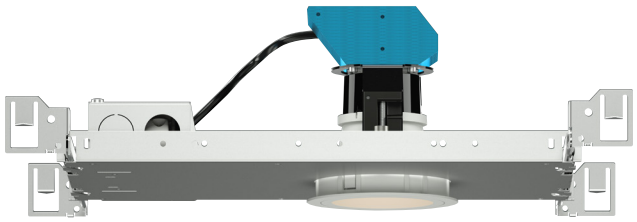
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

NU3

3" Round Downlight Deep Regress Tunable White

NSF | AT airtight | DF dead-front | PR plenum rated | wet rated





Trim



Trimless



Trimless Millwork

20° - 45° BEAM (Note: Specifications are subject to change without notice)		
18mm LUMINUS COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
20LM	1570LM @35K/95CRI	23W
Notes	Delivered lumens based on 45D optic with no lens, (see page 2)	

20° - 50° BEAM (Note: Specifications are subject to change without notice)		
14mm LUMINUS COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
13LM	980LM @35K/95CRI	15W
Notes	Delivered lumens based on 35D optic with no lens, (see page 2)	

20° - 50° BEAM (Note: Specifications are subject to change without notice)		
18mm NICHIA COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
10LM	1370LM @35K/85CRI	15W
20LM	1630LM @35K/85CRI	18W
30LM	2400LM @35K/85CRI	32W
Notes	Delivered lumens based on 30D optic with no lens, (see page 3)	

FEATURES

- Quiet Ceiling Achieved Through 2" Deep Regress
- Superior 32.5° Cut Off Angle
- 1/16" micro flange
- UGR <5
- 20° - 50° Optical Beam Control
- Multiple Mounting, Glare Control Options, Trims, And Finishes Available

DIMMING AND CONTROLS

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

CONSTRUCTION

- Lexan™ (PC) highly resistant to impact and heat (240°F)
- Optimal material for wireless signal connectivity
- Shatter proof acrylic bezel lens
- Electrocoated 16-gauge cold-rolled steel construction
- Accommodates ceiling thickness from 1/8" to 1-5/8"

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

LISTING

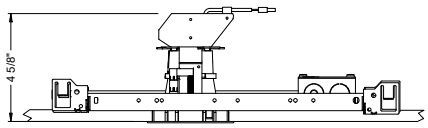
- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- Non-conductive, dead-front construction (Shower Approved)
- NSF/ANSI-2 Listed, with lens (Non-Food and Splash Zones)
- **Declare.** - LBC Red List Approved
- 5 Year Limited warranty

ELECTRICAL

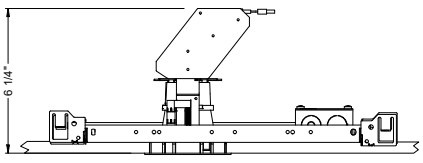
- 120V-277V
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Max. ambient installation temperature 95°F (35°C)
- Battery Backup not offered. Emergency Generator/Inverter/ Controls-Override Device supplied by others

FIXTURE HEIGHT

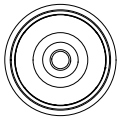
LUMINUS: LED LIGHT ENGINE: 1300LM
NICHIA: LED LIGHT ENGINE: 1000LM - 2000LM



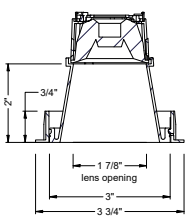
LUMINUS: LED LIGHT ENGINE: 2000LM
NICHIA: LED LIGHT ENGINE: 3000LM



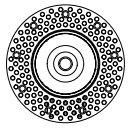
TRIMMED



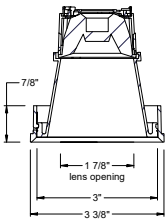
ceiling cutout
3-3/8" diameter
ceiling thickness
1/8" to 1-5/8"



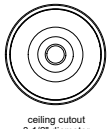
TRIMLESS



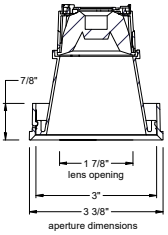
ceiling cutout
3-1/2" diameter
ceiling thickness
3/8" to 1-3/4"



MILLWORK



ceiling cutout
3-1/2" diameter
ceiling thickness
1/2" to 1-3/4"



100886

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

20°- 50° BEAM ORDERING CODE

SERIES	**NU3**	NU3
TYPE	**RDDR**	round downlight deep regress
	RDTDR	round downlight trimless deep regress
	RDTM-WDR	round downlight trimless millwork deep regress
LED	**TW**	tunable white (Luminus)
DELIVERED LUMENS	**13LM**[1]	980 lm
	20LM[2]	1570 lm
	Standard Configuration: 3500K 40D NL **Calculated Delivered Lumens** = [Delivered Lumen Value] x [CCT Multiplier] x [Optic Multiplier] x [Lens Multiplier]	
CCT	**2765**	2700K to 6500K tunable white

CCT	2700K	3000K	3500K	4000K	5000K	5700K	6500K
CCT MULTIPLIER FOR LUMEN OUTPUT	0.91	0.98	1.00	0.99	1.00	1.01	1.02
EML RATIO	0.49	0.57	0.68	0.79	0.96	1.04	1.12

	1840	1800K to 4000K tunable white

CCT	1800K	2000K	2400K	2700K	3000K	3500K	4000K
CCT MULTIPLIER FOR LUMEN OUTPUT	0.67	0.74	0.8	0.85	0.88	0.95	1.01
EML RATIO	0.21	0.33	0.46	0.53	0.59	0.67	0.73

CRI	**95**	95 typical, 90 minimum	
OPTIC & LM MULTIPLIER SEE PAGE 4	**20D**	20 degrees	(0.92)
	25D	25 degrees	(0.90)
	30D	30 degrees	(0.94)
	35D	35 degrees	(1.00)
	45D	45 degrees	(0.99)
	50D	50 degrees	(0.98)
BEZEL LENS SEE PAGE 4	**NL**[3]	no lens	(1.00)
	DL[4]	diffused lens	(0.83)
	HET	high efficiency textured lens, similar to Solite™	(0.90)
	SBL	smoothing beam lens	(0.93)
	HCL	honeycomb louver	(0.76)
TRIM COLOR SEE PAGE 4	**BK**	black	
	WH	white	
	MC	matte chrome	
	BZ	bronze	
	WT	wheat	
	Not applicable to trimless option. Do not include in trimless ordering code.		
BEZEL COLOR SEE PAGE 4	**BK**	black	(0.85)
	WH	white	(0.98)
	MC	matte chrome	(0.94)
	DC[5]	dark chrome, vacuum metalized	(0.90)
	GN[5]	gun metal, vacuum metalized	(0.98)
	SA[5]	specular, vacuum metalized	(1.00)
	CU[5]	copper, vacuum metalized	(0.94)
	AU[5]	gold, vacuum metalized	(0.96)

20°- 50° BEAM ORDERING CODE

MOUNTING OPTIONS SEE PAGE 8, 9	**NC**	new construction with ceiling fitting plate
VOLTAGE	**UNV**	120V-277V
DIMMING	**CASZ**	Casambi dim to zero
	NLT	nLight control interface: standard Cat-5/RJ45 connection (female), dim to off
	DALIZ	eldoLED flicker free DALI-2 dimming to 0%
	DIM10Z[6]	eldoLED flicker free 0-10V dimming to 0%

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:

NU3 - RDDR - TW - 20LM - 2765 - 95 - 35D - SBL - WH - DC - NC - UNV - DIM10

NOTES

1. 13LM not available in 30D/45D optics.
2. 20LM not available in 20D/50D optics.
3. NL option does not meet requirement for AT/DF/WET/NSF listings.
4. DL/HET lens options not recommended in WHITE bezel color, UGR>20.
5. DL/HET lens options available in DC/GN/SA/CU/AU color with 45D/50D optics.
6. 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.

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alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

20°- 50° BEAM ORDERING CODE

SERIES	**NU3**	NU3
TYPE	**RDDR**	round downlight deep regress
	RDTDR	round downlight trimless deep regress
	RDTM-WDR	round downlight trimless millwork deep regress
LED	**TW**	tunable white (Nichia)
DELIVERED LUMENS	**15LM**	1370 lm
	20LM	1630 lm
	30LM	2400 lm
	Standard Configuration: 3500K 30D NL **Calculated Delivered Lumens =** [Delivered Lumen Value] x [CCT Multiplier] x [Optic Multiplier] x [Lens Multiplier]	
CCT	**2750**	2700K to 5000K tunable white

CCT	2700K	3000K	3500K	4000K	5000K
EML RATIO	0.43	0.51	0.63	0.69	0.80

CRI	**80**	80 CRI	
OPTIC & LM MULTIPLIER SEE PAGE 3	**20D**	20 degrees	(0.91)
	25D	25 degrees	(0.92)
	30D	30 degrees	(1.00)
	50D	50 degrees	(0.99)
BEZEL LENS SEE PAGE 3	**NL**[1]	no lens	(1.00)
	DL[2]	diffused lens	(0.85)
	HET	high efficiency textured lens, similar to Solite™	(0.91)
	SBL	smoothing beam lens	(0.94)
	HCL	honeycomb louver	(0.80)
TRIM COLOR SEE PAGE 3	**BK**	black	
	WH	white	
	MC	matte chrome	
	BZ	bronze	
	WT	wheat	
	Not applicable to trimless option. Do not include in trimless ordering code.		
BEZEL COLOR SEE PAGE 3	**BK**	black	(0.85)
	WH	white	(0.98)
	MC	matte chrome	(0.94)
	DC[3]	dark chrome, vacuum metalized	(0.90)
	GN[3]	gun metal, vacuum metalized	(0.98)
	SA[3]	specular, vacuum metalized	(1.00)
	CU[3]	copper, vacuum metalized	(0.94)
	AU[3]	gold, vacuum metalized	(0.96)

20°- 50° BEAM ORDERING CODE

MOUNTING OPTIONS SEE PAGE 8, 9	**NC**	new construction with ceiling fitting plate
VOLTAGE	**UNV**	120V-277V
DIMMING	**CASZ**	Casambi dim to zero
	NLT	nLight control interface: standard Cat-5/RJ45 connection (female), dim to off
	DALIZ	eldoLED flicker free DALI-2 dimming to 0%
	DIM10Z[4]	eldoLED flicker free 0-10V dimming to 0%

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:

NU3 - RDDR - TW - 20LM - 2750 - 80 - 30D - SBL - WH - DC - NC - UNV - DIM10

NOTES

1. NL option does not meet requirement for AT/DF/WET/NSF listings.
2. DL/HET lens options not available in WHITE bezel color.
3. DL/HET lens options available in DC/GN/SA/CU/AU color with 50D optic.
4. 4 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.

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PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

TRIM OPTIONS

TRIM/BEZEL COLORS



BK WH MC CU DC GN AU SA

LUMINUS OPTICAL OPTIONS

- Calculations based on 13LM fixtures, SA bezel, unless otherwise noted
- UGR calculation based on CIE 117-1995; room size: 4H X 8H, reflectance: 70/50/20;

HCL
Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
20D	19.6	8
25D	25	5.4

NL
No Lens



OPTIC	BEAM ANGLE	UGR
20D	19.8	≤5
25D	26	6.1

DL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
20D	31	11.9
25D	36	13.8
35D	41.2	14.3
50D	54	17

NL*
No Lens



OPTIC	BEAM ANGLE	UGR
20D	22	18.2
25D	27.8	16.4
35D	33.4	16.8
50D	48.8	18.4

* White Bezel

SBL
Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
20D	20.4	7.3
25D	26.4	7.4

HET
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
20D	22.2	7.9
25D	27.4	8.6
35D	31.4	8.8
50D	44.6	13.8

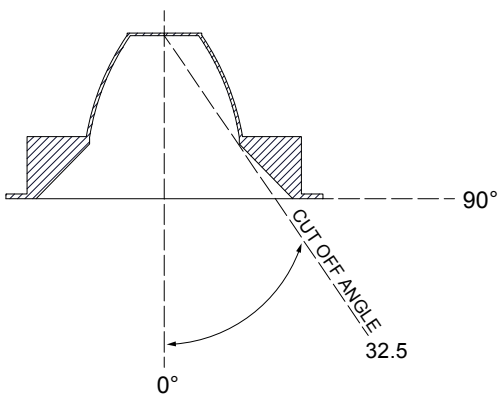
GLARE CONTROL

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 is 32.5 degrees;



100886

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.

alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

TRIM OPTIONS

TRIM/BEZEL COLORS



BK WH MC CU DC GN AU SA

NICHIA OPTICAL OPTIONS

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

HCL
Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
20D	17	≤5
25D	22.8	≤5

NL
No Lens



OPTIC	BEAM ANGLE	UGR
20D	16.8	≤5
25D	23.5	≤5

DL
Diffused Lens



OPTIC	BEAM ANGLE	UGR
20D	29.6	11.8
25D	34	14
30D	39.8	14.8
50D	53.8	18

NL*
No Lens



OPTIC	BEAM ANGLE	UGR
20D	18.6	17.7
25D	25	16.5
30D	31	16.3
50D	49.4	18.7

* White Bezel

SBL
Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
20D	17.2	≤5
25D	23.6	7.2

HET
High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
20D	19.8	6.4
25D	25.2	9.4
30D	29.6	8.2
50D	44.8	14.8

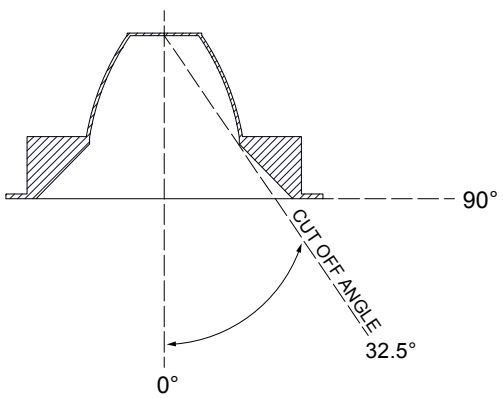
GLARE CONTROL

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 32.5 degrees;



100886

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.

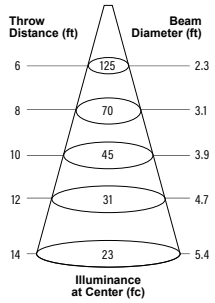
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA

LUMINUS CTM14 - 13LM

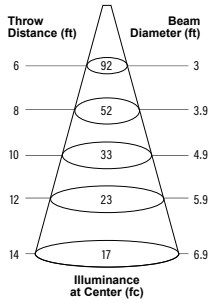
20D
22° NO LENS, WHITE BEZEL



WATTS: 15.4	LPW: 55.9
LUMENS: 861	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	4495
5	3977
15	1214
25	129
35	46
45	41

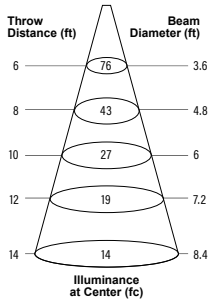
25D
28° NO LENS, WHITE BEZEL



WATTS: 15.4	LPW: 59.4
LUMENS: 914	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	3322
5	3056
15	1438
25	315
35	49
45	29

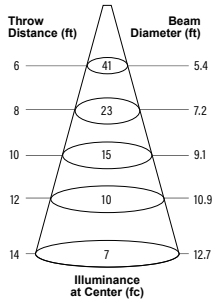
35D
33° NO LENS, WHITE BEZEL



WATTS: 15.4	LPW: 63.6
LUMENS: 979	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	2750
5	2621
15	1608
25	420
35	42
45	29

50D
49° NO LENS, WHITE BEZEL

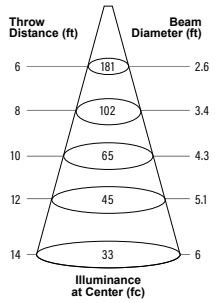


WATTS: 15.4	LPW: 62.9
LUMENS: 969	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	1470
5	1440
15	1212
25	693
35	153
45	28

LUMINUS CTM18 - 20LM

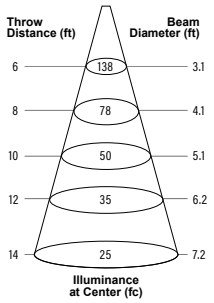
25D
24° HET LENS, SA BEZEL



WATTS: 25.4	LPW: 52.5
LUMENS: 1333	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	6486
5	5955
15	2161
25	319
35	53
45	22

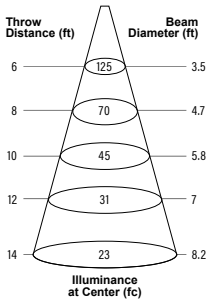
30D
29° HET LENS, SA BEZEL



WATTS: 25.4	LPW: 56.1
LUMENS: 1426	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	4971
5	4719
15	2319
25	586
35	93
45	23

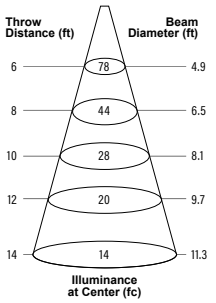
35D
32° HET LENS, SA BEZEL



WATTS: 25.4	LPW: 59.2
LUMENS: 1503	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	4448
5	4343
15	2492
25	718
35	99
45	22

45D
44° HET LENS, SA BEZEL



WATTS: 25.4	LPW: 58.2
LUMENS: 1479	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	2711
5	2810
15	2046
25	1011
35	237
45	26

100886

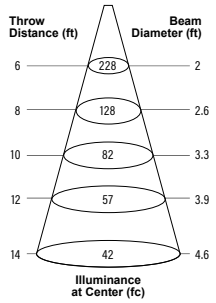
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

PHOTOMETRIC DATA (CONTINUED)

NICHIA - 15LM

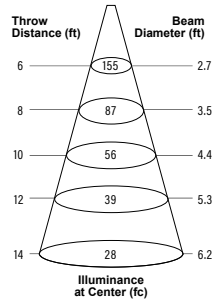
20D
19° NO LENS, WHITE BEZEL



WATTS: 17.8	LPW: 67.6
LUMENS: 1203	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	8208
5	6667
15	1630
25	133
35	55
45	49

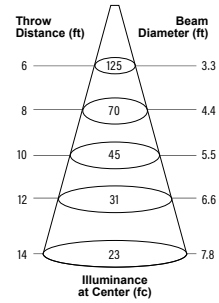
25D
25° NO LENS, WHITE BEZEL



WATTS: 17.8	LPW: 70.9
LUMENS: 1262	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	5570
5	4978
15	1963
25	340
35	57
45	35

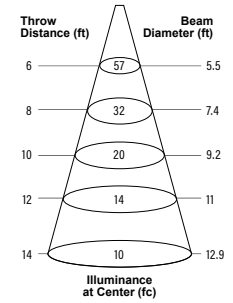
30D
31° NO LENS, WHITE BEZEL



WATTS: 17.8	LPW: 77
LUMENS: 1371	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	4504
5	4253
15	2373
25	474
35	45
45	31

50D
49° NO LENS, WHITE BEZEL

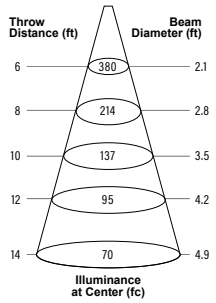


WATTS: 17.8	LPW: 76.6
LUMENS: 1363	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	2036
5	2025
15	1794
25	986
35	191
45	32

NICHIA - 30LM

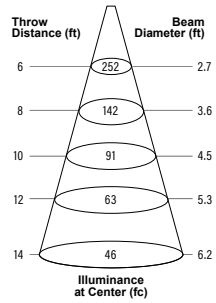
20D
20° HET LENS, SA BEZEL



WATTS: 32.2	LPW: 65.1
LUMENS: 2095	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	13688
5	11672
15	3178
25	344
35	64
45	24

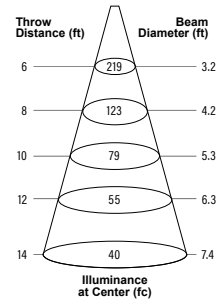
25D
25° HET LENS, SA BEZEL



WATTS: 32.2	LPW: 64.4
LUMENS: 2075	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	9069
5	8281
15	3315
25	689
35	110
45	26

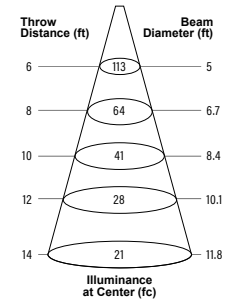
30D
29° HET LENS, SA BEZEL



WATTS: 32.2	LPW: 69.9
LUMENS: 2250	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	7838
5	7466
15	3806
25	917
35	123
45	24

50D
46° HET LENS, SA BEZEL



WATTS: 32.2	LPW: 68.9
LUMENS: 2218	CCT: 3000K

INTENSITY	
DEGREE	CANDELA
0	3875
5	4044
15	3067
25	1546
35	365
45	34

100886

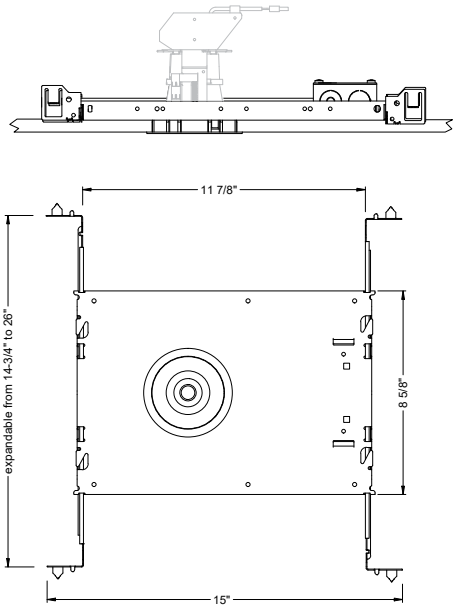
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

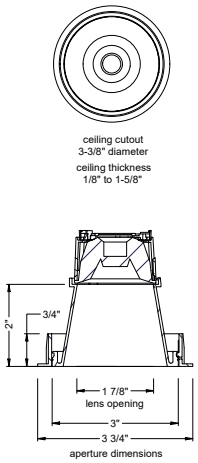
MOUNTING OPTIONS

NC - NEW CONSTRUCTION

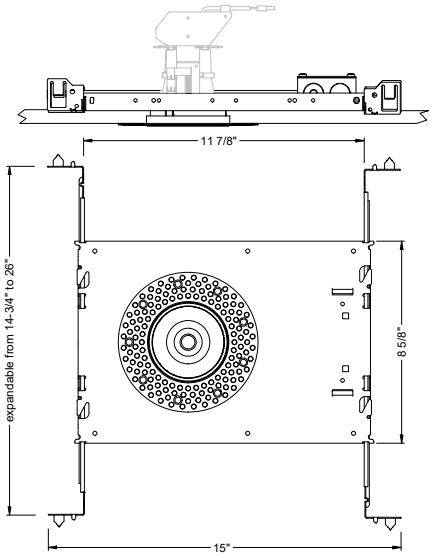
TRIM



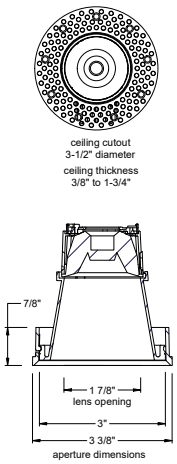
TRIM



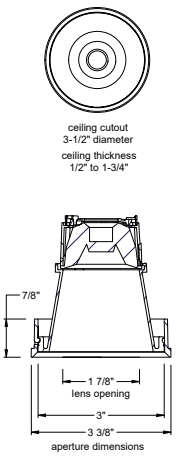
TRIMLESS



TRIMLESS



TRIMLESS/MILLWORK



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

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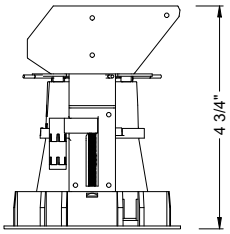
alphabet

PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

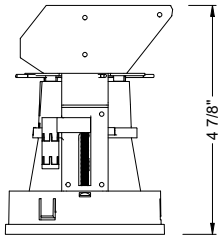
MOUNTING OPTIONS (CONTINUED)

FIXTURE HEIGHT

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

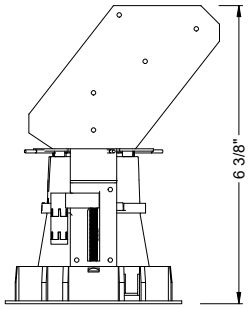


TRIMMED

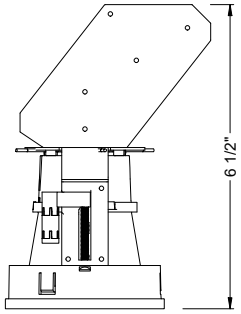


TRIMLESS & MILLWORK

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



TRIMMED



TRIMLESS & MILLWORK

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

CEILING THICKNESS	
FIXTURE TYPE	MOUNTING TYPE
	NC
TRIM	1/8" to 1-5/8"
TRIMLESS	3/8" to 1-3/4"
MILLWORK (TRIMLESS)	1/2" to 1-3/4"

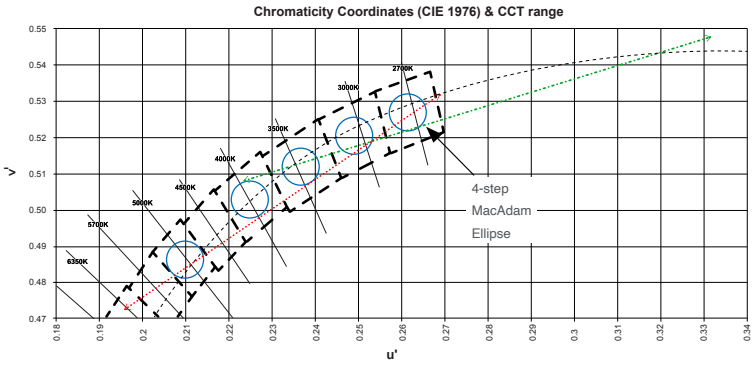
100886

alphabet

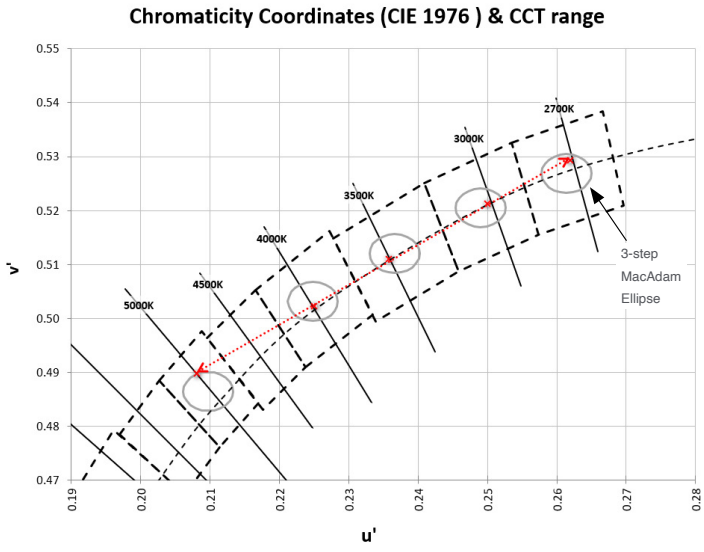
PROJECT INFORMATION			
JOB NAME		TYPE	
ORDERING CODE			

TUNABLE WHITE

LUMINUS 95CRI

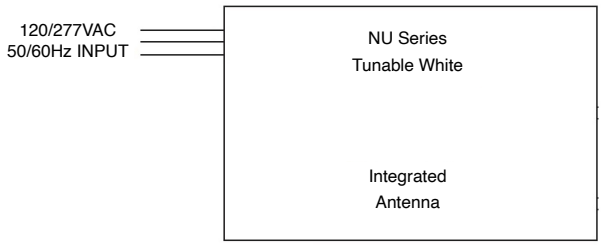


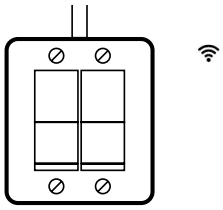
NICHIA 80CRI



WIRING DIAGRAMS

"CAS" CASAMBI CONTROLS





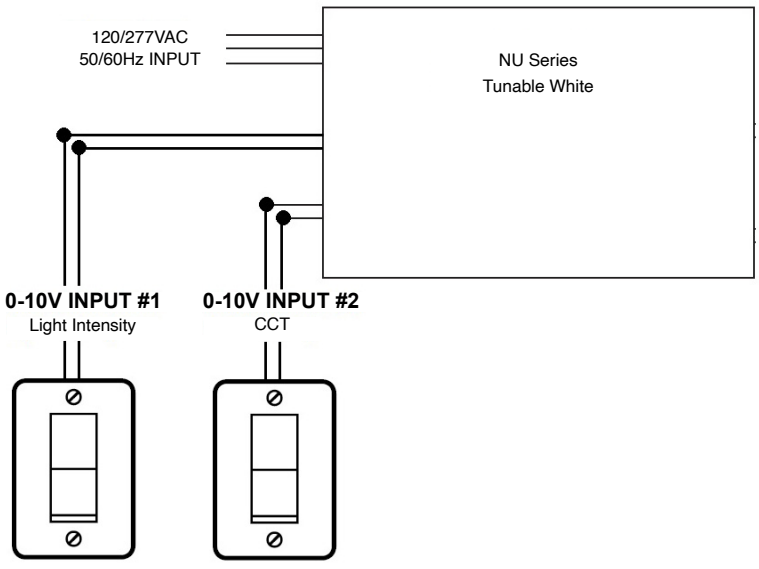
COMPATIBLE WIRELESS SWITCHES

CCT & Light Intensity Control



CASAMBI™ APP (IOS & Android)
Wireless Commissioning,
CCT & Light Intensity Control

"DIM10Z" HARDWIRED 0-10V CONTROL



STANDARD 0-10V SWITCHES

(provided by others)

NOTES

1 Consult factory to order compatible wireless switches.

100886