alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

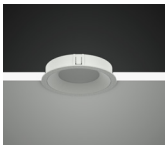
NU1

1" Round Adjustable Warm Dim

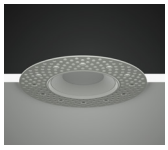
NSF · AT airtight · PR plenum rated · wet rated

30° - 55° BEAM (Note: Specifications are subject to change without notice)			
6mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
05LM	470LM @30K/97CRI	175mA	6.5W
07LM	730LM @30K/97CRI	275mA	10W
Notes	Delivered lumens based on 55D optic with no lens, (see page 2)		





Trim



Trimless



Trimless Millwork

FEATURES

- True 30° Tilt with <6% beam disruption (clipping)
- Zero ceiling line obstruction at Full Tilt
- Concentric Tilt Tracking ensures minimal light loss
- 30° - 55° optical beam control
- UGR < 19
- 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 dimming to 0% and 1%
- Lutron Hi-lume 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, see page 8

LED

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

LISTING

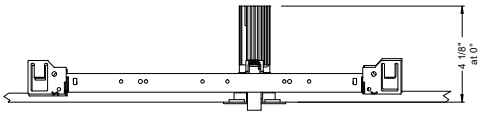
- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP44 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- **Declare.** - LBC Red List Approved
- 5 Year Limited warranty

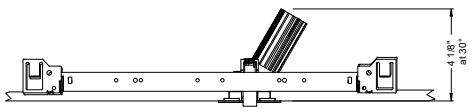
ELECTRICAL

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

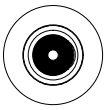
FIXTURE HEIGHT

LED LIGHT ENGINE: 05LM - 07LM



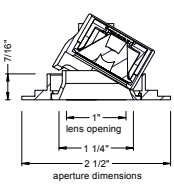


TRIMMED



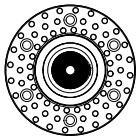
ceiling cutout
2-1/8" diameter

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



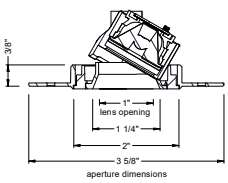
aperture dimensions

TRIMLESS



ceiling cutout
2-1/8" diameter

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



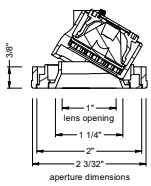
aperture dimensions

MILLWORK



ceiling cutout
2-1/8" diameter

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



aperture dimensions

101250

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE			
SERIES	NU1	NU1	
TYPE	RA	round adjustable	
	RAT	round adjustable trimless	
	RATMW	round adjustable trimless millwork	
LED	WD	warm dim (Luminus)	
DELIVERED LUMENS	05LM	470 lm	
	07LM	730 lm	
	Standard Configuration: 3000K 97CRI 55D, **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	30D[1]	30 degrees	(0.84)
	40D	40 degrees	(0.84)
	45D	45 degrees	(0.86)
	55D	55 degrees	(1.00)
TIR OPTIC ACCESSORY SEE PAGE 5	NA	no accessory	(1.00)
	HCL	honeycomb louver	(0.61)
	HETA	high efficiency textured lens, similar to Solite™	(0.88)
	EA[2]	elliptical lens	(0.76)
	Maximum 2pcs of media per fixture.		
BEZEL LENS SEE PAGE 5	NL[3]	no lens	(1.00)
	CL	clear lens	(0.78)
	DL	diffused lens	(0.76)
	HET	high efficiency textured lens, similar to Solite™	(0.78)
	SBL	smoothing beam lens	(0.78)
TRIM COLOR SEE PAGE 5	BK	black	
	WH	white	
	MC	matte chrome	
	BZ	bronze	
	CC[4]	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[4]	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[5]	new construction with ceiling fitting plate, IC rated, inherently protected
	IC[6]	insulation contact housing
	ICAT[6]	insulation contact/airtight housing
	CP[6]	chicago plenum housing
	RET	retrofit, no ceiling plate
	RETINH[5]	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 - RA - WD - 07LM - 3018 - 97 - 30D - NA - HET - WH - WH - NC - LVL - ND

NOTES

1. 30D available with HETA, EA, DL, HET lens option.
2. Elliptical beam distributions [30D= 40° x 60° , 40D= 45° x 65° , 45D= 50° x 65° , 55D= 55° x 70°]
3. NL option does not meet requirements for AT/WET/NSF listings. Bezel lensing cannot be added in the field.
4. Custom set up fee plus minimum quantity required per color.
5. NCINH, RETINH available in 05LM.
6. IC/ICAT/CP not available in 07LM.

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

alphabet

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.

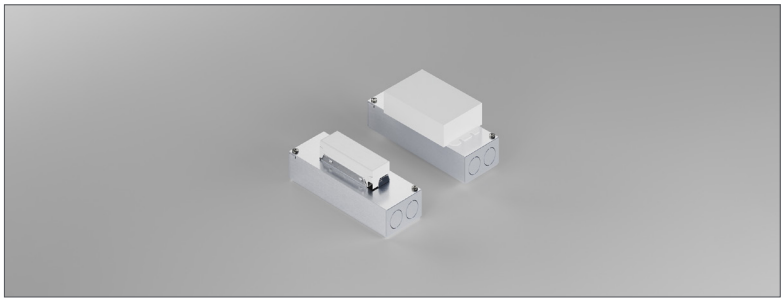
* EldoLED uses logarithmic dimming curve as standard. For linear dimming curve, add "LIN" after dimming code, i.e. DIM10LIN.

30° - 55° BEAM (Note: Specifications are subject to change without notice)		
6mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
05LM	470LM @30K/97CRI	8W
07LM	730LM @30K/97CRI	12W
Notes	Delivered lumens based on 55D optic with no lens, (see page 2)	

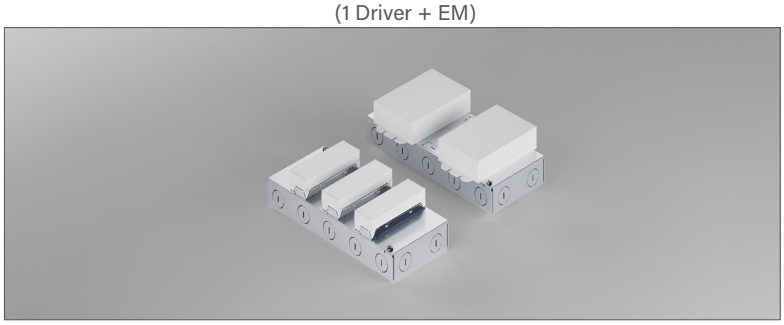
ELECTRICAL/CONTROLS

- 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

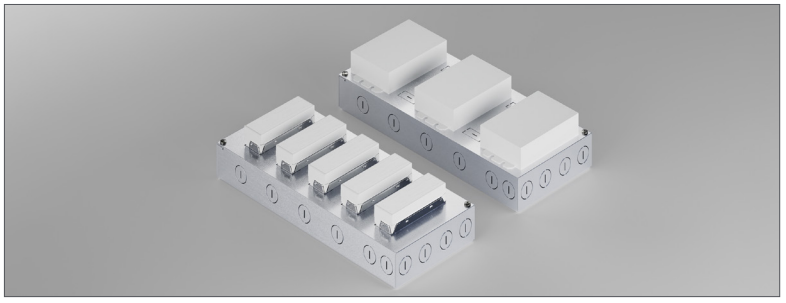
REMOTE SINGLE DRIVER BOX



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)



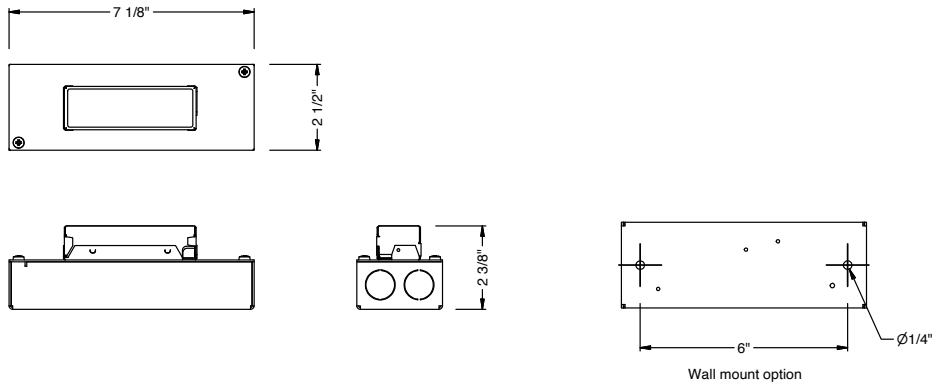
101250

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.

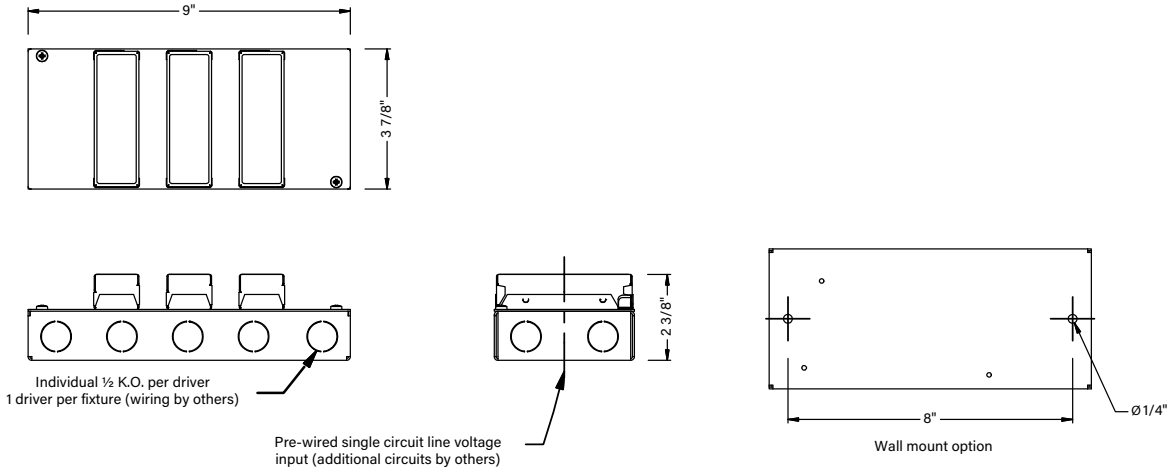
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

DRIVER BOXES

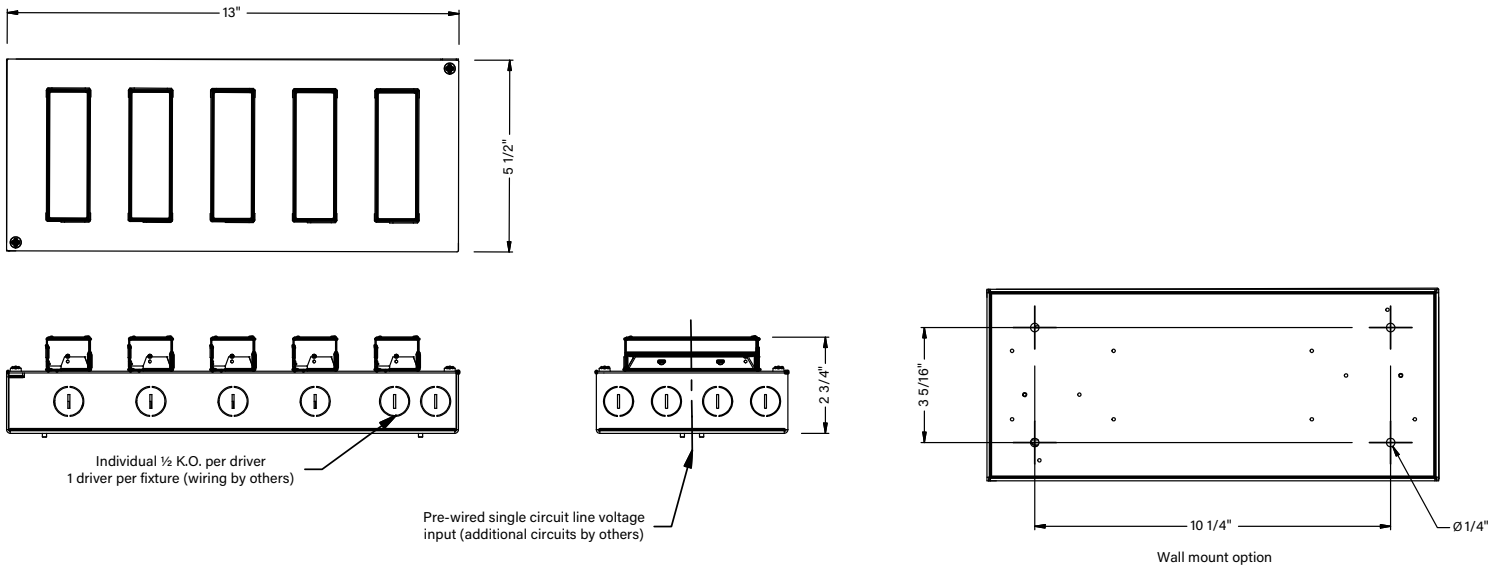
REMOTE SINGLE DRIVER BOX



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)

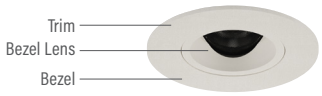


101250

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

TRIM OPTIONS

TRIM/BEZEL COLORS



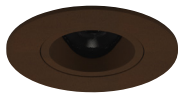
WH



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 05LM WH fixtures, unless otherwise noted.

HCL
Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
40D	33	14.8
45D	40	15.3
55D	43	19.1

NL
No Lens



OPTIC	BEAM ANGLE	UGR
40D	39	20
45D	46	20.4
55D	53	23.8

CL
Clear Lens



OPTIC	BEAM ANGLE	UGR
40D	35	18.5
45D	42	19.1
55D	47	23

DL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
30D	40	22.3
40D	45	22.8
45D	49	23.7
55D	56	26.6

HET
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
30D	30	18.9
40D	40	20
45D	45	20.6
55D	52	23.7

SBL
Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
30D	26	17.9
40D	35	18.6
45D	42	19.3
55D	47	23.1

EA
Elliptical Lens



OPTIC	BEAM ANGLE	UGR
30D	43x59	21x24
40D	48x64	22x25
45D	50x64	23x25
55D	57x70	24x27

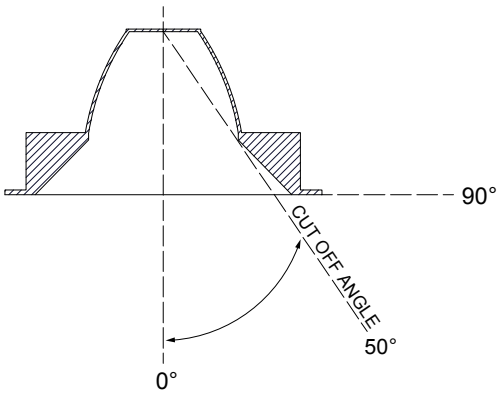
GLARE CONTROL

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 NL and CL is 50 degrees;

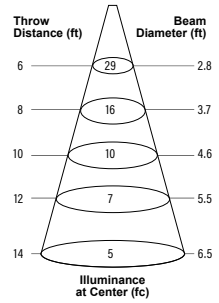


alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

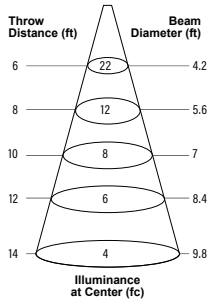
30D 26° WITH SBL LENS



WATTS: 6.5	LPW: 45.9
LUMENS: 298	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1046
5	964
15	408
25	112
35	35
45	13

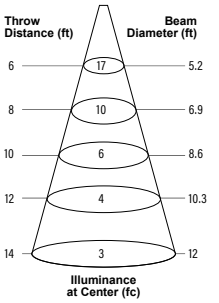
40D 39° WITH NO LENS



WATTS: 6.5	LPW: 61
LUMENS: 397	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	799
5	772
15	539
25	226
35	60
45	19

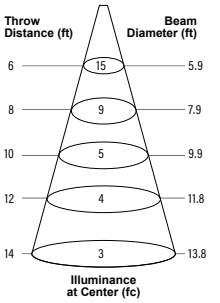
45D 46° WITH NO LENS



WATTS: 6.5	LPW: 62.7
LUMENS: 407	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	630
5	625
15	532
25	263
35	73
45	22

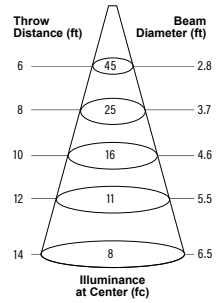
55D 53° WITH NO LENS



WATTS: 6.5	LPW: 73
LUMENS: 474	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	546
5	536
15	456
25	296
35	146
45	57

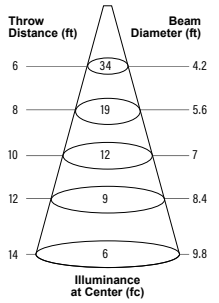
30D 26° WITH SBL LENS



WATTS: 10	LPW: 45.9
LUMENS: 459	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1608
5	1483
15	627
25	173
35	54
45	20

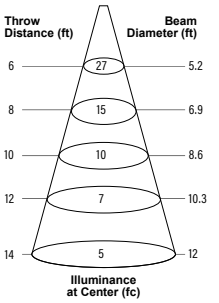
40D 39° WITH NO LENS



WATTS: 10	LPW: 61
LUMENS: 610	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1228
5	1188
15	829
25	347
35	92
45	30

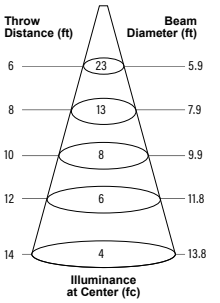
45D 46° WITH NO LENS



WATTS: 10	LPW: 62.6
LUMENS: 626	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	968
5	960
15	818
25	405
35	112
45	34

55D 53° WITH NO LENS



WATTS: 10	LPW: 72.9
LUMENS: 729	CCT: 3000K

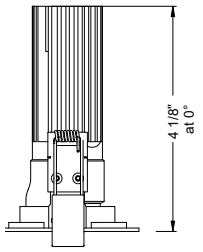
INTENSITY	
DEGREE	CANDELA
0	840
5	824
15	701
25	455
35	225
45	88

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

FIXTURE HEIGHT

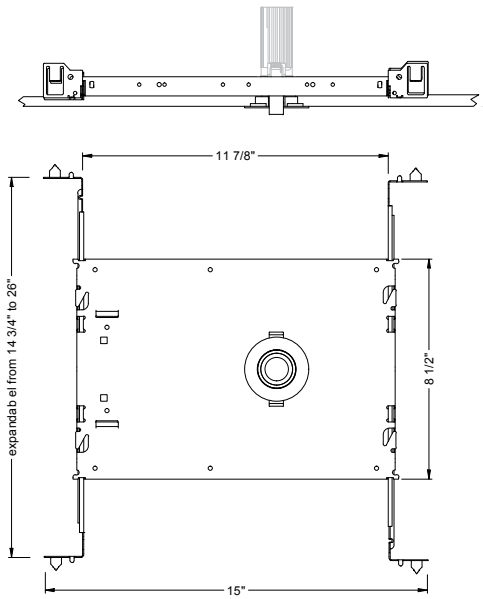
05LM - 07LM LOW LUMENS



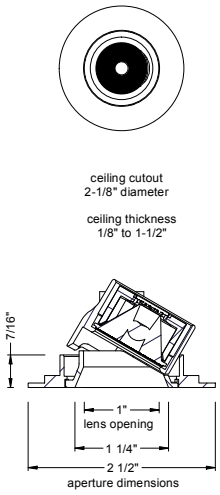
TRIMMED, TRIMLESS &
MILLWORK

NC - NEW CONSTRUCTION

TRIM

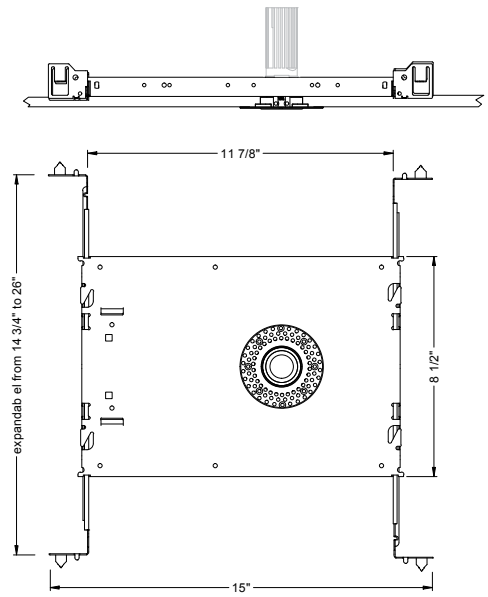


TRIM

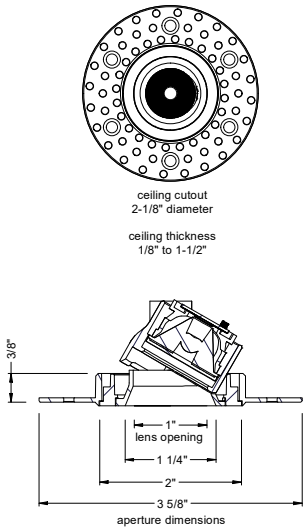


ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	*Extends a pair of Bar Hangers* Total Mounting Length: 29" to 48"

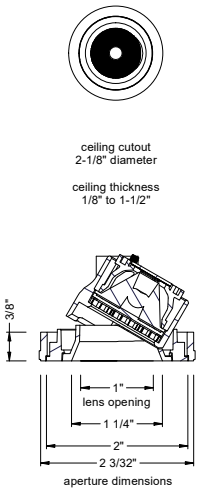
TRIMLESS



TRIMLESS



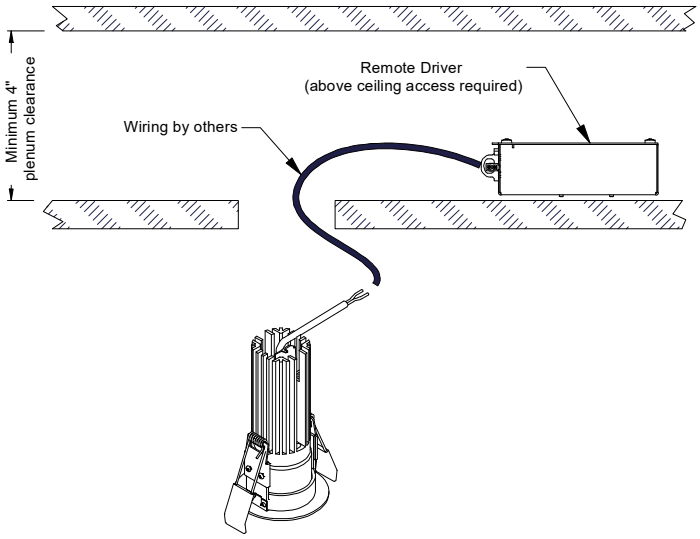
TRIMLESS/MILLWORK



PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

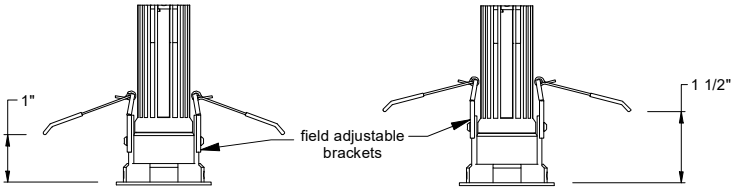
MOUNTING OPTIONS

RET - RETRO
TRIM/TRIMLESS



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

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"	2-1/8" diameter
TRIMLESS	1/8" to 1.0"	1.0" to 1 1/2"	2-1/8" diameter
MILLWORK (TRIMLESS)	1/8" to 1.0"	1.0" to 1 1/2"	2-1/8" diameter

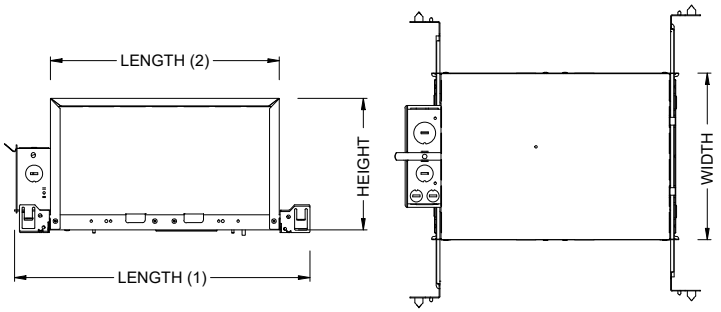


1/8" to 1" thick ceiling

1" to 1-1/2" thick ceiling

FIXTURE TILT INFO	
TILT	CEILING THICKNESS
0° TO 30°	1/8" to 1.0"
0° TO 20°	1.0" to 1 1/2"

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"

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

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

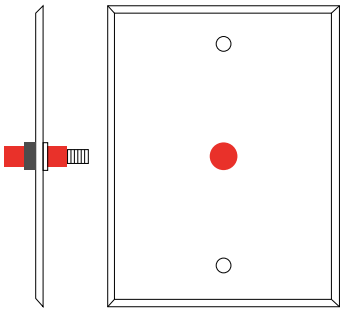
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

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

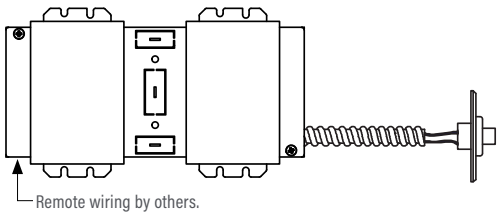
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



Remote Test Switch

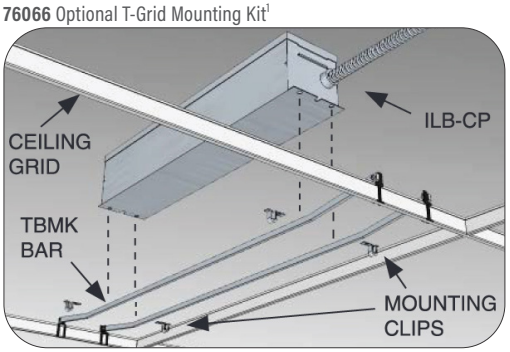
EM MODE OUTPUT HEAD	
LUMEN ORDERING CODE	EM7
ALL OPTIONS (05LM TO 07LM)	450
Notes: Based on 30K, 97CRI	

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.

101250