alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

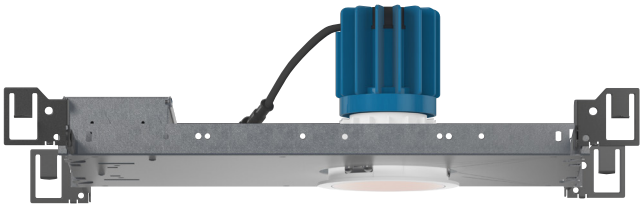
NU essentials

3" Round & Square Downlight Standard White

NSF · AT airtight · PR plenum rated · wet rated

30°-80° BEAM (Note: Specifications are subject to change without notice)		
10mm COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	990LM @30K/90CRI	11W
12LM	1170LM @30K/90CRI	13W
15LM	1430LM @30K/90CRI	16W
17LM	1700LM @30K/90CRI	20W
Notes	Delivered lumens based on 45D optic with no lens, (see page 2)	

T24 JA8–2022



FEATURES
- Economical choice for budget projects
- Thermally optimized for LED longevity
- Fully casted assembly
- 30° - 80° optical beam control
- Packaging material consists of 60-80% post-consumer recycled fiber

DIMMING AND CONTROLS
- eldoLED Flicker free 0-10V dimming to 1%
- Leading & trailing edge (Triac/ELV) dimming to 1%

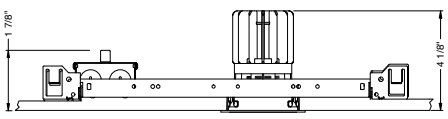
CONSTRUCTION
- Aluminum trim and bezel
- Electrocoated 16-gauge cold-rolled steel construction
- Accommodates ceiling thickness from 1/4" to 1"

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

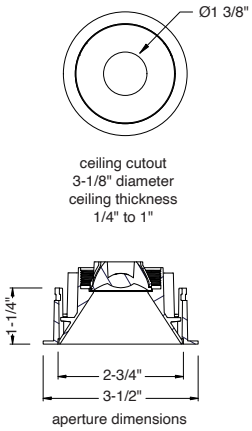
LISTING
- ULus Listed to UL1598; cUL Listed to CSA C22.2 #250.0
- NSF/ANSI-2 with lens (Non-Food and Splash Zones)
- IP44 with lens - suitable for wet location with lens - suitable damp location without lens
- 5 Year Limited warranty

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



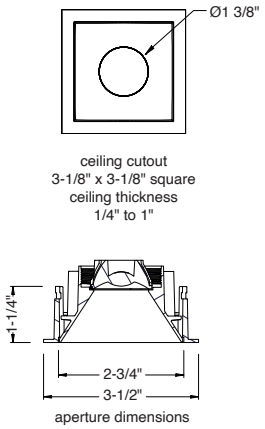
ROUND



ceiling cutout
3-1/8" diameter
ceiling thickness
1/4" to 1"

aperture dimensions

SQUARE



ceiling cutout
3-1/8" x 3-1/8" square
ceiling thickness
1/4" to 1"

aperture dimensions

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

30°-80° BEAM ORDERING CODE

SERIES	**NUE3**	NUE
TYPE	**RD**	round downlight
	QD	square downlight
	RDT	round downlight trimless
	QDT	square downlight trimless
LED	**SW**	standard white
DELIVERED LUMENS	**10LM**	990 lm
	12LM	1170 lm
	15LM	1430 lm
	17LM	1700 lm
	Standard Configuration: 3000K 90CRI 45D NL **Calculated Delivered Lumens =** [Delivered Lumen Value] x [CCT Multiplier] x [Reflector Multiplier]	
CCT	**27K**	2700K
	30K	3000K
	35K	3500K

CCT	2700K	3000K	3500K
CRI	90+	90+	90+
CCT MULTIPLIER FOR LUMEN OUTPUT	.96	1	1.03

CRI	**90**	90 CRI	
OPTIC & LM MULTIPLIER SEE PAGE 3	**30D**	30 degrees	(0.98)
	45D	45 degrees	(1.00)
	55D	55 degrees	(0.96)
	For 80° choose '55D' + 'DL' lens.		
BEZEL LENS	**NL**[1]	no lens	(1.00)
	CL[2]	clear lens	(0.92)
	DL[2]	diffused lens	(0.78)
	HET[2]	high efficiency textured lens, similar to Solite™	(0.92)
	HCL[3]	honeycomb louver	(0.60)
TRIM COLOR	**BK**	black	
	WH	white	
	MC	matte chrome	
BEZEL COLOR	**BK**	black	(0.95)
	WH	white	(1.00)
	MC	matte chrome	(0.99)

30°-80° BEAM ORDERING CODE

MOUNTING OPTIONS SEE PAGE 5, 6	**NC**	new construction plate
	NCIC[4]	new construction with ceiling fitting plate, insulation contact rated (no housing required)
	IC	insulation contact housing
	ICAT	insulation contact/airtight housing
	CP	chicago plenum housing
	RET	retrofit, no ceiling plate
	RETIC[4]	retrofit, no ceiling fitting plate, insulation contact rated (no housing required)
VOLTAGE	**120**	120V
	UNV	120V-277V
DIMMING	**DIM10**	eldoLED flicker free 0-10V dim to 1%
	ELV1[5]	leading edge & trailing edge (Triac/ELV) dim to 1%
ELECTRICAL OPTIONS	**EM7**	remote emergency battery, 90 min at 7W
	EM10CA20	emergency battery backup, 90 minutes at 10W to LED, CA title 20

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"

YOUR COMPLETED ORDERING CODE

Follow the steps to specify your fixture, example:

NUE3 - RD - SW - 17LM - 35K - 90 - 45D -HET - WH - WH - NC - UNV - DIM10

NOTES

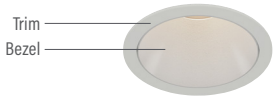
1. NL lens option does not meet requirements for WET/NSF listings.
2. CL/DL/HET lens options with IC or ICAT housing are JA8 compliant.
3. HCL cannot be used with lens (max 1 media).
4. NCIC & RETIC available in 10LM/12LM rated for insulation contact (IC), no "IC-housing" required.
5. ELV1 available in 120V.

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

TRIM OPTIONS

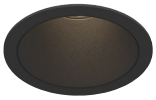
TRIM/BEZEL COLORS



WH



MC



BK

OPTICAL OPTIONS

- UGR calculation based on CIE 117-1995; room size: 4H X 8H, reflectance: 70/50/20;
- UGR calculation based on 15LM fixtures, unless otherwise noted.

HCL
Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
30D	30.4	7.3
45D	41.3	10.7
55D	48.2	13.9

NL
No Lens



OPTIC	BEAM ANGLE	UGR
30D	33	10
45D	47	15.7
55D	55	17.8

CL
Clear Lens



OPTIC	BEAM ANGLE	UGR
30D	33	11
45D	46.4	14.9
55D	54.9	17.6

DL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
30D	64	23.1
45D	74	24.2
55D	81	24.6

HET
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
30D	34	12.9
45D	45.7	16.8
55D	54.8	19

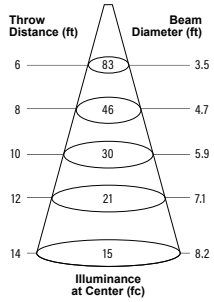
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

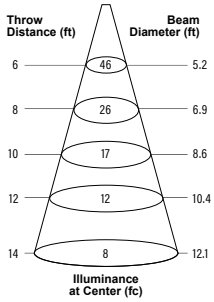
10LM CCT MULTIPLIERS	
	90CRI
2700K	0.96
3000K	1
3500K	1.03
4000K	1.06
FC Formula = CBCP / Distance^2	

30D-NL 33°, NO LENS



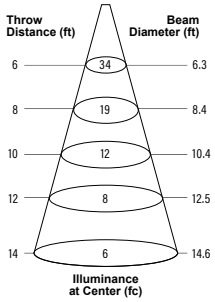
WATTS: 10.5	LPW: 92.3
LUMENS: 969	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	2976
5	2836
15	1723
25	391
35	65
45	15

45D-NL 47°, NO LENS



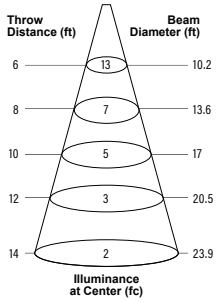
WATTS: 10.5	LPW: 93.8
LUMENS: 985	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	1658
5	1630
15	1386
25	698
35	151
45	29

55D-NL 55°, NO LENS



WATTS: 10.5	LPW: 90.2
LUMENS: 948	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	1219
5	1212
15	1142
25	763
35	218
45	29

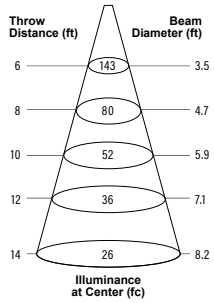
55D-DL 81°, DIFFUSED LENS



WATTS: 10.5	LPW: 68.9
LUMENS: 724	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	471
5	467
15	437
25	377
35	291
45	183

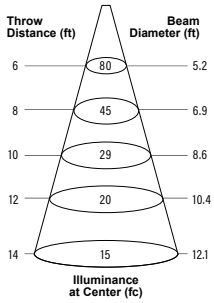
17LM CCT MULTIPLIERS	
	90CRI
2700K	0.96
3000K	1
3500K	1.03
4000K	1.06
FC Formula = CBCP / Distance^2	

30D-NL 32°, NO LENS



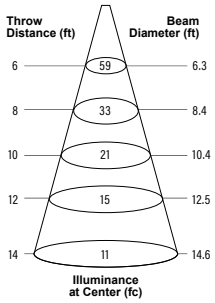
WATTS: 19	LPW: 88.3
LUMENS: 1678	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	5151
5	4909
15	2983
25	677
35	112
45	26

45D-NL 47°, NO LENS



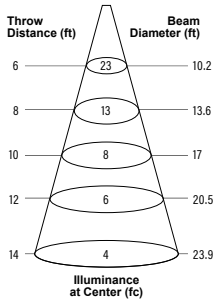
WATTS: 19	LPW: 89.7
LUMENS: 1705	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	2869
5	2822
15	2400
25	1207
35	262
45	49

55D-NL 55°, NO LENS



WATTS: 19	LPW: 86.3
LUMENS: 1640	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	2111
5	2099
15	1976
25	1320
35	377
45	51

55D-DL 81°, DIFFUSED LENS



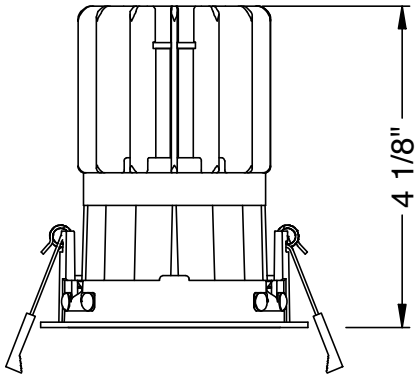
WATTS: 19	LPW: 65.9
LUMENS: 1253	CCT: 3000K
INTENSITY	
DEGREE	CANDELA
0	814.545
5	809
15	757
25	653
35	504
45	316

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

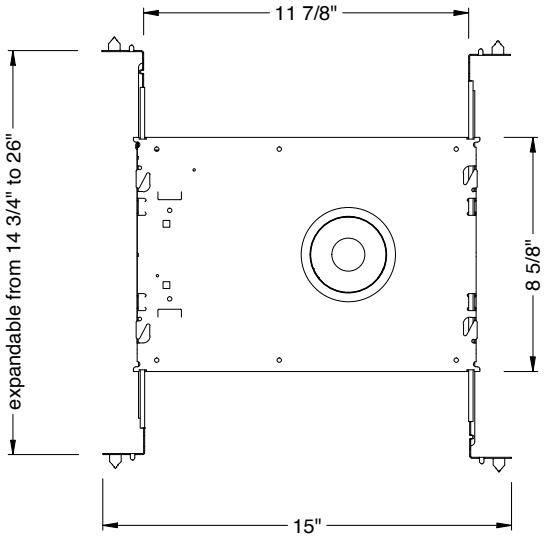
MOUNTING OPTIONS

FIXTURE HEIGHT

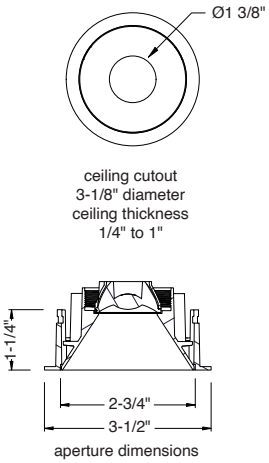


NC - NEW CONSTRUCTION

TRIM



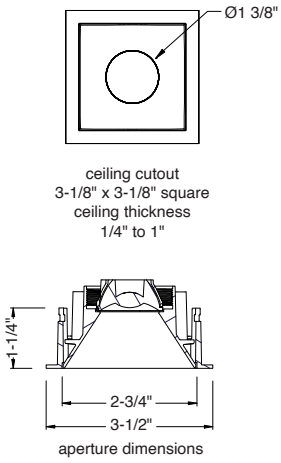
ROUND



ceiling cutout
3-1/8" diameter
ceiling thickness
1/4" to 1"

aperture dimensions

SQUARE



ceiling cutout
3-1/8" x 3-1/8" square
ceiling thickness
1/4" to 1"

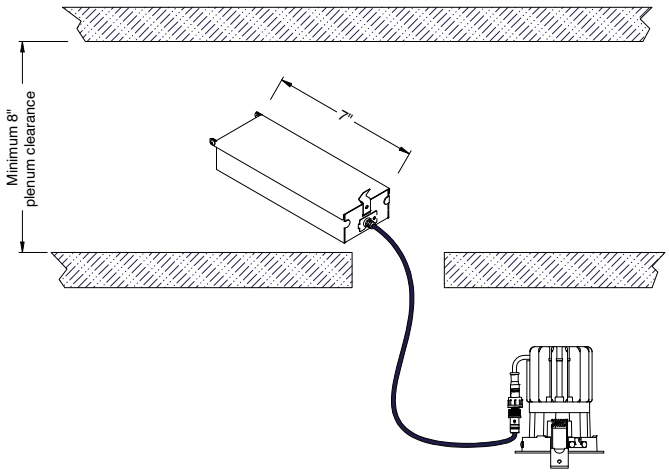
aperture dimensions

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

MOUNTING OPTIONS (CONTINUED)

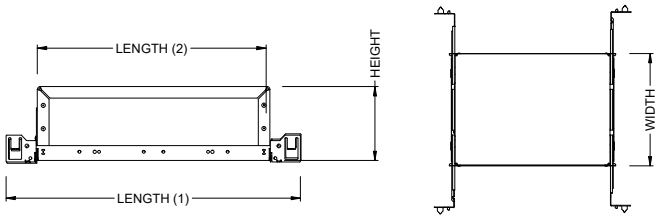
NC - RET



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

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

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 (30°-80°)		
LUMEN OUTPUT	BOX - A	
	IC	ICAT
10LM	✔	✔
12LM	✔	✔
15LM	✔	✔
17LM	✔	✔

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

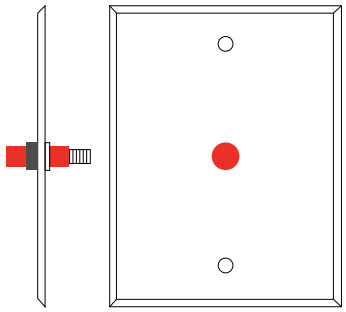
BATTERY OPTIONS

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.

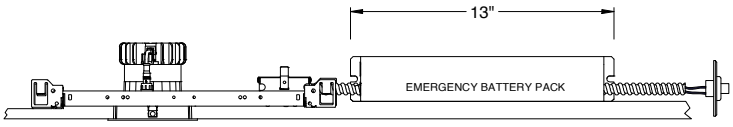
REMOTE LOCATION
Maximum remote mounting distance of the emergency driver shall be 50 feet. Remote location wiring provided by others. Follow all Local and National Electric/ Building Codes.



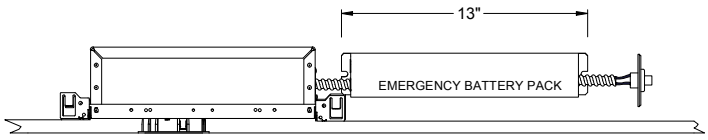
Remote Test Switch

EM MODE OUTPUT (DELIVERED LUMENS)		
LUMEN ORDERING CODE	EM7	EM10
ALL OPTIONS (10LM TO 17LM)	690LM	990LM
Notes: Based on 30K, 90CRI		

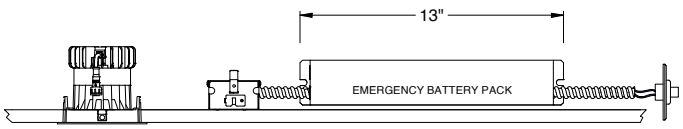
NC - NEW CONSTRUCTION
WITH EM BATTERY (REMOTE TEST SWITCH)



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

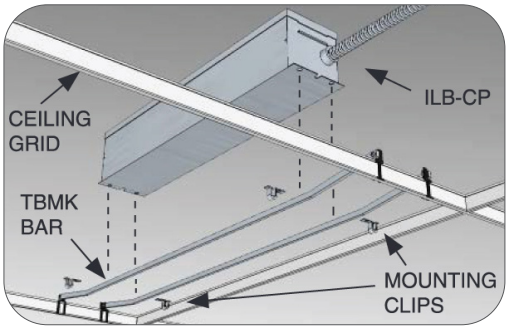


RET - RETROFIT
WITH EM BATTERY (REMOTE TEST SWITCH)



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.