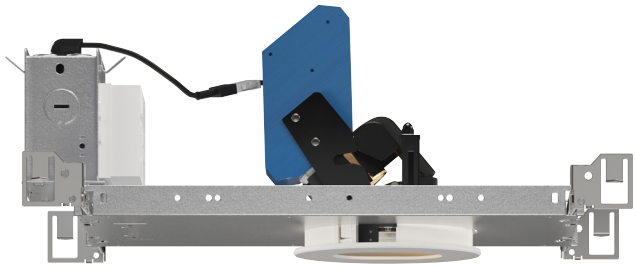
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU2

2" Round Adjustable Pinhole Warm Dim

PR
plenum rated





Trim

30° - 45° BEAM (Note: Specifications are subject to change without notice)		
18mm DYNAMIC COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
30LM	1520LM @30K/97CRI	39W
Notes	Delivered lumens based on 45D optic with SBL lens, (see page 2)	

25° - 35° BEAM (Note: Specifications are subject to change without notice)		
14mm DYNAMIC COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
20LM	1320LM @30K/97CRI	26W
Notes	Delivered lumens based on 35D optic with no accessory, (see page 2)	

15° - 35° BEAM (Note: Specifications are subject to change without notice)		
9mm DYNAMIC COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	740LM @30K/97CRI	13W
15LM	970LM @30K/97CRI	19W
Notes	Delivered lumens based on 35D optic with no accessory, (see page 2)	

FEATURES

- True 40° Tilt with <10% beam disruption (clipping)
- Zero ceiling line obstruction at Full Tilt
- Concentric Tilt Tracking ensures minimal light loss
- 15° - 45° optical beam control
- UGR <5
- Multiple mounting, glare control options, trims, and finishes available

DIMMING AND CONTROLS

- eldoLED flicker free 0-10V dimming to 0% and 1%
- eldoLED flicker free DALI dimming to 0% and 1%
- DMX dim to zero
- Leading & trailing edge (Triac/ELV) dimming to 1%
- Casambi dimming to 0.1%
- NLight control interface dimming to 0%

CONSTRUCTION

- Lexan Optimized for wireless signal controls
- Electrocoated 16-gague cold-rolled steel construction
- Accommodates ceiling thickness from 0.4" to 2.0"
- Fixture is pre-set and shipped at 20deg tilt

LED

- Luminus Dim-to-warm COB: 97 CRI: SDCM = 3-step MacAdam Ellipse; Lumen Maintenance: L_{70} > 54,000 hrs
- Dim to Warm from 3000K - 1800K.

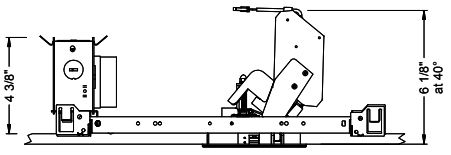
LISTING

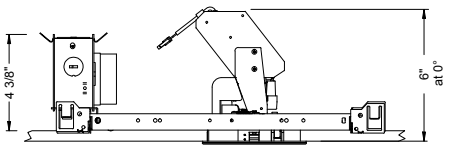
- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- Suitable for damp locations
- Made in the USA - meets the requirements of the Buy American provision within the ARRA
- 5 Year Limited warranty

ELECTRICAL

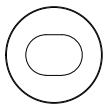
- 120V only Triac/ELV, 120V-277V
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Remote emergency test switch
- 7W, 10W (T20 CEC) and 12W EM 90min battery
- Max. ambient installation temperature 95°F (35°C)

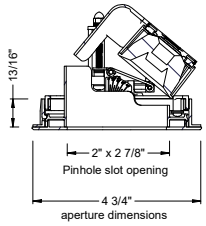
FIXTURE HEIGHT





TRIMMED





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In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

15°- 45° BEAM ORDERING CODE

SERIES	**NU2**	NU2
TYPE	**RAPH**	round adjustable, pinhole
LED	**WD**	warm dim (Luminus)
DELIVERED LUMENS	**10LM**[1]	740 lm
	15LM[1]	970 lm
	20LM[2]	1320 lm
	30LM[3]	1520 lm
	Standard Configuration: 35D NA **Calculated Delivered Lumens** = [Delivered Lumen Value] x [Optic Multiplier] x [Lens Multiplier]	
CCT	**3018**	3000K, dim to 1800K

CCT at Light Level (%LF)

%LF	30LM	20LM	15LM	10LM
100%	3000	3000	3000	3000
50%	3000	3000	3000	2800
25%	2800	2800	2500	2300
10%	2200	2200	2000	1900
5%	1800	1800	1800	1800

CRI	**97**	97 CRI	
OPTIC & LM MULTIPLIER SEE PAGE 3	**15D**	15 degrees	(0.88)
	25D	25 degrees	(0.94)
	30D	30 degrees	(0.93)
	35D	35 degrees	(1.00)
	45D	45 degrees	(0.99)
TIR OPTIC ACCESSORY SEE PAGE 3	**NA**	no accessory	(1.00)
	HCL	honeycomb louver	(0.75)
	DL	diffused lens	(0.84)
	HET	high efficiency textured lens, similar to Solite™	(0.96)
	SBL	smoothing beam lens	(0.98)
	Attached to **TIR** optic, field replaceable (maximum, 1 media)		
TRIM COLOR SEE PAGE 3	**BK**	black, with black optical cavity	
	WH	white, with black optical cavity	

15°- 45° BEAM ORDERING CODE

MOUNTING OPTIONS SEE PAGE 5, 6	**NC**	new construction with ceiling fitting plate
	IC[4]	insulation contact housing
	ICAT[4]	insulation contact/airtight housing
	CP[4]	chicago plenum housing
	RET	retrofit, no ceiling fitting plate
VOLTAGE	**120**	120V
	UNV	120V-277V
DIMMING	**DIM10**	eldoLED flicker free 0-10V dimming to 1%
	DIM10Z	eldoLED flicker free 0-10V dimming to 0%
	DALI	eldoLED flicker free DALI-2 dimming to 1%
	DALIZ	eldoLED flicker free DALI-2 dimming to 0%
	DMXZ	DMX dim to zero
	LUT	Lutron Hi-lume Ecosystem dimming to 1%, Soft-on & Fade-to-Black
	ELV1[5]	leading & trailing edge (Triac/ELV) dimming to 1%
	CAS	Casambi control with flicker free 1% dimming
	NLT	nLight control interface: standard Cat-5/RJ45 connection (female), dim to off
ELECTRICAL OPTIONS	**EM7**	emergency battery backup, 90 minutes at 7W to LED
	EM12	emergency battery backup, 90 minutes at 12W to LED
	EM10CA20	remote emergency battery backup, 90 minutes at 10W to LED, CA title 20
SPECIAL SEE PAGE 5	**TC**	thick ceiling application

ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	*Extends a pair of Bar Hangers* Total Mounting Length: 29" to 48"

YOUR COMPLETED ORDERING CODE
Follow the steps to specify your fixture, example:
NU2 - RAPH - WD - 20LM - 3018 - 97 - 35D - SBL - WH - NC - UNV - DIM10 - EM7 - TC

NOTES

1. 10LM/15LM available in 15D/25D/35D optics.
2. 20LM available in 25D/35D optics.
3. 30LM available in 30D/35D/45D optics with DL/HET/SBL lens.
4. IC/ICAT/CP not available in 30LM.
5. ELV1 available in 120V.

* Warm Dim CCT values at X% are for reference. Actual CCT may vary.
* EldoLED uses logarithmic dimming curve as standard. For linear dimming curve, add "LIN" after dimming code, i.e. DIM10LIN.

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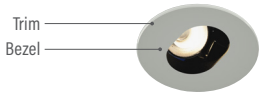
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alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

TRIM OPTIONS

TRIM/BEZEL COLORS



WH



BK

OPTICAL OPTIONS

- UGR calculation based on CIE 117-1995; room size: 4H X 8H, reflectance: 70/50/20;
- UGR calculation based on 15LM fixtures, unless otherwise noted.

TIR OPTIC ACCESSORY
HET



OPTIC	BEAM ANGLE	UGR
15D	21.6	≤5
25D	26.7	≤5
35D	32.9	6.4

TIR OPTIC ACCESSORY
DL



OPTIC	BEAM ANGLE	UGR
15D	32.5	6.9
25D	36.8	11.4
35D	40.7	12.6

TIR OPTIC ACCESSORY
SBL



OPTIC	BEAM ANGLE	UGR
15D	18.1	≤5
25D	24.5	≤5
35D	32.4	≤5

NA



OPTIC	BEAM ANGLE	UGR
15D	17.4	≤5
25D	23.7	≤5
35D	32.5	≤5

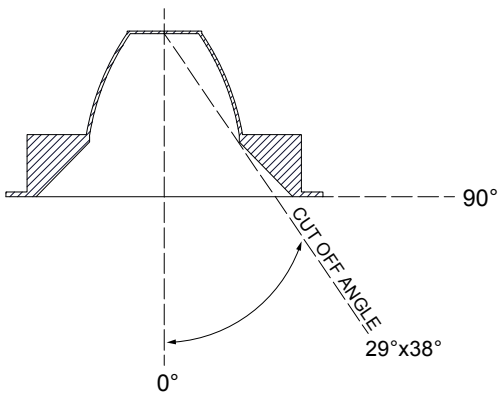
GLARE CONTROL

CUT-OFF ANGLE

Visual comfort is achieved with a lower cut-off angle due to improved glare control. The smaller the cut-off angle, the easier it is on the eye.

Alphabet downlights have been thoughtfully engineered to eliminate glare while still delivering functional illumination.

- Cutoff angle of NA is 29°x38°;



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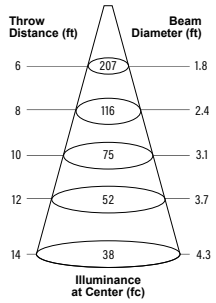
In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

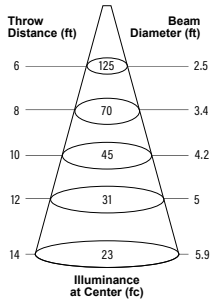
15D 17.4° NO ACCESSORY



WATTS: 19	LPW: 44.9
LUMENS: 854	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	7455
5	5962
15	1177
25	52
35	3
45	1.4

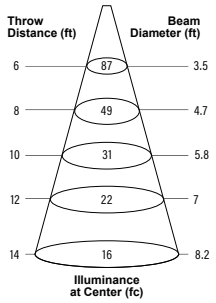
25D 23.7° NO ACCESSORY



WATTS: 19	LPW: 47.9
LUMENS: 909	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	4505
5	3965
15	1516
25	265
35	16
45	2.3

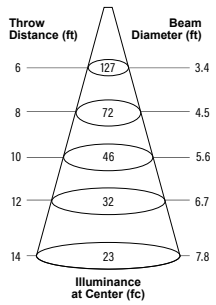
35D 32.5° NO ACCESSORY



WATTS: 19	LPW: 50.9
LUMENS: 966	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	3129
5	2993
15	1767
25	403
35	15
45	2.3

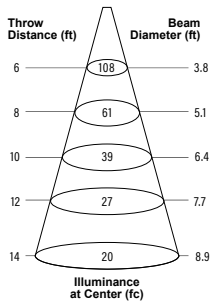
30D 31.3° SMOOTHING BEAM LENS



WATTS: 37.1	LPW: 38
LUMENS: 1411	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	4585
5	4324
15	2432
25	646
35	55
45	8.7

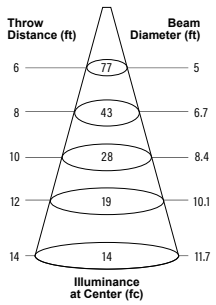
35D 35.4° SMOOTHING BEAM LENS



WATTS: 37.1	LPW: 37.9
LUMENS: 1406	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	3903
5	3756
15	2446
25	730
35	54
45	8.3

45D 45.5° SMOOTHING BEAM LENS



WATTS: 37.1	LPW: 40.9
LUMENS: 1516	CCT: 3000K

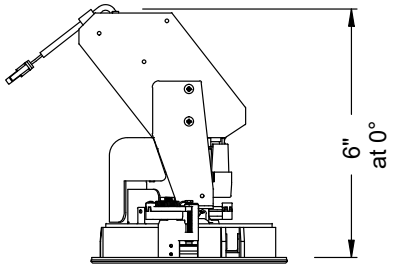
INTENSITY	
DEGREE	CANDELA
0	2754
5	2639
15	2002
25	1159
35	257
45	12

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

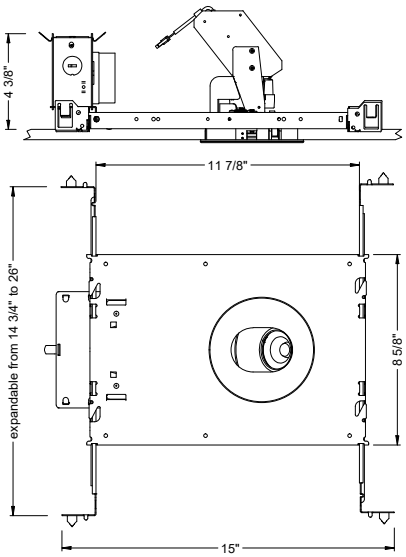
FIXTURE HEIGHT



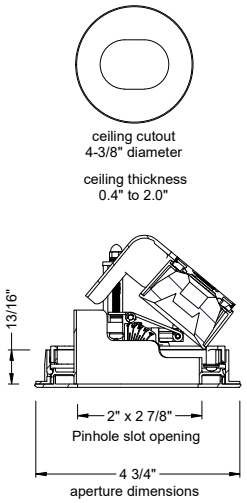
TRIMMED

NC - NEW CONSTRUCTION

TRIM

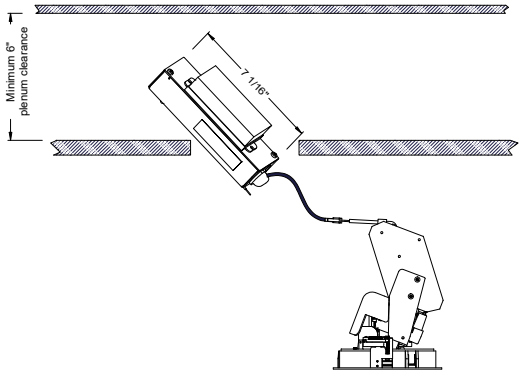


TRIM



RET - RETRO

TRIM/TRIMLESS



alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

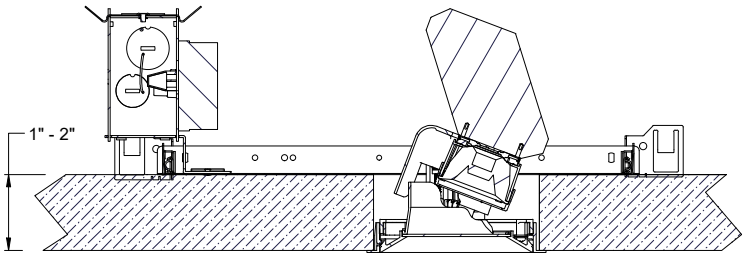
MOUNTING OPTIONS (CONTINUED)

RATINGS / CERTIFICATIONS	NC	RET	IC	ICAT	CP
TYPE NON-IC	✔	✔			
TYPE IC			✔	✔	✔
CHICAGO PLENUM (CCEA)					✔
SUITABLE FOR AIR HANDLING PLENUMS	✔	✔	✔	✔	✔
REDUCED AIRFLOW (WITH LENS) ASTM E283	✔	✔	✔	✔	✔

CEILING THICKNESS		
FIXTURE TYPE	MOUNTING TYPE	
	NC, IC, ICAT, CP, RET	NC, IC, ICAT, CP, RET
	STANDARD CEILING THICKNESS	THICK CEILING THICKNESS
TRIM	0.4" to 1.1"	1.0" to 2.0"
TRIMLESS	0.4" to 1.1"	1.0" to 2.0"
MILLWORK (TRIMLESS)	0.5" to 1.1"	1.0" to 2.0"

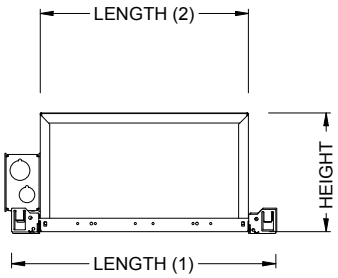
TC - THICK CEILING (1" TO 2") APPLICATION

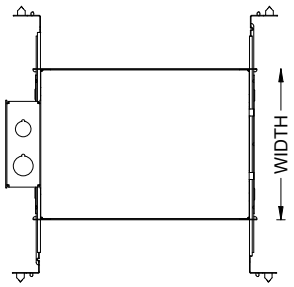
TRIM/TRIMLESS



THICK CEILING FIXTURE INFO		
TILT	ROTATION	CEILING THICKNESS
0° - 20°	360°	UP TO 2"
20° - 30°	160°	UP TO 2"
30° - 40°	160°	UP TO 1.625"

IC - INSULATION CONTACT HOUSING
ICAT - INSULATION CONTACT / AIR TIGHT
CP - CHICAGO PLENUM





BOX SIZE	L 1	L 2	W	H
A	15 - 7/16"	11 - 3/4"	8 - 1/2"	6 - 3/4"
B	18 - 1/4"	14 - 7/8"	12 - 1/8"	11 - 1/4"
C	18 - 1/4"	14 - 7/8"	12 - 1/8"	6 - 3/4"

BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS (25° - 35°)					
LUMEN OUTPUT	BOX - A			BOX - B	BOX -C
	CP	IC	ICAT	IC	ICAT
20LM				✔	

BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS (30° - 45°)					
LUMEN OUTPUT	BOX - A			BOX - B	BOX -C
	CP	IC	ICAT	IC	ICAT
30LM					

BOX TYPE / LUMEN OUTPUT - NARROW BEAMS (15° - 35°)					
LUMEN OUTPUT	BOX - A			BOX - B	BOX -C
	CP	IC	ICAT	IC	ICAT
10LM	✔	✔	✔		
15LM	✔	✔	✔		

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alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

BATTERY OPTIONS

EMERGENCY BATTERY

IOTA's ILB battery backups are UL Listed LED emergency drivers that allow the same LED fixture to be used for both normal and emergency operation. In the event of a power failure, the ILB switches to the emergency mode and operates the existing fixture for 90 minutes. The unit contains a battery, charger, and converter circuit in a single can. The constant power design of the ILB maintains the output wattage to the LED array even as the system voltage diminishes. UL 924 Listed for U.S. and Canada. UL 1310 Certified, output class 2 compliant. Includes single-piece TBTS test switch and charge indicator accessory kit. For use with switched and unswitched fixtures, and includes two-wire universal AC input. Meets or exceeds all National Electric Code and Life Safety Code Emergency Lighting requirements. Rated for use in plenum, damp location, recessed type IC, and enclosed and gasketed luminares.

REMOTE TEST SWITCH

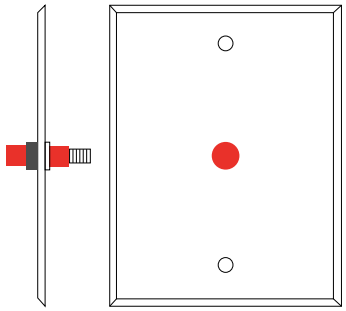
The remote test switch may be mounted adjacent to the LED Fixture by others.

EMERGENCY BATTERY ACCESS

Above ceiling access is recommended for ease of service, but LED fixture sizes of 4" and larger are capable of below ceiling access. IC/ICAT/CP box and ITS option require an access panel in the ceiling (or other form of access) adjacent to the installation location of the emergency battery.

REMOTE LOCATION

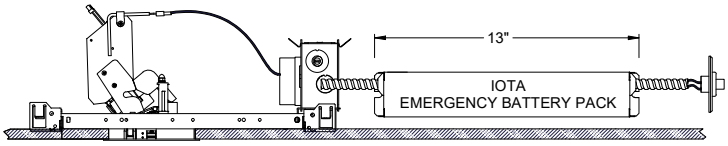
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all local and national electric/ building codes.



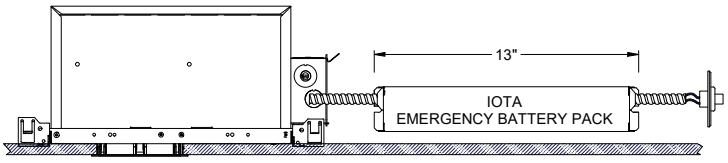
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)			
LUMEN ORDERING CODE	EM7	EM10	EM12
ALL OPTIONS (10LM TO 30LM)	380	540	680
Notes: Based on 30K, 97CRI			

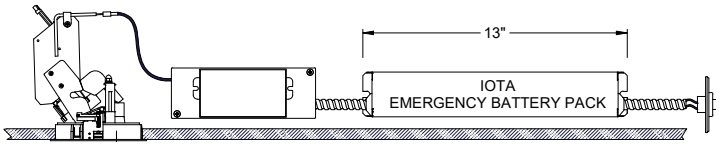
NC - NEW CONSTRUCTION
WITH EM BATTERY (REMOTE TEST SWITCH)



IC / ICAT / CP - INSULATION CONTACT HOUSING
WITH EM BATTERY (REMOTE TEST SWITCH)

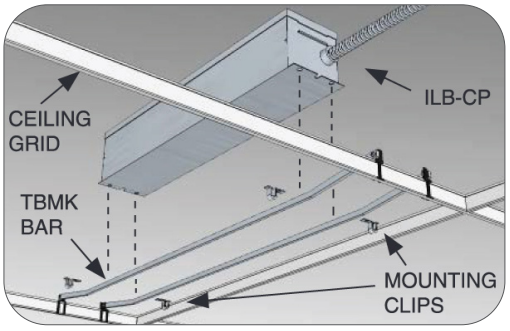


RET - RETROFIT
WITH EM BATTERY (REMOTE TEST SWITCH)



Accessory

76066 Optional T-Grid Mounting Kit[1]



1. Can be used with any of the Emergency Battery Backups. Must be ordered as a separate line item.

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