

Project:	Туре:
Product Code:	Date:

V041024

### 2" Square Downlight

2" Downlight delivers high quality light with field changeable optics

Precision Lock Collar eliminates overcutting and ensures flush installation

Architectural Trims are wet painted for a rich, matte finish

Integrated Drivers provide smooth dimming, ease of installation and serviceability

#### 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

#### **LIGHT OUTPUT & DISTRIBUTION**

#### Module

Downlight

#### Lumens (Power)

500 lm (9.5W), 750 lm (9.5W), 1000 lm (12.5W), 1250 lm (14.3W), 1500 lm (14.3W)

#### **Color Quality**

93 CRI, 2-step SDCM

#### **Color Temperature**



Tunable White (6500K-2700K)

#### **Beam Spread**



## **POWER & CONTROLS**

**Input Voltage** 120/277V

#### Dimming

0-10V (1%), TRIAC/ELV (1%), DALI-2 (0.1%)

#### **RATINGS & CERTIFICATIONS**

- IC Insulation Contact Rated (New Construction Only; IC for roll, batt, loose fill and spray foam)
- ASTM E283 Certified Air Tight
- Chicago Plenum
- UL Listed for Wet Location () (Flanged Trims Only)
- **RoHS** Compliant  $(\checkmark)$

( NSF Listed (White and Black Finish Only)

#### WARRANTY

5 year limited warranty; 50,000 hours











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### PRODUCT BUILDER

#### HOUSING

PRO	PRODUCT CODE		ALLATION	SH	APE
X2	2" Housing	NC	New Construction	S	Square
		СР	Chicago Plenum		
		RM	Remodel 1		

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

#### MODULE

PRODU	CT CODE	LUN	IENS	CF	RI	ССТ	2	BEAN	/ SPREAD	DIN	IMING
XMD	Downlight	05	500 lm <sup>3</sup>	9	93 CRI	27	2700K	UN	Ultra Narrow Spot (10°) 6	0	0-10V
		07	750 lm			30	3000K	NS	Narrow Spot (20°)	т	TRIAC/ELV
		10	1000 lm			35	3500K	SP	Spot (30°)	D	DALI-2 7
		12	1250 lm			40	4000K	FL	Flood (40°)		
		15	1500 lm			3W	Warm Dim (3000K - 1800K) 4	WF	Wide Flood (50°)		
						T1	Tunable White (4000K - 1800K) <sup>5</sup>	LS	Linear Spread (50°x30°)		
						Т2	Tunable White (6500K - 2700K) 5				

<sup>2</sup> DarkSky approved is only applicable to CCT options less than or equal to 3000K and not compatible with decorative trims

<sup>3</sup> Only available with UN beam spread

<sup>4</sup> Only available in 1000 lm; Not available in Narrow Spot beam spread <sup>5</sup> Only available in 1000 lm, DALI-2 dimming; Not available in Narrow Spot beam spread

<sup>6</sup> Only available in 500 lm, not available as an optical accessory

<sup>7</sup> Only available in 1000 lm with Tunable White CCT, 1000 lm Warm Dim or 1250 lm with static CCT

#### TRIM

PRODUCT			FINISH		
X2TSDS	2" Standard Trim	WН	White	[Blank]	None
X2TSDW	2" Wall Wash Trim <sup>8</sup>	вк	Black	MF	Micro Flange <sup>9</sup>
X2TSDP	2" Pinhole Trim 9,10	BZ	Bronze	FL	Flangeless 9,11
		CW	Clear Diffuse, White Flange	DO	Decorative: Open 12
		ww	Warm Diffuse, White Flange	DH	Decorative: Float 12

<sup>8</sup> Recommended with Wide Flood beam spread

° Not available in Clear or Warm Diffuse finish

<sup>10</sup> Not available in Micro Flange

<sup>11</sup> Requires Flangeless Mud or Wood Kit in New Construction housings; Not compatible with Remodel Housing

<sup>12</sup> Only available in 750 lm, Standard style, White finish

### **PRODUCT BUILDER**

#### OPTICS

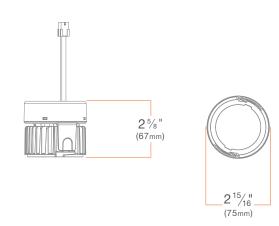
XDXNS	Narrow Spot (20°) Optic
XDXSP	Spot (30°) Optic
XDXFL	Flood (40°) Optic
XDXWF	Wide Flood (50°) Optic
XDXLS	Linear Spread (50°x30°) Optic
XDXOP	Bundled Downlight Optics Kit (Includes Narrow Spot, Spot, Flood, Wide Flood and Linear Spread)

#### ACCESSORIES

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

### MODULE





#### PERFORMANCE SUMMARY

	STATIC CCT	WARM DIM	TUNABLE WHITE
ССТ	2700K, 3000K, 3500K, 4000K	3000K - 1800K	4000K - 1800K; 6500K - 2700K
LUMENS (POWER)	500 lm (9.5W), 750 lm (9.5W), 1000 lm (12.5W), 1250 lm (14.3W), 1500 lm (14.3W)	1000 lm (12.0W)	1000 lm (14.3W)
EFFICACY	53 lm/W, 79 lm/W, 80 lm/W, 87 lm/W, 105 lm/W	83 lm/W	70 lm/W
COLOR QUALITY	93 CRI <sup>1</sup> , 2-step SDCM	93 CRI <sup>1</sup> , 3-step SDCM	93 CRI <sup>1</sup> , 3-step SDCM
BEAM SPREAD	Ultra Narrow Spot (10°), 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	0-10V, TRIAC/ELV, DALI-2	0-10V, TRIAC/ELV, DALI-2	DALI-2
LED CHIP	Cree	Bridgelux	Bridgelux
LISTINGS	ENERGY STAR <sup>®</sup> Qualified <sup>2</sup> , Califorr UL Certified US·CA, Declare, RoHS		liant, UL Listed for Wet Location, F/ANSI 2 Listed <sup>3</sup> , Dark Sky Complian

<sup>1</sup> Tested in accordance to IESNA LM-79-2008 <sup>2</sup> Refer to ENERGY STAR Certified light fixtures database <sup>3</sup> In accordance to NSF/ANSI 2 for Splash Zone having designated trim finishes

<sup>4</sup> Only applicable to CCT options less than or equal to 3000K and not compatible with decorative trims

#### 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:** 5 year limited warranty; 50,000 hours at 70% lumen maintenance



### TRIMS



#### SUMMARY

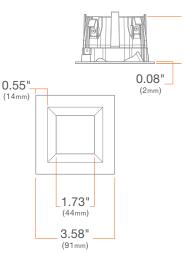
CONSTRUCTION: Die-cast aluminum FINISH: Wet paint DECORATIVE: Acrylic diffuser INSTALLATION: Precision Lock Collar included with Flanged or Micro Flange Trim and Flangeless Mud or Wood Kit

WARRANTY: 5 year limited warranty

### Standard

**X2TSDSWH** 

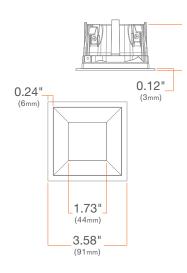




### Standard Micro Flange

#### **X2TSDSWHMF**

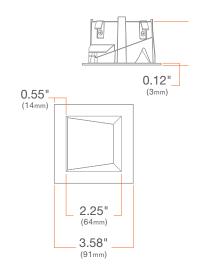




### Wall Wash

### X2TSDWWH

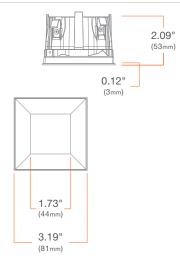




## Standard Flangeless



**X2TSDSWHFL** 



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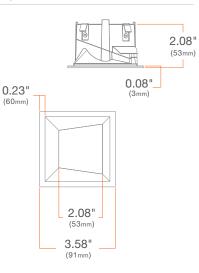




### Wall Wash Micro Flange

#### **X2TSDWWHMF**

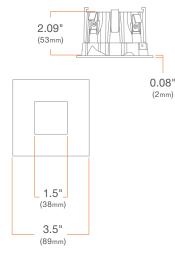




### **Pinhole**

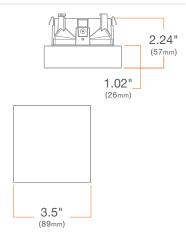
**X2TSDPWH** 





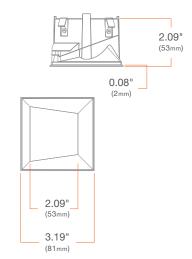
### **Decorative: Float**





### Wall Wash Flangeless

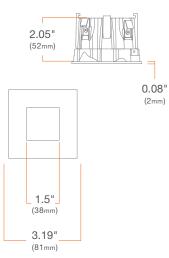




### **Pinhole Flangeless**

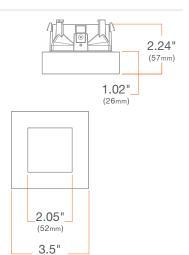
X2TSDPWHFL





### **Decorative: Open**





(89mm)

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### New Construction X2NCS Chicago Plenum X2CPS

#### SUMMARY

**JUNCTION BOX:** Equipped with 10 knockouts: four ½" trade size knockouts, two <sup>3</sup>/<sub>4</sub>" trade size knockouts, and four romex knockouts. Approved for 8 (four in, four out) #12 AWG 70°C.

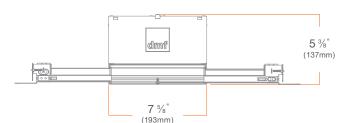
**BAR HANGER MOUNTING:** Adjustable Bar Hangers for 14.5" to 24" joist spacing, when bar hangers are broken down, up to 10.5" of joist spacing. Compatible with traditional joists, Armstrong TM ceiling, Hat Channel and T-Bar. Vertical adjustment (0.5"-1.25") through installation of the square collar.

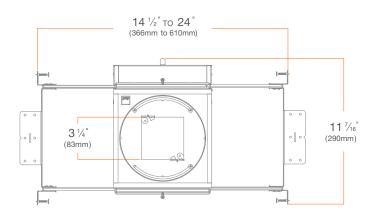
CEILING: 1/2" up to 1 1/4"

**CUTOUT:** 3 <sup>1</sup>/<sub>4</sub>" (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

WARRANTY: 5 year limited warranty









### HOUSING



### Remodel

X2RMS

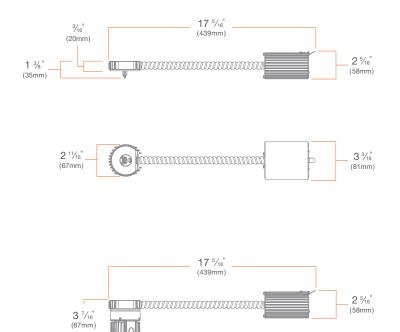
#### SUMMARY

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

**CEILING:** <sup>5</sup>/<sub>8</sub>" up to 1 <sup>1</sup>/<sub>4</sub>"

**CUTOUT:** 3 <sup>1</sup>/<sub>4</sub>" (82mm) square opening

WARRANTY: 5 year limited warranty







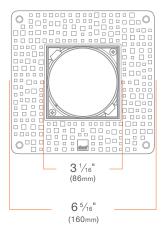
### ACCESSORIES

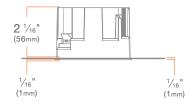


## Flangeless Mud Kit

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

CEILING: 0.5" up to 1.25"





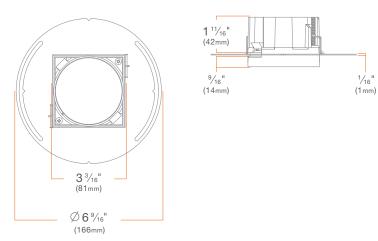


### Wood Kit

#### X2KSWOOD

**SUMMARY:** Wood Kit (Required for New Construction installation of all trims in wood ceiling. Must be mounted to wood prior to ceiling installation.)

CEILING: 0.5" up to 1"





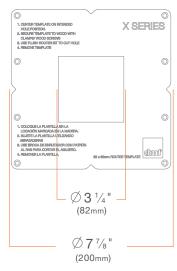


### ACCESSORIES



# Router Template

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

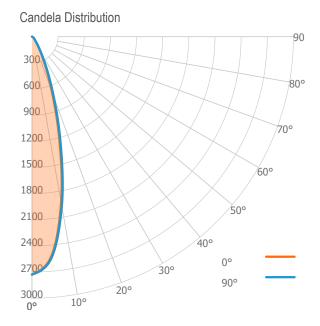




### PHOTOMETRY

#### 1000 lm, 3000K, Spot xMD10930SPT

2" Standard White Trim X2TSDSWH



Luminous	Intensity
	0°
0°	2729
5°	2532
10°	1930
15°	1213
20°	669
25°	354
30°	185
35°	100
40°	62
45°	45
50°	33
55°	25
60°	18
65°	11
70°	6
75°	3
80°	2
85°	1
90°	1

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0° - 30°	691	85%
0° - 40°	751	92%
0° - 60°	800	98%
0° - 90°	813	100%
0° - 180°	813	100%

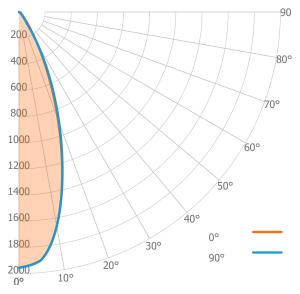
#### Illuminance Chart

Distance from LED	Foot Candles	Diameter
3 ft	303.2 fc	1.5 ft
6 ft	75.8 fc	3.0 ft
9 ft	33.7 fc	4.5 ft
12 ft	19.0 fc	6.0 ft

Input Watts: **12.0 W** Lumens: **813 Im** Efficacy: **68 Im/W** Beam Angle: **28° x 29°** 

### **1000 Im, 3000K, Flood XMD10930FLT** 2" Standard White Trim **X2TSDSWH**

Candela Distribution



#### Luminous Intensity

	0°
0°	1956
5°	1905
10°	1662
15°	1277
20°	870
25°	527
30°	286
35°	145
40°	76
45°	46
50°	32
55°	23
60°	16
65°	11
70°	6
75°	3
80°	2
85°	1
90°	1

### Zonal Lumen Summary

100			
I	Zone	Lumens	Luminaire %
	0° - 30°	712	85%
	0° - 40°	784	94%
	0° - 60°	824	99%
	0° - 90°	836	100%
	0° - 180°	836	100%

#### Illuminance Chart

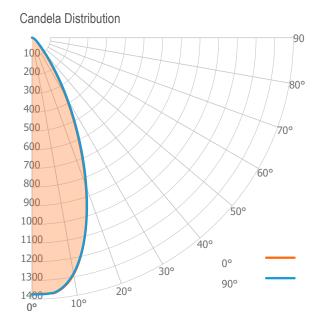
Distance from LED	Foot Candles	Diameter
3 ft	217.3 fc	2.0 ft
6 ft	54.3 fc	4.0 ft
9 ft	24.1 fc	6.1 ft
12 ft	13.6 fc	8.1 ft

Input Watts: 12.0 W Lumens: 836 Im Efficacy: 70 Im/W Beam Angle: 37° x 38°

### PHOTOMETRY

#### 1000 lm, 3000K, Wide Flood XMD10930WFT

2" Standard White Trim X2TSDSWH



Luminous Intensity		
	0°	
0°	1374	
5°	1372	
10°	1287	
15°	1096	
20°	843	
25°	584	
30°	364	
35°	203	
40°	106	
45°	58	
50°	38	
55°	27	
60°	19	
65°	13	
70°	7	
75°	4	
80°	3	
85°	2	
90°	1	

#### Zonal Lumen Summary

_		,	
ĺ	Zone	Lumens	Luminaire %
	0° - 30°	643	77%
	0° - 40°	756	91%
	0° - 60°	818	98%
	0° - 90°	835	100%
	0° - 180°	835	100%

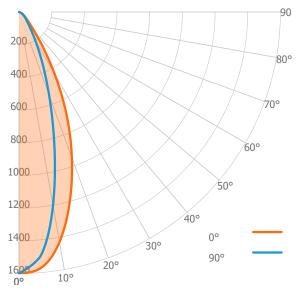
#### Illuminance Chart

Distance from LED	Foot Candles	Diameter
3 ft	152.7 fc	2.5 ft
6 ft	38.2 fc	5.1 ft
9 ft	17.0 fc	7.6 ft
12 ft	9.5 fc	10.2 ft

Input Watts: **12.0 W** Lumens: **835 Im** Efficacy: **70 Im/W** Beam Angle: **46° x 46°** 

### **1000 Im, 3000K, Linear Spread XMD10930LST** 2" Standard White Trim **X2TSDSWH**

Candela Distribution



#### Luminous Intensity

	0°	
0°	1598	
5°	1570	
10°	1429	
15°	1202	
20°	947	
25°	687	
30°	435	
35°	242	
40°	132	
45°	82	
50°	57	
55°	41	
60°	29	
65°	19	
70°	10	
75°	5	
80°	3	
85°	2	
90°	1	

#### Zonal Lumen Summary

1.0			
	Zone	Lumens	Luminaire %
	0° - 30°	603	76%
	0° - 40°	702	88%
	0° - 60°	775	97%
	0° - 90°	796	100%
	0° - 180°	796	100%

#### Illuminance Chart

Distance from LED	Foot Candles	Diameter
3 ft	177.6 fc	2.5 ft
6 ft	44.4 fc	5.1 ft
9 ft	19.7 fc	7.6 ft
12 ft	11.1 fc	10.1 ft

Input Watts: **12.0 W** Lumens: **796 Im** Efficacy: **66 Im/W** Beam Angle: **46° x 31°**