alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

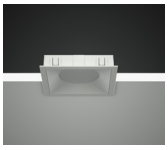
NU1

1" Square Deep Regress Warm Dim

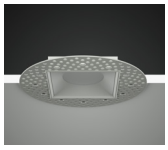
NSF · AT airtight · PR plenum rated · wet rated

25° - 45° BEAM (Note: Specifications are subject to change without notice)			
9mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
05LM	440LM @30K/97CRI	175mA	6.5W
07LM	680LM @30K/97CRI	275mA	10W
Notes	Delivered lumens based on 45D optic with no lens, (see page 2)		





Trim



Trimless



Trimless Millwork

FEATURES

- 3/4" bezel regress with 1/16" micro flange
- 25° - 45° optical beam control
- UGR < 19
- Up to 60 LPW
- Glare control, specialty optics, trim options, and custom finishes available
- Microban® antimicrobial finish available on all exposed painted surfaces

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 3 for details.
- Refer to DX remote panels for additional options.

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

LED

- Luminus Dim-to-warm COB:
  97 CRI: SDCM = 3-step MacAdam Ellipse, Lumen Maintenance: L_{70} > 54,000 hrs

LISTING

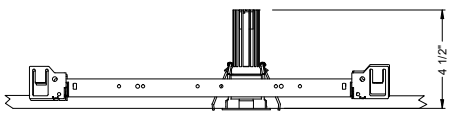
- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- **Declare.** - LBC Red List Approved
- 5 Year Limited warranty

ELECTRICAL

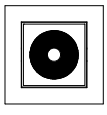
- Low voltage luminaire: 36Vdc nominal
- 05LM - 175mA
- 07LM - 275mA

FIXTURE HEIGHT

LED LIGHT ENGINE: 05LM - 07LM

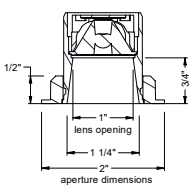


TRIMMED

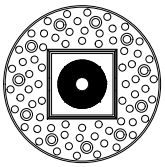


ceiling cutout
1-3/4" square

ceiling thickness
1/8" to 1 1/2"

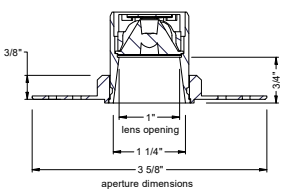


TRIMLESS



ceiling cutout
1-3/4" square

ceiling thickness
1/8" to 1 1/2"

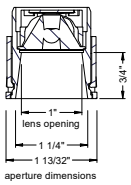


MILLWORK



ceiling cutout
1-7/16" square

ceiling thickness
1/8" to 1 1/2"



101237

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE

SERIES	**NU1**	NU1	
TYPE	**QDDR**	square downlight deep regress	
	QDTDR	square downlight trimless deep regress	
	QDTMWDR	square downlight trimless millwork deep regress	
LED	**WD**	warm dim (Luminus)	
DELIVERED LUMENS	**05LM**	440 lm	
	07LM	680 lm	
	Standard Configuration: 3000K 97CRI 45D, **NL**		
	Calculated Delivered Lumens = [Delivered Lumen Value] x [Optic Multiplier] x [Lens Multiplier]		
CCT	**3018**	3000K, dim to 1800K	

CCT at Light Level (%LF)

%LF	07LM	05LM
100%	3000	3000
50%	3000	3000
25%	2800	2800
10%	2200	2200
5%	1800	1800

CRI	**97**	97 CRI	
OPTIC & LM MULTIPLIER SEE PAGE 6	**25D**[1]	25 degrees	(0.88)
	35D	35 degrees	(0.90)
	40D	40 degrees	(0.92)
	45D	45 degrees	(1.00)
BEZEL LENS SEE PAGE 5	**NL**[2]	no lens	(1.00)
	CL	clear lens	(0.92)
	DL	diffused lens	(0.80)
	HCL	honeycomb louver	(0.58)
	HET	high efficiency textured lens, similar to Solite™	(0.90)
	SBL	smoothing beam lens	(0.91)
	Maximum 2pcs of media per fixture.		
TRIM COLOR SEE PAGE 5	**BK**	black	
	WH	white	
	MC	matte chrome	
	BZ	bronze	
	CC[3]	custom color, consult factory for details	
	Antimicrobial finish, add **AM** to black, white or matte chrome i.e. BKAM.		
	Not applicable to trimless option. Do not include in trimless ordering code.		
BEZEL COLOR SEE PAGE 5	**BK**	black	(0.98)
	WH	white	(1.00)
	MC	matte chrome	(0.99)
	BZ	bronze	(0.98)
	CC[3]	custom color, consult factory for details	
	Antimicrobial finish, add **AM** to black, white or matte chrome i.e. BKAM.		

ORDERING CODE

MOUNTING OPTIONS SEE PAGE 7, 8	**NC**	new construction plate
	NCINH[4]	new construction with ceiling fitting plate, IC rated, inherently protected
	IC[5, 6]	insulation contact housing
	ICAT[5, 6]	insulation contact/airtight housing
	CP[5, 6]	chicago plenum housing
	RET	retrofit, no ceiling plate
	RETINH[4]	retrofit, no ceiling fitting plate, IC rated, inherently protected
	remote driver only	
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 - QDDR - WD - 07LM - 3018 - 97 - 25D - HET - WH - WH - NC - LVL - ND

NOTES

1. 25D available with DL, HET lens option.
2. NL option does not meet requirements for AT/WET/NSF listings.
3. Custom set up fee plus minimum quantity required per color.
4. NCINH, RETINH available in 05LM.
5. IC/ICAT/CP not available in 07LM.
6. IC/ICAT/CP not available in QDDRTMW.

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			

REMOTE DRIVER - ORDERING CODE		
SERIES	DX-C	compact driver box
NUMBER OF DRIVERS	1-5	number of drivers, 1-5
CURRENT	175	175mA
	275	275mA
VOLTAGE	120	120V
	UNV	120V-277V
DIMMING	DIM10	eldoLED flicker free 0-10V dim to 1%
	DIM10Z	eldoLED flicker free 0-10V dim 0.1%
	DALI	eldoLED flicker free DALI-2 dim to 1%
	DALIZ	eldoLED flicker free DALI-2 dim to 0.1%
	DMX-RJ45[1]	DMX control dimming to 0.1% with RJ45 connection
	DMX-WL[1]	DMX-512/RDM dim to 0% with lead wire input
	DMX-XLR[1]	DMX-512/RDM dim to 0% with XLR input
	LUT	Lutron Hi-lume Ecosystem dimming to 1%, Soft-on & Fade-to-Black
	LUTP	Lutron Hi-Lume Eco (fade) dim to 0.1%
	ELV1[2]	leading edge & trailing edge (Triac/ELV) dim to 1%
	NLT	nLight control interface: Cat-5/RJ45, 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 - 275 - 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 10. 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.

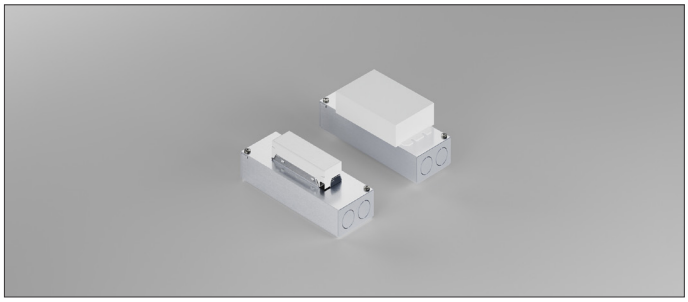
* EldoLED uses logarithmic dimming curve as standard. For linear dimming curve, add "LIN" after dimming code, i.e. DIM10LIN.

25° - 45° BEAM (Note: Specifications are subject to change without notice)		
9mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
05LM	440LM @30K/97CRI	8W
07LM	680LM @30K/97CRI	12W
Notes	Delivered lumens based on 45D optic with no lens, (see page 2)	

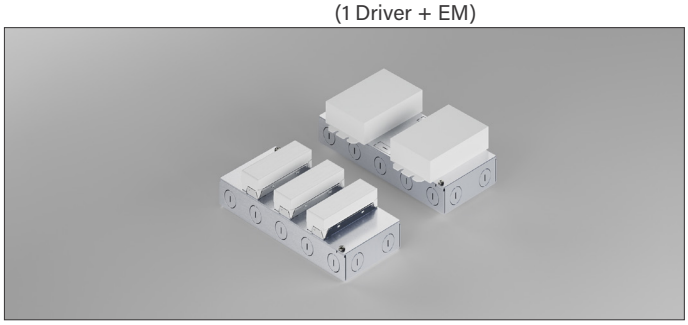
ELECTRICAL/CONTROLS

- 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

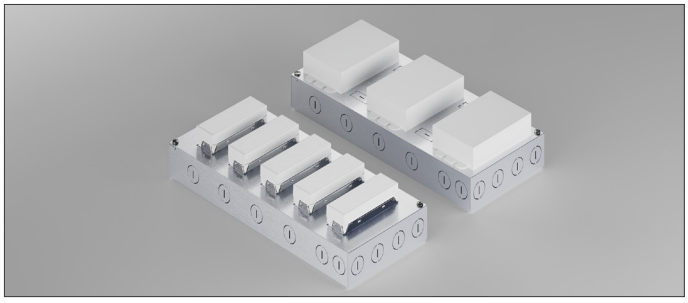
REMOTE SINGLE DRIVER BOX



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)

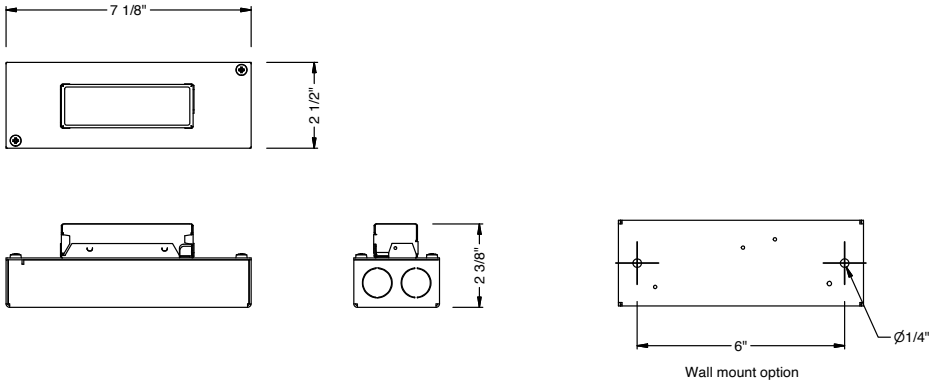


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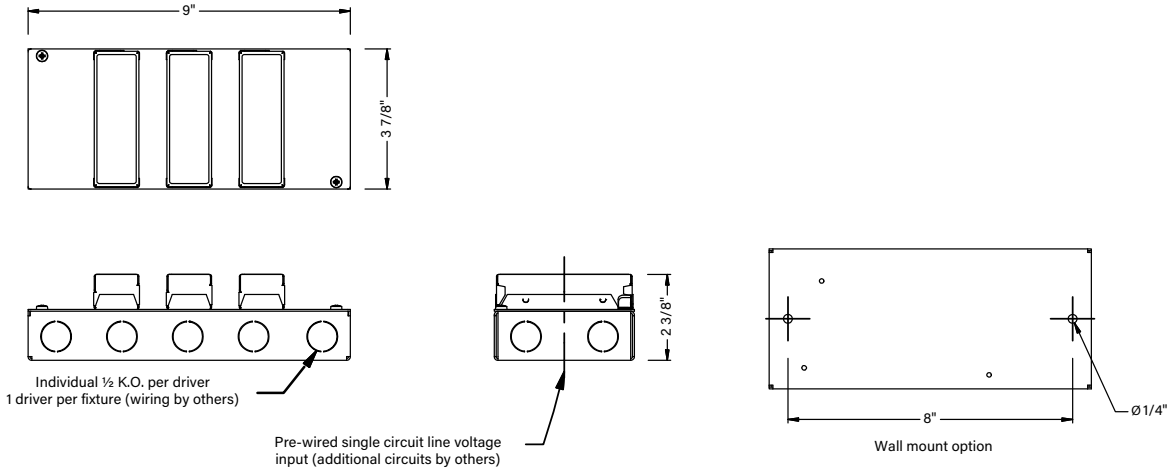
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

DRIVER BOXES

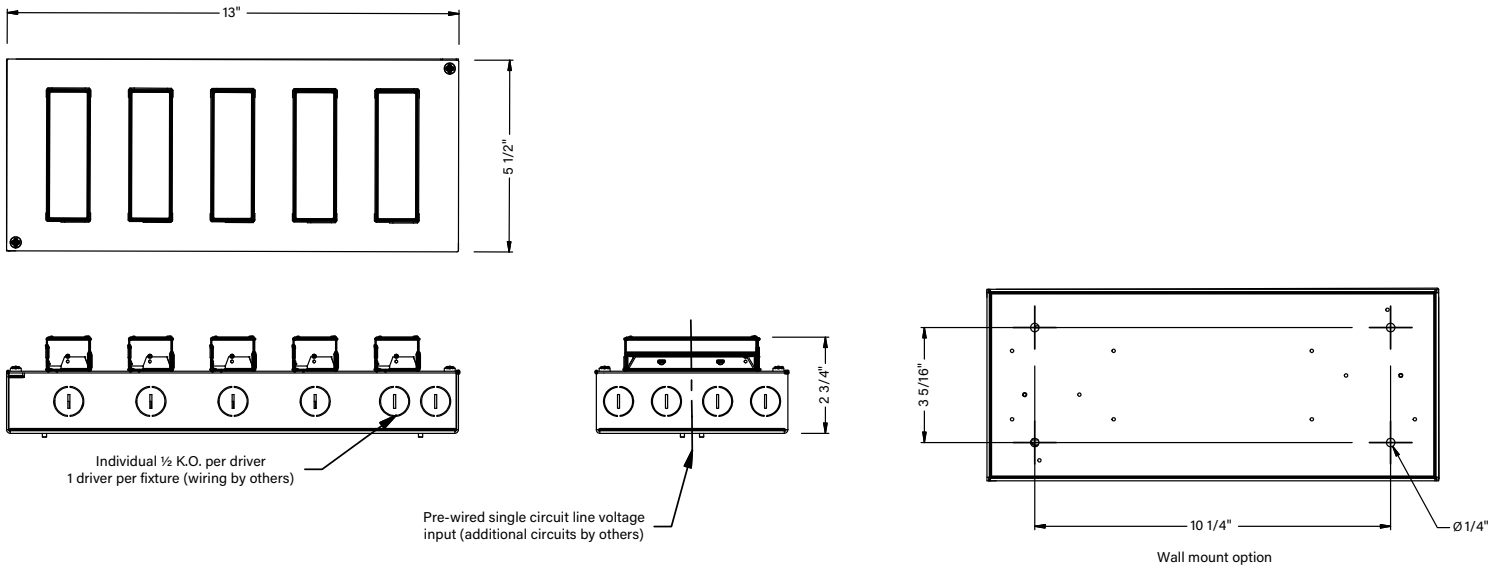
REMOTE SINGLE DRIVER BOX



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



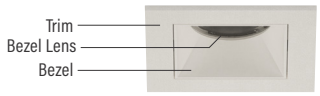
REMOTE 4 TO 5 DRIVER BOX (3 Drivers for DIM10Z/DALI/DALIZ/LUT/LUTP)



PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

TRIM OPTIONS

TRIM/BEZEL COLORS





WH



MC



BK

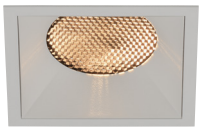
BZ

OPTICAL OPTIONS

- UGR calculation based on CIE 117-1995; room size: 4H X 8H, reflectance: 70/50/20;
- UGR calculation based on 07LM BK bezel fixtures, unless otherwise noted.

HCL

Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
35D	30.5	11.1
40D	34.9	15.5
45D	35	16.5

NL

No Lens



OPTIC	BEAM ANGLE	UGR
35D	35	15
40D	40.5	17.1
45D	44.2	20.3

CL

Clear Lens



OPTIC	BEAM ANGLE	UGR
35D	34	14.5
40D	40	16.7
45D	43.1	20

DL

Diffused Lens



OPTIC	BEAM ANGLE	UGR
25D	36.4	15.5
35D	41.7	18.7
40D	43.2	19.5
45D	47.9	21.8

HET

High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
25D	27.2	10.8
35D	35	14.5
40D	38.9	18
45D	43.1	19.8

SBL

Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
25D	26.5	10.8
35D	34	14.7
40D	39.5	18
45D	42.8	20

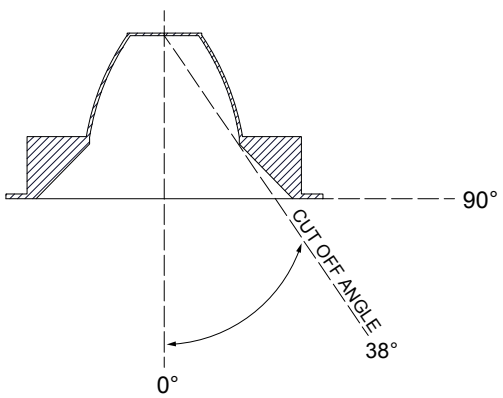
GLARE CONTROL

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°

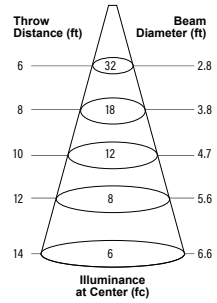


alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

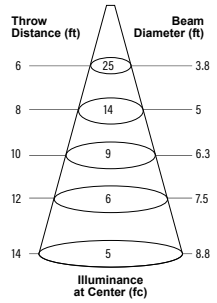
25D 25° WITH SBL LENS



WATTS: 6.5	LPW: 53.9
LUMENS: 350	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1153
5	1099
15	458
25	110
35	37
45	24

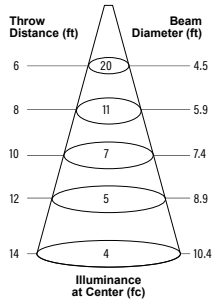
35D 35° WITH NO LENS



WATTS: 6.5	LPW: 60.7
LUMENS: 394	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	886
5	846
15	549
25	174
35	45
45	27

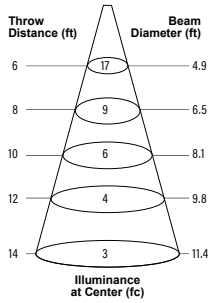
40D 41° WITH NO LENS



WATTS: 6.5	LPW: 62.2
LUMENS: 405	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	702
5	691
15	537
25	218
35	61
45	28

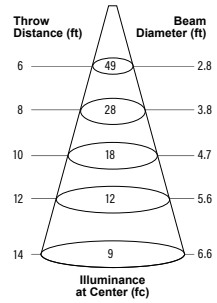
45D 44° WITH NO LENS



WATTS: 6.5	LPW: 68.4
LUMENS: 444	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	599
5	583
15	454
25	248
35	118
45	48

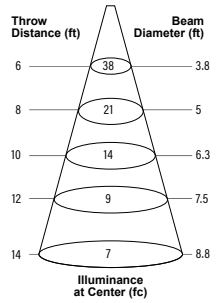
25D 25° WITH SBL LENS



WATTS: 10	LPW: 53.8
LUMENS: 538	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1772
5	1689
15	704
25	169
35	57
45	37

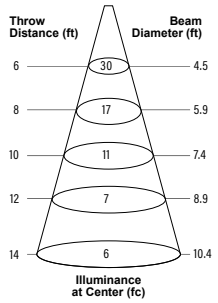
35D 35° WITH NO LENS



WATTS: 10	LPW: 60.6
LUMENS: 606	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1362
5	1301
15	844
25	267
35	69
45	41

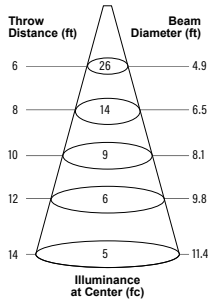
40D 41° WITH NO LENS



WATTS: 10	LPW: 62.2
LUMENS: 622	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1080
5	1063
15	826
25	335
35	94
45	43

45D 44° WITH NO LENS



WATTS: 10	LPW: 68.3
LUMENS: 683	CCT: 3000K

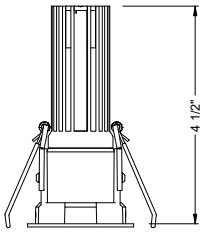
INTENSITY	
DEGREE	CANDELA
0	921
5	896
15	698
25	382
35	181
45	73

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

FIXTURE HEIGHT

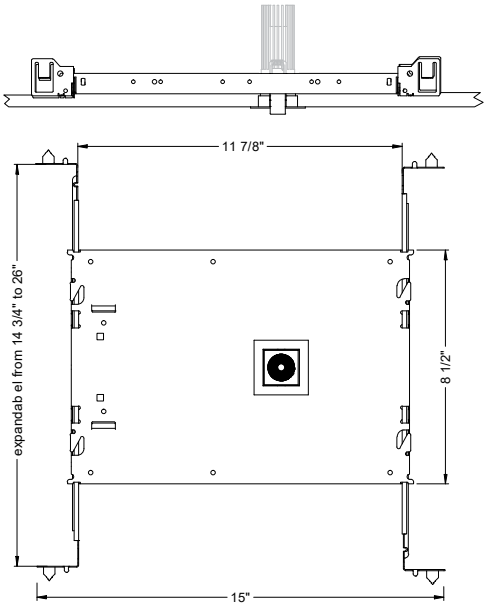
LED LIGHT ENGINE: 05 - 07LM



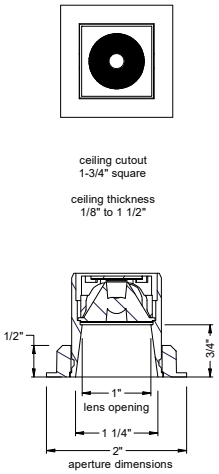
TRIMMED, TRIMLESS & MILLWORK

NC - NEW CONSTRUCTION

TRIM

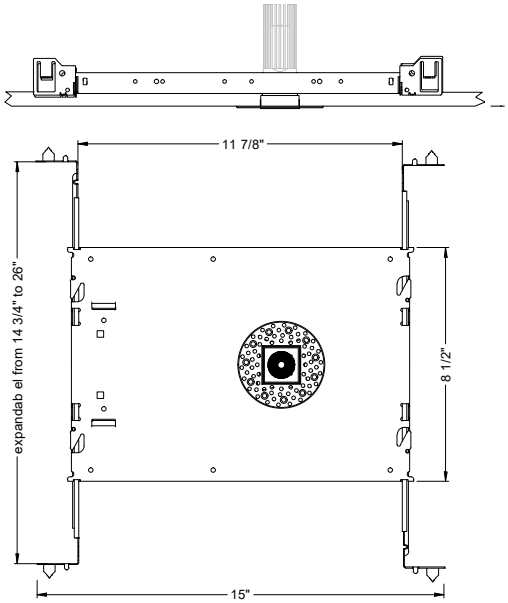


TRIM

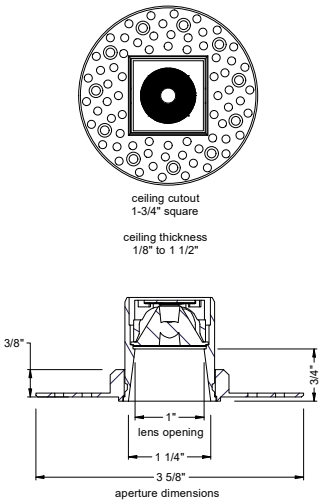


ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	*Extends a pair of Bar Hangers* Total Mounting Length: 29" to 48"

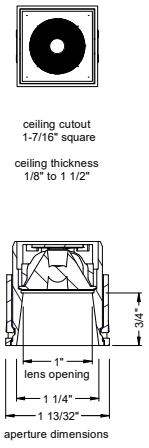
TRIMLESS



TRIMLESS



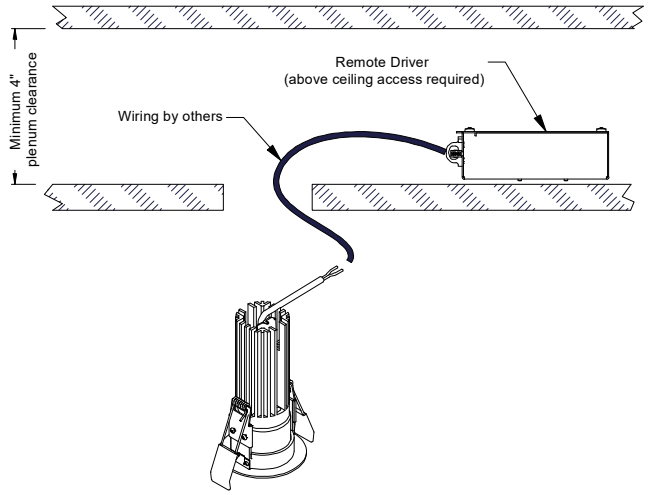
TRIMLESS/MILLWORK



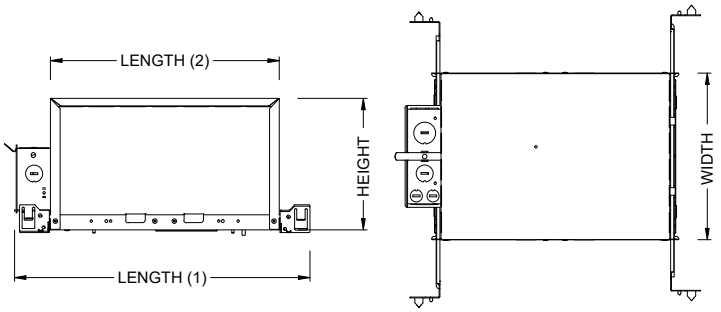
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

RET - RETRO
TRIM/TRIMLESS



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

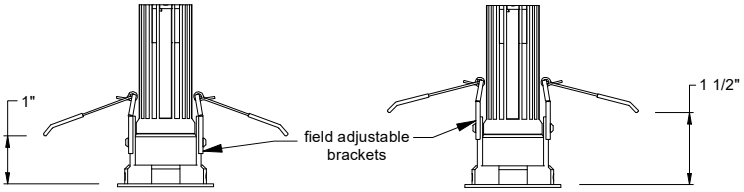


BOX SIZE	L1	L2	W	H
A	15 - 7/16"	11 - 3/4"	8 - 1/2"	6 - 3/4"

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

BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS			
LUMEN OUTPUT	BOX-A		
	CP	IC	ICAT
05LM	✔	✔	✔
07LM			

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



1/8" to 1" thick ceiling

1" to 1-1/2" thick ceiling

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

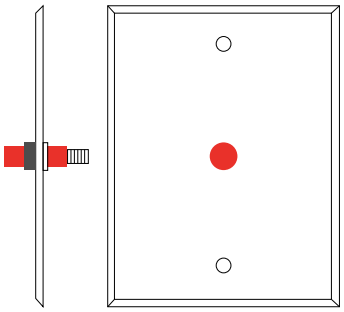
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

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

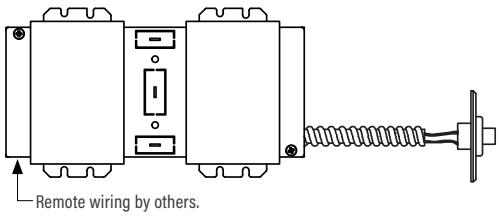
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



Remote Test Switch

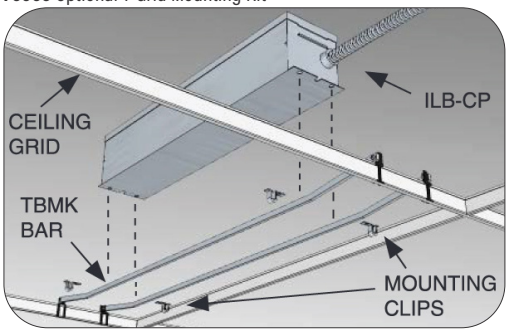
EM MODE OUTPUT (DELIVERED LUMENS)	
LUMEN ORDERING CODE	EM7
ALL OPTIONS (05LM TO 07LM)	450
Notes:Based on 30K, 97CRI	

REMOTE 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.

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			

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.



Athena Wireless Node RF

OEM ADVANTAGE LUTRON

AWNR

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

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.