PROJECT INFORMATION	
JOB NAME	ТҮРЕ
ORDERING CODE	

NU1

1" Round Downlight Hospitality CCTs

















Trimless

Trimless Millwork

22° - 60° BEAM (Note: Specifications are subject to change without notice)			
6mm COB PERFORMANCE DATA			
LED LIGHT ENGINE			
05LM	540LM @24K/90CRI	150mA	5.5W
07LM	720LM @24K/90CRI	200mA	7.5W
10LM	970LM @24K/90CRI	300mA	11W
Notes Delivered lumens based on 30D optic with no lens, (see page 2)			

17° BEAM (Note: Specifications are subject to change without notice)			
	4mm COB PERFORMANC	E DATA	
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED Wattage
05LM	470LM @24K/90CRI	150mA	5.5W
Notes	Delivered lumens based on 17D optic with SBL lens, (see page 2)		

FEATURES

- 3/8" bezel regress with 1/16" micro flange
- 17° 60° optical beam control
- UGR < 26
- Up to 98 LPW
- Glare control, specialty optics, trim options, and custom
- Microban® antimicrobial finish available on all exposed painted surfaces

LED

- 90 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L₇₀

DIMMING AND CONTROLS

- eldoLED flicker free 0-10V dimming to 0% and 1%
- eldoLED flicker free DALI 2 dimming to 0% and 1%
- Lutron Hi-lumen 2-Wire (Eco System) dimming to 0.1% and 1%
- Leading & trailing edge (Triac/ELV) dimming to 1%
- All driver offerings are remote with above ceiling access, see page
- Refer to DX remote panels for additional options.

LISTING

- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP44 with lens Suitable for wet locations with lens Suitable for damp locations without lens
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- Declare. LBC Red List Approved
- 5 Year Limited warranty

CONSTRUCTION

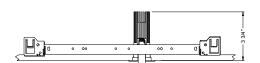
- High-grade die-cast and cold forged aluminum alloy assembly that has superior thermal and corrosion resistance properties.
- Shatter proof acrylic bezel lens
- Electrocoated 16-gauge cold-rolled steel construction
- Accommodates ceiling thickness from 1/8" to 1-1/2", On-field thick ceiling adjustment

ELECTRICAL

- Low voltage luminaire: 36Vdc nominal
- 05LM 150mA
- 07LM 200mA
- 10LM 300mA

FIXTURE HEIGHT

LED LIGHT ENGINE: 05LM - 10LM

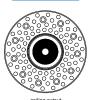


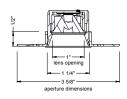
TRIMMED





TRIMLESS





MILLWORK





v.4.21.25

Alphabet by Ledra Brands, Inc. 88 Maxwell Irvine, CA 92618 PH: 714.259.9959 FAX: 714.259.9969 AlphabetLighting.com

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		ORD	ERING CODE		
SERIES	NU1	NU1	ENING CODE		
SENIES					
TWEE	RD		round downlight		
TYPE	RDT	round downlight trimless			
150	RDTMW	round downlight trimless millwork standard white			
LED	SW		d wnite		
	05LM	540 lm			
DELIVERED	07LM	720 lm			
LUMENS	10LM	970 lm	04001/00001000		
		Delivered Lu		NL Lumen Value] x [CCT Mu	ultiplier] x [Optic
	22K	2200K	CCT	2200K	2400K
CCT	24K	2400K	CRI	90+	90+
ССТ			CCT MULTIPLIER FOR LUMEN OUTPUT	0.92	1
					'
CRI	90	90 CRI			
	17D ^{1, 2, 3}	17 degre	es		(1.00)
OPTIC &	22D ^{2, 3}	22 degrees			(0.91)
LM MULTIPLIER	30D	30 degr	ees		(0.97)
SEE PAGE 6	40D	40 degr	ees		(0.95)
	60D	60 degr	ees		(1.00)
	NL^4	no lens (1.00)			
	CL	clear ler	าร		(0.95)
	DL	diffused	lens		(0.86)
BEZEL LENS	E ⁵	elliptica	l beam spread		(0.85)
SEE PAGE 5	HCL	honeyco	omb louver		(0.65)
	HET	high effi	ciency textured	d lens, similar to So	olite™ (0.92)
	SBL	smoothi	ng beam lens		(0.92)
	Maximum 2p	cs of media	per fixture.		
	BK	black			
	WH	white			
TRIM	MC	matte cl	nrome		
COLOR	BZ	bronze			
SEE PAGE 5	WT	wheat			
	CC ⁶	custom color, consult factory for details			
				lude in trimless ordering	
	BK	black	AW TO DIACK, WITITE	or matte chrome i.e. BK/	(0.98)
	WH	white			(1.00)
DE ZEI	MC	matte cl	nrome		(0.99)
BEZEL COLOR	BZ	bronze	1101116		(0.98)
SEE PAGE 5	WT	wheat			(0.99)
	CC ⁶		color consult f	actory for details	(0.33)
	UU	custoff	coloi, collsuit la	actory for details	

Antimicrobial finish, add AM to black, white or matte chrome i.e. BKAM.

PROJECT INFOR	RMATION		
JOB NAME		TYPE	
ORDERING CODE			

		ORDERING CODE
	NC	new construction with ceiling fitting plate
	IC ^{8, 9}	insulation contact housing
	ICAT ^{8, 9}	insulation contact/airtight housing
MOUNTING	CP ^{8, 9}	chicago plenum housing
OPTIONS SEE PAGE 8, 9	NCINH ⁷	new construction with ceiling fitting plate, IC rated, inherently protected
	RETINH ⁷	retrofit, no ceiling fitting plate, IC rated, inherently protected
	RET	retrofit, no ceiling fitting plate
	remote drive	ronly
VOLTAGE	LVL	low voltage luminaire
DIMMING	ND	No driver included. See page 3 for remote driver options.

YOUR COMPLETED ORDERING CODE		
Follow the steps to specify your fixture, example:		
NU1 - RD - SW - 10LM - 22K - 90 - 30D - HET - WH - WH - NC - LVL - ND		

NOTES

- 1. 17D available in 05LM.
- 2. 17D & 22D not available in NL and CL options.
- 3. 17D & 22D includes SBL lens as standard. One additional media may be used.
- 4. NL option does not meet requirements for AT/WET/NSF listings.
- 5. Actual beam distributions [22D= 38° x 57° , 30D= 43° x 63° , 40D= 48° x 66° , 60D= 59° x 75°]
- 6. Custom set up fee plus minimum quantity required per color.
- 7. NCINH, RETINH available in 05LM.
- 8. IC/ICAT/CP not available in 10LM.
- 9. IC/ICAT/CP not available in RDTMW.

		ORDERING CODE
SERIES	DX-C	compact driver box
NUMBER OF DRIVERS	1-5	number of drivers, 1-5
	150	150mA
CURRENT	200	200mA
	300	300mA
VOLTAGE	120	120V
VOLTAGE	UNV	120V-277V
	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%
	DMX-RJ45 ¹	DMX control dimming to 0.1% with RJ45 connection
	DMX-WL ¹	DMX control dimming to 0.1% with wire lead connection
	DMX-XLR ¹	DMX control dimming to 0.1% with XLR 5pin connection
DIMMING	LUT	Lutron Hi-lume Ecosystem dimming to 1%, Soft-on & Fade-to-Black
	LUTP	Lutron Hi-lume Premier Ecosystem dimming to 0.1%, Soft-on & Fade-to-Black
	ELV1 ²	leading & trailing edge (Triac/ELV) dimming to 1%
	NLT	nLight control interface: standard Cat-5/RJ45 connection (female), dim to off
	CAS ³	Casambi control with flicker free 1% dimming
	AWNR ⁴	lutron athena wireless node
ELECTRICAL OPTIONS	EM7 ⁵	remote emergency battery backup, 90 minutes at 7 watts to LED, Remote TS

YOUR COMPLETED ORDERING CODE
Follow the steps to specify your fixture, example:
DX-C - 1 - 300 - UNV - DIM10 - EM7

NOTES

- 1. DMX available only in DX-C-1.
- 2. ELV available in 120V.
- 3. All drivers on single Casambi dimming circuit.
- 4. AWNR reference page 11 for product specification on Athena wireless node.
- 5. EM available only with DX-C-1. Box size same as DX-C-2, with one driver and one battery.
- * EldoLED uses logarithmic dimming curve as standard. For linear dimming curve, add "LIN" after dimming code, i.e. DIM10LIN.

PROJECT INFOR	MATION		
JOB NAME		TYPE	
ORDERING CODE			

22° - 50° BEAM (Note: Specifications are subject to change without notice)			
6mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED SYSTEM WATTAGE		
05LM	540LM @24K/90CRI	7W	
07LM	720LM @24K/90CRI	9W	
10LM	970LM @24K/90CRI	14W	
Notes	Delivered lumens based on 30D optic with no lens, (see page 2)		

17° BEAM (Note: Specifications are subject to change without notice)			
4mm	COB PERFORMANCE DA	ГА	
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE	
05LM	470LM @24K/90CRI	7W	
Notes	Delivered lumens base optic with SBL lens, (s		

ELECTRICAL/CONTROLS

- 120V-277V, 120 only Triac / ELV
- 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)
- Minimum wire gauge approved mounting distance 18 AWG, 330 feet
- Maximum Remote mounting distance of EM driver shall be 50 feet

REMOTE SINGLE DRIVER BOX



REMOTE 2 TO 3 DRIVER BOX (2 Drivers for DIM10Z/DALI/DALIZ/LUT/LUTP) (1 Driver + EM)



REMOTE 4 TO 5 DRIVER BOX (3 Drivers for DIM10Z/DALI/DALIZ/LUT/LUTP)



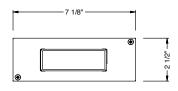
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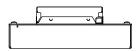


PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

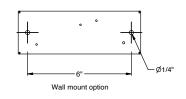
DRIVER BOXES

REMOTE SINGLE DRIVER BOX

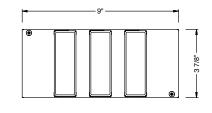


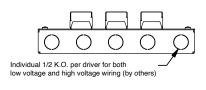


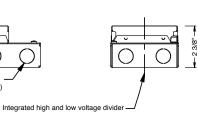


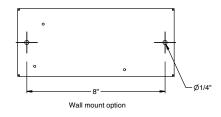


REMOTE 2 TO 3 DRIVER BOX (2 Drivers for DIM10Z/DALI/DALIZ/LUT/LUTP)

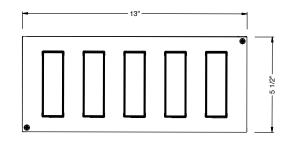


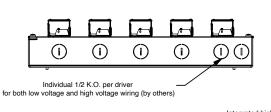


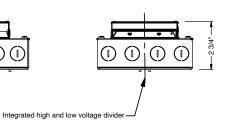


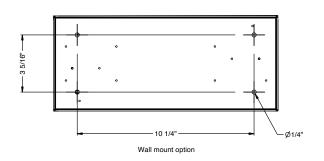


REMOTE 4 TO 5 DRIVER BOX (3 Drivers for DIM10Z/DALI/DALIZ/LUT/LUTP)









v.4.21.25



PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

TRIM OPTIONS

TRIM/BEZEL COLORS











WH

OPTICAL OPTIONS

- UGR calculation based on CIE 117-1995; room size: 4H X 8H, reflectance: 70/50/20;
- UGR calculation based on 05LM BK fixtures, unless otherwise noted.

HCL Honeycomb Louver

OPTIC	BEAM ANGLE	UGR
17D	17	≤5
22D	20	9.2
30D	27	10.4
40D	35	12.9
60D	45	18.9



OPTIC	BEAM ANGLE	UGR
30D	29	14.8
40D	39	17.4
60D	57	23.9



OPTIC	BEAM ANGLE	UGR
30D	30	14.1
40D	40	17.1
60D	55	23.5



OPTIC	BEAM ANGLE	UGR
22D	40	19.3
30D	45	20.7
40D	50	22.3
60D	62	25.2

High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
17D	21	9.3
22D	23	14.7
30D	32	16.2
40D	41	18.5
60D	55	23.7

SBL Smoothing Beam Lens

OPTIC	BEAM ANGLE	UGR
17D	17.6	7.5
22D	22	10.7
30D	30	15.3
40D	40	17.8
60D	55	23.4

Note: 17D UGR based on 07LM

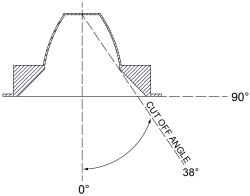
GLARE CONTROL

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.

• Cut-off angle of NL and CL is 38°

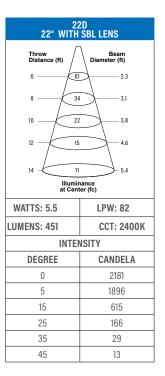


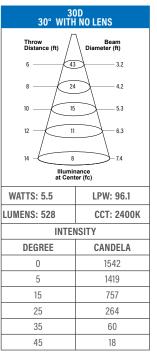
Alphabet by Ledra Brands, Inc. | 88 Maxwell Irvine, CA 92618 | PH: 714.259.9959 FAX: 714.259.9969 | AlphabetLighting.com

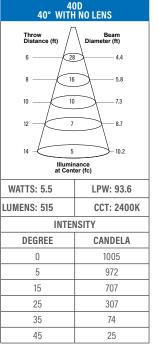
PROJECT INFORMATION				
JOB NAME		TYPE		
ORDERING CODE				

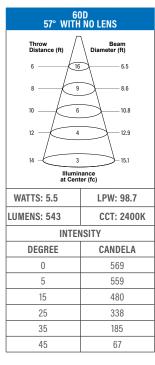
PHOTOMETRIC DATA

05LM				
90CRI				
2200K 0.92				
2400K 1				
FC Formula = CBCP / Distance ²				

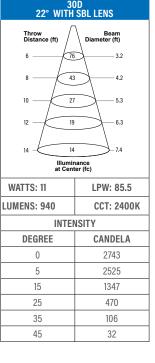


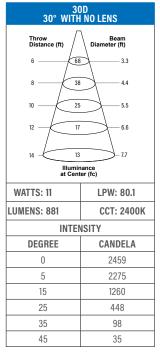


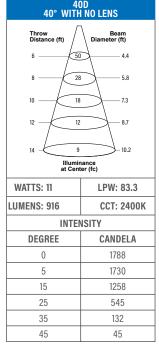


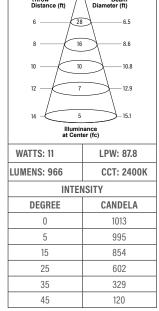


10LM				
90CRI				
2200K 0.92				
2400K 1				
FC Formula = CBCP / Distance ²				









60D 57° WITH NO LENS

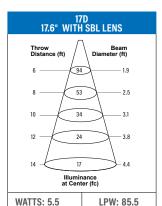
NU1RD



PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

05LM			
	90CRI		
2200K 0.92			
2400K 1			
FC Formula = CBCP / Distance ²			



WAI 13. 3.3	LI W. 03.3
LUMENS: 470	CCT: 2400K
INTEN	ISITY
DEGREE	CANDELA
0	3396
5	2711
15	594
25	102
35	23
45	11

NU1RD

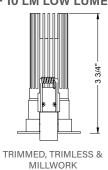


PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

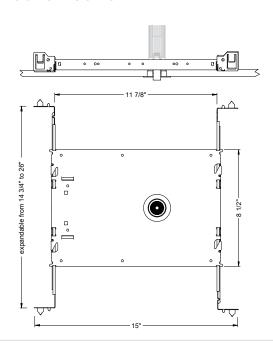
FIXTURE HEIGHT

05LM - 10 LM LOW LUMENS



NC - NEW CONSTRUCTION

TRIM



TRIM

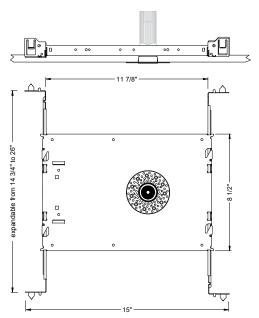


lens opening

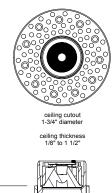
- 1 1/4" aperture dimensions

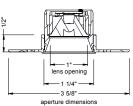
ADDITIONAL MOUNTING INFO				
New Construction	Mounting Length:			
Bar Hangers (included)	14-3/4" to 26"			
Extension Kit p/n: K20266	Extends a pair of Bar Hangers			
(ordered separately,	Total Mounting Length:			
1 per fixture)	29" to 48"			

TRIMLESS



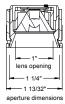
TRIMLESS





TRIMLESS/MILLWORK





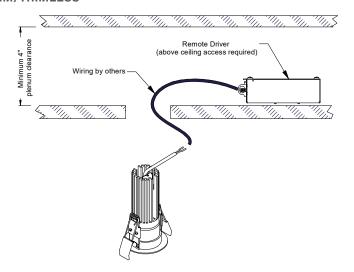
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PROJECT INFOR	MATION		
JOB NAME		TYPE	
ORDERING CODE			

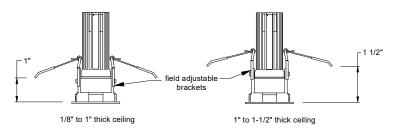
MOUNTING OPTIONS

RET - RETRO TRIM/TRIMLESS

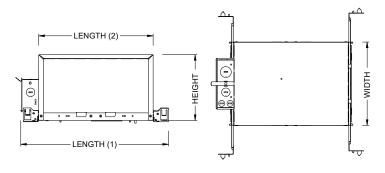


RATINGS / CERTIFICATIONS	NC	RET	IC	ICAT	СР
TYPE NON-IC	~	~			
TYPE IC			~	~	~
CHICAGO PLENUM (CCEA)					~
SUITABLE FOR AIR HANDLING PLENUMS				~	~
REDUCED AIRFLOW ASTM E283				~	~

CEILING THICKNESS				
	MOUNTING TYPE			
FIXTURE TYPE	NC, IC, ICAT, CP, RET	NC, IC, ICAT, CP, RET	NC, IC, ICAT, CP, RET	
TIXTOILE TITE	STANDARD CEILING THICKNESS	THICK CEILING THICKNESS	CEILING CUTOUT	
TRIM	1/8" to 1.0"	1.0" to 1 1/2"	1-3/4" round	
TRIMLESS	1/8" to 1.0" 1.0" to 1 1/2" 1-3		1-3/4" round	
MILLWORK (TRIMLESS)	1/8" to 1.0"	1.0" to 1 1/2"	1-7/16" round	



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



BOX SIZE	L1	L 2	W	Н
А	15 - 7/16"	11 - 3/4"	8 - 1/2"	6 - 3/4"

BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS (17°-60°)				
LUMEN OUTPUT	BOX - A			
LUMEN OUTFUT	СР	IC	ICAT	
05LM	~	~	~	
07LM	~	~	~	
10LM				

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.



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

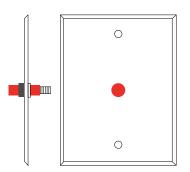
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

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

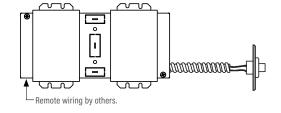
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



Remote Test Switch

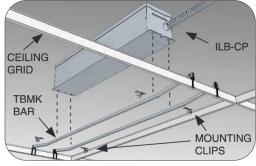
EM MODE OUTPUT (DELIVERED LUMENS)		
LUMEN ORDERING CODE EM7		
ALL OPTIONS (07LM TO 10LM)	670	
Notes: Based on 24K, 90CRI		

REMOTE EM BATTERY (REMOTE TEST SWITCH)



Accessory

76066 Optional T-Grid Mounting Kit



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

v.4.21.25



PROJECT INFORMATION JOB NAME ORDERING CODE

AWNR OPTIONS

Athena Wireless Node

The Athena wireless node is a radio frequency (RF) device that enables simple, digital control of individual light fixtures in an Athena control system.





AWNR

Plenum rated and can be installed above the ceiling for wireless control of a fixture without any impact on fixture aesthetics.

Athena Wireless Node RF

FEATURES

- Enables individual, wireless control of each fixture in an Athena control system. Accommodates zone and control changes without rewiring.
- Installed at factory no wiring required on-site. Fixture is ready to communicate wirelessly once power is connected.
- All drivers on the link are controlled as a single zone.

REGULATORY APPROVALS

- cULus Listed (UL916)
- Complies with requirements for use in other spaces used for environmental air (plenums) per NEC° 2014 300.22(C)(3).
- FCC compliant with the limits for a Class B digital device.
- IC (Industry Canada)
- ANSI C137.1 0-10 V- Electronic Off

POWER / LOAD

- IEC SELV/NEC® Class 2
- ■1 Watt

ENVIRONMENTAL

 Ambient operating temperature (immediate vicinity of Athena wireless node): 32 °F to 131 °F (0 °C to 55 °C), 0% to 90% humidity.

BATTERY OPTIONS

For EM options please consult factory.

Note: Default behavior prior to programming

- Light level 100%
- Athena wireless node performs an unprogrammed startup sequence on every power up until the device is added to an Athena system.
- Each Athena wireless node should be installed within 25 ft (7.62 m) of two or more Athena wireless nodes or other Clear Connect -Type X devices.
- For Chicago plenum installations, the Athena wireless node may not be installed in the plenum space. It must be installed in the occupied space.

For servicing the driver/j-box, access above ceiling is required. (NC Mounting)

> IC/ICAT/CP not available in AWNR.

NU1RD