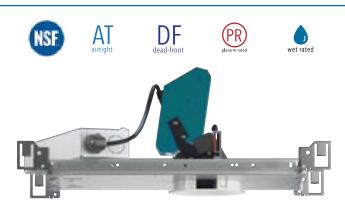
NU3

3" Round Adjustable Tunable White







- **FEATURES**
- True 30° Tilt with <5% beam disruption (clipping) Zero ceiling line obstruction at Full Tilt
- Concentric Tilt Tracking ensures minimal light loss
- 360° full rotation
- 20° 50° optical beam control
- UGR < 5
- Multiple mounting and glare control options

LED

- Luminus tunable white COB from 2700K 6500K: 95 CRI, R9 > 70: SDCM = 4-step MacAdam Ellipse; Lumen Maintenance: L_{70} > 54,000 hrs
- Nichia tunable white COB from 2700K to 5000K: 80 CRI, R9 > 0: SDCM = 3-step MacAdam Ellipse; Lumen Maintenance: L₉₀ > 33,000 hrs



DIMMING AND CONTROLS

- eldoLED flicker free 0-10V dimming to 0%
- eldoLED flicker free DALI dimming to 0%
- Casambi bluetooth dimming to 0%
- NLight control interface dimming to 0%

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 - Dead-front construction (Shower Approved)
- · Made in the USA meets the requirements of the Buy American
- provision within the ARRA
- NSF/ANSI-2 Listed, with lens
- 5 Year Limited warranty

PROJECT INFORMATION			
JOB NAME		ТҮРЕ	
ORDERING CODE			

30° - 50° BEAM (Note: Specifications are subject to change without notice)			
18mm LUMINUS COB PERFORMANCE DATA			
LED LIGHT Engine	NOMINAL DELIVERED SYSTEM LUMENS WATTAGE		
20LM	1420LM @35K/95CRI 23W		
Notes	Delivered lumens based on 50D optic with no lens, (see page 2)		

20° - 50° BEAM (Note: Specifications are subject to change without notice)				
14mm L	14mm LUMINUS COB PERFORMANCE DATA			
LED LIGHT Engine	NOMINAL DELIVERED SYSTEM			
13LM	950LM @35K/95CRI 15W			
Notes	Notes Delivered lumens based on 35D optic with no lens, (see page 2)			

	fications are subject to change NICHIA COB PERFORMA				
LED LIGHT NOMINAL DELIVERED SYSTEM ENGINE LUMENS WATTAGE					
15LM	1160LM @35K/85CRI	15W			
20LM	1550LM @35K/85CRI	18W			
30LM	2310LM @35K/85CRI	32W			
Notes Delivered lumens based on 50D optic with no lens, (see page 3)					
See Page					

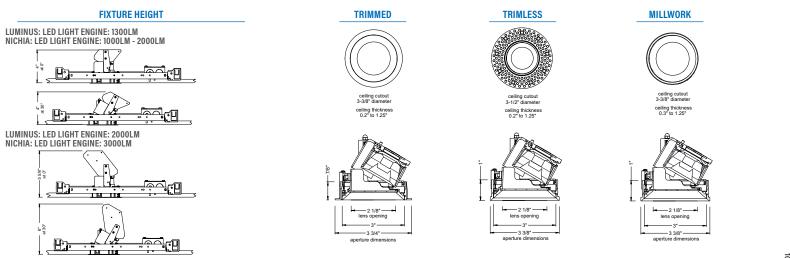
HIGHT

CONSTRUCTION

- Lexan[™] (PC) highly resistant to impact and heat (240°F)
- Optimal material for wireless BLE signal connectivity
- Shatter proof acrylic bezel lens
- Electrocoated 16-gauge cold-rolled steel construction
- Accommodates ceiling thickness from 0.2" to 1.25"
- · For servicing the driver/j-box, access above ceiling is required

ELECTRICAL

- = 120V-277V
- Power factory ≥ 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)



Alphabet by Ledra Brands, Inc. 88 Maxwell Irvine, CA 92618 PH: 714.259.9959 FAX: 714.259.9969 AlphabetLighting.com

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.

	20 °	- 50° BEAM ORDERING CODE				
SERIES	NU3	NU3				
	RA	round adjustable				
ТҮРЕ	RAT	round adjustable trimless				
	RATMW	round adjustable trimless millwork				
LED	TW	tunable white (Luminus)				
	13LM ¹	950 lm				
DELIVERED	20LM ²	1420 lm				
LUMENS Standard Configuration: 3500K 35D NL			10 vi			
		elivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x Lens Multiplier]	LOptic			
	2765	2700K to CCT 2700K 3000K 3500K 4000K 5000K	5700K 6500K			
		6500K tunable CCT MULTIPLIER FOR LUMEN OUTPUT 0.91 0.98 1.00 0.99 1.00	1.01 1.02			
		white EML RATIO 0.49 0.57 0.68 0.79 0.96	1.04 1.12			
ССТ						
	1840	10001/	3500K 4000K			
		tunable cct multiplier for LUMEN OUTPUT 0.67 0.74 0.8 0.85 0.88	0.95 1.01			
		white EML RATIO 0.21 0.33 0.46 0.53 0.59	0.67 0.73			
CRI	95	95 typical, 90 minimum				
	20D	20 degrees	(0.91)			
	30D	30 degrees	(0.97)			
OPTIC & LM MULTIPLIER	35D	35 degrees	(0.99)			
SEE PAGE 4	40D	40 degrees	(0.99)			
	50D	50 degrees	(1.00)			
	NA	no accessory (1.00)				
TIR OPTIC	HCL	honeycomb louver	(0.85)			
ACCESSORY	HETA	high efficiency textured lens, similar to Solite™	(0.90)			
SEE PAGE 4	EA ³	elliptical lens	(0.90)			
	Attached to	TIR optic, active				
		no lens	(1.00)			
	CL	clear lens	(0.94)			
BEZEL LENS	DL	diffused lens	(0.91)			
SEE PAGE 4	HET	high efficiency textured lens, similar to Solite™	(0.92)			
	SBL	smoothing beam lens	(0.92)			
	BK	black				
	WH	white				
TRIM	МС	matte chrome				
COLOR SEE PAGE 4	BZ	bronze				
	WT	wheat				
	Not applicab	e to trimless option. Do not include in trimless ordering code.				
	BK	black				
BEZEL	WH	white				
COLOR	MC	matte chrome				
SEE PAGE 4	BZ	bronze				
	WT	wheat				

PROJECT INFORMATION			
JOB NAME		ТҮРЕ	
ORDERING CODE			

	20°-	50° BEAM ORDERING CODE	
MOUNTING OPTIONS SEE PAGE 8, 9	NC	new construction with ceiling fitting plate	
VOLTAGE	120	120V	
VULIAUL	UNV	120V-277V	
	DIM10Z ⁵	eldoLED flicker free 0-10V dimming to 0%	
	DALIZ	eldoLED flicker free DALI dimming to 0%	
DIMMING	NLT	nLight control interface: standard Cat-5/RJ45 connection (female), dimming to 0%	
	CASZ	Casambi Bluetooth dim to zero	
	EM7	emergency battery backup, 90 minutes at 7W to LED	
ELECTRICAL	EM12	emergency battery backup, 90 minutes at 12W to LED	
OPTIONS	EM10CA20	remote emergency battery backup, 90 minutes at 10W to LED, CA title 20	

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

YOUR COMPLETED ORDERING CODE

Follow the steps to specify your fixture, example:

NU3 - RA - TW - 20LM - 2765 - 95 - 35D - NA - HET - WH - WH - NC - UNV - DIM10Z - EM12

NOTES

1. 13LM not available with 40D optic.

2. 20LM not available with 20D/35D optics.

3. Elliptical lens actual beam distributions [20D= 40° x 65° , 30D= 40° x 70° , 35D= 40° x 70° , 40D= 45° x 70° , 55D= 55° x 80]

4. NL option does not meet requirement for AT/DF/WET/NSF listings.

5. Requires 2 wall controllers (see wiring diagram)

*EML = equivalent melanopic lux. To calculate EML, multiply the measured photopic lux by the EML Ratio for the given CCT. *Example: 254 lux x 0.79 = 200 melanopic lux at 4000K*.

	20 °	- 50° BEAM ORDERING CODE		
SERIES	NU3	NU3		
	RA	round adjustable		
ТҮРЕ	RAT	round adjustable trimless		
	RATMW	round adjustable trimless millwork		
LED	TW	tunable white (Nichia)		
	15LM	1160 lm		
	20LM	1550 lm		
DELIVERED LUMENS	30LM	2310 lm		
LUWIENS		nfiguration: 3500K 50D NL		
		lelivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Optic [Lens Multiplier]		
	2750	2700K to CCT 2700K 3000K 3500K 4000K 5000K		
007		5000K EML RATIO 0.43 0.51 0.63 0.69 0.80		
ССТ		tunable white		
		Winte		
CRI	80	80 CRI		
	20D	20 degrees (0.80)		
OPTIC & LM MULTIPLIER	25D	25 degrees (0.99)		
SEE PAGE 4	30D	30 degrees (0.90)		
	50D	50 degrees (1.00)		
	NA	no accessory (1.00)		
TIR OPTIC	HCL	honeycomb louver (0.67)		
ACCESSORY	HETA	high efficiency textured lens, similar to Solite™ (0.89)		
SEE PAGE 4	EA ¹	elliptical lens (0.93)		
	Attached to	TIR optic, active		
	NL ²	no lens (1.00)		
	CL	clear lens (0.96)		
BEZEL LENS SEE PAGE 4	DL	diffused lens (0.93)		
	HET	high efficiency textured lens, similar to Solite™ (0.95)		
	SBL	smoothing beam lens (0.96)		
	BK	black		
	WH	white		
TRIM COLOR	МС	matte chrome		
SEE PAGE 4	BZ	bronze		
	WT	wheat		
		e to trimless option. Do not include in trimless ordering code.		
	BK	black		
BEZEL	WH	white		
COLOR	MC	matte chrome		
SEE PAGE 4	BZ	bronze		
	WT	wheat		

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

	20°- 50° BEAM ORDERING CODE		
MOUNTING OPTIONS SEE PAGE 8, 9	NC	new construction with ceiling fitting plate	
VOLTAGE	UNV	120V-277V	
	DIM10Z ³	eldoLED flicker free 0-10V dimming to 0%	
	DALIZ	eldoLED flicker free DALI dimming to 0%	
DIMMING	NLT	nLight control interface: standard Cat-5/RJ45 connection (female), dimming to 0%	
	CASZ	Casambi Bluetooth dim to zero	
	EM7	emergency battery backup, 90 minutes at 7W to LED	
ELECTRICAL	EM12	emergency battery backup, 90 minutes at 12W to LED	
OPTIONS	EM10CA20	remote emergency battery backup, 90 minutes at 10W to LED, CA title 20	

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

YOUR COMPLETED ORDERING CODE

Follow the steps to specify your fixture, example:

NU3 - RA - TW - 20LM - 2750 - 80 - 30D - NA - HET - WH - WH - NC - UNV - DIM10Z - EM12

NOTES

1. Elliptical lens actual beam distributions [20D= 35° x 60° , 25D= 40° x 65° , 30D= 45° x 70° , 50D= 55° x 80°]

2. NL option does not meet requirement for AT/DF/WET/NSF listings.

3. Requires 2 wall controllers (see wiring diagram)

*EML = equivalent melanopic lux. To calculate EML, multiply the measured photopic lux by the EML Ratio for the given CCT. Example: 254 lux x 0.79 = 200 melanopic lux at 4000K

Alphabet by Ledra Brands, Inc. | 88 Maxwell Irvine, CA 92618 | PH: 714.259.9959 FAX: 714.259.9969 | AlphabetLighting.com

100917

PROJECT INFORMATION				
JOB NAME		ТҮРЕ		
ORDERING CODE				

TRIM OPTIONS

TRIM/BEZEL COLORS



LUMINUS OPTICAL OPTIONS

• UGR calculation based on CIE 117-1995; room size: 4H X 8H, reflectance: 70/50/20;

- UGR calculation based on 13LM fixtures, unless otherwise noted.

TIR OPTIC ACCESSORY Honeycomb Louver
()

OPTIC	BEAM ANGLE	UGR
20D	21	6.1
30D	26	6.9
35D	30	7.3
50D	44	13.5



OPTIC	BEAM ANGLE	UGR
20D	22	6
30D	29	8.3
35D	34	8.3
50D	52	15.7



20D 22.6 6.5 30D 28.6 8.5 35D 33.9 8.6	OPTIC	BEAM ANGLE	UGK
	20D	22.6	6.5
35D 33.9 8.6	30D	28.6	8.5
	35D	33.9	8.6
50D 52 15.5	50D	52	15.5



OPTIC	BEAM ANGLE	UGR
20D	40	17.5
30D	43	18.9
35D	46	19.6
50D	58	22

HET High Efficiency Textured Lens
(0)

OPTIC	BEAM ANGLE	UGR
20D	26.8	9.4
30D	31	11.5
35D	35	12.6
50D	50	17.2



OPTIC	BEAM ANGLE	UGR
20D	24	7.3
30D	29	9
35D	34	9.7
50D	50	15.8

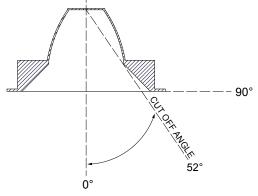
GLARE CONTROL

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 52 degrees;



PROJECT INFORMATION			
JOB NAME		ТҮРЕ	
ORDERING CODE			

TRIM OPTIONS

TRIM/BEZEL COLORS



NICHIA 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.

TIR OPTIC ACCESSOR Honeycomb Louver	
()	

OPTIC	BEAM ANGLE	UGR
20D	18.3	≤5
25D	23	≤5
30D	28.2	≤5
50D	44.1	13



OPTIC	BEAM ANGLE	UGR
20D	18	≤5
25D	25	7
30D	31	6.2
50D	51	15.6



OPTIC	BEAM ANGLE	UGK
20D	18.2	≤5
25D	25	7.1
30D	31	7.6
50D	50	15.5



OPTIC	BEAM ANGLE	UGR
20D	37	17.3
25D	41	18.9
30D	44	19.7
50D	56.6	22.7



OPTIC	BEAM ANGLE	UGR
20D	24	8.3
25D	28	11.1
30D	33	12.3
50D	48.6	17.7



OPTIC	BEAM ANGLE	UGR
20D	19	≤5
25D	25	8.2
30D	31	8
50D	50	15.8

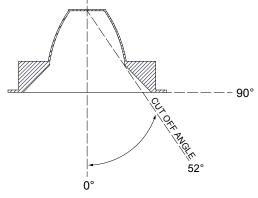
GLARE CONTROL

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.

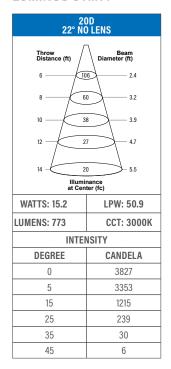
• Cutoff angle of NL and CL is 52 degrees;

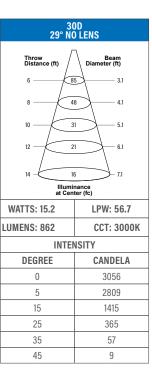


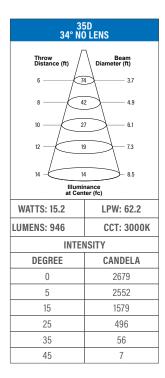
ROJECT INFORMATION			
DB NAME		ТҮРЕ	
RDERING CODE			

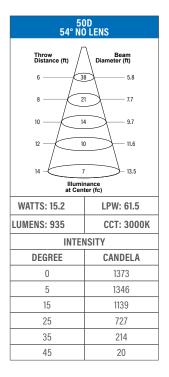
LUMINUS CTM14

PHOTOMETRIC DATA

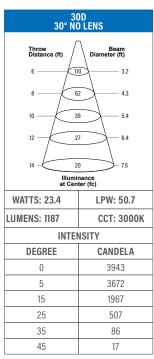


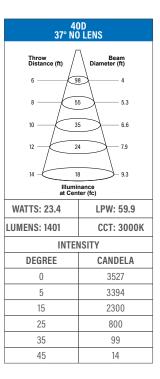


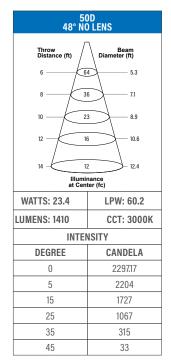




LUMINUS CTM18



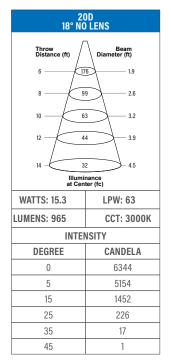


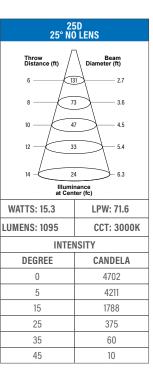


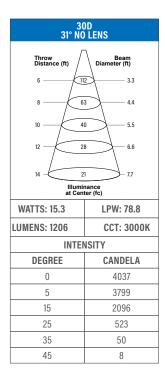
ROJECT INFORMATION			
B NAME		ТҮРЕ	
RDERING CODE			

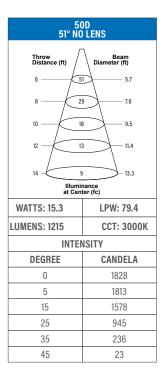
NICHIA

PHOTOMETRIC DATA

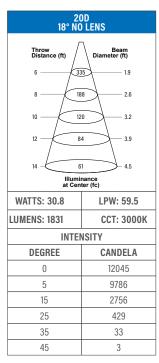


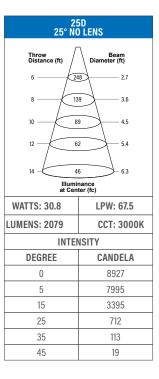


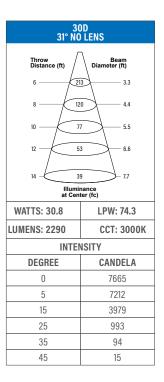


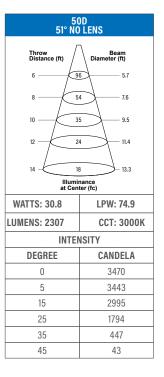


NICHIA









Alphabet by Ledra Brands, Inc. 88 Maxwell Irvine, CA 92618 PH: 714.259.9959 FAX: 714.259.9969 AlphabetLighting.com

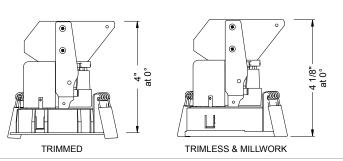
In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.

100917

MOUNTING OPTIONS

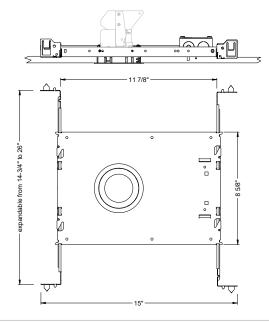
FIXTURE HEIGHT

LUMINUS: LED LIGHT ENGINE: 1300LM NICHIA: LED LIGHT ENGINE: 1000LM - 2000LM

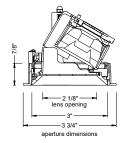


NC - NEW CONSTRUCTION

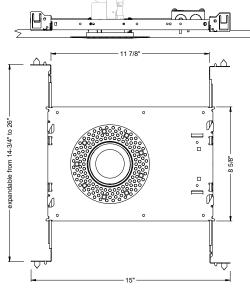
TRIM







TRIMLESS

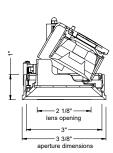


In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.

TRIMLESS

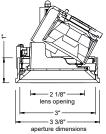


ceiling cutout 3-1/2" diameter ceiling thickness 0.2" to 1.25"



TRIMLESS/MILLWORK





PROJECT INFORMATION			
JOB NAME		ТҮРЕ	
ORDERING CODE			

5 5/8" at 0°

LUMINUS: LED LIGHT ENGINE: 2000LM NICHIA: LED LIGHT ENGINE: 3000LM

۲

۲

TRIMMED

PROJECT INFORMATION			
JOB NAME		ТҮРЕ	
ORDERING CODE			

0

۲

۲

TRIMLESS & MILLWORK

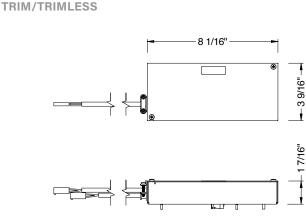
5 3/4" at 0°



PROJECT INFORMATION			
JOB NAME		ТҮРЕ	
ORDERING CODE			

MOUNTING OPTIONS (CONTINUED)

NC - DRIVER BOX SIZE



NOTE:

For servicing the driver/j-box, access above ceiling is required. T-Bar type ceilings with removable adjacent tile access recommended. Hard lid ceilings may require access doors directly adjacent to luminaire.

RATINGS / CERTIFICATIONS	NC
TYPE NON-IC	V
TYPE IC	
CHICAGO PLENUM (CCEA)	
SUITABLE FOR AIR HANDLING PLENUMS	<i>٧</i>
REDUCED AIRFLOW (WITH LENS) ASTM E283	V

CEILING THICKNESS			
	MOUNTING TYPE		
FIXTURE TYPE	NC		
	STANDARD CEILING THICKNESS		
TRIM	0.2" to 1.25"		
TRIMLESS	0.2" to 1.25"		
MILLWORK (TRIMLESS)	0.3" to 1.25"		

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

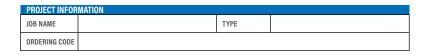
The Remote Test Switch may be mounted adjacent to the LED Fixture by others.

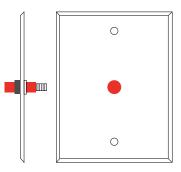
EMERGENCY BATTERY ACCESS

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.





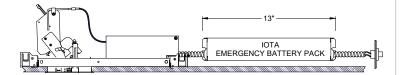
Remote Test Switch

EM MODE OUTPUT (LUMINUS COB - DELIVERED LUMENS)					
LUMEN ORDERING CODE	EM7	EM10	EM12		
ALL OPTIONS (10LM TO 20LM)	410 L M	610LM	720LM		
Notes: Based on 35K 95CBI					

EM MODE OUTPUT (NICHIA COB - DELIVERED LUMENS)					
LUMEN ORDERING CODE	EM7	EM10	EM12		
ALL OPTIONS (10LM TO 20LM)	500LM	770LM	910LM		
Notes: Based on 35K, 85CRI			-		

NC - NEW CONSTRUCTION

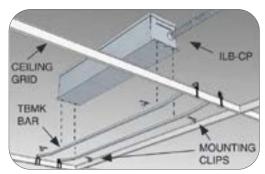
WITH EM BATTERY (REMOTE TEST SWITCH)



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.

Accessory

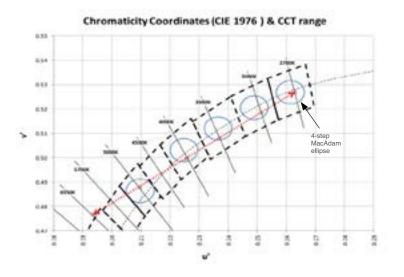
76066 Optional T-Grid Mounting Kit²



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

TUNABLE WHITE

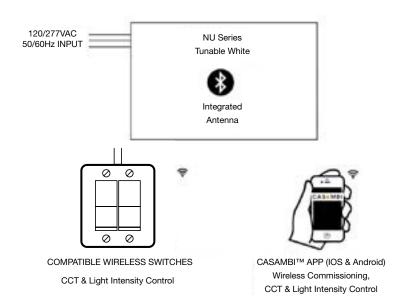
LUMINUS 95CRI



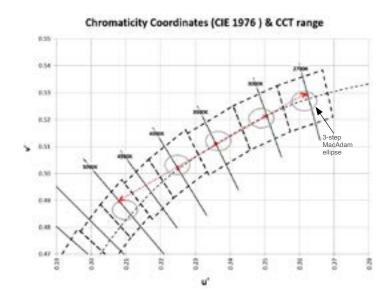
PROJECT INFORMATION					
JOB NAME		ТҮРЕ			
ORDERING CODE					

WIRING DIAGRAMS

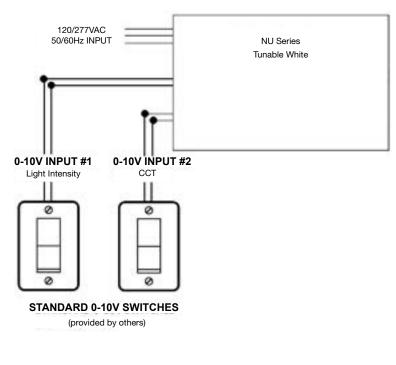
"CAS" CASAMBI CONTROLS



NICHIA 80CRI



"DIM10Z" HARDWIRED 0-10V CONTROL



NOTES

1 Consult factory to order compatible wireless switches.

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.