trimless spot mini | short

We aim to create cleaner ceilings.
Show what you want, hide what you need.



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We reserve the right, without notice, to change technical details if these, in our opinion do not change appearance or function of the product.

luminaire specs 3

configure yours 4

finishes 5

luminaire output 6

accessories 8

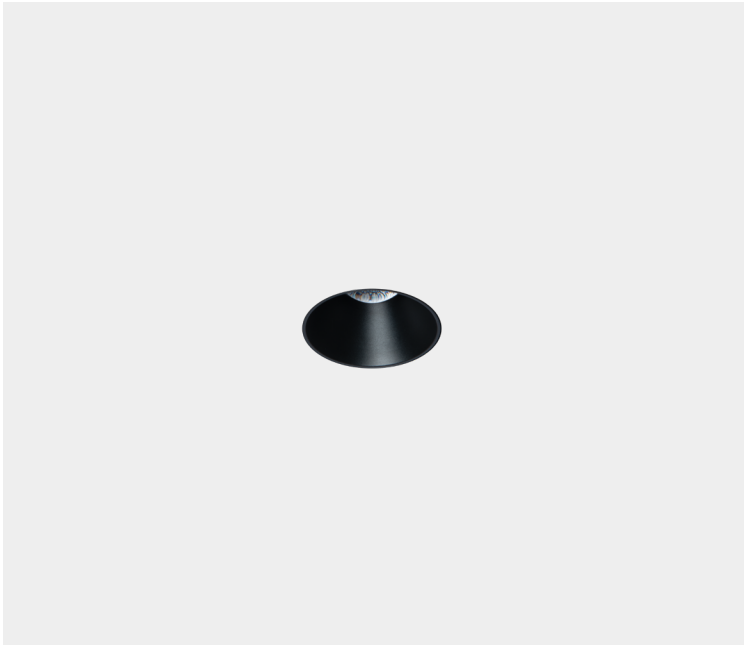
installation rings 9

housing 10

drivers 13

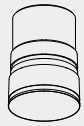
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Low-voltage Luminaire

COMPLIANT JA8 TITLE 24 CALIFORNIA



2-7/16″
62 mm

1-1/2″
38 mm

trimless spot mini | short

installation

luminaire specs

delivered lumen	up to 725lm			
watts	up to 8.9W			
efficacy	101lm/W			
CRI	90+	97		
R9 value	CRI 90+: >50	CRI 97: >91		
CBCP	10° pc: 6731cd	20° pc: 4655cd		
	40° pc: 1373cd	60° pc: 627cd		
	40° glass: 2036cd			
color temperature (CCT)	2400K*	2700K	3000K	3500K*
	4000K*	dim to warm: 3000K > 1800K**		
	* only available in CRI 97			
	** only available in CRI 90+			
color consistency	2-step SDCM			
driver input voltage	120V			
dimming	DALI/0-10V/phase dimming			
power supply	constant current driver with +.9 power			
	factor and +80% efficiency			
optics	10° / 20° / 40° / 60°			
suitable for	damp locations (IP44) (10°, 20°, 40°, 60° pc)			
	wet locations (IP65) (40° glass)			

ceiling appearance	trimless	
panel thickness	no panel thickness limitations	
L80	>55000 h	
installation rings (not incl.)	mud ring Ø1-1/2″ (Ø38 mm) ↗	
	adj. mud ring Ø1-1/2″ (Ø38 mm) ↗	
housing (not incl.)	IC box airtight	IC box non-airtight
	non-IC frame	remodeling box
material	aluminum	brass
aluminum finishes	black ano	white struc
	brushed steel	brushed grey
	brushed bronze	
aluminum weight	0.26 lb (0.12 kg)	
brass finishes	brushed nickel	light bronze
	dark bronze	canon de fusil dark
	canon de fusil light	
brass weight	0.32 lb (0.15 kg)	
certifications	UL Listed	California Title 24
warranty	1 year (5 years on LED) ↗	

Respect distances, cable sections and IP ratings.
Split AC and DC to prevent LED glowing.

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configure yours

21021	·	_ _	·	_ _ _	·	_ _ _	·	_ _ _

product	variant	CRI	CCT *	beam	dimming **	finish
21021. trimless spot mini	02. short	1 90+	01. 2700K	03 20° pc	0. driver excluded	001 black ano
			02. 3000K	06 40° pc		002 white struc
				07 40° glass		003 brushed steel
				09 60° pc		004 brushed grey
						005 brushed bronze
			90. D2W	07 40° glass	0. driver excluded	001 black ano
						002 white struc
						003 brushed steel
						004 brushed grey
						005 brushed bronze
						701 brushed nickel
						702 light bronze
						703 dark bronze
						704 canon de fusil dark
						705 canon de fusil light
		2 97	05. 2400K	01 10° pc	0. driver excluded	001 black ano
			01. 2700K	03 20° pc		002 white struc
			02. 3000K	06 40° pc		003 brushed steel
			03. 3500K	07 40° glass		004 brushed grey
			04. 4000K	09 60° pc		005 brushed bronze
						701 brushed nickel
						702 light bronze
						703 dark bronze
						704 canon de fusil dark
						705 canon de fusil light

* other CCT available on request

** phase dimming, 0-10V & dali possible, consult driver matrix, driver sold separately

driver matrix

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finishes

aluminum

white struc (RAL 9003)



brushed steel



brushed bronze



brushed grey



black ano



custom brass

brushed nickel



light bronze



dark bronze



canon de fusil light



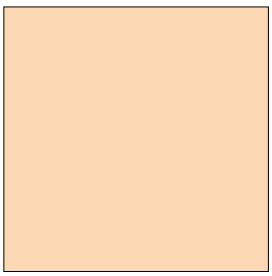
canon de fusil dark



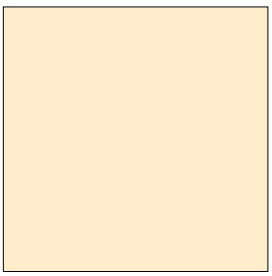
Custom RAL and brass finishes available on request.

correlated color temperature (CCT)

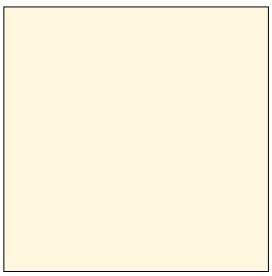
2400K: candle white



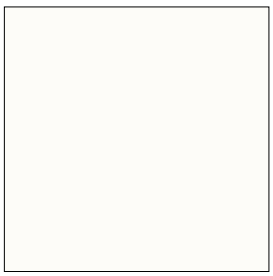
2700K: extra warm white



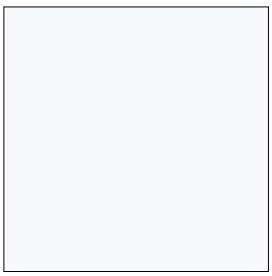
3000K: warm white



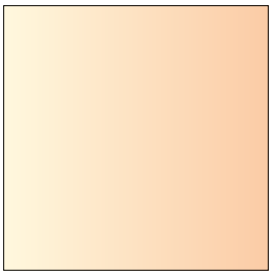
3500K: neutral white



4000K: cool white



dim to warm: 3000K > 1800K



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max. mA

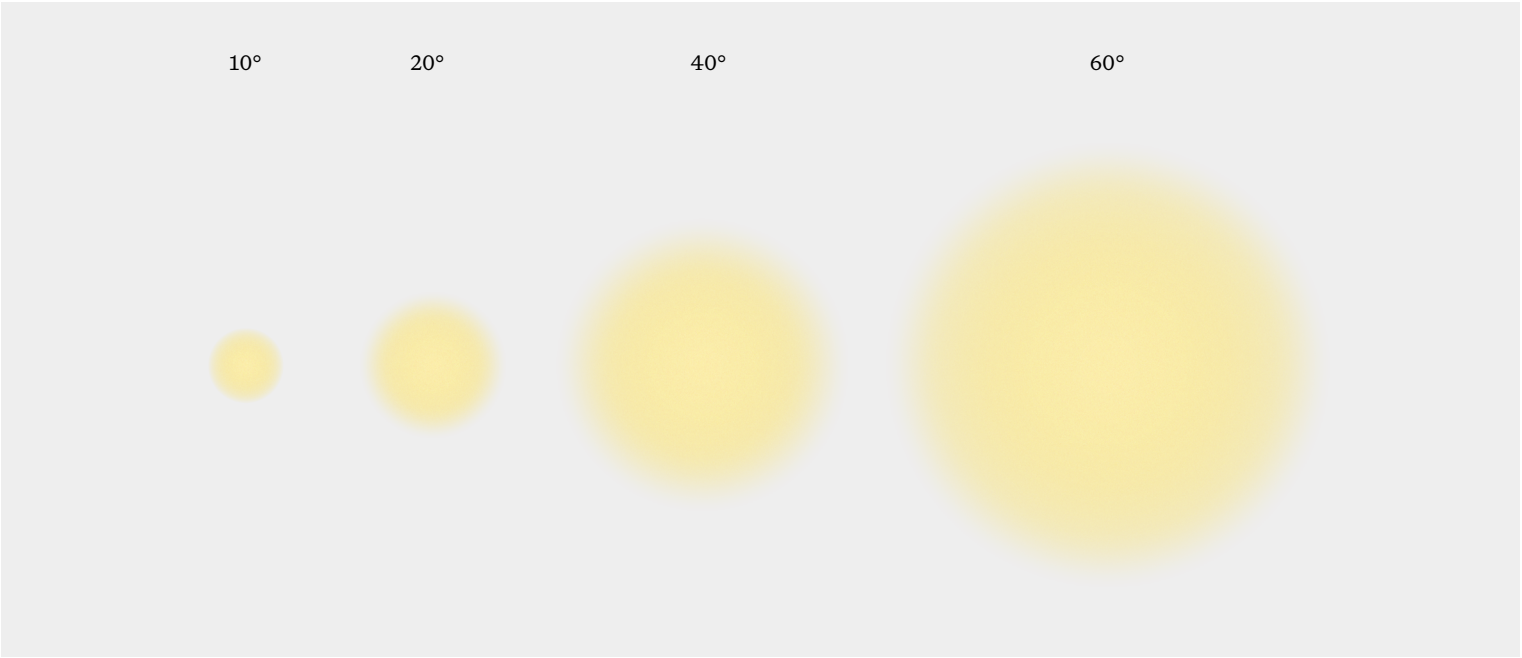
	10° pc	20° pc	40° pc	60° pc	40° glass	dim to warm (40° glass)
aluminum	350mA max	350mA max	350mA max	350mA max	500mA max	350mA max
brass	350mA max	350mA max	350mA max	350mA max	500mA max	350mA max

luminaire output

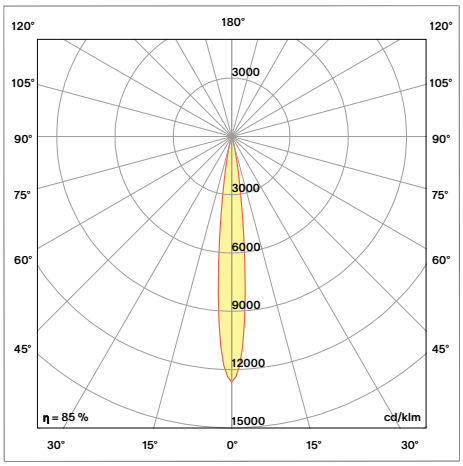
		350mA			500mA
		(6.6W, 19.9Vf)	(6.4W, 18.3Vf)	(6.0W, 17.1Vf)	(8.9W, 17.8Vf)
2400K	10° pc	425lm	-	-	-
	20° pc	-	500lm	-	-
	40° pc	-	500lm	-	-
	60° pc	-	450lm	-	-
	40° glass	-	-	425lm	575lm
2700K	10° pc	475lm	-	-	-
	20° pc	-	550lm	-	-
	40° pc	-	550lm	-	-
	60° pc	-	500lm	-	-
	40° glass	-	-	475lm	650lm
3000K	10° pc	500lm	-	-	-
	20° pc	-	575lm	-	-
	40° pc	-	575lm	-	-
	60° pc	-	525lm	-	-
	40° glass	-	-	500lm	675lm
3500K	10° pc	525lm	-	-	-
	20° pc	-	600lm	-	-
	40° pc	-	600lm	-	-
	60° pc	-	550lm	-	-
	40° glass	-	-	525lm	700lm
4000K	10° pc	550lm	-	-	-
	20° pc	-	625lm	-	-
	40° pc	-	625lm	-	-
	60° pc	-	575lm	-	-
	40° glass	-	-	550lm	725lm
dim to warm	40° glass	-	-	425lm	-

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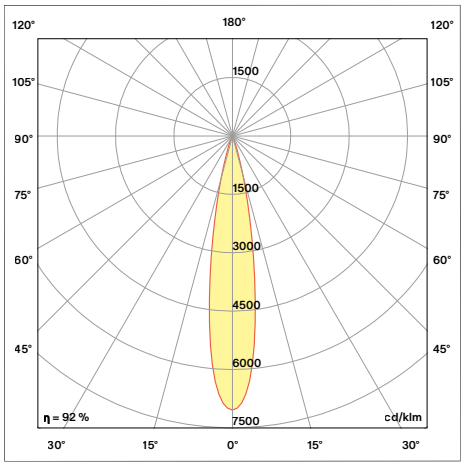
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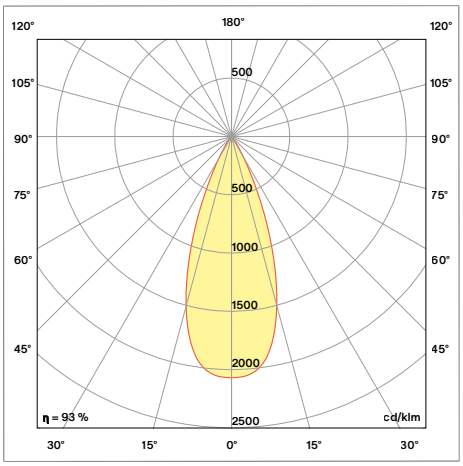
10° pc



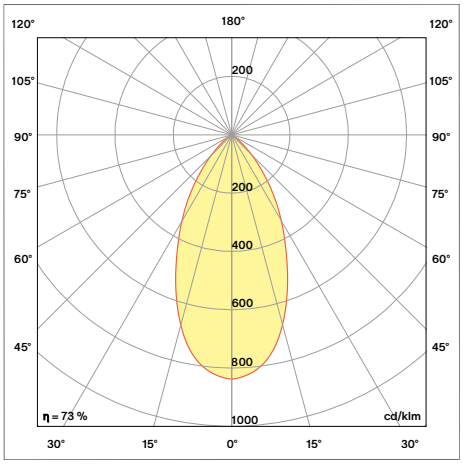
20° pc



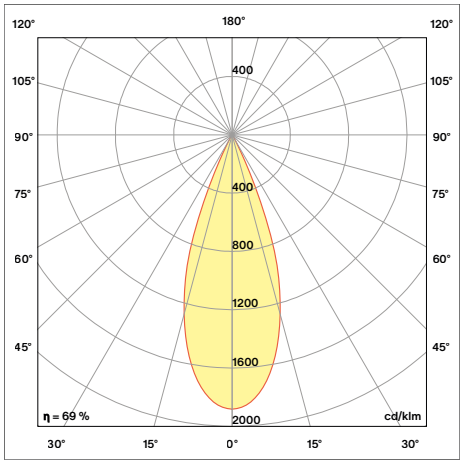
40° pc



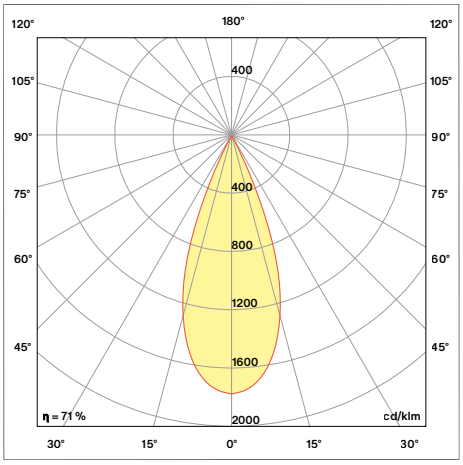
60° pc



40° glass



dim to warm (40° glass)



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accessories

trimless installation rings (not incl.)

	UL listed	product code	spec sheet
mud ring Ø1-1/2” (Ø38 mm)	yes	9001-0004	↗
adj. mud ring Ø1-1/2” (Ø38 mm)	yes	9001-0124	↗

housing (not incl.)

	UL listed	product code	spec sheet
IC box + plaster frame 3-1/2” high airtight	yes	9000-0107	↗
IC box + plaster frame 3-1/2” high non-airtight	yes	9000-0101	↗
IC box + plaster frame 2-1/4” high airtight	yes	9000-0108	↗
IC box + plaster frame 2-1/4” high non-airtight	yes	9000-0103	↗
NON-IC plaster frame	yes	9000-0106	↗
remodeling box 2.37×1.5×8	yes	9000-0104	↗
bar hanger kit	n/a	9000-0102	↗

drivers (not incl.)

	Title 24 JA8 compliant	UL listed	product code	number of fixtures
SOLOdrive 0-10V 350mA 22W	yes	yes	9000-1008	1-2
SOLOdrive 0-10V 500mA 22W	yes	yes	9000-1002	1-2
SOLOdrive DALI 350mA 22W	yes	yes	9000-1006	1-2
SOLOdrive DALI 500mA 22W	yes	yes	9000-1001	1-2
Phase dimming / 0-10V dimmable driver constant current 350mA 15W	yes	yes	9000-1028	1
Phase dimming / 0-10V dimmable driver constant current 500mA 15W	yes	yes	9000-1029	1
DALI / 0-10V dimmable driver 60W constant current multi power	no	yes	9000-1014	2-4

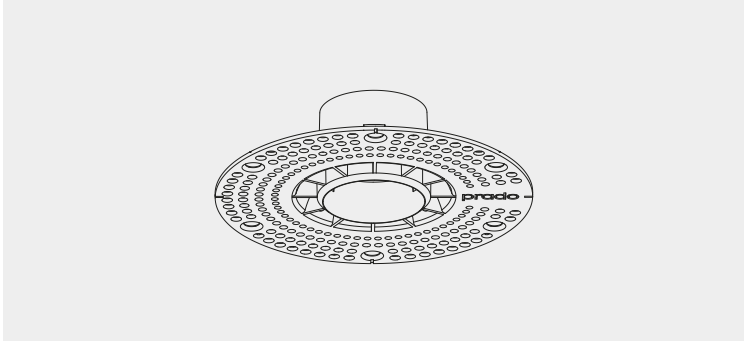
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trimless installation rings (not incl.)

	application	drill hole	product code	spec sheet
mud ring Ø1-1/2” (Ø38 mm)	plastered ceiling	Ø3” (Ø76 mm)	9001-0004	↗
adj. mud ring Ø1-1/2” (Ø38 mm)	plastered ceiling	Ø3” (Ø76 mm)	9001-0124	↗

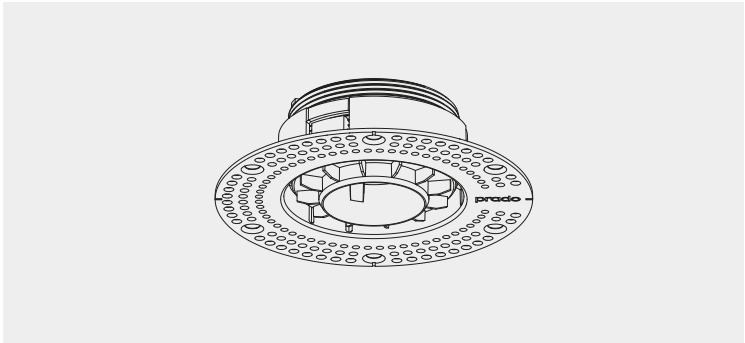
plastered ceiling



mud ring Ø1-1/2” (Ø38 mm)

installation

location	ceiling indoor
plaster thickness	1/7” (3.6 mm)
drill hole	Ø3” (Ø76 mm)



adj. mud ring Ø1-1/2” (Ø38 mm)

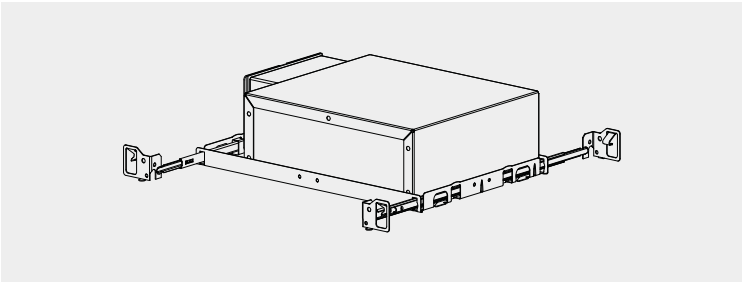
installation

location	ceiling indoor	
plaster thickness	min. 1/7” (3.6 mm)	max. 3/4” (20 mm)
drill hole	Ø3” (Ø76 mm)	

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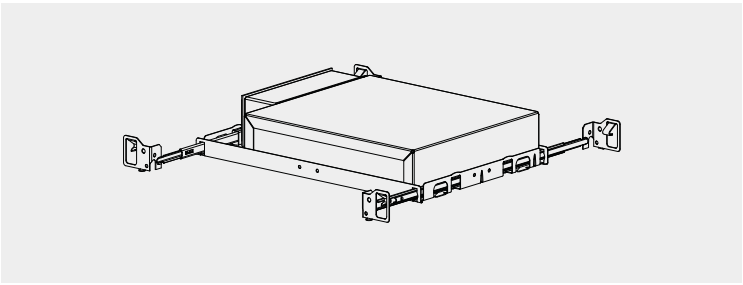
housing (not incl.)



IC box + plaster frame 3-1/2" high

spec sheet

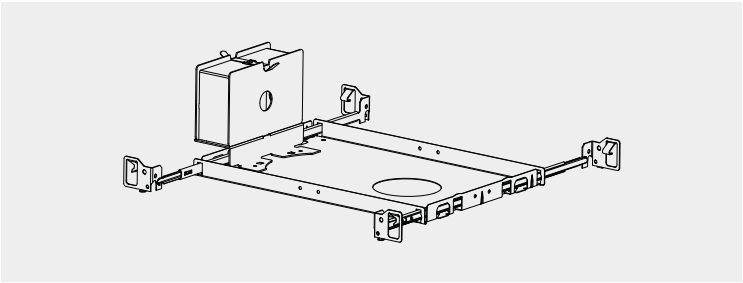
new construction airtight / non-airtight	
for use insulated ceiling	
UL listed	
dimensions D x W x H	12-7/16 × 8-9/16 × 3-7/16"



IC box + plaster frame 2-1/4" high

spec sheet

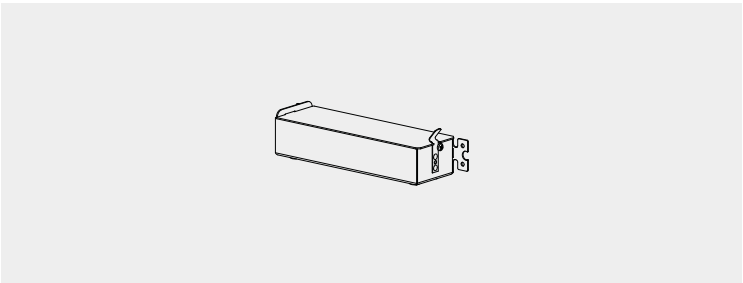
new construction airtight / non-airtight	
for use insulated ceiling	
UL listed	
dimensions D x W x H	12-7/16 × 8-9/16 × 2-3/10"



non-IC plaster frame

spec sheet

new construction	
for use in non-insulated ceiling	
UL listed	
dimensions D x W x H	15 × 8-9/16 × 4-3/8"



remodeling box 2.37x1.5x8

spec sheet

for remote installation	
UL listed	
does not fit through hole	
dimensions D x W x H	8 × 2-9/16 × 1-2/3"

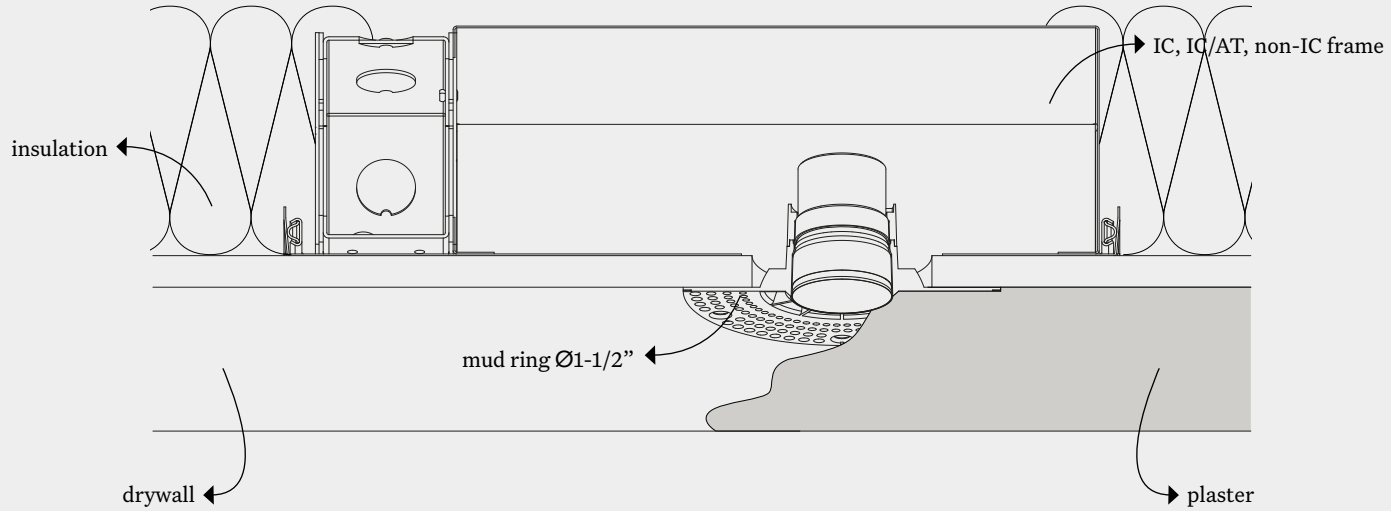
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illustration trimless installation rings in combination with IC boxes

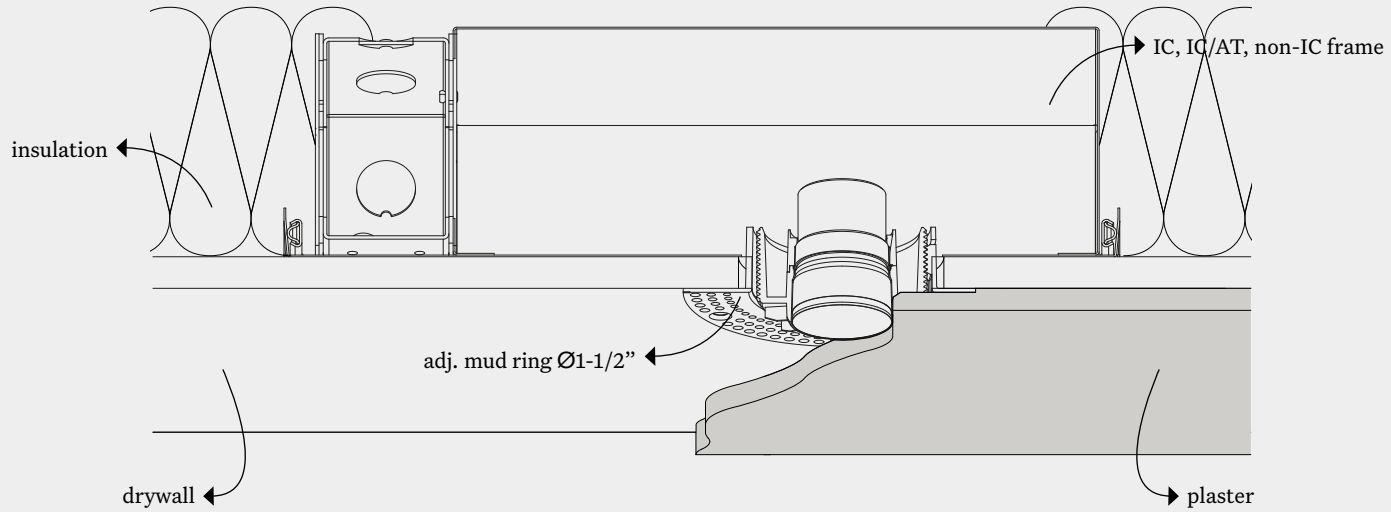
mud ring Ø1-1/2" (Ø38 mm)

installation



adj. mud ring Ø1-1/2" (Ø38 mm)

installation



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driver matrix

new construction	insulated ceiling	IC box + plaster frame 3-1/2"	remote driver	remodeling box 2.37x1.5x8
			local driver	driver in inner junction box
		IC box + plaster frame 2-1/4"	remote driver	remodeling box 2.37x1.5x8
			local driver	driver in inner junction box
	non-insulated ceiling	non-IC plaster frame	remote driver	remodeling box 2.37x1.5x8
			local driver	driver in inner junction box
remodeling			remote driver	remodeling box 2.37x1.5x8

driver matrix

cable length

compatible drivers

remodeling box 2.37x1.5x8 / integral driver box
SOLOdrive 0-10V 350mA 22W
SOLOdrive 0-10V 500mA 22W
SOLOdrive DALI 350mA 22W
SOLOdrive DALI 500mA 22W
Phase dimming / 0-10V dimmable driver constant current 350mA 15W
Phase dimming / 0-10V dimmable driver constant current 500mA 15W

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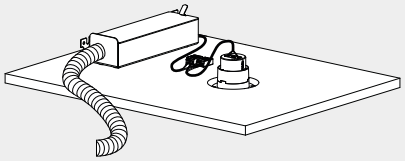
illustration driver matrix

local driver

above ceiling access required for both installation and service [1]

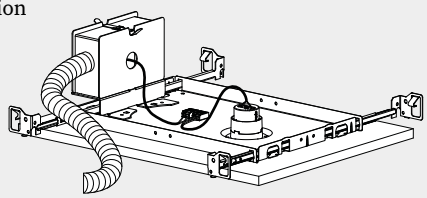
check driver matrix (cut-out column) [2]

[2] remodel

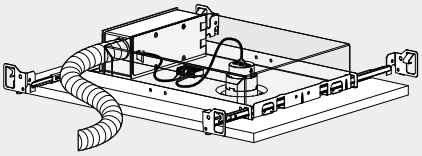


driver matrix

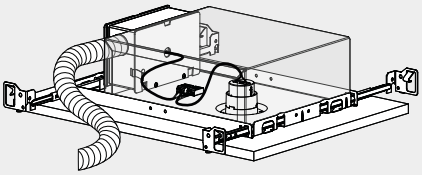
[1] new construction
non-IC



[1] new construction
IC 2-1/4”

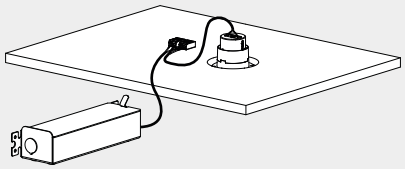


[1] new construction
IC 3-1/2”

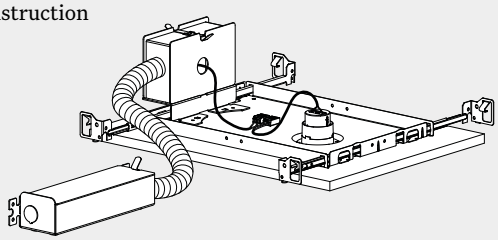


remote driver [3]

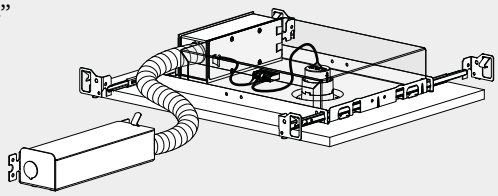
remote driver



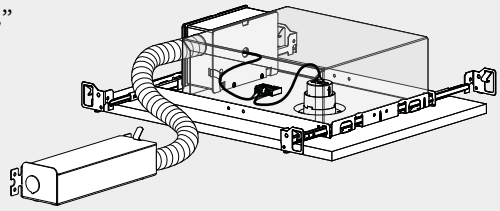
new construction
non-IC



new construction
IC 2-1/4”



new construction
IC 3-1/2”



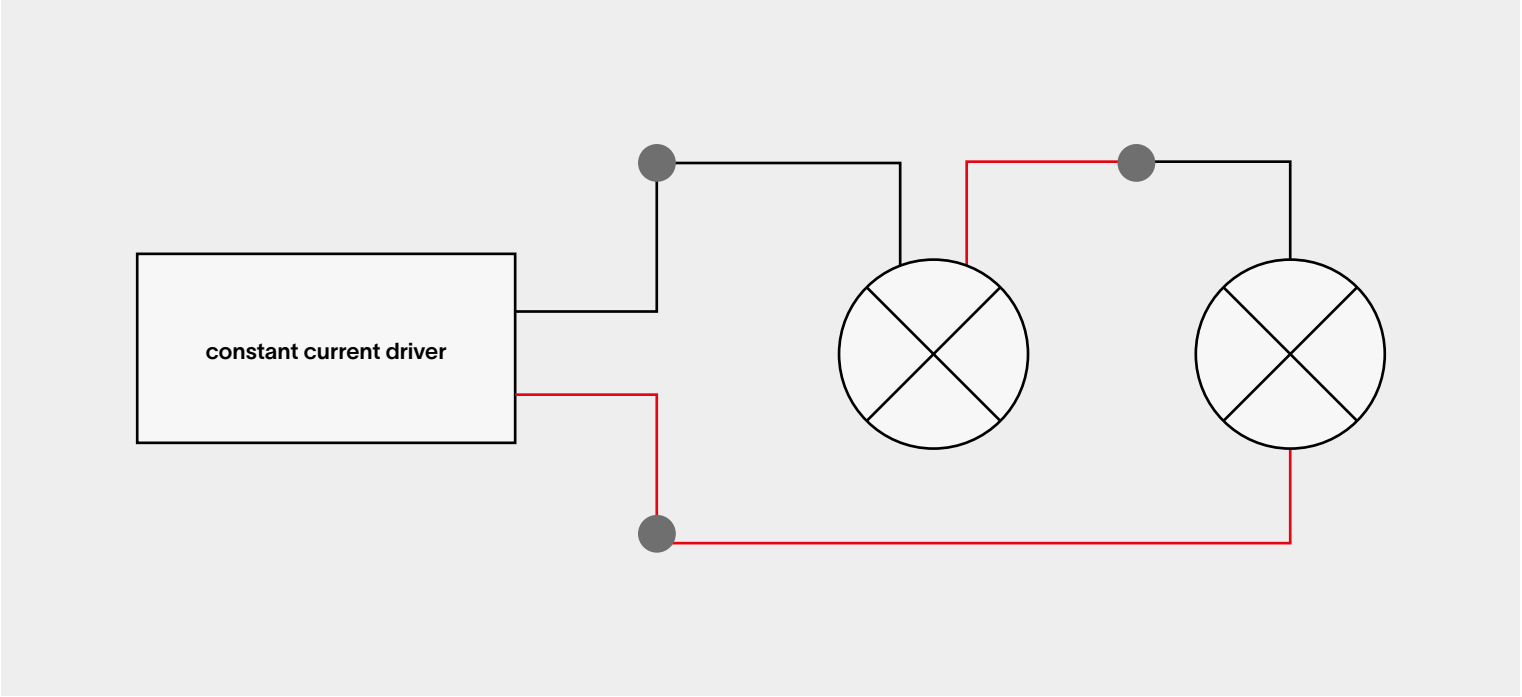
[3] max driver distance	
AWG18 (2 × 1 mm²)	40 ft (12 m)
AWG16 (2 × 1.5 mm²)	65 ft (20 m)
AWG14 (2 × 2.5 mm²)	100 ft (30 m)
AWG12 (2 × 4 mm²)	160 ft (49 m)

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wiring diagram

serial connection



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