# **Artafex**

Project:	Туре:
Product Code:	Date:

V062024



# 2" Square Downlight

**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

### **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, Wall Wash, Pinhole, Micro Flange, Flangeless, Decorative

## Finish

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

### **LIGHT OUTPUT & DISTRIBUTION**

### Module

Downlight

### Lumens (Power)

750 lm (9.5W), 1000 lm (12.5W), 1250 lm (14.3W)

### **Color Quality**

True Spectrum™

### **Color Temperature**

2700K



K

3500K

4000K

Warm Dim (3000K-1800K)

Tunable

Tunable White (4000K-1800K)

### **Beam Spread**

Δ

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

©P Chicago Plenum

UL Listed for Wet 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















## PRODUCT BUILDER

### **SQUARE HOUSING**

PROI	DUCT CODE	INSTALLATION		SHAPE	
X2	2" Housing	NC	New Construction	s	Square
		СР	Chicago Plenum		
		RM	Remodel <sup>1</sup>		

<sup>&</sup>lt;sup>1</sup> Non-IC installation only, flanged trims only; Not available with DALI-2 dimming; Not available for wood ceiling

### **MODULE**

PRODUCT	CODE	LUN	MENS	СО	LORMETRIC	ССТ		BEAM	M SPREAD	DIN	MING
ART2D	Downlight	07	750 lm	Т	True Spectrum™	27	2700K	NS	Narrow Spot (20°)	Т	TRIAC/ELV
		10	1000 lm			30	3000K	SP	Spot (30°)	D	DALI-2 <sup>4</sup>
		12	1250 lm			35	3500K	FL	Flood (40°)		
						40	4000K	WF	Wide Flood (50°)		
						3W	Warm Dim (3000K - 1800K) <sup>2</sup>	LS	Linear Spread (50°x30°)		
						T1	Tunable White (4000K - 1800K) <sup>3</sup>				

 $<sup>^{2}</sup>$  Only available in 1000 lm; Not available in Narrow Spot beam spread  $\,$ 

### **SQUARE TRIM**

PRODUCT CODE FINISH		Н	OPTION		
X2TSDS	2" Standard Trim	WH	White	[Blank]	None
X2TSDW	2" Wall Wash Trim 5,6	вк	Black	MF	Micro Flange <sup>6</sup>
X2TSDP	2" Pinhole Trim 6,7	BZ	Bronze	FL	Flangeless 6,8,9
		CW	Clear Diffuse, White Flange	DO	Decorative: Open 10 (Coming Soon)
		ww	Warm Diffuse, White Flange	DF	Decorative: Float 10 (Coming Soon)
		СС	Custom (RAL colors)		

 $<sup>^{\</sup>rm 5}$  Recommended with Wide Flood beam spread;

<sup>&</sup>lt;sup>3</sup> Only available in 1000 lm, DALI-2 dimming

<sup>&</sup>lt;sup>4</sup> Only available in 1000 lm for Tunable White CCT and Warm Dim or 1250 lm with static CCT

Not available in Custom color finish

<sup>&</sup>lt;sup>6</sup> Not available in Clear or Warm Diffuse finish

<sup>&</sup>lt;sup>7</sup> Not available in Custom color finish

<sup>&</sup>lt;sup>8</sup> Requires Flangeless Mud or Wood Kit

<sup>&</sup>lt;sup>9</sup> Not compatible with Remodel Housing

<sup>&</sup>lt;sup>10</sup> Only available in 750 lm, Standard style, White finish





## **PRODUCT BUILDER**

## **OPTICS**

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

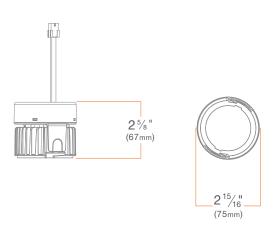
## **ACCESSORIES**

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)
X2KSRETRO6	6" to 2" Retrofit Conversion Kit



## **MODULE**





### **SUMMARY**

	STATIC CCT	WARM DIM	TUNABLE WHITE		
ССТ	2700K, 3000K, 3500K, 4000K	3000K - 1800K	4000K - 1800K		
LUMENS (POWER)	750 lm (9.5W), 1000 lm (12.5W), 1250 lm (14.3W)	1000 lm (12.0W)	1000 lm (14.3W)		
EFFICACY	79 lm/W, 80 lm/W, 87 lm/W	83 lm/W	70 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°)	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 Wet Location, UL Certified US·CA, Declare, RoHS compliant				

<sup>\*</sup>Refer to ENERGY STAR Certified light fixtures database

### **ADDITIONAL**

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

MAX INPUT CURRENT (120V): 0.13 amps

MAX INPUT CURRENT (277V): 0.06 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

**DECORATIVE:** Acrylic diffuser

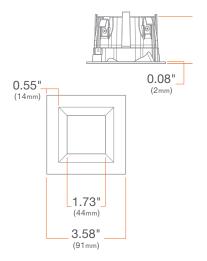
**INSTALLATION:** Precision Lock Collar included with Flanged or Micro Flange Trim and Flangeless Mud or Wood Kit

**WARRANTY:** 5 year limited warranty

## **Standard**

### **X2TSDSWH**

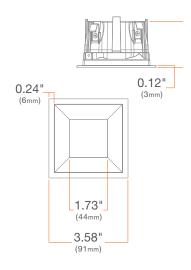




## **Standard Micro Flange**

### **X2TSDSWHMF**

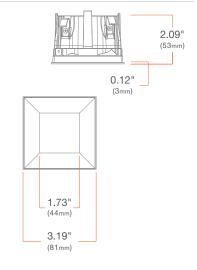




## **Standard Flangeless**

## **X2TSDSWHFL**

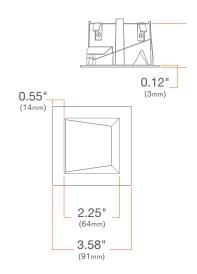




## **Wall Wash**

## **X2TSDWWH**







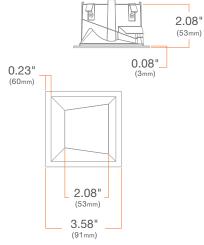




# **Wall Wash Micro Flange**

### **X2TSDWWHMF**

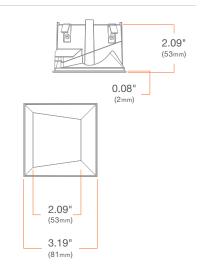




# **Wall Wash Flangeless**

### **X2TSDWWHFL**

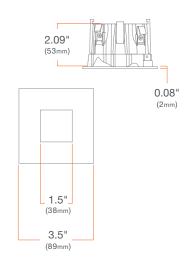




## **Pinhole**

### **X2TSDPWH**

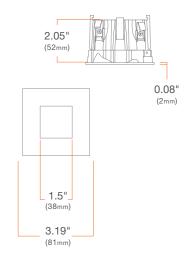




# **Pinhole Flangeless**

### X2TSDPWHFL

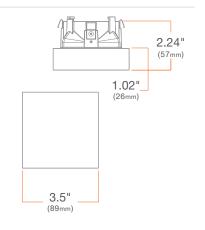




## **Decorative: Float**

### X2TSDSWHDF

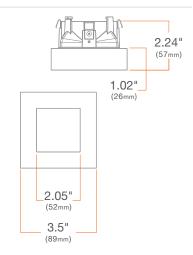




# **Decorative: Open**

### **X2TSDSWHDO**

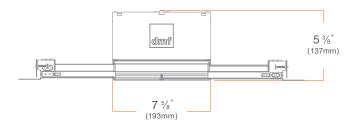


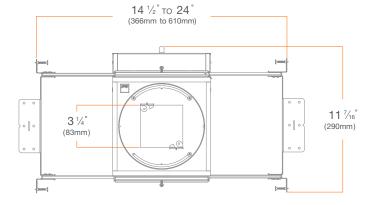




## **HOUSING**







# 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:** 1/2" up to 1 1/4"

CUTOUT: 3 1/4" (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





## **HOUSING**



## Remodel

### X2RMS

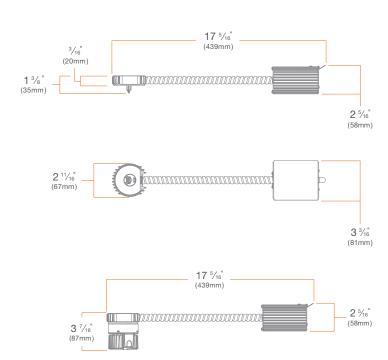
### **SUMMARY**

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

**CEILING:** 5/8" up to 1 1/4"

CUTOUT: 3 1/4" (82mm) square opening

**WARRANTY:** 1 year limited warranty





## **ACCESSORIES**



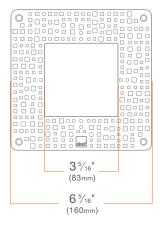
# Flangeless Mud Kit

### **X2KSMUD**

**SUMMARY:** Flangeless Mud Kit (Required for New

Construction installation of Flangeless Trim in drywall ceiling)

**CEILING:** 0.5" up to 1.25"





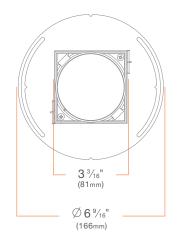


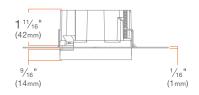
## **Wood Kit**

### 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"







## **ACCESSORIES**

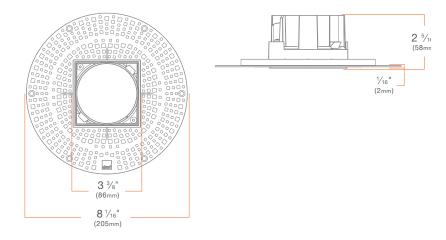


# Retrofit Kit - 6" to 2" Round Conversion

### X2KSRETRO6

**SUMMARY:** Retrofit Conversion Kit (Used to convert existing 6" fixture to a 2" fixture)

**CEILING:** Can be installed in any ceiling thickness

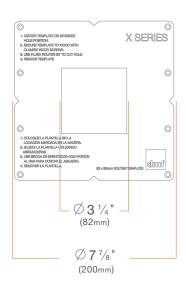


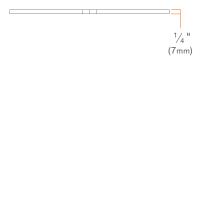


# **Router Template**

### **X2KSTEMPLATE**

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





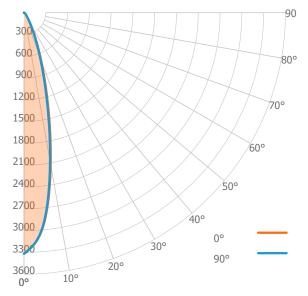


## **PHOTOMETRY**

## 1000 lm, 3000K, Narrow Spot ART2D-10T30NST

2" Standard White Trim X2TSDSWH

### Candela Distribution



## Luminous Intensity

	0°
0°	3318
5°	2972
10°	2119
15°	1258
20°	682
25°	360
30°	183
35°	97
40°	59
45°	42
50°	31
55°	23
60°	16
65°	11
70°	6
75°	3
80°	2
85°	1
90°	1

## **Zonal Lumen Summary**

Zone	Lumens	Luminaire %
0° - 30°	708	87%
0° - 40°	760	93%
0° - 60°	803	98%
0° - 90°	816	100%
0° - 180°	816	100%

## Illuminance Chart

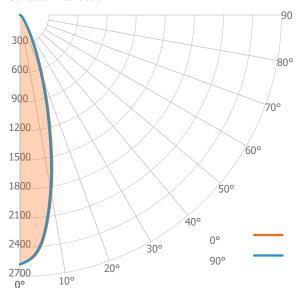
Distance from LED	Foot Candles	Diameter
3 ft	368.7 fc	1.3 ft
6 ft	92.2 fc	2.7 ft
9 ft	41.0 fc	4.0 ft
12 ft	23.0 fc	5.3 ft

Input Watts: 12.3 W Lumens: 816 Im Efficacy: 66 Im/W Beam Angle: 25° x 24°

## 1000 lm, 3000K, Spot ART2D-10T30SPT

2" Standard White Trim X2TSDSWH

### Candela Distribution



## Luminous Intensity

	0°
0°	2574
5°	2408
10°	1863
15°	1203
20°	690
25°	374
30°	198
35°	106
40°	64
45°	44
50°	33
55°	24
60°	17
65°	11
70°	6
75°	3
80°	2
85°	1
90°	0

## **Zonal Lumen Summary**

Zone	Lumens	Luminaire %
0° - 30°	652	85%
0° - 40°	709	92%
0° - 60°	754	98%
0° - 90°	767	100%
0° - 180°	767	100%

### Illuminance Chart

Foot Candles	Diameter
286.0 fc	1.5 ft
71.5 fc	3.1 ft
31.8 fc	4.6 ft
17.9 fc	6.1 ft
	286.0 fc 71.5 fc 31.8 fc

Input Watts: 12.0 W Lumens: 767 Im Efficacy: 64 Im/W Beam Angle: 29° x 28°

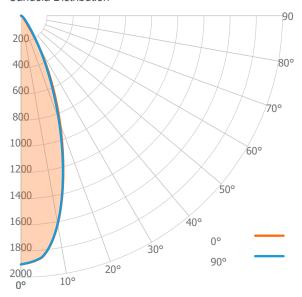


## **PHOTOMETRY**

## 1000 lm, 3000K, Flood ART2D-10T30FLT

2" Standard White Trim X2TSDSWH

### Candela Distribution



## Luminous Intensity

	0°
0°	1902
5°	1855
10°	1620
15°	1252
20°	874
25°	546
30°	283
35°	99
40°	52
45°	30
50°	20
55°	14
60°	10
65°	7
70°	4
75°	2
80°	2
85°	1
90°	1

## **Zonal Lumen Summary**

Zone	Lumens	Luminaire %
0° - 30°	693	85%
0° - 40°	763	94%
0° - 60°	801	99%
0° - 90°	813	100%
0° - 180°	813	100%

### Illuminance Chart

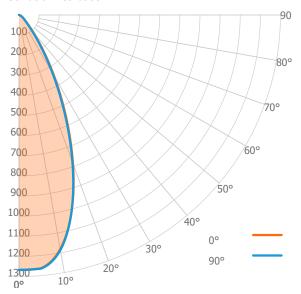
Distance from LED	Foot Candles	Diameter
3 ft	211.3 fc	2.1 ft
6 ft	52.8 fc	4.1 ft
9 ft	23.5 fc	6.2 ft
12 ft	13.2 fc	8.2 ft

Input Watts: 12.0 W Lumens: 813 Im Efficacy: 68 Im/W Beam Angle: 38° x 37°

## 1000 lm, 3000K, Wide Flood ART2D-10T30WFT

2" Standard White Trim X2TSDSWH

### Candela Distribution



## Luminous Intensity

	0°	
0°	1267	
5°	1263	
10°	1182	
15°	1011	
20°	785	
25°	549	
30°	349	
35°	199	
40°	107	
45°	60	
50°	38	
55°	27	
60°	19	
65°	12	
70°	7	
75°	4	
80°	3	
85°	1	
90°	0	

## **Zonal Lumen Summary**

Zone	Lumens	Luminaire %
0° - 30°	593	77%
0° - 40°	697	91%
0° - 60°	755	98%
0° - 90°	770	100%
0° - 180°	770	100%

### Illuminance Chart

Foot Candles	Diameter
140.8 fc	2.6 ft
35.2 fc	5.1 ft
15.6 fc	7.7 ft
8.8 fc	10.3 ft
	140.8 fc 35.2 fc 15.6 fc

Input Watts: 12.0 W Lumens: 770 Im Efficacy: 64 Im/W Beam Angle: 46° x 46°

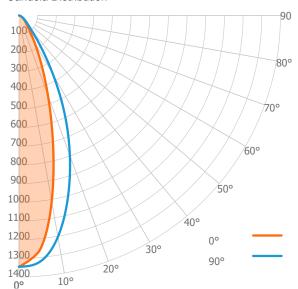


## **PHOTOMETRY**

## 1000 lm, 3000K, Linear Spread ART2D-10T30LST

2" Standard White Trim X2TSDSWH

### Candela Distribution



## Luminous Intensity

	0°
0°	1345
5°	1264
10°	1011
15°	704
20°	454
25°	280
30°	168
35°	102
40°	68
45°	50
50°	38
55°	28
60°	20
65°	13
70°	7
75°	4
80°	2
85°	1
90°	0

## **Zonal Lumen Summary**

Zone	Lumens	Luminaire %
0° - 30°	507	76%
0° - 40°	591	88%
0° - 60°	652	97%
0° - 90°	670	100%
0° - 180°	670	100%

### Illuminance Chart

Distance from LED	Foot Candles	Diameter
3 ft	149.5 fc	1.7 ft
6 ft	37.4 fc	3.3 ft
9 ft	16.6 fc	5.0 ft
12 ft	9.3 fc	6.7 ft

Input Watts: 12.0 W Lumens: 670 Im Efficacy: 56 Im/W Beam Angle: 31° x 46°