PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

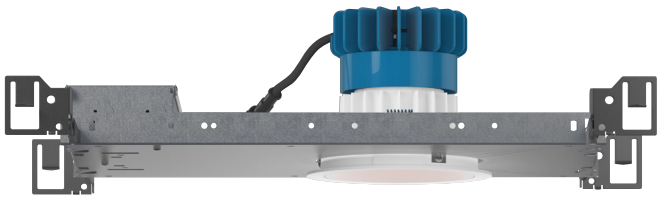
NU essentials

4" Round & Square Downlight Warm Dim

20° - 80° BEAM (Note: Specifications are subject to change without notice)		
9mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
13LM	1290LM @30K/90CRI	20W
Notes	Delivered lumens based on 40D optic with no lens, (see page 2)	

T24 JA8–2022

NSF · AT airtight · PR plenum rated · wet rated



FEATURES
- Economical choice for budget projects
- Thermally optimized for LED longevity
- Fully casted assembly
- 20° - 80° optical beam control
- Packaging material consists of 60-80% post-consumer recycled fiber

DIMMING AND CONTROLS
- eldoLED 0-10V, 0.1% and 1%
- Leading & trailing edge (Triac/ELV), dim to 1%

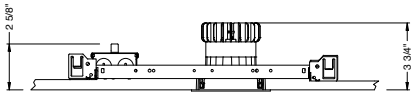
CONSTRUCTION
- Aluminum trim and bezel
- Electrocoated 16-gauge cold-rolled steel construction
- Accommodates ceiling thickness from 1/4" to 1"

LED
- 90 CRI: SDCM = 2-step MacAdam Ellipse, Lumen Maintenance: L_{70} > 66,000 hrs

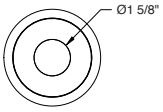
LISTING
- ULus Listed to UL1598; cUL Listed to CSA C22.2 #250.0
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- IP44 with lens - suitable for wet location with lens - suitable damp location without lens
- 5 Year Limited warranty

ELECTRICAL
- 120V-277V, 120 only Triac / ELV
- Power factor ≥ 0.9
- 2kV driver input surge protection
- 7W and 10W (T20 CEC) EM 90min battery
- Max. ambient installation temperature 104°F (40°C)

FIXTURE HEIGHT

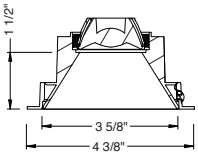


ROUND



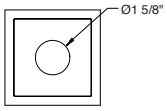
ceiling cutout
4" diameter

ceiling thickness
1/4" to 1"



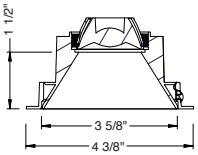
aperture dimensions

SQUARE



ceiling cutout
4" x 4" square

ceiling thickness
1/4" to 1"



aperture dimensions

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

ORDERING CODE			
SERIES	NUE4	NUE	
TYPE	RD	round downlight	
	QD	square downlight	
	RDT	round downlight trimless	
	QDT	square downlight trimless	
LED	WD	warm dim	
DELIVERED LUMENS	13LM	1290 lm	
	Standard Configuration: 3000K 90CRI 40D **NL** **Calculated Delivered Lumens =** [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier]		
CCT	3018	3000K, dim to 1800K	
		CCT at Light Level (%LF)	
		%LF / 13LM	
		100% / 3000	
		50% / 2800	
		25% / 2450	
		10% / 2050	
		5% / 1800	
CRI	90	90 CRI	
OPTIC & LM MULTIPLIER	20D	20 degrees	(0.99)
	25D	25 degrees	(1.00)
	40D	40 degrees	(1.00)
	55D	55 degrees	(0.98)
	For 80° choose '60D' + 'DL' lens.		
BEZEL LENS	NL[1]	no lens	(1.00)
	CL[2]	clear lens	(0.95)
	DL[2]	diffused lens	(0.76)
	HET[2]	high efficiency textured lens, similar to Solite™	(0.92)
	HCL[3]	honeycomb louver	(0.64)
TRIM COLOR	BK	black	
	WH	white	
	MC	matte chrome	
	Not applicable to trimless option. Do not include in trimless ordering code.		
BEZEL COLOR	BK	black	(0.95)
	WH	white	(1.00)
	MC	matte chrome	(0.99)

ORDERING CODE		
MOUNTING OPTIONS	NC	new construction plate
	IC	insulation contact housing
	ICAT	insulation contact/airtight housing
	CP	chicago plenum housing
	RET	retrofit, no ceiling plate
VOLTAGE	120	120V
	UNV	120V-277V
DIMMING	DIM10	eldoLED flicker free 0-10V dim to 1%
	ELV1[4]	leading edge & trailing edge (Triac/ELV) dim to 1%
ELECTRICAL OPTIONS	EM10CA20	emergency battery backup, 90 minutes at 10W to LED, CA title 20
	EM7	remote emergency battery, 90 min at 7W

YOUR COMPLETED ORDERING CODE
Follow the steps to specify your fixture, example:
NUE4 - RD - WD - 13LM - 3018 - 90 - 40D - NL - WH - WH - NC - UNV - DIM10

NOTES

1. NL lens option does not meet requirements for WET/NSF listings.
2. CL/DL/HET lens options with IC or ICAT housing are JA8 compliant.
3. HCL cannot be used with lens (max 1 media).
4. ELV1 available in 120V.

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

TRIM OPTIONS

TRIM/BEZEL COLORS



WH MC BK

OPTICAL OPTIONS

- Corrected UGR values generated per CIE 190-2010 at the following reference condition:
  Room dimensions: X = 4H, Y = 8H
  Reflectances: 70/50/20
- Calculations based on 13LM fixtures, unless otherwise noted

HCL
Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
20D	20	<10
25D	24	<10
40D	36	<10
55D	44	<10

NL
No Lens



OPTIC	BEAM ANGLE	UGR
20D	21	<10
25D	26	<10
40D	41	<10
55D	53	12.1

CL
Clear Lens



OPTIC	BEAM ANGLE	UGR
20D	21	<10
25D	26	<10
40D	41	<10
55D	53	11.4

DL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
20D	60	11.7
25D	65	15.6
40D	70	15.5
55D	80	16.2

HET
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
20D	25	<10
25D	29	<10
40D	41	<10
55D	54	12.1

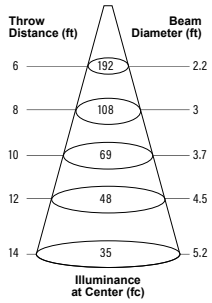
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

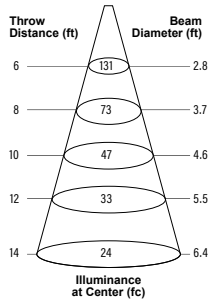
13LM

20D 21° NO LENS



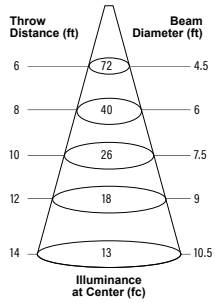
WATTS: 19.4	LPW: 66.2
LUMENS: 1284	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	6916
5	5980
15	1743
25	372
35	126
45	28

25D 26° NO LENS



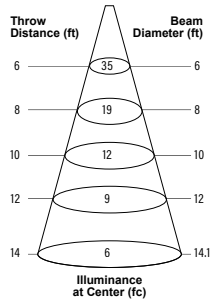
WATTS: 19.4	LPW: 64.5
LUMENS: 1251	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	4699
5	4282
15	1795
25	446
35	182
45	49

40D 41° NO LENS



WATTS: 19.4	LPW: 66.5
LUMENS: 1291	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	2565
5	2502
15	1887
25	794
35	197
45	41

55D 53° NO LENS

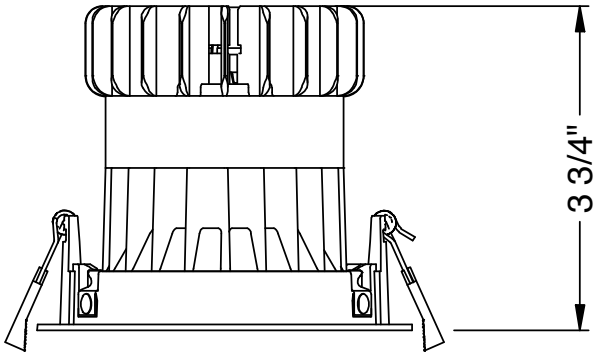


WATTS: 19.4	LPW: 54.6
LUMENS: 1060	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	1238
5	1216
15	1029
25	681
35	349
45	113

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

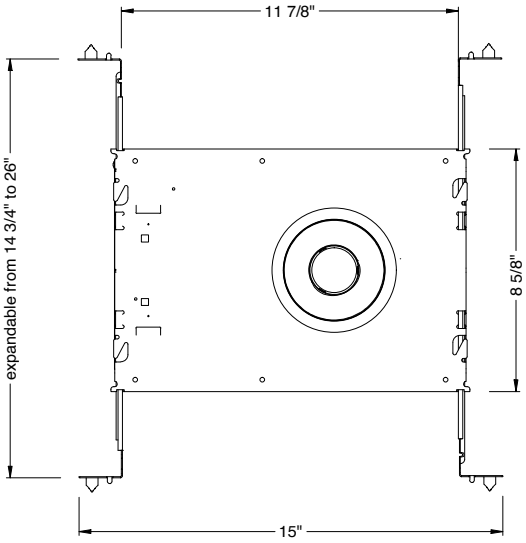
MOUNTING OPTIONS

FIXTURE HEIGHT

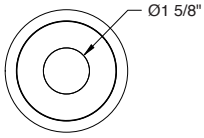


NC - NEW CONSTRUCTION

TRIM

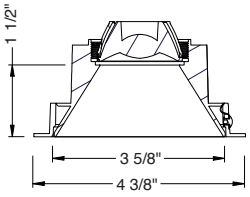


ROUND



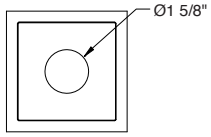
ceiling cutout
4" diameter

ceiling thickness
1/4" to 1"



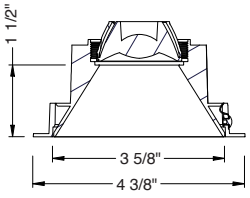
aperture dimensions

SQUARE



ceiling cutout
4" x 4" square

ceiling thickness
1/4" to 1"

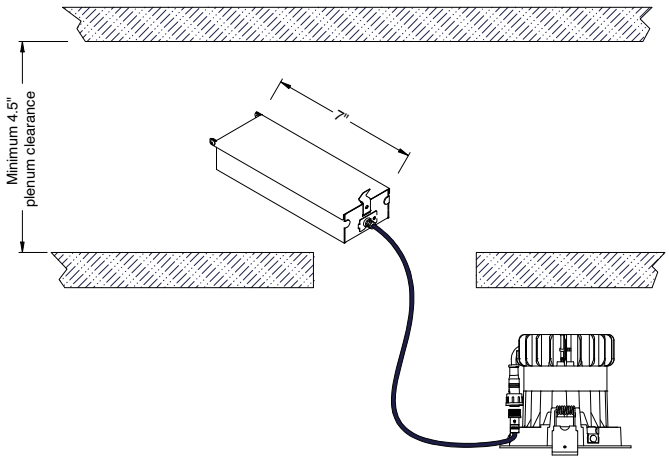


aperture dimensions

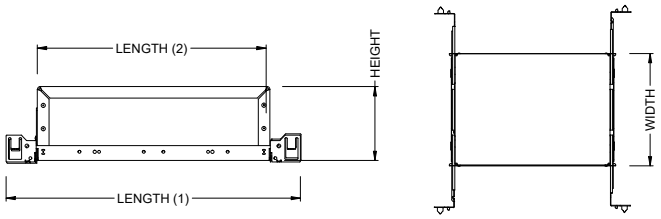
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS (CONTINUED)

NC - RET



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	✔	✔	✔	✔	✔

BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS (20° - 80)			
LUMEN OUTPUT	BOX - A		
	IC	ICAT	CP
13LM	✔	✔	✔

CEILING THICKNESS	
FIXTURE TYPE	MOUNTING TYPE
	NC, IC, ICAT, CP, RET
	STANDARD CEILING THICKNESS
TRIM	1/4" to 1"
TRIMLESS	1/4" to 1"

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

BATTERY OPTIONS

EMERGENCY BATTERY

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

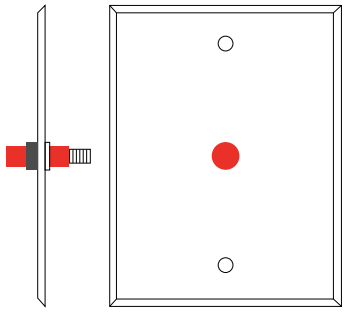
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

EMERGENCY BATTERY ACCESS

Above ceiling access is required.

REMOTE LOCATION

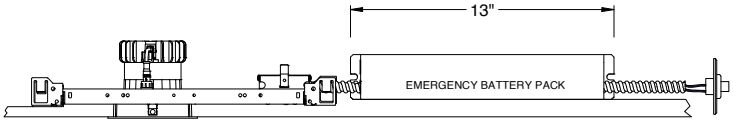
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



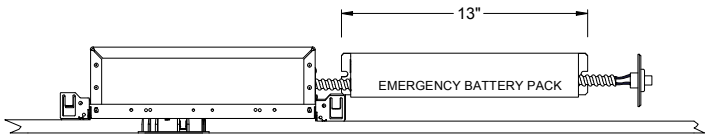
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)		
LUMEN ORDERING CODE	EM7	EM10
ALL OPTIONS (13LM)	450LM	650LM
Notes: Based on 30K, 90CRI		

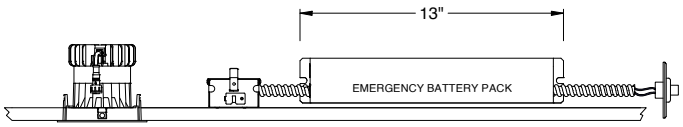
NC - NEW CONSTRUCTION
WITH EM BATTERY (REMOTE TEST SWITCH)



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

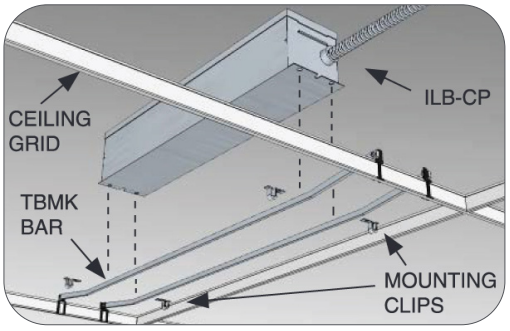


RET - RETROFIT
WITH EM BATTERY (REMOTE TEST SWITCH)



Accessory

76066 Optional T-Grid Mounting Kit[1]



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