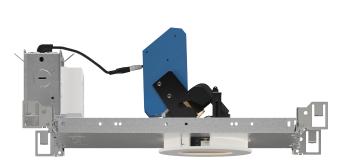
NU2

Round Adjustable Pinhole Tunable White

(PR)

ΑI





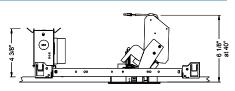
FEATURES

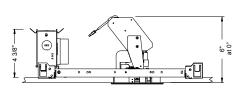
- True 40° Tilt with <10% beam disruption (clipping)
- Zero ceiling line obstruction at Full Tilt
- Concentric Tilt Tracking ensures minimal light loss
- 20° 50° optical beam control
- UGR <5
- Multiple mounting, glare control options, trims, and finishes available

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: L_{90} > 33,000 hrs

FIXTURE HEIGHT





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
- Suitable for damp locations
 Dead front construction (Shower Approved
- Dead-front construction (Shower Approved)

TRIMMED

ceiling cutout 4-3/8" diameter

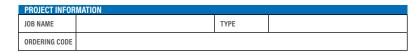
ceiling thickness 0.4" to 2.0"

2" x 2 7/8" ----

Pinhole slot opening

aperture dimensions

- Made in the USA meets the requirements of the Buy American provision within the ARRA
- 5 Year Limited warranty



20° - 50° BEAM (Note: Specifications are subject to change without notice)				
14mm LUMINUS COB PERFORMANCE DATA				
LED LIGHT NOMINAL DELIVERED SYSTEM ENGINE LUMENS WATTAGE				
13LM	840LM @35K/95CRI	15W		
Delivered lumens based on 35D Notes optic with no accessory, (see page 2)				

25° - 45° BEAM (Note: Specifications are subject to change without notice) 18mm LUMINUS COB PERFORMANCE DATA				
LED LIGHT NOMINAL DELIVERED SYSTEM ENGINE LUMENS WATTAGE				
20LM	1250LM @35K/95CRI	23W		
Notes Delivered lumens based on 50D optic with no accessory, (see page 2)				

20° - 50° BEAM (Note: Specifications are subject to change without notice)				
18mm	NICHIA COB PERFORMAN	CE DATA		
LED LIGHT NOMINAL DELIVERED SYSTEM ENGINE LUMENS WATTAGE				
10LM	1070LM @35K/85CRI	15W		
20LM	1490LM @35K/85CRI	18W		
30LM	2140LM @35K/85CRI	32W		
Notes Delivered lumens based on 50D optic with no accessory, (see page 3)				



CONSTRUCTION

- Shatter proof acrylic bezel lens
- Lexan Optimized for wireless signal controls
- Electrocoated 16-gague cold-rolled steel construction
- Accommodates ceiling thickness from 0.4" to 2.0"
- · Fixture is pre-set and shipped at 20deg tilt

ELECTRICAL

- 120V only Triac/ELV, 120V-277V
- Power factory ≥ 0.9
- 2kV driver input surge protection
- Max. ambient installation temperature 95°F (35°C)

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	NU2	NU2								
ТҮРЕ	RAPH	round adj	ustable, p	oinhol	е					
LED	TW	tunable w	hite (Lun	ninus)						
	13LM ¹	840 lm								
DELIVERED	20LM ²	1250 lm								
LUMENS		nfiguration: 3							1 50	
		elivered Lum Lens Multiplie		ered Lu	umen V	alue] x	LCCT M	ultiplie	r] x [Op	tic
	2765	2700K	CCT	2700K	3000K	3500K	4000K	5000K	5700K	6500K
ССТ		to 6500K tunable white	CCT MULTIPLIER FOR LUMEN OUTPUT	0.91	0.98	1.00	0.99	1.00	1.01	1.02
			EML RATIO ³	0.49	0.57	0.68	0.79	0.96	1.04	1.12
CRI	95	95 CRI max at 3500K, 90 CRI at 6500K								
	20D	20 degree	es						(().83)
	25D	25 degrees				(().82)			
OPTIC & LM MULTIPLIER	30D	30 degrees				(().94)			
SEE PAGE 4	35D	35 degrees				(().99)			
	45D	45 degrees				(1	.00)			
	50D	50 degrees					(1.00)			
	NA	no access	ory						(1.00)
	HCL	honeycon	nb louver						(0.70)	
TIR OPTIC ACCESSORY	DL	diffused lens				(0.74)				
SEE PAGE 4	HET	high effici	ency text	ured	lens, s	simila	r to S	olite™	(0.89)	
	SBL	smoothing	g beam le	ens					(0.93)
	Attached to T	TIR optic, field replaceable (maximum, 1 media)								
	BK	black, wit	h black o	ptical	cavit	y				
COLOR SEE PAGE 4	WH	white, wit	h black o	ptical	cavit	y				

PROJECT INFORMATION			
JOB NAME		ТҮРЕ	
ORDERING CODE			

20°- 50° BEAM ORDERING CODE				
	NC	new construction with ceiling fitting plate		
MOUNTING OPTIONS	IC	insulation contact housing		
	ICAT	insulation contact/airtight housing		
SEE PAGE 8, 9	СР	chicago plenum housing		
	RET	retrofit, no ceiling fitting plate		
VOLTAGE	120	120V		
VULIAUE	UNV	120V-277V		
	DIM10Z ⁴	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), dim to off		
	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 EM10C		remote emergency battery backup, 90 minutes at 10W to LED, CA title 20		
SPECIAL SEE PAGE 8	TC	thick ceiling application		

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:
---------------------	--------------	-------------------

NU2 - RAPH - TW - 20LM - 2765 - 95 - 30D - SBL - WH - NC - UNV - DIM10Z - EM12 - TC

Power Factor ≥ 0.9

NOTES

- 1. 13LM not available with 30D and 45D optics.
- 2. 20LM not available with 20D and 50D optics.
- 3. 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.

4. Requires 2 wall controllers (see wiring diagram).

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20°- 50° BEAM ORDERING CODE				
SERIES	NU2	NU2		
ТҮРЕ	RAPH	round adjustable, pinhole		
LED	TW	tunable white (Nichia)		
	15LM	1070 lm		
	20LM	1490 lm		
DELIVERED LUMENS	30LM	2140 lm		
LUWIENS		nfiguration: 3500K 50D NL		
		Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Optic [Lens Multiplier]		
	2750	2700K to CCT 2700K 3000K 3500K 4000K 5000K		
ССТ		5000K EML RATIO ¹ 0.43 0.51 0.63 0.69 0.80		
		white		
CRI	80	80 CRI		
	20D	20 degrees (0.84)		
OPTIC & LM MULTIPLIER	25D	25 degrees (0.95)		
SEE PAGE 4	30D	30 degrees (0.99)		
	50D	50 degrees (1.00)		
	NA	no accessory (1.00)		
	HCL	honeycomb louver (0.73)		
TIR OPTIC ACCESSORY	DL	diffused lens (0.76)		
SEE PAGE 4	HET	high efficiency textured lens, similar to Solite™ (0.88)		
	SBL	smoothing beam lens (0.93)		
	Attached to 1	TIR optic, field replaceable (maximum, 1 media)		
TRIM	BK	black, with black optical cavity		
COLOR SEE PAGE 4	WH	white, with black optical cavity		

PROJECT INFORMATION				
JOB NAME		ТҮРЕ		
ORDERING CODE				

	20°- 50° BEAM ORDERING CODE				
	NC	new construction with ceiling fitting plate			
MOUNTING	IC ²	insulation contact housing			
OPTIONS	ICAT ²	insulation contact/airtight housing			
SEE PAGE 8, 9	CP ²	chicago plenum housing			
	RET	retrofit, no ceiling fitting plate			
VOLTAGE	120	120V			
VULIAGE	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), dim to off			
	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 EM10C		remote emergency battery backup, 90 minutes at 10W to LED, CA title 20			
SPECIAL SEE PAGE 8	TC	thick ceiling application			

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:

NU2 - RAPH - TW - 20LM - 2750 - 80 - 30D - SBL - WH - NC - UNV - DIM10Z - EM12 - TC

Power Factor ≥ 0.9

NOTES

- 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.
- 2. IC/ICAT/CP not available for 30LM.
- 3. Requires 2 wall controllers (see wiring diagram).

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PROJECT INFORMATION				
JOB NAME		ТҮРЕ		
ORDERING CODE				

TRIM OPTIONS

TRIM/BEZEL COLORS



BK

UGR

≤5 5.9 7.3 13.4

LUMINUS 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	20.7	≤5
30D	24.7	≤5
35D	29.6	≤5
50D	39.5	9.5

TIR OPTIC ACCESSORY

OPTIC	BEAM ANGLE	UGR
20D	35	7.9
30D	38.1	11.1
35D	41.4	12.3
50D	50.1	15.1



OPTIC	BEAM ANGLE	UGR
20D	21.6	≤5
30D	27.1	≤5
35D	33.3	≤5
50D	47.4	12.7

TIR OPTIC ACCESSORY	OPTIC	BEAM ANGLI
HET	20D	25.3
	30D	29.7
	35D	34.4
	50D	46.6

TIR OPTIC ACCESSORY	OPTIC	BEAM ANGLE	UGR
SBL	20D	22.5	≤5
	30D	27.8	≤5
	35D	33.7	5.4
	50D	47.9	12.6

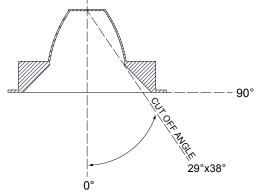
GLARE CONTROL

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 NA is 29°x38° ;



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PROJECT INFORMATION			
JOB NAME		ТҮРЕ	
ORDERING CODE			

TRIM OPTIONS

TRIM/BEZEL COLORS



BK

NICHIA OPTICAL OPTIONS

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

OPTIC

20D

25D

30D

50D

• UGR calculation based on 15LM fixtures, unless otherwise noted.

TIR OPTIC ACCESSOR Honeycomb Louver	(

TIR OPTIC ACCESSORY

HET

OPTIC	BEAM ANGLE	UGR
20D	17.6	≤5
25D	22.4	≤5
30D	27.8	≤5
50D	40.4	9.3

BEAM ANGLE

22.5

26.8

31.6

46.5

UGR

≤5

5.3

6.3

13.1

TIR OPTIC ACCESSORY

OPTIC	BEAM ANGLE	UGR
20D	33.1	7.3
25D	36	11.2
30D	39.4	12.4
50D	49.6	15.8



OPTIC	BEAM ANGLE	UGR
20D	18.1	≤5
25D	24.2	≤5
30D	30.7	≤5
50D	48.2	12.7

TIR OPTIC ACCESSORY	
SBL	
	L

OPTIC	BEAM ANGLE	UGR
20D	19.2	≤5
25D	24.8	≤5
30D	31	≤5
50D	48.2	12.7



OPTIC	BEAM ANGLE	UGR
20D	18.2	≤5
25D	25.4	≤5
30D	31.8	5.5
50D	50.4	13.5

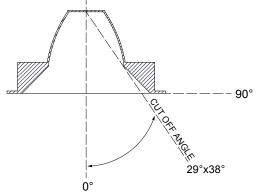
GLARE CONTROL

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.

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• Cutoff angle of NA is 29°x38° ;

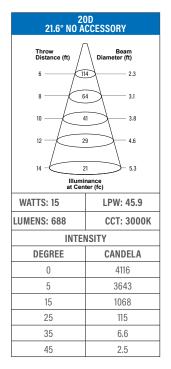


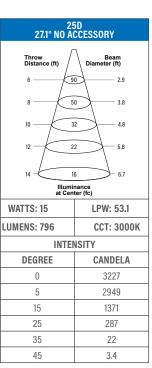
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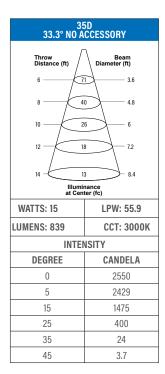
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DB NAME		ТҮРЕ	
RDERING CODE			

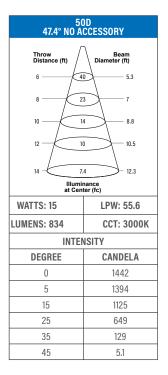
LUMINUS CTM14

PHOTOMETRIC DATA

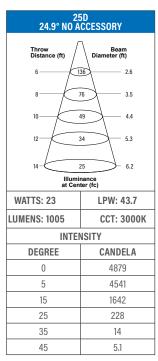


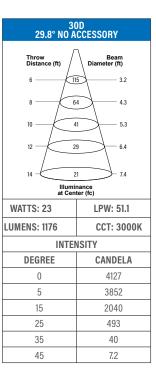


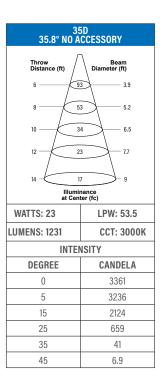


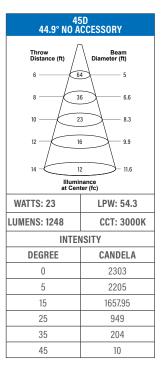


LUMINUS CTM18









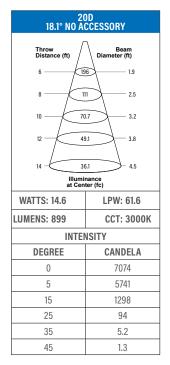
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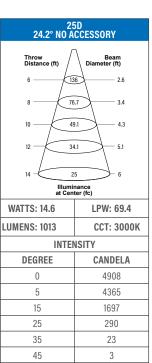
In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.

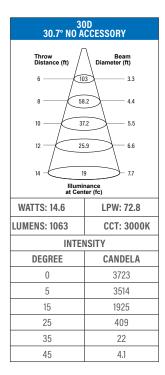
ROJECT INFOR	MATION		
DB NAME		ТҮРЕ	
RDERING CODE			

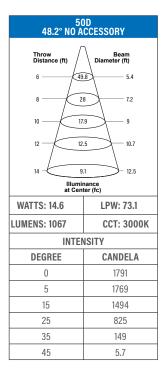
NICHIA

PHOTOMETRIC DATA

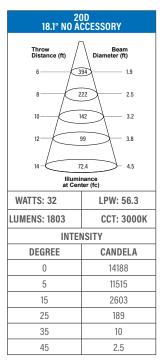


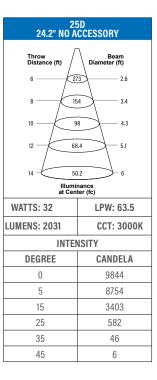


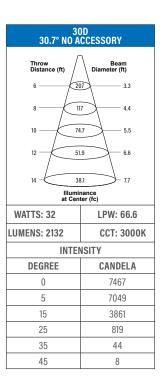


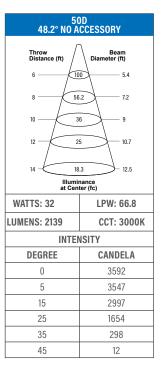


NICHIA









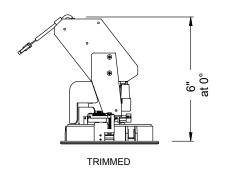
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PROJECT INFORMATION				
JOB NAME		ТҮРЕ		
ORDERING CODE				

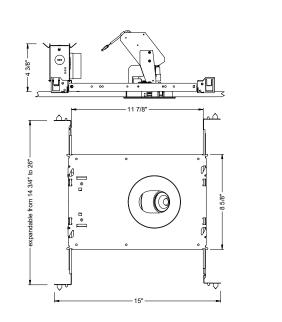
MOUNTING OPTIONS

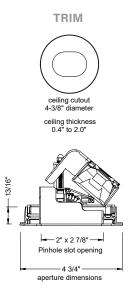
FIXTURE HEIGHT



NC - NEW CONSTRUCTION

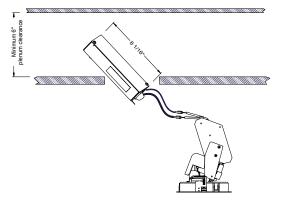
TRIM





RET - RETRO

TRIM/TRIMLESS



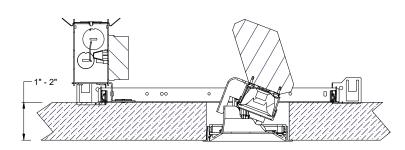
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MOUNTING OPTIONS (CONTINUED)

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

CEILING THICKNESS				
	MOUNTING TYPE			
FIXTURE TYPE	NC, IC, ICAT, CP, RET	NC, IC, ICAT, CP, RET		
	STANDARD CEILING THICKNESS	THICK CEILING THICKNESS		
TRIM	0.4" to 1.1"	1.0" to 2.0"		
TRIMLESS	0.4" to 1.1"	1.0" to 2.0"		
MILLWORK (TRIMLESS)	0.5" to 1.1"	1.0" to 2.0"		

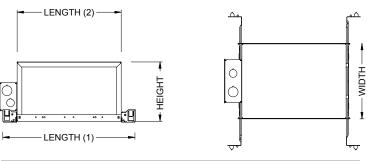
TC - THICK CEILING (1" TO 2") APPLICATION TRIM/TRIMLESS



THICK CEILING FIXTURE INFO					
TILT ROTATION CEILING THICKNESS					
0° - 20°	360°	UP TO 2"			
20° - 30°	160°	UP TO 2"			
30° - 40°	160°	UP TO 1.625"			

PROJECT INFORMATION				
JOB NAME		ТҮРЕ		
ORDERING CODE				

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



BOX SIZE	L1	L 2	W	Н
A	15 - 7/16"	11 - 3/4"	8 - 1/2"	6 - 3/4"
В	18 - 1/4"	14 - 7/8"	12 - 1/8"	11 - 1/4"
С	18 - 1/4"	14 - 7/8"	12 - 1/8"	6 - 3/4"

BOX TYPE / LUMEN OUTPUT - NARROW BEAMS - LUMINUS (20° - 50°)					
LUMEN OUTPUT	BOX - A BOX - B BOX - C				
	СР	CP IC ICAT			ICAT
13LM				~	

BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS - LUMINUS (30° - 50°)					
	BOX - A			BOX - B	BOX -C
LUMEN OUTPUT	CP	IC	ICAT	IC	ICAT
20LM				~	

BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS - NICHIA (20° - 50°)					
LUMEN OUTPUT	BOX - A			BOX - B	BOX -C
	CP	IC	ICAT	IC	ICAT
10LM	~	~	~		
20LM	~	~	v		
30LM					

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PROJECT INFORMATION JOB NAME TYPE ORDERING CODE

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

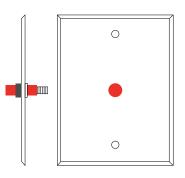
The remote test switch may be mounted adjacent to the LED Fixture by others.

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.



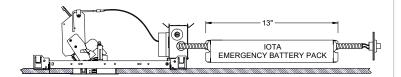
Remote Test Switch

EM MODE OUTPUT (LUMINUS COB - DELIVERED LUMENS)					
LUMEN ORDERING CODE	EM7	EM10	EM12		
ALL OPTIONS (10LM TO 20LM)	440LM	620LM	700LM		
Notes: Based on 35K, 95CRI					

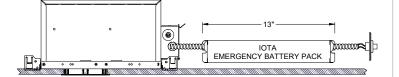
EM MODE OUTPUT (NICHIA COB - DELIVERED LUMENS)					
LUMEN ORDERING CODE	EM7	EM10	EM12		
ALL OPTIONS (10LM TO 30LM)	490LM	690LM	850LM		
Notes: Based on 35K, 85CRI					

NC - NEW CONSTRUCTION

WITH EM BATTERY (REMOTE TEST SWITCH)

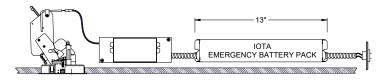


IC / ICAT / CP - INSULATION CONTACT HOUSING WITH EM BATTERY (REMOTE TEST SWITCH)



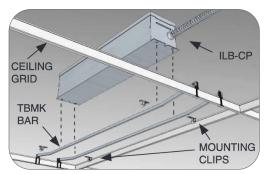
RET - RETROFIT

WITH EM BATTERY (REMOTE TEST SWITCH)



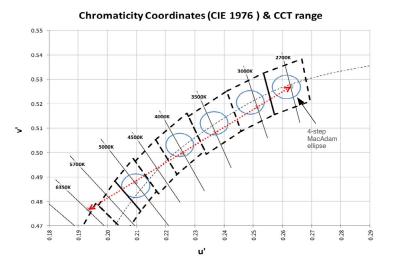
Accessory

76066 Optional T-Grid Mounting Kit¹



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

LUMINUS 95CRI



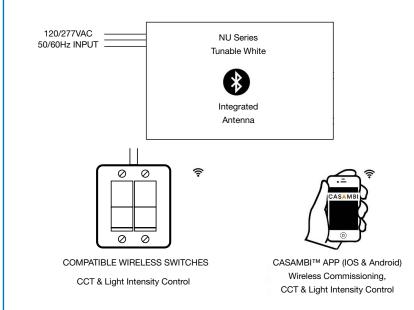
 PROJECT INFORMATION

 JOB NAME
 TYPE

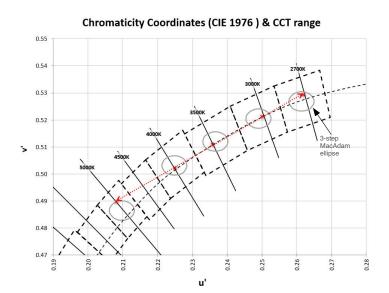
 ORDERING CODE
 TYPE

WIRING DIAGRAMS

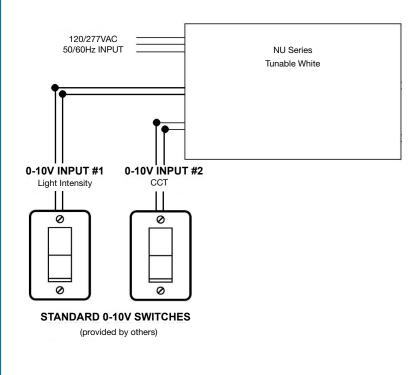
"CAS" CASAMBI CONTROLS



NICHIA 80CRI



"DIM10Z" HARDWIRED 0-10V CONTROL



NOTES

1 Consult factory to order compatible wireless switches.

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