alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

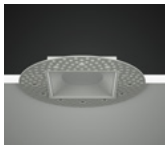
NU1

1" Square Downlight Warm Dim

NSF · AT airtight · PR plenum rated · wet rated

30° - 60° BEAM (Note: Specifications are subject to change without notice)			
9mm COB PERFORMANCE DATA			
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	DRIVE CURRENT	LED WATTAGE
05LM	530LM @30K/97CRI	175mA	6.5W
07LM	820LM @30K/97CRI	275mA	10W
Notes	Delivered lumens based on 60D optic with no lens, (see page 2)		

Trim



Trimless

Trimless Millwork

FEATURES

- 3/8" bezel regress with 1/16" micro flange
- 30° - 60° optical beam control
- UGR < 19
- Up to 70 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

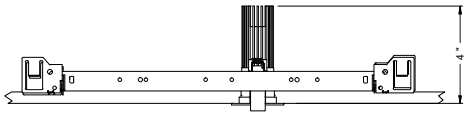
- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP44 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- 5 Year Limited warranty

ELECTRICAL

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

FIXTURE HEIGHT

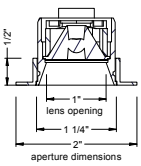
LED LIGHT ENGINE: 05LM - 07LM



TRIMMED

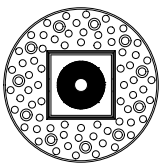
ceiling cutout
1-3/4" square

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



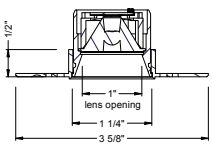
aperture dimensions

TRIMLESS



ceiling cutout
1-3/4" square

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

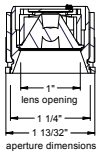


aperture dimensions

MILLWORK

ceiling cutout
1-7/16" square

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



aperture dimensions

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PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE

SERIES	**NU1**	NU1	
TYPE	**QD**	square downlight	
	QDT	square downlight trimless	
	QDTMW	square downlight trimless millwork	
LED	**WD**	warm dim (Luminus)	
DELIVERED LUMENS	**05LM**	530 lm	
	07LM	820 lm	
	Standard Configuration: 3000K 97CRI 60D, **NL**		
	Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] 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	(0.88)
	40D	40 degrees	(0.90)
	50D	50 degrees	(0.91)
	60D	60 degrees	(1.00)
BEZEL LENS SEE PAGE 5	**NL**[2]	no lens	(1.00)
	CL	clear lens	(0.92)
	DL	diffused lens	(0.83)
	E[3]	elliptical beam spread	(0.81)
	HCL	honeycomb louver	(0.60)
	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	
	WT	wheat	
	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)
	WT	wheat	(0.99)
	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 with ceiling fitting plate
	NCINH[5]	new construction with ceiling fitting plate, IC rated, inherently protected
	IC[6, 7]	insulation contact housing
	ICAT[6, 7]	insulation contact/airtight housing
	CP[6, 7]	chicago plenum housing
	RET	retrofit, no ceiling fitting 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 - QD - WD - 07LM - 3018 - 97 - 30D - HET - WH - WH - NC - LVL - ND

NOTES

1. 30D available with E, DL, HET lens option.
2. NL option does not meet requirements for AT/WET/NSF listings.
3. Elliptical beam distributions [30D= 40° x 60° , 30D= 50° x 65° , 50D= 52° x 70° , 60D= 58° x 70°]
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.
7. IC/ICAT/CP not available in QDTMW.

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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 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
	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 Bluetooth 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.

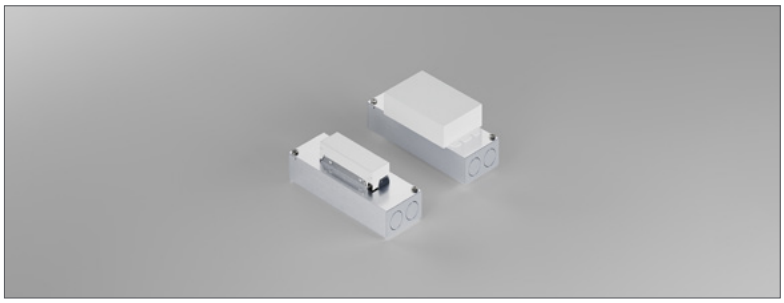
* EldoLED uses logarithmic dimming curve as standard. For linear dimming curve, add "LIN" after dimming code, i.e. DIM10LIN.

30° - 60° BEAM (Note: Specifications are subject to change without notice)		
9mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
05LM	530LM @30K/97CRI	8W
07LM	820LM @30K/97CRI	12W
Notes	Delivered lumens based on 60D optic with no lens, (see page 2)	

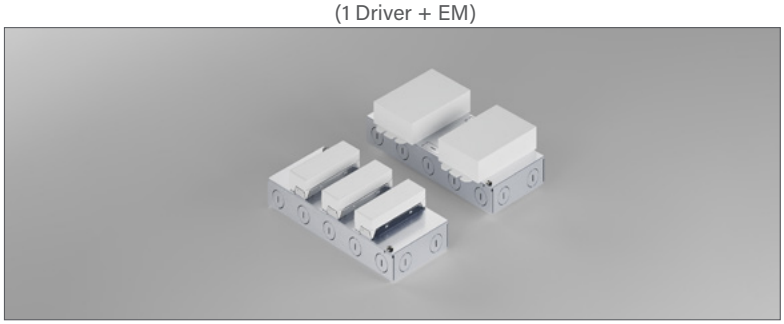
ELECTRICAL/CONTROLS

- 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

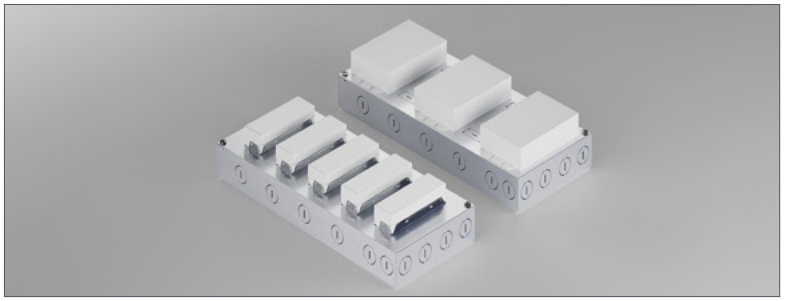
REMOTE SINGLE DRIVER BOX



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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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.

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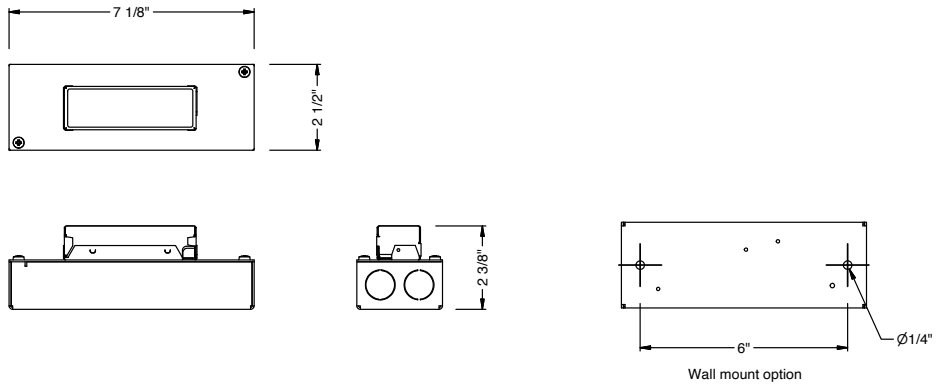
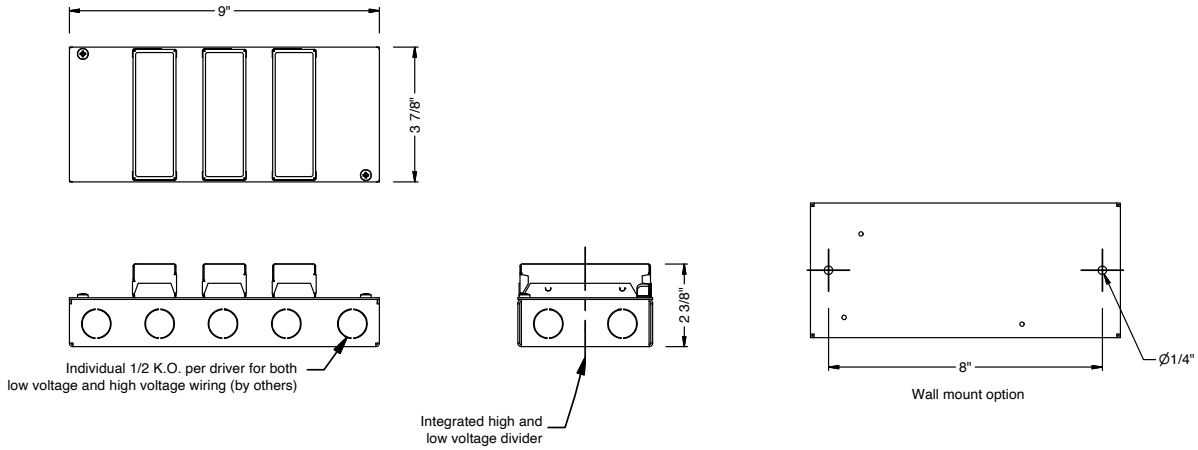
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

DRIVER BOXES

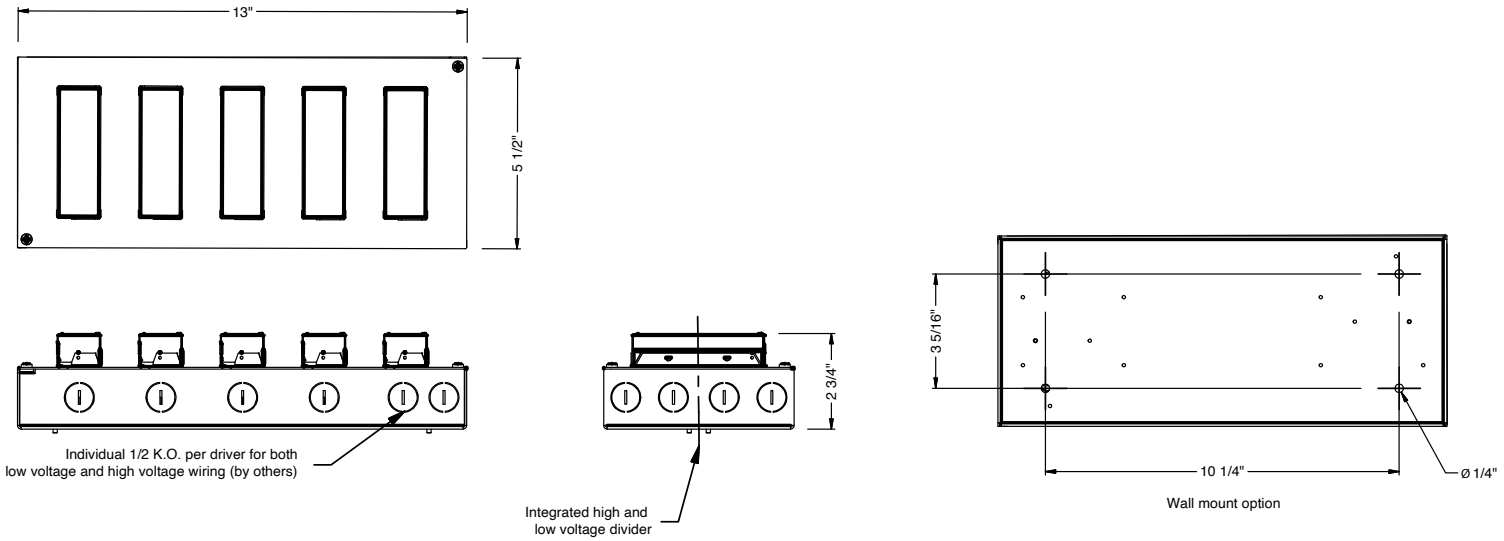
REMOTE SINGLE DRIVER BOX



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)



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PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

TRIM OPTIONS

TRIM/BEZEL COLORS

WH

MC

BK

BZ

WT

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
40D	34	13.8
50D	41.6	15.6
60D	44.5	19.7

NL
No Lens

OPTIC	BEAM ANGLE	UGR
40D	39	18.3
50D	49	20
60D	56	24.8

CL
Clear Lens

OPTIC	BEAM ANGLE	UGR
40D	39	18
50D	48	19.7
60D	55	24.5

DL
Diffused Lens

OPTIC	BEAM ANGLE	UGR
30D	44	21.1
40D	50	23.2
50D	53.6	24.5
60D	61	26

HET
High Efficiency Textured Lens

OPTIC	BEAM ANGLE	UGR
30D	30	15.7
40D	40	18.3
50D	47.4	20
60D	54	24

SBL
Smoothing Beam Lens

OPTIC	BEAM ANGLE	UGR
30D	29	15.7
40D	39	18.3
50D	48	20
60D	54	24

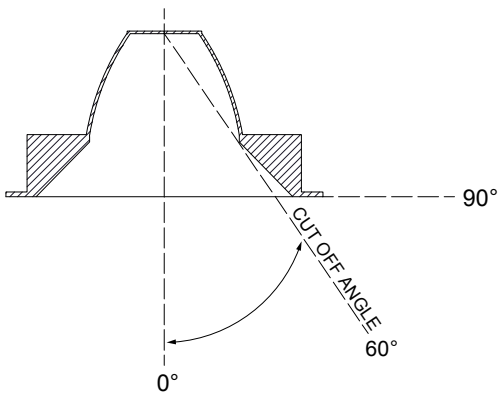
GLARE CONTROL

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 60 degrees;

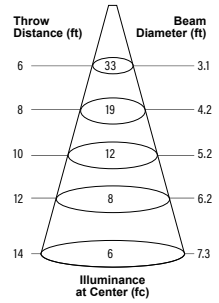


alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

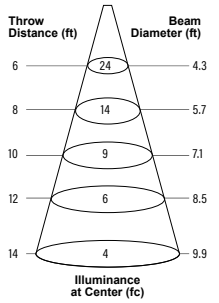
30D 29° WITH SBL LENS



WATTS: 6.5	LPW: 66.1
LUMENS: 429	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1205
5	1187
15	572
25	212
35	54
45	14

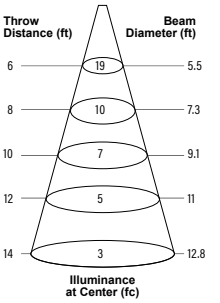
40D 39° WITH NO LENS



WATTS: 6.5	LPW: 74.8
LUMENS: 486	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	867
5	839
15	582
25	286
35	91
45	34

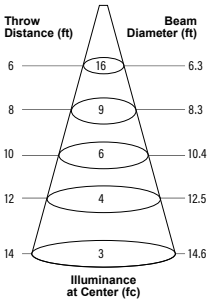
50D 49° WITH NO LENS



WATTS: 6.5	LPW: 75.2
LUMENS: 489	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	670
5	665
15	575
25	321
35	98
45	34

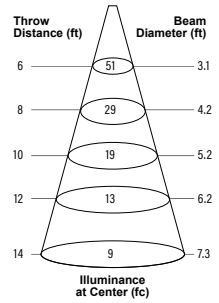
60D 55° WITH NO LENS



WATTS: 6.5	LPW: 82.7
LUMENS: 538	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	574
5	563
15	479
25	334
35	171
45	68

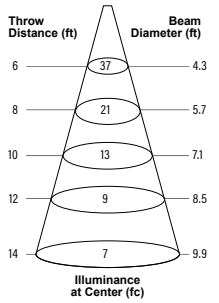
30D 29° WITH SBL LENS



WATTS: 10	LPW: 66
LUMENS: 660	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1853
5	1824
15	879
25	326
35	83
45	21

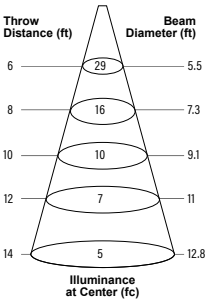
40D 39° WITH NO LENS



WATTS: 10	LPW: 74.7
LUMENS: 747	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1332
5	1290
15	895
25	439
35	140
45	52

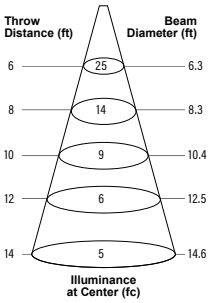
50D 49° WITH NO LENS



WATTS: 10	LPW: 75.2
LUMENS: 752	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1030
5	1022
15	884
25	494
35	151
45	53

60D 55° WITH NO LENS



WATTS: 10	LPW: 82.7
LUMENS: 827	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	882
5	866
15	736
25	514
35	263
45	105

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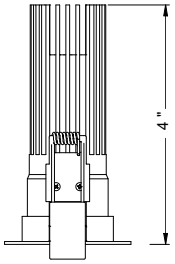
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

FIXTURE HEIGHT

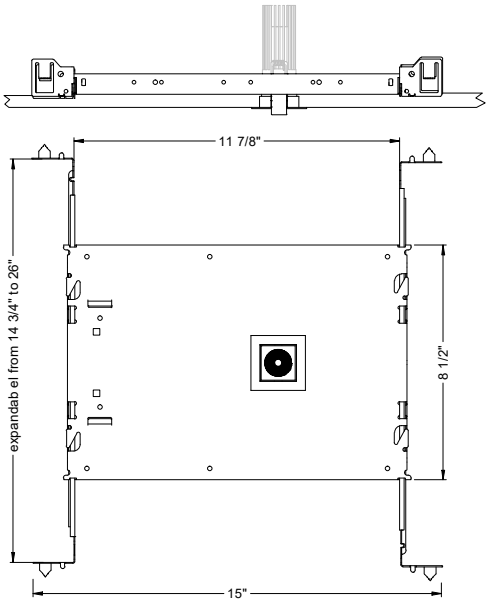
07LM - 15 LM LOW LUMENS



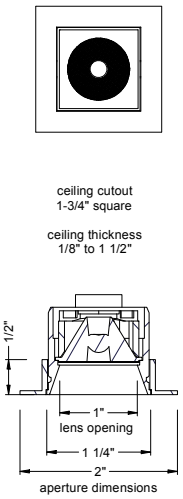
TRIMMED, TRIMLESS & MILLWORK

NC - NEW CONSTRUCTION

TRIM

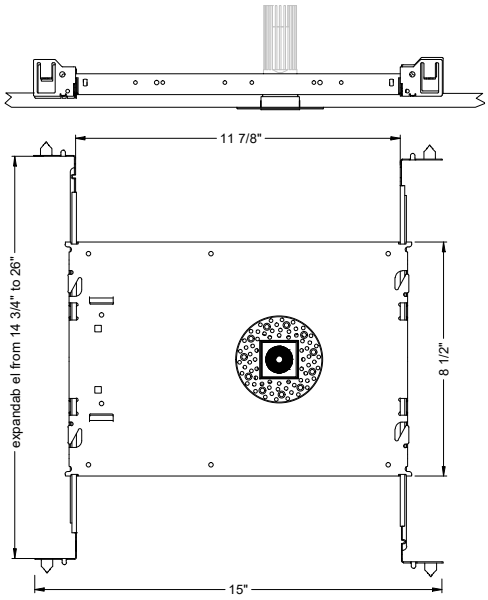


TRIM

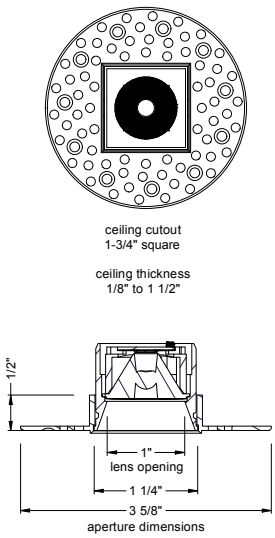


ADDITIONAL MOUNTING INFO	
New Construction Bar Hangers (included)	Mounting Length: 14-3/4" to 26"
Extension Kit p/n: K20266 (ordered separately, 1 per fixture)	*Extends a pair of Bar Hangers* Total Mounting Length: 29" to 48"

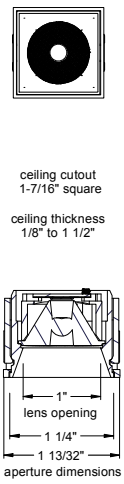
TRIMLESS



TRIMLESS



TRIMLESS/MILLWORK



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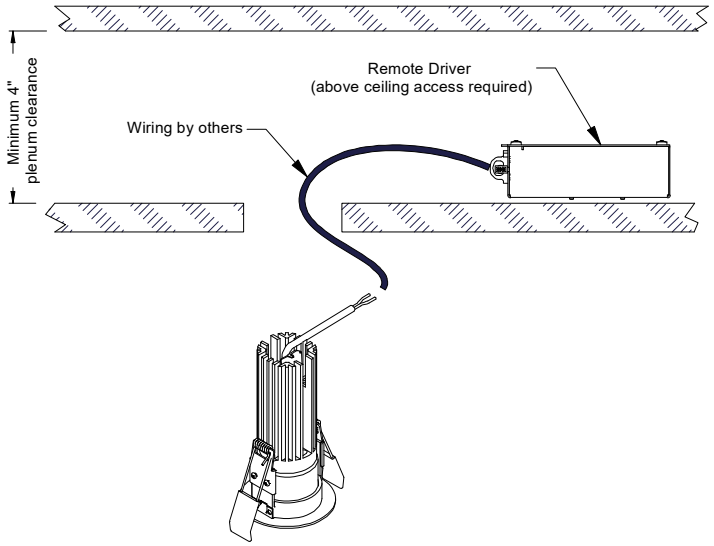
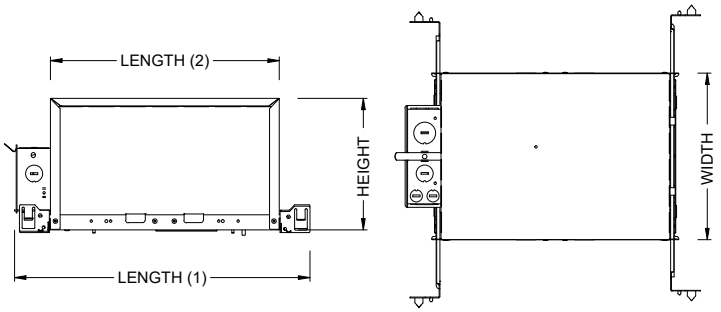
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS

RET - RETRO
TRIM/TRIMLESS



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

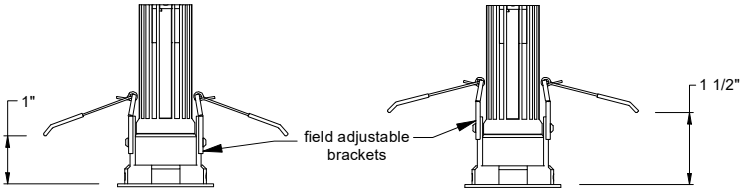


BOX SIZE	L 1	L 2	W	H
A	15 - 7/16"	11 - 3/4"	8 - 1/2"	6 - 3/4"

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

BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS (12°-60°)			
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

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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

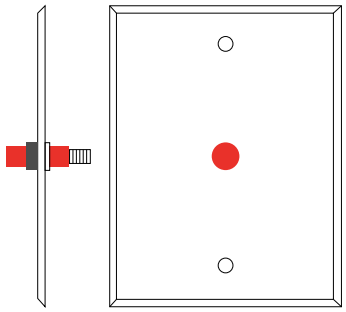
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

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

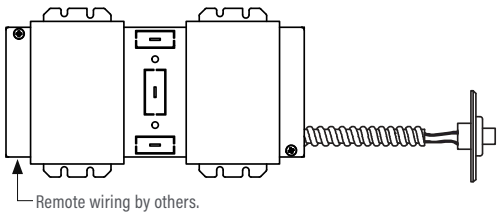
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



Remote Test Switch

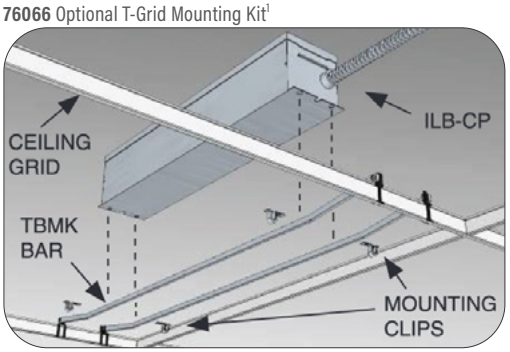
EM MODE OUTPUT (DELIVERED LUMENS)	
LUMEN ORDERING CODE	EM7
ALL OPTIONS (05LM TO 07LM)	500
Notes Based on 30K, 97CRI	

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.

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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.