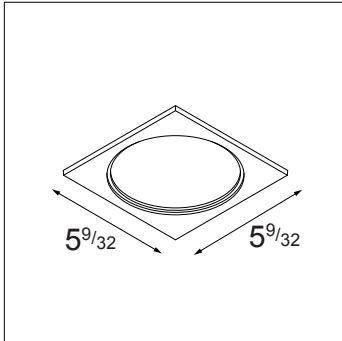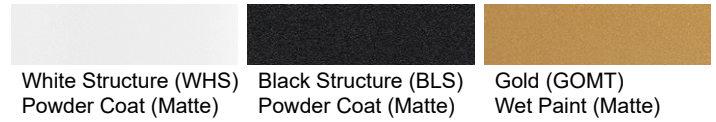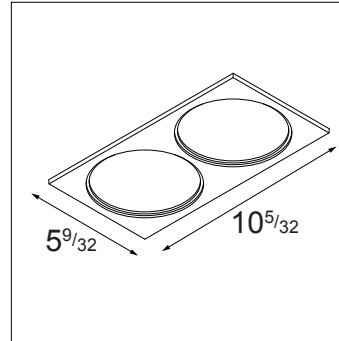
Accessories Specifications

- 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
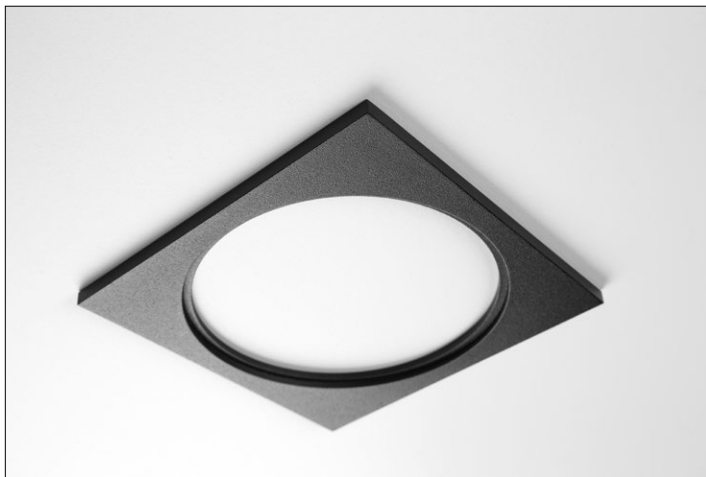
Accessories Ordering Information

SMART-M-4.5 - _____ - _____

1X	Single Luminaire	**WHS**	White Structure
2X	Double Luminaire	**BLS**	Black Structure
		GOMT	Gold

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Performance Specifications (per lamp)

Weight	1.3lbs
Cut-Out Size	Ø4.25"
Location	Damp
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
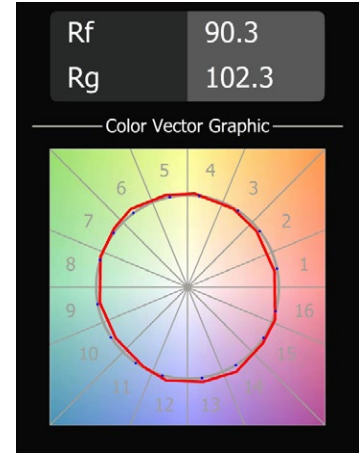
For photometric files see website or contact factory

CRI	92.2
R9	71.3

R1	93
R2	93
R3	91
R4	94
R5	92
R6	90
R7	95
R8	89
R9	71
R10	82
R11	94
R12	76
R13	93
R14	94
R15	91

Rf	90.3
Rg	102.3

— Color Vector Graphic —

*CRI & TM-30 Value for 3000K

Output Specifications

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

Reference Delivered Lumens	CCT	Optics	Current	Finish
1727	2700K (0.95) 3000K (1.0) 3500K (1.07)	S (1.04) M (1.01) F (1.0) MPG M (1.01) MPG F (0.99) FRG F (0.92)	350mA (0.73) 500mA (1.0) 700mA (1.31)	WHS (1.0) GOMT (0.98) BLS (0.96)

Example Calculation
To determine typical output for 2700K, Medium optic, 700mA in Gold:
1727 x 0.95 x 1.01 x 1.31 x 0.98 = 2127lumen

Listings and Certifications

- Damp & Wet location listed
- 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