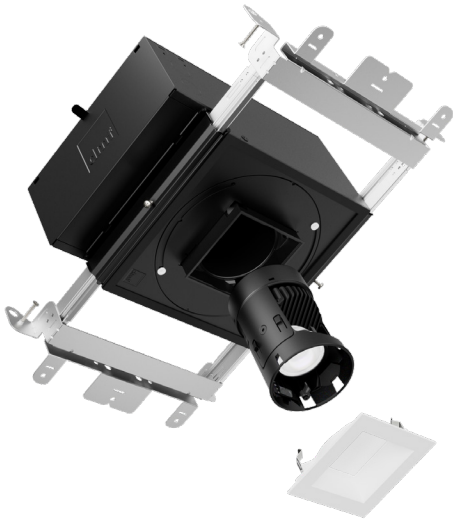# Artafex

Project:	Type:
Product Code:	Date:

2" Square Adjustable

SMALL APERTURE Delivers the ultimate in quiet ceiling designs

PRECISION LOCK COLLAR Eliminates over-cutting and ensures perfect cutout

ARCHITECTURE-GRADE Deep die-cast aluminum knife edge trim provide unmatched precision and exceptionally easy installation

DIMMING COMPATIBILITY GUARANTEED In-house designed integrated driver ensures seamless compatibility with every major lighting control system

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INSTALLATION

Ceiling Thickness

New Construction: $^1/_2$" up to 1 $^1/_4$"

Remodel: $^5/_8$" up to 1 $^1/_4$"

Ceiling Material

Drywall, Millwork

TRIMS

Style

Standard, Micro Flange, Pinhole, Flangeless

Finish

White, Black, Bronze, Clear Diffuse, Warm Diffuse, Custom (RAL colors)

LIGHT OUTPUT & DISTRIBUTION

Module

Adjustable

Adjustment

360° directional aim, 35° tilt

Lumens (Power)

750 lm (9.5W), 1000 lm (12.5W)

Color Quality

True Spectrum™

Color Temperature

⬤ 2700K   ⬤ 3000K   ⬤ 3500K

⬤ 4000K   ⬤ Warm Dim (3000K–1800K)

⬤ Tunable White (4000K–1800K)

⬤ Tunable White (6500K–2700K)

Beam Spread

⬧	Narrow Spot (20°)	⬧	Spot (30°)
⬧	Flood (40°)	⬧	Wide Flood (50°)
⬧	Linear Spread (50°x30°)		

POWER & CONTROLS

Input Voltage

120 / 277V

Dimming

TRIAC/ELV (1%, 120V only), DALI-2 (0.1%)

RATINGS & CERTIFICATIONS

- IC (Insulation Contact) Rated*
- ASTM E283 Certified Air Tight
- Chicago Plenum
- UL Listed for Damp Location
- RoHS Compliant
- DarkSky Approved**

*New Construction only; IC for Roll, Batt, Loose Fill and Spray Foam see Housing section for details
**Downlight only, CCT less than or equal to 3000K, non-decorative trims only*

WARRANTY

10 year limited warranty; 50,000 hours

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PRODUCT BUILDER

HOUSING

PRODUCT CODE		INSTALLATION		SHAPE	
X2	2" Housing	**NC**	New Construction	**S**	Square
		CP	Chicago Plenum		
		RM	Remodel		

ART2NCSFL	2" Flangeless Housing, Square

[1] *Non-IC installation only, flanged trims only; Not available with DALI-2 dimming; Not available for wood ceiling*

MODULE

PRODUCT CODE		LUMENS		COLORMETRIC		CCT		BEAM SPREAD		DIMMING	
ART2A	Adjustable	**07**	750 lm	**T**	True Spectrum™	**27**	2700K	**NS**	Narrow Spot (20°)	**T**	TRIAC/ELV
		10	1000 lm			**30**	3000K	**SP**	Spot (30°)	**D**	DALI-2 [4]
						35	3500K	**FL**	Flood (40°)		
						40	4000K	**WF**	Wide Flood (50°)		
						3W	Warm Dim (3000K–1800K) [2]	**LS**	Linear Spread (50°x30°)		
						T1	Tunable White (4000K–1800K) [3]				
						T2	Tunable White (6500K–2700K) [3]				

[2] *Only available in 1000 lm; Not available in Narrow Spot beam spread*

[3] *Only available in 750 lm, DALI-2 dimming*

[4] *Only available in 750 lm with Tunable White CCT, 1000 lm Warm Dim or 1000 lm with static CCT*

TRIM

PRODUCT CODE		FINISH		OPTION	
X2TSAS	2" Standard Trim	**WH**	White	**[Blank]**	None
X2TSDP	2" Pinhole Trim [5]	**BK**	Black	**MF**	Micro Flange [6]
		BZ	Bronze	**FL**	Flangeless [6,7]
		CW	Clear Diffuse, White Flange		
		WW	Warm Diffuse, White Flange		
		CC	Custom (RAL colors)		

[5] *Only available in White, Black and Bronze finish*

[6] *Not available in Clear or Warm Diffuse finish*

[7] *Requires Flangeless Mud or Wood Kit; Not compatible with Remodel Housing*
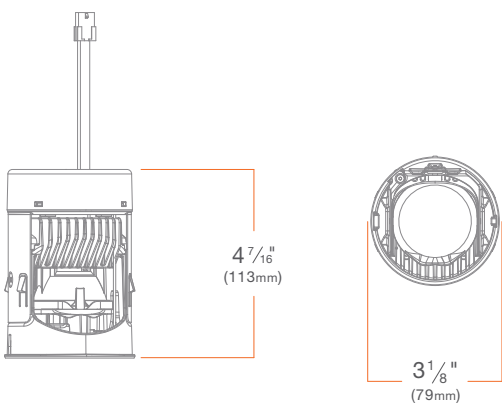
PRODUCT BUILDER

OPTICS

XAXNS	Narrow Spot (20°) Optic
XAXSP	Spot (30°) Optic
XAXFL	Flood (40°) Optic
XAXWF	Wide Flood (50°) Optic
XAXLS	Linear Spread (50°x30°) Optic
XAXOP	Bundled Adjustable Optics Kit *(Includes Narrow Spot, Spot, Flood, Wide Flood and Linear Spread)*
XAXHD	High Diffusion Front Lens *(Can be paired with all beam spreads to provide extra diffusion; Only available as an optical accessory)*
XAXCL	Clear Front Lens *(Can be paired with all beam spreads to decrease diffusion and define edges; Only available as an optical accessory)*

ACCESSORIES

X2KSMUD	Flangeless Mud Kit *(Required for New Construction installation of Flangeless trim in drywall ceiling)*
X2KSWOOD	Wood Kit *(Required for New Construction installation in wood ceiling)*
X2KSTEMPLATE	Router Template *(Recommended for routing 3 1/4" [82mm] cutout in wood ceiling)*

![dmf logo]

MODULE

SUMMARY

	STATIC CCT	WARM DIM	TUNABLE WHITE
CCT	2700K, 3000K, 3500K, 4000K	3000K - 1800K	4000K - 1800K; 6500K - 2700K
LUMENS (POWER)	750 lm (9.5W), 1000 lm (12.5W)	1000 lm (12.0W)	750 lm (13.4W)
EFFICACY	60 lm/W, 70 lm/W	83 lm/W	56 lm/W
COLOR QUALITY	True Spectrum™ 98 CRI, 2-step SDCM	True Spectrum™ 93 CRI, 2-step SDCM	True Spectrum™ 93 CRI, 3-step SDCM
BEAM SPREAD	Narrow Spot (20°), Spot (30°), Flood (40°), Wide Flood (50°), Linear Spread (50° x 30°)	Spot (30°), Flood (40°), Wide Flood (50°), Linear Spread (50° x 30°)	Narrow Spot (20°), Spot (30°), Flood (40°), Wide Flood (50°), Linear Spread (50° x 30°)
DIMMING	TRIAC/ELV, DALI-2	TRIAC/ELV, DALI-2	DALI-2
LED CHIP	Cree Pro9	Bridgelux	Bridgelux
LISTINGS	ENERGY STAR® qualified*, California Title 24 2019–2022 JA8-E compliant, UL Listed for Damp Location, UL Certified US·CA, Declare, RoHS compliant		
ADJUSTMENT	360° directional aim, 35° tilt		
SLOPE CEILING COMPATIBILITY	Up to 35°		

Refer to ENERGY STAR Certified light fixtures database

ADDITIONAL

INPUT VOLTAGE: 120/277V, 50/60Hz

MAX INPUT CURRENT (120V): 0.11 amps

MAX INPUT CURRENT (277V): 0.05 amps

CONNECTOR: 6-pin Molex

POWER FACTOR: Greater than 0.9

TOTAL HARMONIC DISTORTION: Less than 20%

AMBIENT OPERATING TEMPERATURE: -20°C to 40°C

WARRANTY: 10 year limited warranty; 50,000 hours at 70% lumen maintenance

TRIMS

SUMMARY

CONSTRUCTION: Die-cast aluminum
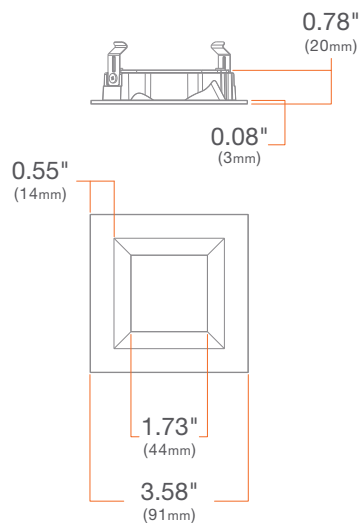
FINISH: Wet paint

INSTALLATION: Precision Lock Collar included with Flanged or Micro Flange Trim and Flangeless Mud or Wood Kit
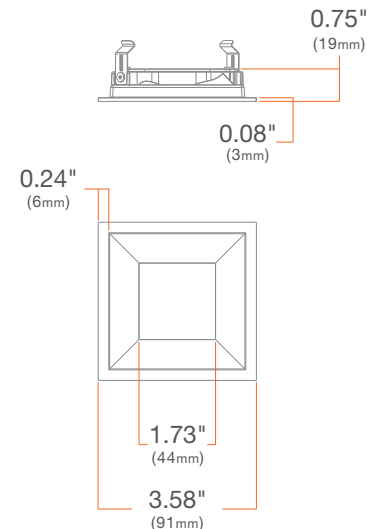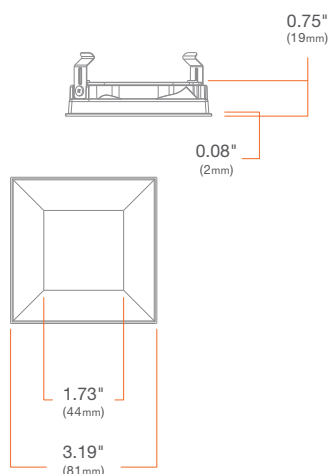
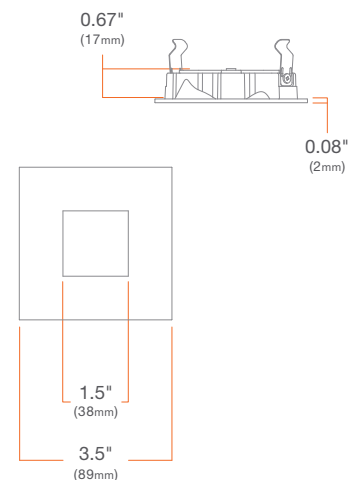**WARRANTY:** 1 year limited warranty

Standard

X2TSASWH

0.78"
(20mm)

0.08"
(3mm)

0.55"
(14mm)

1.73"
(44mm)

3.58"
(91mm)

Standard Micro Flange

X2TSASWHMF

0.75"
(19mm)

0.08"
(3mm)

0.24"
(6mm)

1.73"
(44mm)

3.58"
(91mm)

Standard Flangeless

X2TSASWHFL

0.75"
(19mm)

0.08"
(2mm)

1.73"
(44mm)

3.19"
(81mm)

Pinhole

X2TSAPWH

0.67"
(17mm)

0.08"
(2mm)

1.5"
(38mm)

3.5"
(89mm)

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Pinhole Flangeless

X2TSAPWHFL

0.67"
(17mm)

0.08"
(2mm)

1.5"
(38mm)

3.19"
(81mm)

dmf®
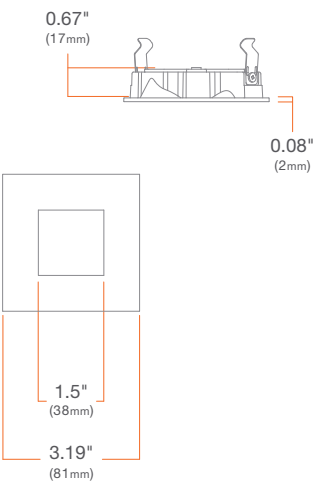
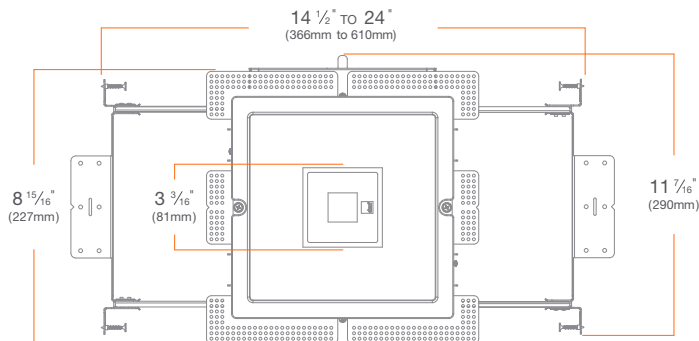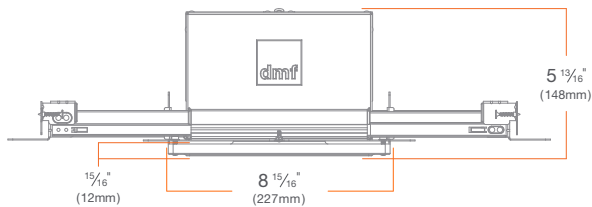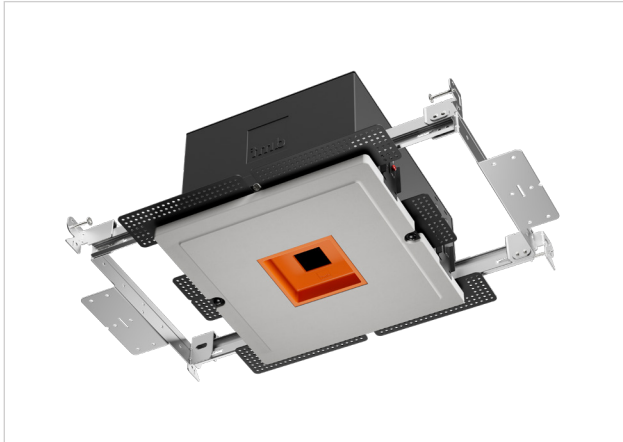## HOUSING

Flangeless ART2-NCSFL

SUMMARY

Pre-made gypsum with precise ceiling opening for flangeless trims, and tapered edges for simple drywall taping and feathering.

JUNCTION BOX: Equipped with six knockouts: four 1/2" trade size knockouts, two 3/4" trade size knockouts, and four romex knockouts. Approved for 8 (four in, four out) #12 AWG 70°C.

MOUNTING: Adjustable Bar Hangers for 14.5" to 24" joist spacing, when bar hangers are broken down, up to 10.5" of joist spacing. Compatible with traditional joists, Armstrong TM ceiling, Hat Channel and T-Bar.
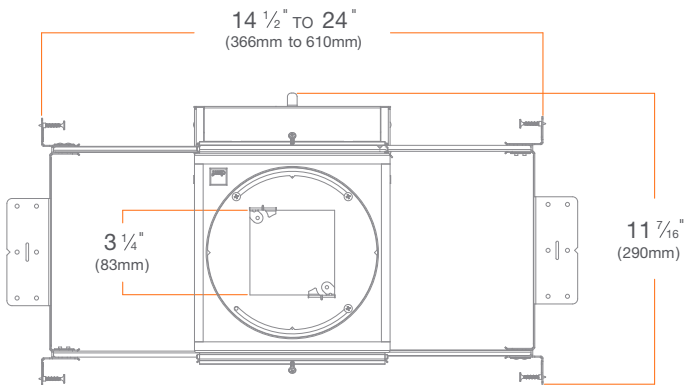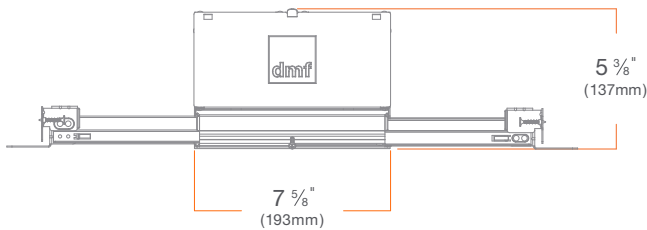
CEILING: ½" up to 1 ¼" (via vertical adjustment to gypsum board, can be adjusted once ceiling has been installed)

CUTOUT: 9" x 9" square opening

LISTINGS: ASTM E283 certified Air Tight, IC (Insulation Contact) up to R-32 for Roll, Batt, and Loose Fill, up to R-60 Spray Foam with standard trims, up to R-32 Spray Foam with other trims or hex louver.

WARRANTY: 1 year limited warranty

5 ¹³⁄₁₆" (148mm)

¹⁵⁄₁₆" (12mm)

8 ¹⁵⁄₁₆" (227mm)

14 ½" TO 24" (366mm to 610mm)

8 ¹⁵⁄₁₆" (227mm)

3 ³⁄₁₆" (81mm)

11 ⁷⁄₁₆" (290mm)

HOUSING

New Construction X2NCS
Chicago Plenum X2CPS

SUMMARY

JUNCTION BOX: Equipped with 10 knockouts: four ½" trade size knockouts, two ¾" trade size knockouts, and four romex knockouts. Approved for 8 (four in, four out) #12 AWG 70°C.

MOUNTING: Adjustable Bar Hangers for 14.5" to 24" joist spacing, when bar hangers are broken down, up to 10.5" of joist spacing. Compatible with traditional joists, Armstrong TM ceiling, Hat Channel and T-Bar. Vertical adjustment (0.5"-1.25") through installation of the square collar.
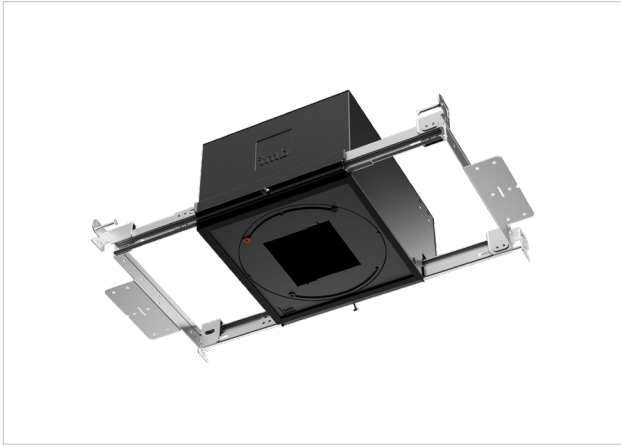
CEILING: ½" up to 1 ¼"

CUTOUT: 3 ¼" (82mm) square opening

LISTINGS: Chicago Plenum, ASTM E283 certified Air Tight, IC (Insulation Contact) up to R-32 for Roll, Batt, and Loose Fill, up to R-60 Spray Foam with standard trims, up to R-32 Spray Foam with other trims or hex louver.

WARRANTY: 1 year limited warranty

5 ⅜"
(137mm)

7 ⅝"
(193mm)

14 ½" TO 24"
(366mm to 610mm)

3 ¼"
(83mm)

11 ⁷⁄₁₆"
(290mm)

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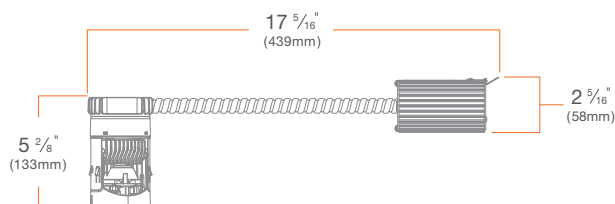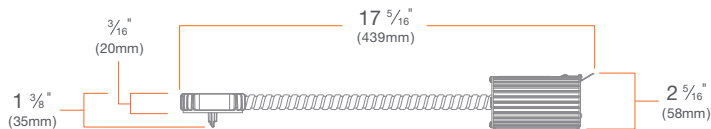## HOUSING

Remodel

X2RMS

SUMMARY

JUNCTION BOX: Equipped with four knockouts: two ½" trade size knockouts and two romex knockouts. Approved for 8 (four in, four out) #12 AWG 70°C.

CEILING: ⅝" up to 1 ¼"

CUTOUT: 3 ¼" (82mm) square opening

WARRANTY: 1 year limited warranty

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ACCESSORIES

Flangeless Mud Kit
X2KSMUD

SUMMARY: Flangeless Mud Kit (Required for New Construction installation of Flangeless Trim in drywall ceiling)

CEILING: 0.5" up to 1.25"

$\frac{1}{16}$"
(1mm)

3 $\frac{5}{16}$"
(83mm)

6 $\frac{5}{16}$"
(160mm)
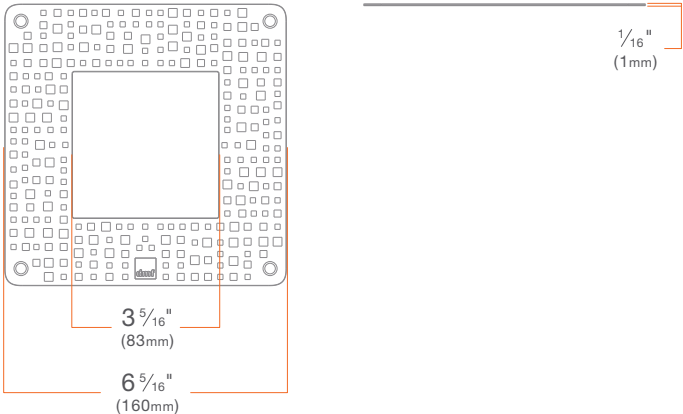
Wood Kit
X2KSWOOD

SUMMARY: Wood Kit (Required for New Construction installation in wood ceiling. Must be mounted on wood before installation to ceiling.)

CEILING: 0.5" up to 1.25"

1 $\frac{11}{16}$"
(42mm)

$\frac{9}{16}$"
(14mm)

$\frac{1}{16}$"
(1mm)

3 $\frac{3}{16}$"
(81mm)

∅ 6 $\frac{9}{16}$"
(166mm)

ACCESSORIES

Router Template

X2KSTEMPLATE

SUMMARY: Router Template (Recommended for routing 3 1/4" [82mm] cutout in wood ceiling)

X SERIES

1. CENTER TEMPLATE ON INTENDED HOLE POSITION.
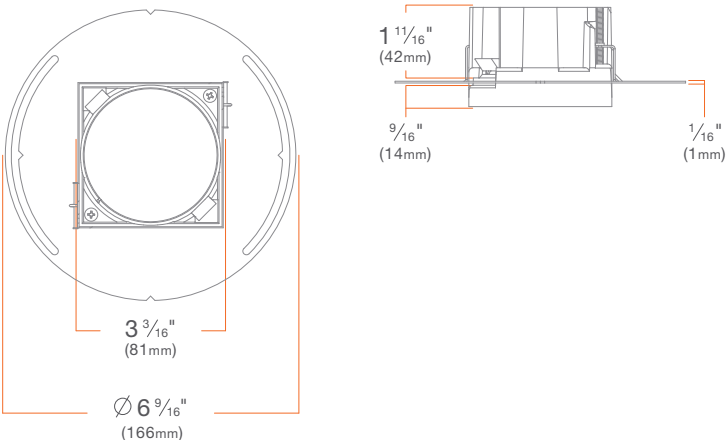2. SECURE TEMPLATE TO WOOD WITH CLAMPS/ WOOD SCREWS
3. USE FLUSH ROUTER BIT TO CUT HOLE
4. REMOVE TEMPLATE

1. COLOQUE LA PLANTILLA EN LA LOCACIÓN MARCADA EN LA MADERA.
2. SUJETE LA PLANTILLA UTILIZANDO ABRAZADERAS
3. USE BROCA DE ENRUTADOR CON PATRÓN AL RAS PARA CORTAR EL AGUJERO.
4. REMOVER LA PLANTILLA.

82 x 82mm ROUTER TEMPLATE

dmf

$\varnothing$ 3 ¼ "
(82mm)

$\varnothing$ 7 ⅞ "
(200mm)

¼ "
(7mm)
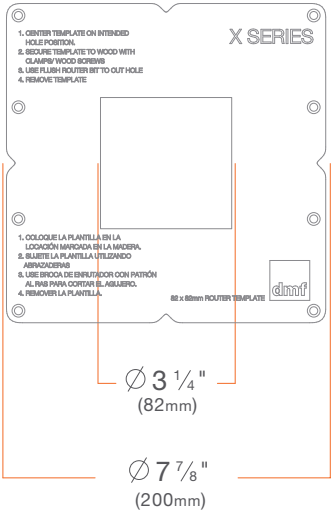
PHOTOMETRY

1000 lm, 3000K, Narrow Spot ART2A-10T30NST
2" Standard White Trim X2TSDSWH

Candela Distribution

Luminous Intensity

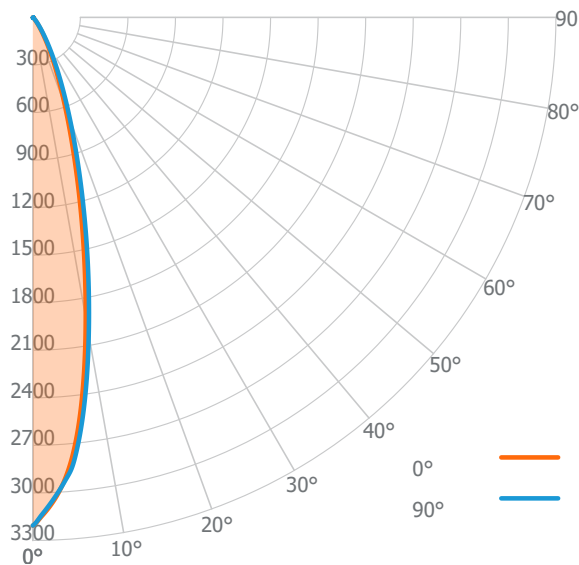|	0°
0°	3206
5°	2801
10°	1922
15°	1107
20°	591
25°	308
30°	150
35°	68
40°	30
45°	14
50°	8
55°	6
60°	5
65°	4
70°	3
75°	2
80°	1
85°	1
90°	0

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0° - 30°	719	91%
0° - 40°	768	97%
0° - 60°	786	99%
0° - 90°	792	100%
0° - 180°	792	100%

Illuminance Chart

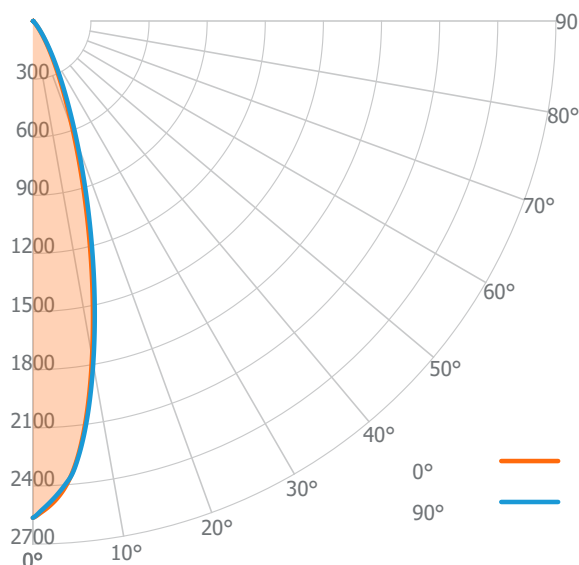| Distance from LED	Foot Candles	Diameter
3 ft	356.2 fc	1.3 ft
6 ft	89.1 fc	2.5 ft
9 ft	39.6 fc	3.8 ft
12 ft	22.3 fc	5.0 ft

Input Watts: **12.0 W**
Lumens: **792 lm**
Efficacy: **66 lm/W**
Beam Angle: **24° x 25°**

1000 lm, 3000K, Spot ART2A-10T30SPT
2" Standard White Trim X2TSDSWH

Candela Distribution

Luminous Intensity

	0°
0°	2564
5°	2340
10°	1761
15°	1106
20°	611
25°	323
30°	165
35°	79
40°	34
45°	16
50°	8
55°	6
60°	5
65°	5
70°	3
75°	2
80°	1
85°	1
90°	1

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0° - 30°	672	89%
0° - 40°	725	97%
0° - 60°	744	99%
0° - 90°	751	100%
0° - 180°	751	100%

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3 ft	284.9 fc	1.5 ft
6 ft	71.2 fc	2.9 ft
9 ft	31.7 fc	4.4 ft
12 ft	17.8 fc	5.8 ft

Input Watts: **12.0 W**
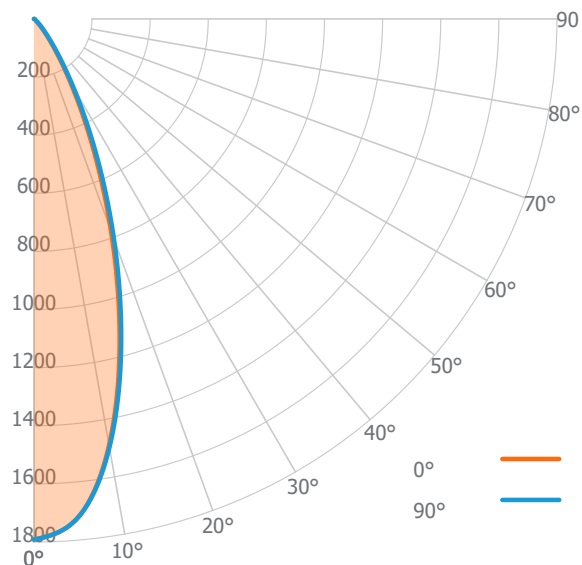Lumens: **751 lm**
Efficacy: **63 lm/W**
Beam Angle: **27° x 28°**

PHOTOMETRY

1000 lm, 3000K, Flood   ART2A-10T30FLT
2" Standard White Trim   X2TSDSWH

Candela Distribution

Luminous Intensity

	0°
0°	1792
5°	1724
10°	1490
15°	1141
20°	776
25°	469
30°	250
35°	119
40°	53
45°	23
50°	11
55°	7
60°	5
65°	4
70°	3
75°	2
80°	2
85°	1
90°	1

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0° - 30°	685	86%
0° - 40°	765	96%
0° - 60°	792	99%
0° - 90°	799	100%
0° - 180°	799	100%

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3 ft	199.1 fc	2.0 ft
6 ft	49.8 fc	4.0 ft
9 ft	22.1 fc	6.0 ft
12 ft	12.4 fc	7.9 ft

Input Watts: **12.0 W**
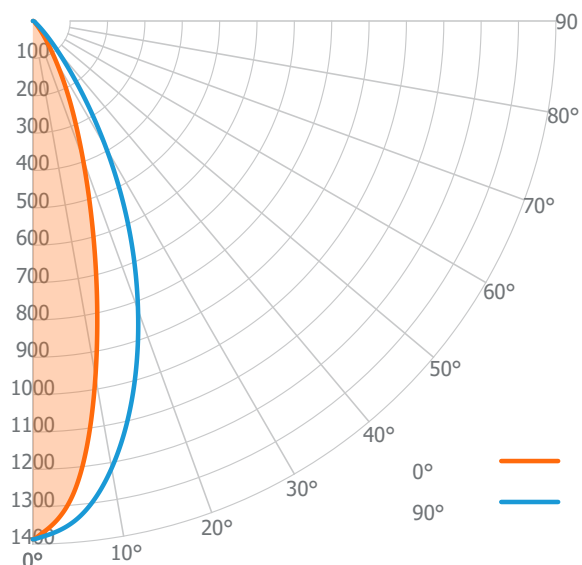Lumens: **799 lm**
Efficacy: **67 lm/W**
Beam Angle: **37° x 37°**

1000 lm, 3000K, Linear Spread   ART2A-10T30LST
2" Standard White Trim   X2TSDSWH

Candela Distribution

Luminous Intensity

	0°
0°	1387
5°	1266
10°	966
15°	640
20°	391
25°	232
30°	124
35°	61
40°	29
45°	14
50°	8
55°	7
60°	6
65°	5
70°	3
75°	2
80°	2
85°	1
90°	0

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0° - 30°	534	81%
0° - 40°	620	94%
0° - 60°	650	99%
0° - 90°	659	100%
0° - 180°	659	100%

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3 ft	154.2 fc	1.5 ft
6 ft	38.5 fc	3.0 ft
9 ft	17.1 fc	4.5 ft
12 ft	9.6 fc	6.0 ft

Input Watts: **12.0 W**
Lumens: **659 lm**
Efficacy: **55 lm/W**
Beam Angle: **28° x 46°**