

alphabet

NU4

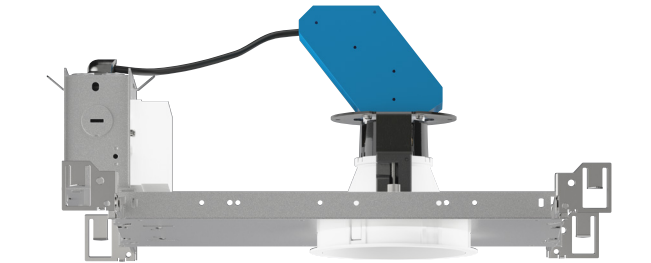
4" Round Downlight Deep Regress Tunable White



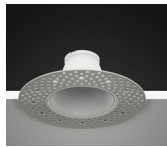
PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

30° - 45° BEAM (Note: Specifications are subject to change without notice)		
18mm LUMINUS COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
20LM	1590LM @35K/95CRI	23W
Notes	Delivered lumens based on 40D optic with no lens, (see page 2)	

20° - 45° BEAM (Note: Specifications are subject to change without notice)		
14mm LUMINUS COB PERFORMANCE DATA		
LED LIGHT ENGINE	NOMINAL DELIVERED LUMENS	SYSTEM WATTAGE
13LM	1010LM @35K/95CRI	15W
Notes	Delivered lumens based on 35D optic with no lens, (see page 2)	



Trim



Trimless



Trimless Millwork

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	1510LM @35K/85CRI	15W
20LM	1810LM @35K/85CRI	18W
30LM	2740LM @35K/85CRI	32W
Notes	Delivered lumens based on 30D optic with no lens, (see page 3)	



FEATURES

- Quiet ceiling achieved through 2.5" deep regress
- Superior 38.5° cut off angle
- UGR <5
- 9° - 55° 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 bluetooth dimming to 0%
- NLight control interface dimming to 0%

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 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: L₇₀ > 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

LISTING

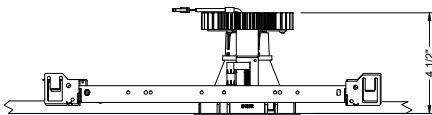
- ULus Listed to UL1598 & UL2108; cUL Listed to CSA C22.2 #250.0
- IP65 with lens - Suitable for wet locations with lens - Suitable for damp locations without lens
- Non-conductive, dead-front construction (Shower Approved)
- NSF/ANSI-2 Listed, with lens (Non-Food and Splash Zones)
- 5 Year Limited warranty

ELECTRICAL

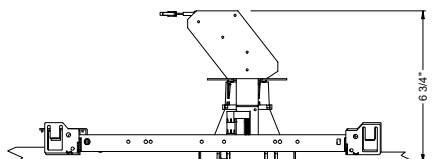
- 120V only Triac/ELV, 120V-277V
- Power factor ≥ 0.9
- 2kV driver input surge protection
- Max. ambient installation temperature 95°F (35°C)
- Battery Backup not offered. Emergency Generator/Inverter/Controls-Override Device supplied by others.

FIXTURE HEIGHT

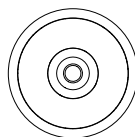
LUMINUS: LED LIGHT ENGINE: 1300LM
NICHIA: LED LIGHT ENGINE: 1000LM - 2000LM



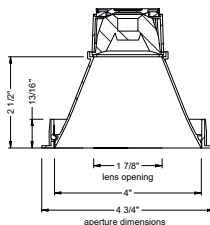
LUMINUS: LED LIGHT ENGINE: 2000LM
NICHIA: LED LIGHT ENGINE: 3000LM



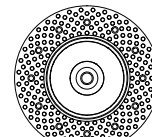
TRIMMED



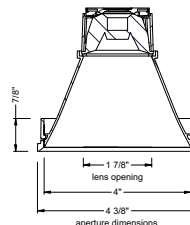
ceiling cutout
4-3/8" diameter
ceiling thickness
1/8" to 1-5/8"



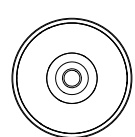
TRIMLESS



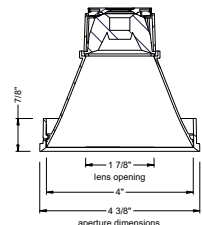
ceiling cutout
4-1/2" diameter
ceiling thickness
3/8" to 1-3/4"



MILLWORK



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



alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

20°- 45° BEAM ORDERING CODE

SERIES	NU4	NU4																								
TYPE	RDDR	round downlight deep regress																								
	RDTDR	round downlight trimless deep regress																								
	RDTMWRDR	round downlight trimless millwork deep regress																								
LED	TW	tunable white (Luminus)																								
DELIVERED LUMENS	13LM ¹	1010 lm																								
	20LM ²	1590 lm																								
Standard Configuration: 3500K 40D NL Calculated Delivered Lumens = [Delivered Lumen Value] x [CCT Multiplier] x [Optic Multiplier] x [Lens Multiplier]																										
CCT	2765 to 6500K tunable white	<table border="1"> <thead> <tr> <th>CCT</th> <th>2700K</th> <th>3000K</th> <th>3500K</th> <th>4000K</th> <th>5000K</th> <th>5700K</th> <th>6500K</th> </tr> </thead> <tbody> <tr> <td>CCT MULTIPLIER FOR LUMEN OUTPUT</td> <td>0.91</td> <td>0.98</td> <td>1.00</td> <td>0.99</td> <td>1.00</td> <td>1.01</td> <td>1.02</td> </tr> <tr> <td>EML RATIO</td> <td>0.49</td> <td>0.57</td> <td>0.68</td> <td>0.79</td> <td>0.96</td> <td>1.04</td> <td>1.12</td> </tr> </tbody> </table>	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
		CCT	2700K	3000K	3500K	4000K	5000K	5700K	6500K																	
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CCT	1840 to 4000K tunable white	<table border="1"> <thead> <tr> <th>CCT</th> <th>1800K</th> <th>2000K</th> <th>2400K</th> <th>2700K</th> <th>3000K</th> <th>3500K</th> <th>4000K</th> </tr> </thead> <tbody> <tr> <td>CCT MULTIPLIER FOR LUMEN OUTPUT</td> <td>0.67</td> <td>0.74</td> <td>0.8</td> <td>0.85</td> <td>0.88</td> <td>0.95</td> <td>1.01</td> </tr> <tr> <td>EML RATIO</td> <td>0.21</td> <td>0.33</td> <td>0.46</td> <td>0.53</td> <td>0.59</td> <td>0.67</td> <td>0.73</td> </tr> </tbody> </table>	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
		CCT	1800K	2000K	2400K	2700K	3000K	3500K	4000K																	
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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)																								
	30D	30 degrees (0.91)																								
	35D	35 degrees (0.97)																								
	40D	40 degrees (1.00)																								
	45D	45 degrees (0.97)																								
RECESSED LENS SEE PAGE 4	NL ³	no lens (1.00)																								
	DL	diffused lens (0.86)																								
	HET	high efficiency textured lens, similar to Solite™ (0.91)																								
	SBL	smoothing beam lens (0.92)																								
	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 3	BK	black (0.90)																								
	WH	white (1.00)																								
	MC	matte chrome (0.96)																								
	CU	copper, vacuum metalized (0.97)																								
	DC	dark chrome, vacuum metalized (0.95)																								
	GN	gun metal, vacuum metalized (0.99)																								
	AU	gold, vacuum metalized (0.98)																								
	SA	specular, vacuum metalized (1.00)																								

20°- 45° BEAM ORDERING CODE

MOUNTING OPTIONS SEE PAGE 8, 9	NC	new construction with ceiling fitting plate
	IC	insulation contact housing
	ICAT	insulation contact/airtight housing
	CP	chicago plenum housing
	RET	retrofit, no ceiling fitting plate
VOLTAGE	120	120V
	UNV	120V-277V
DIMMING	DIM10Z ⁴	eldoLED flicker free 0-10V dimming to 0%
	DALIZ	eldoLED flicker free DALI dimming to 0%
	NLT	nLight control interface: standard Cat-5/RJ45 connection (female), dim to off
	CASZ	Casambi Bluetooth dim to zero

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:
NU4 - RDDR - TW - 20LM - 2765 - 95 - 35D - SBL - WH - DC - NC - UNV - DIM10 - EM7

NOTES

- 13LM not available with 40D optic.
- 20LM not available with 20D optic.
- NL option does not meet requirement for AT/DF/WET/NSF listings.
- 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

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20°- 50° BEAM ORDERING CODE

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DELIVERED LUMENS	15LM	1510 lm																	
	20LM	1810 lm																	
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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																	
		<table border="1"> <thead> <tr> <th colspan="6">NICHIA TW CCT & Multiplier Table</th> </tr> <tr> <th>CCT</th> <th>2700K</th> <th>3000K</th> <th>3500K</th> <th>4000K</th> <th>5000K</th> </tr> </thead> <tbody> <tr> <td>EML RATIO</td> <td>0.43</td> <td>0.51</td> <td>0.63</td> <td>0.69</td> <td>0.80</td> </tr> </tbody> </table>		NICHIA TW CCT & Multiplier Table						CCT	2700K	3000K	3500K	4000K	5000K	EML RATIO	0.43	0.51	0.63
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	25D	25 degrees	(0.96)																
	30D	30 degrees	(1.00)																
	50D	50 degrees	(0.95)																
RECESSED LENS SEE PAGE 4	NL¹	no lens	(1.00)																
	DL	diffused lens	(0.88)																
	HET	high efficiency textured lens, similar to Solite™	(0.91)																
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	WT	wheat																	
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BEZEL COLOR SEE PAGE 4	BK	black	(0.90)																
	WH	white	(1.00)																
	MC	matte chrome	(0.56)																
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20°- 50° BEAM ORDERING CODE

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	IC²	insulation contact housing
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	CASZ	Casambi Bluetooth dim to zero

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Follow the steps to specify your fixture, example:
NU4 - RDDR - TW - 20LM - 2750 - 80 - 30D - SBL - WH - DC - NC - UNV - DIM10 - EM7

NOTES

- NL option does not meet requirement for AT/DF/WET/NSF listings.
- IC/ICAT/CP not available in 30LM.
- Requires 2 wall controllers (see wiring diagram)

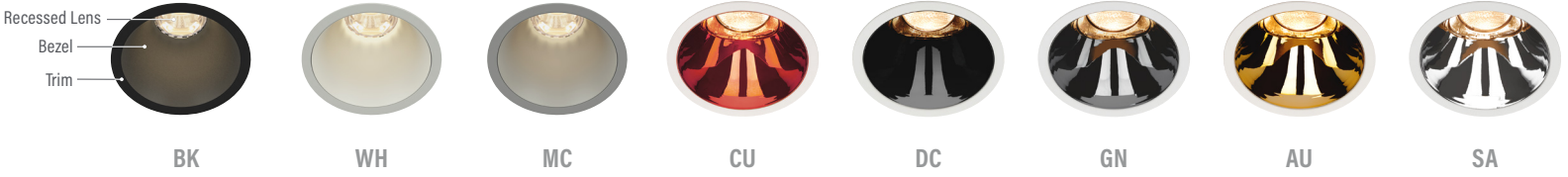
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PROJECT INFORMATION		
JOB NAME		TYPE
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TRIM OPTIONS

TRIM/BEZEL COLORS



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;

TIR OPTIC ACCESSORY

Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
20D	20.8	≤5
30D	26.8	≤5
35D	31.5	8.3
45D	42.2	11.5

NL

No Lens



OPTIC	BEAM ANGLE	UGR
20D	21.9	≤5
30D	28.8	≤5
35D	33.3	5.4
45D	46.3	13.4

DL*

Diffused Lens



OPTIC	BEAM ANGLE	UGR
20D	43	14.2
30D	45.1	15.3
35D	46.7	15.8
45D	54.3	18

* White Bezel

HET

High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
20D	27.8	≤5
30D	31.9	7.2
35D	34.9	8.5
45D	45	13.3

SBL

Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
20D	22.7	≤5
30D	29.2	5.8
35D	33.8	6.1
45D	46.1	12.8

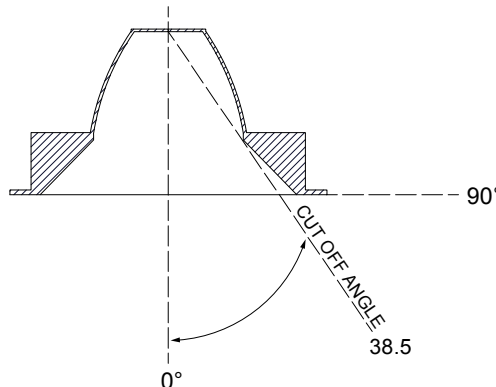
GLARE CONTROL

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 38.5 degrees;

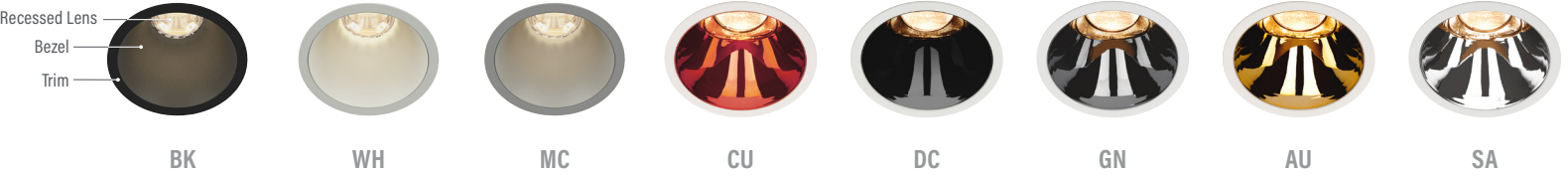


alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
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 ACCESSORY

Honeycomb Louver



OPTIC	BEAM ANGLE	UGR
20D	18.1	≤5
25D	24	≤5
30D	29.3	7.9
50D	43.4	12

NL

No Lens



OPTIC	BEAM ANGLE	UGR
20D	18.7	≤5
25D	25.4	5.5
30D	31.1	5.1
50D	47.7	14

CL

Clear Lens



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

DL*

Diffused Lens



OPTIC	BEAM ANGLE	UGR
20D	41.1	15.5
25D	43	16.4
30D	44.8	17
50D	53.7	19.3

*White Bezel

HET

High Efficiency Textured Lens



OPTIC	BEAM ANGLE	UGR
20D	24.4	≤5
25D	28.6	7
30D	32.4	8.5
50D	45	14.7

SBL

Smoothing Beam Lens



OPTIC	BEAM ANGLE	UGR
20D	19.4	≤5
25D	25.9	6.3
30D	31.3	6.4
50D	47.7	13.9

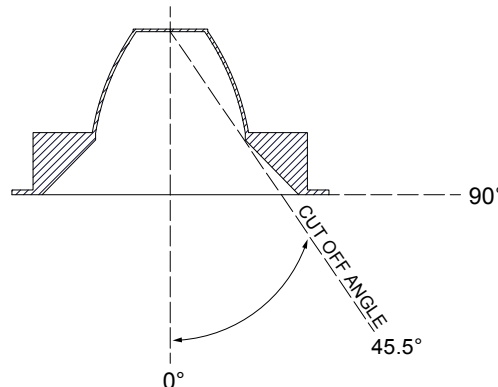
GLARE CONTROL

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 45.5 degrees;

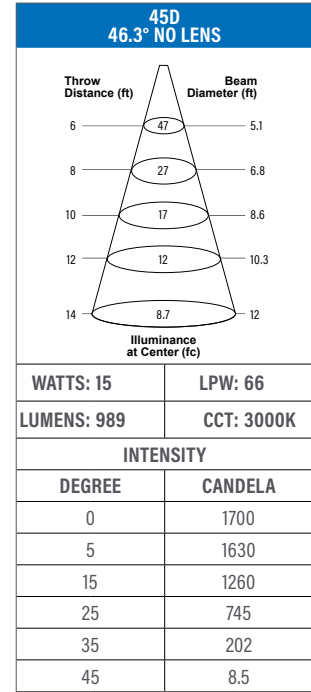
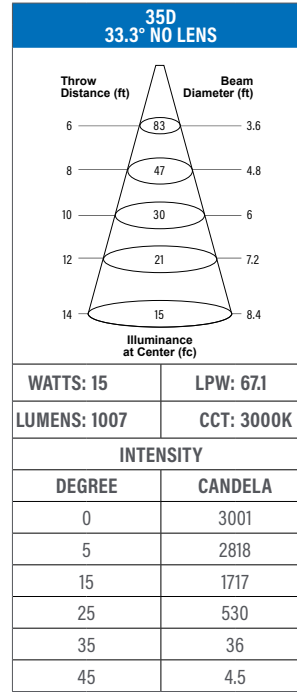
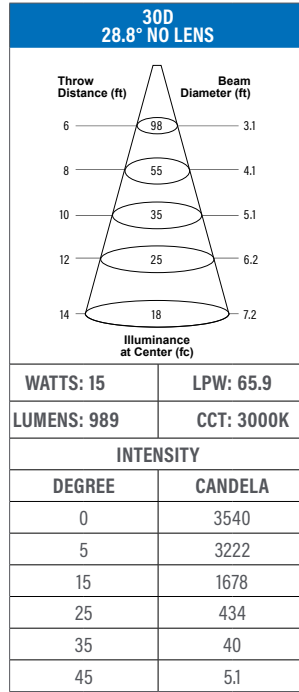
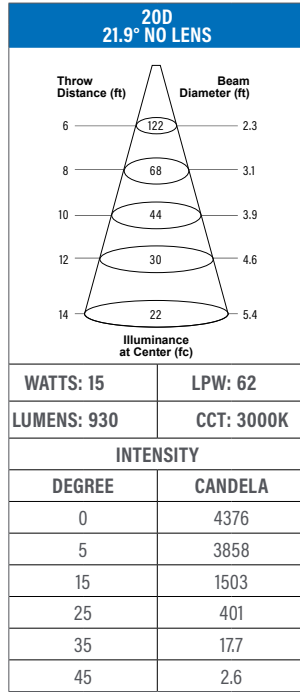


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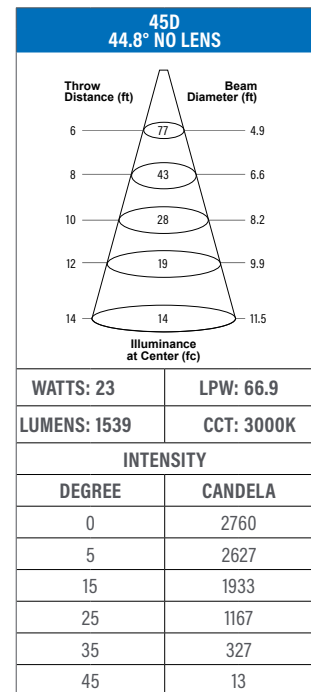
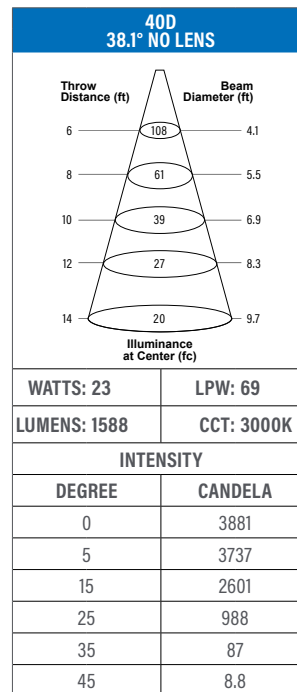
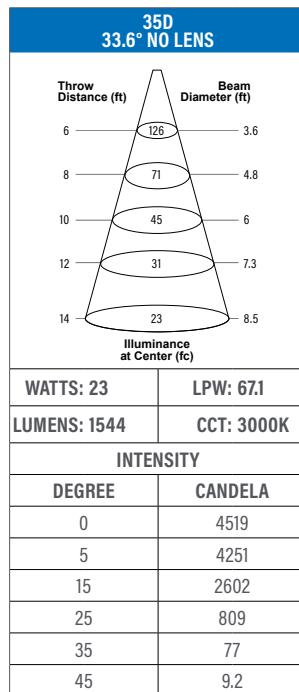
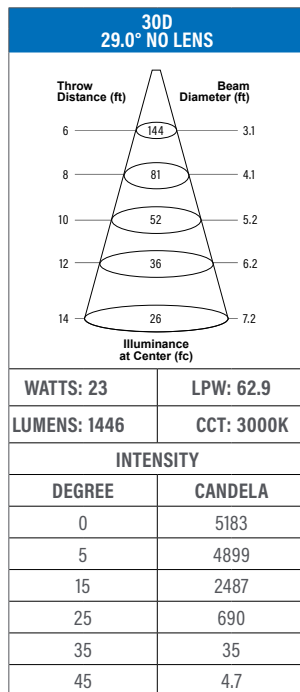
PROJECT INFORMATION		
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PHOTOMETRIC DATA

LUMINUS CTM14



LUMINUS CTM18

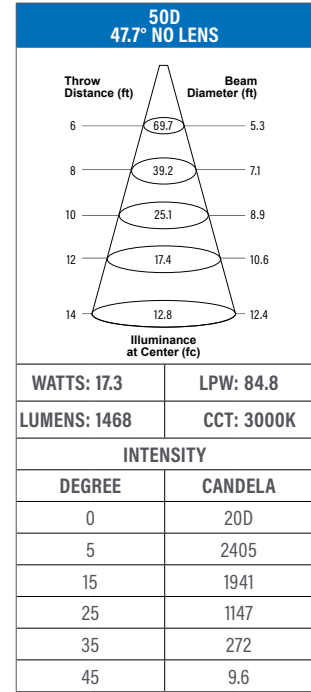
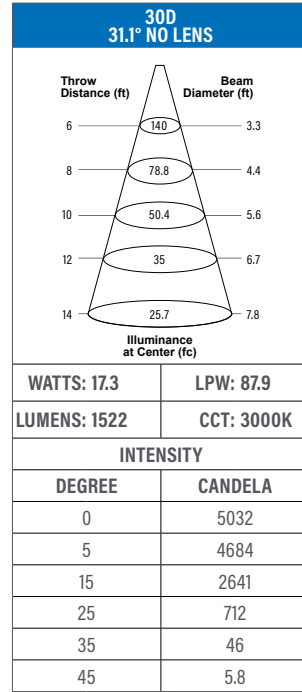
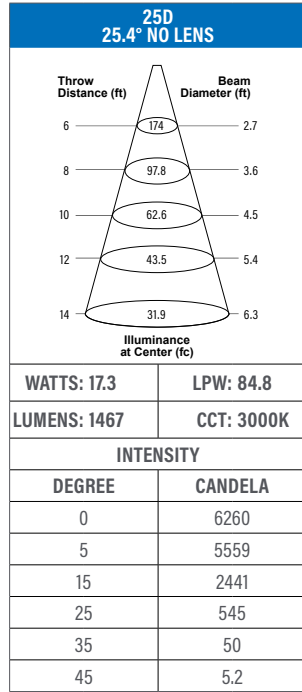
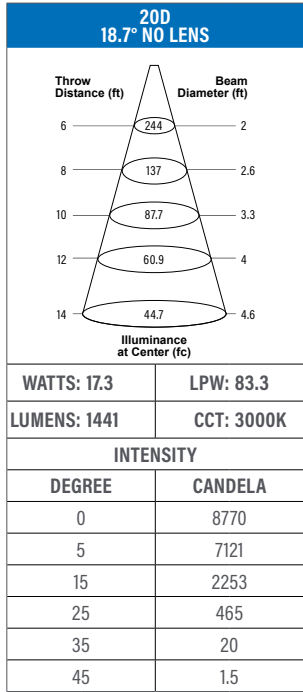


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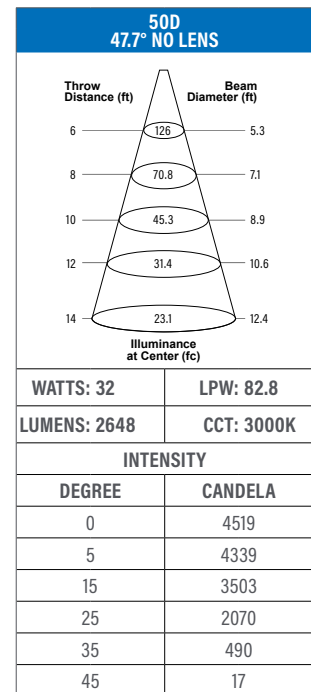
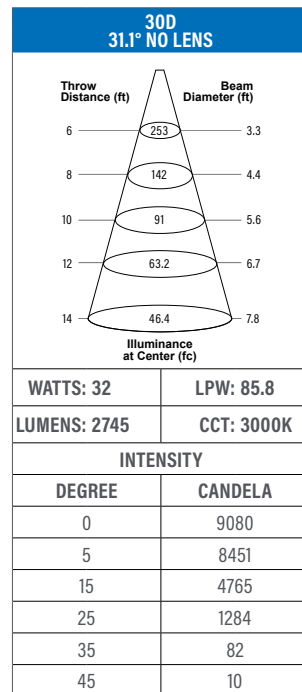
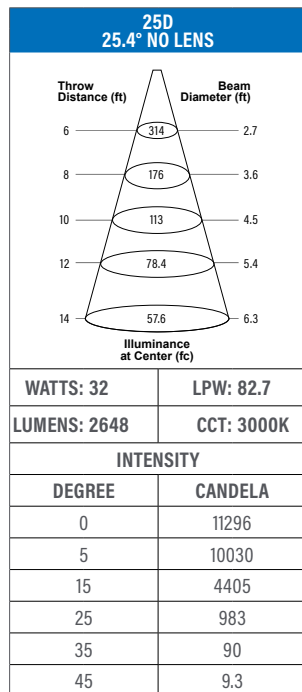
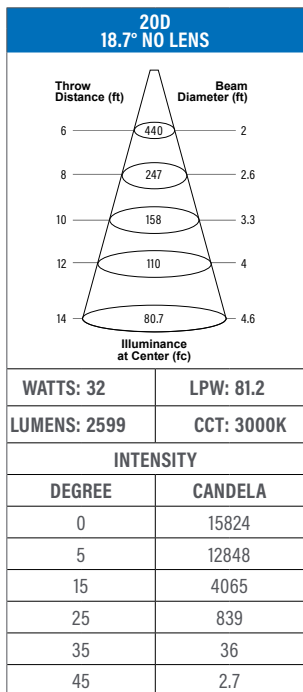
PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

PHOTOMETRIC DATA (CONTINUED)

NICHIA



NICHIA



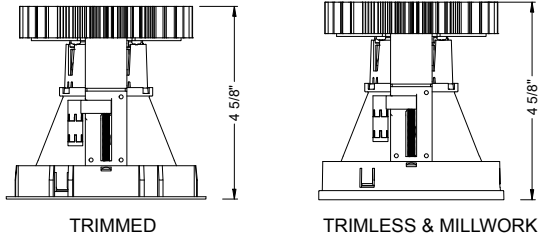
alphabet

PROJECT INFORMATION		
JOB NAME		TYPE
ORDERING CODE		

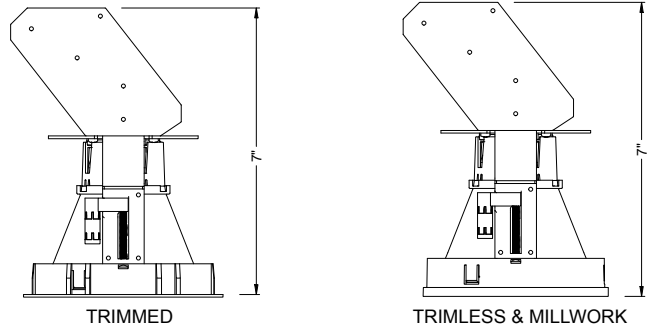
MOUNTING OPTIONS

FIXTURE HEIGHT

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

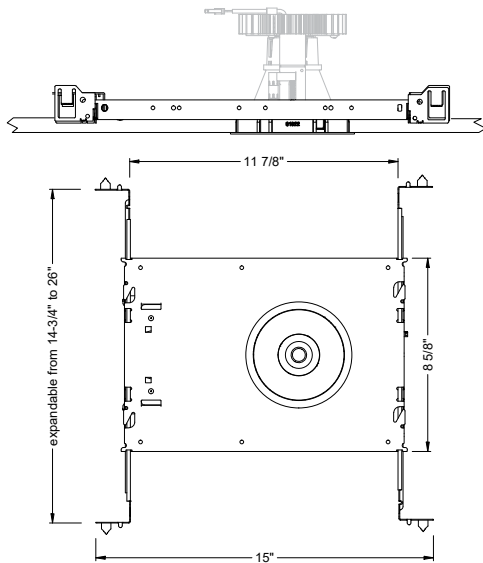


LUMINUS: LED LIGHT ENGINE: 2000LM
 NICHIA: LED LIGHT ENGINE: 3000LM

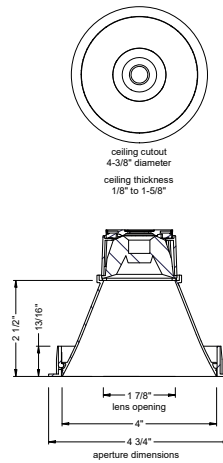


NC - NEW CONSTRUCTION

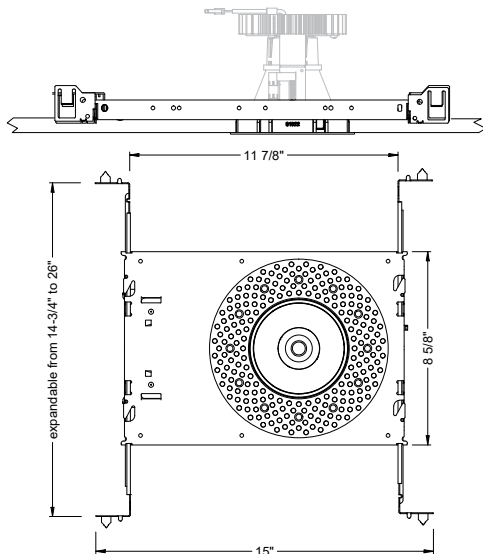
TRIM



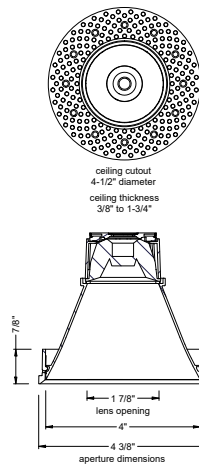
TRIM



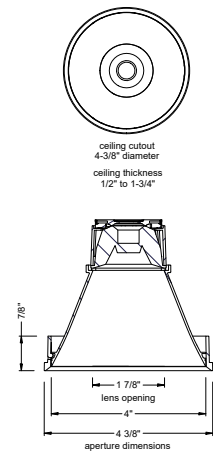
TRIMLESS



TRIMLESS



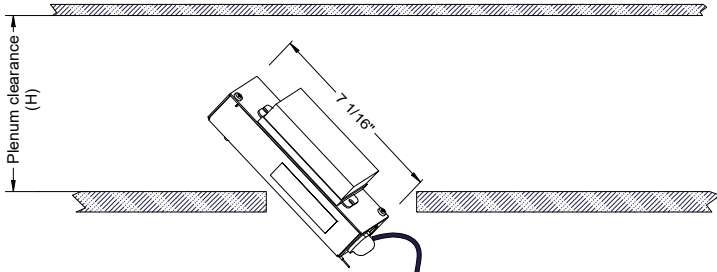
TRIMLESS/MILLWORK



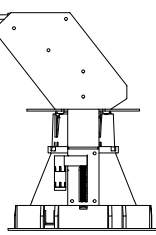
PROJECT INFORMATION		
JOB NAME	TYPE	
ORDERING CODE		

MOUNTING OPTIONS (CONTINUED)

RET - RETRO TRIM/TRIMLESS



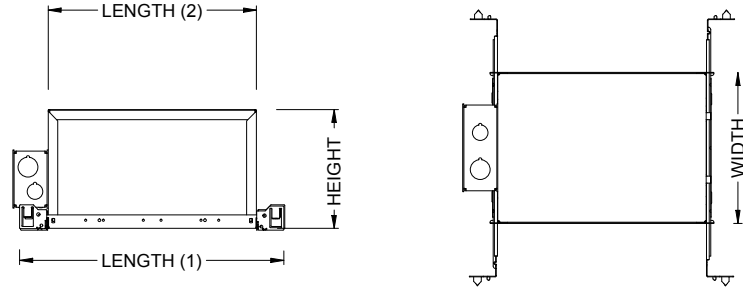
LED Light Engine	Plenum Clearance (H)
10LM - 20LM	H = 4 1/2"
20LM - 30LM	H = 6 3/4"



RATINGS / CERTIFICATIONS	NC	RET	IC	ICAT	CP
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, IC, ICAT, CP, RET
TRIM	1/8" to 1-5/8"
TRIMLESS	3/8" to 1-3/4"
MILLWORK (TRIMLESS)	1/2" to 1-3/4"

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"
B	18 - 1/4"	14 - 7/8"	12 - 1/8"	11 - 1/4"
C	18 - 1/4"	14 - 7/8"	12 - 1/8"	6 - 3/4"

BOX TYPE / LUMEN OUTPUT - STANDARD BEAMS - LUMINUS (30° - 45°)					
LUMEN OUTPUT	BOX - A			BOX - B	BOX - C
	CP	IC	ICAT	IC	ICAT
20LM				✓	

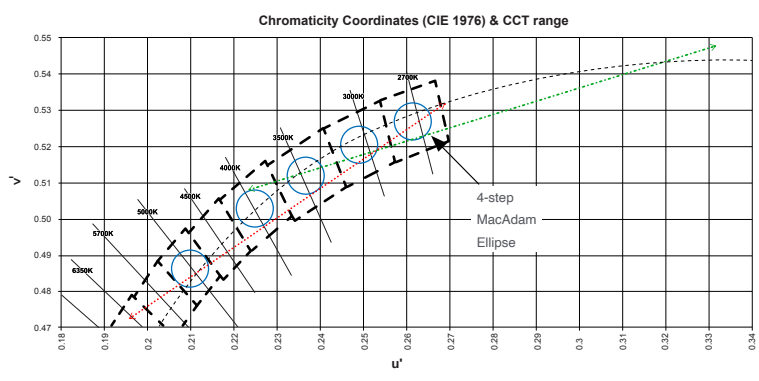
BOX TYPE / LUMEN OUTPUT - NARROW BEAMS - LUMINUS (20° - 45°)					
LUMEN OUTPUT	BOX - A			BOX - B	BOX - C
	CP	IC	ICAT	IC	ICAT
13LM				✓	

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

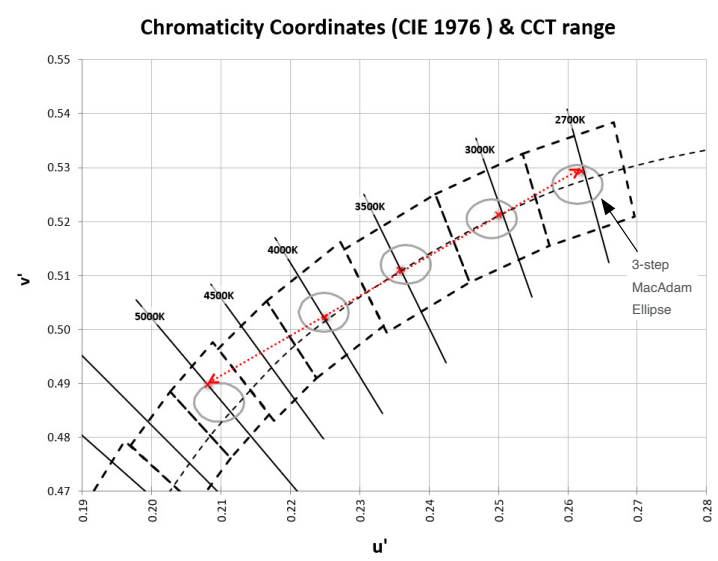
PROJECT INFORMATION		
JOB NAME	TYPE	
ORDERING CODE		

TUNABLE WHITE

LUMINUS 95CRI

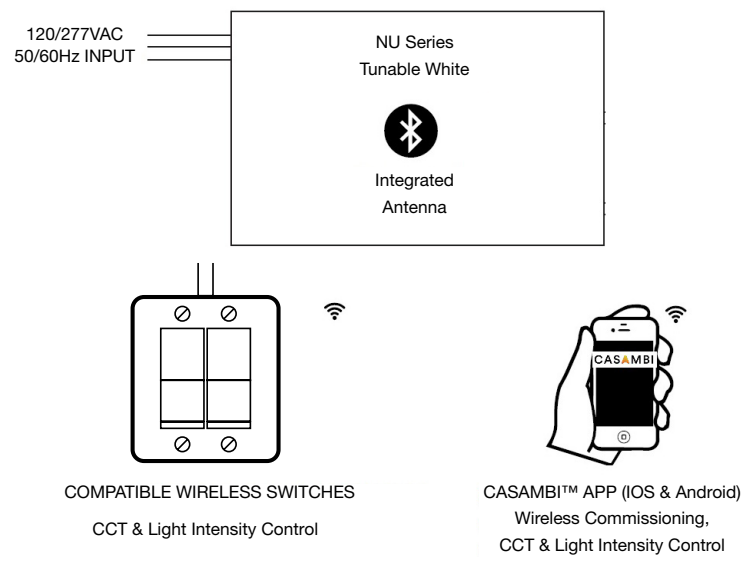


NICHIA 80CRI

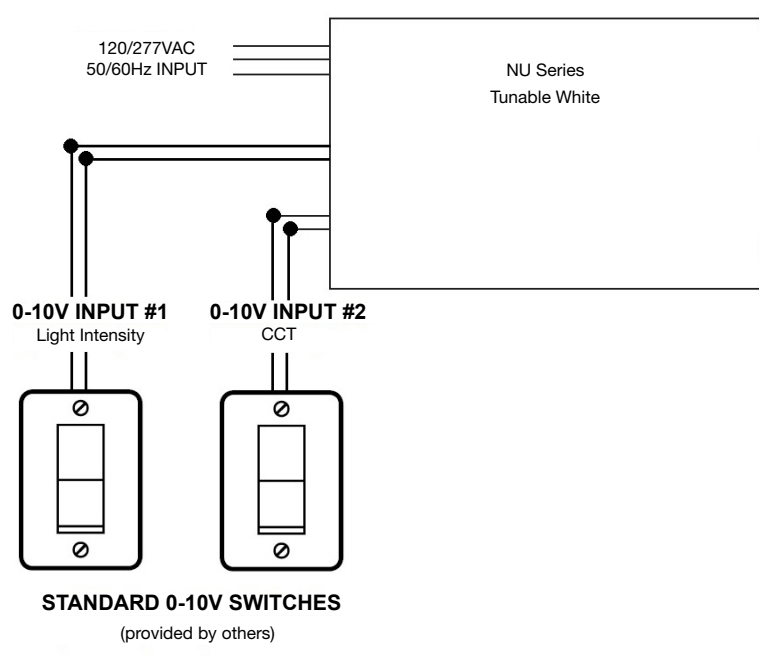


WIRING DIAGRAMS

“CAS” CASAMBI CONTROLS



“DIM10Z” HARDWIRED 0-10V CONTROL



NOTES
1 Consult factory to order compatible wireless switches.