

Project:	Type:
Product Code:	Date:

V072224



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

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)

Beam Spread

- 20°
Narrow Spot

30°
Spot
- 40°
Flood

50°
Wide Flood
- 50° x 30°
Linear Spread

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



PRODUCT BUILDER

SQUARE HOUSING

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

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				T							
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				

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

SQUARE TRIM

PRODUCT CODE		FINISH		OPTION	
X2TSAS	2" Standard Trim	WH	White	[Blank]	None
X2TSAP	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

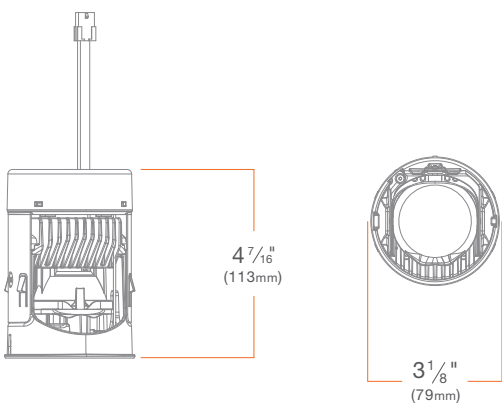
OPTICS

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

ACCESSORIES

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

MODULE



SUMMARY

	STATIC CCT	WARM DIM	TUNABLE WHITE
CCT	2700K, 3000K, 3500K, 4000K	3000K - 1800K	4000K - 1800K
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	TOTAL HARMONIC DISTORTION: Less than 20%
MAX INPUT CURRENT (120V): 0.11 amps	AMBIENT OPERATING TEMPERATURE: -20°C to 40°C
MAX INPUT CURRENT (277V): 0.05 amps	WARRANTY: 10 year limited warranty; 50,000 hours at 70% lumen maintenance
CONNECTOR: 6-pin Molex	
POWER FACTOR: Greater than 0.9	

TRIMS



SUMMARY

CONSTRUCTION: Die-cast aluminum

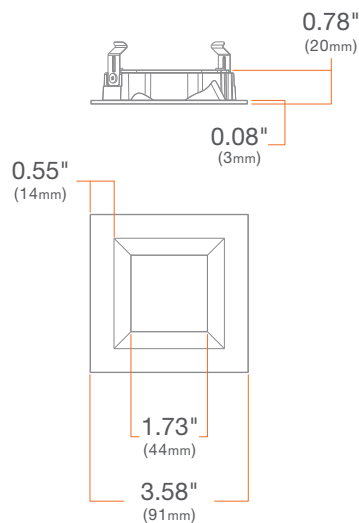
FINISH: Wet paint

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

WARRANTY: 1 year limited warranty

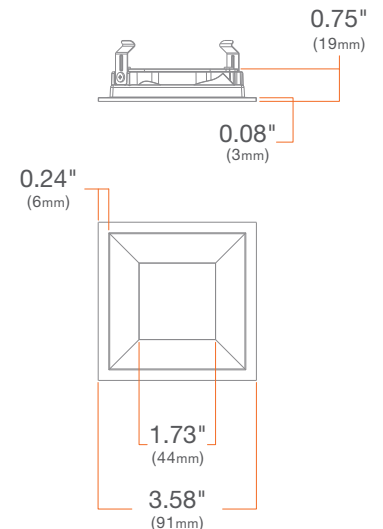
Standard

X2TSASWH



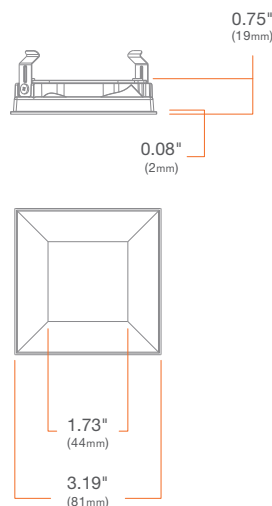
Standard Micro Flange

X2TSASWHMF



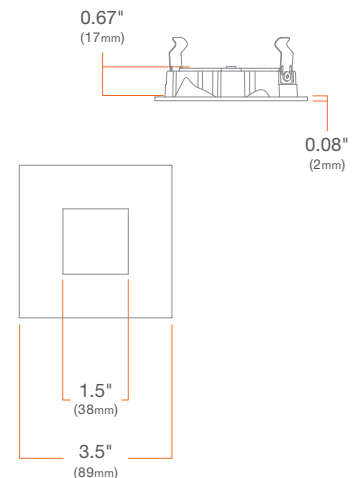
Standard Flangeless

X2TSASWHFL



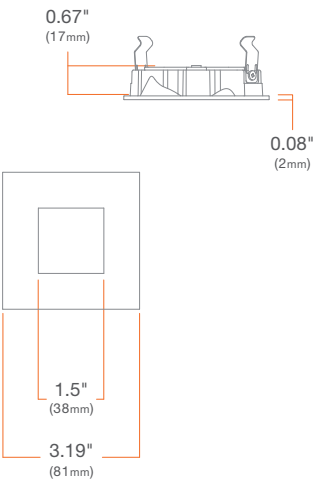
Pinhole

X2TSAPWH

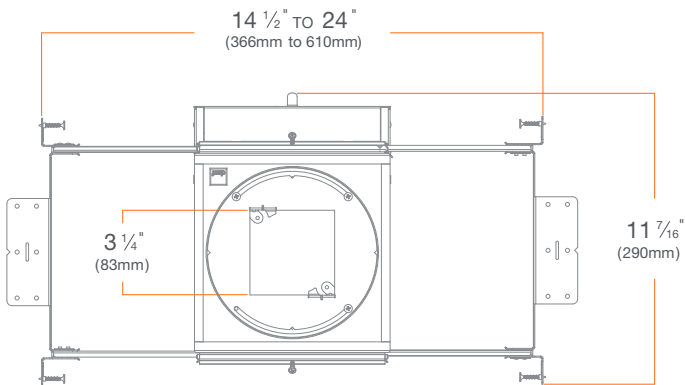
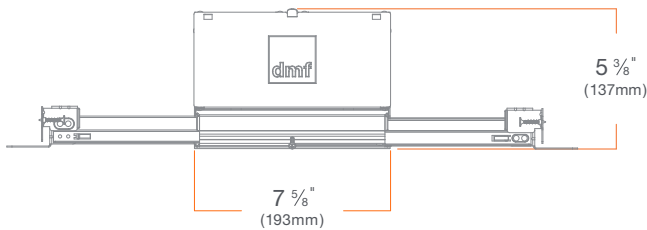
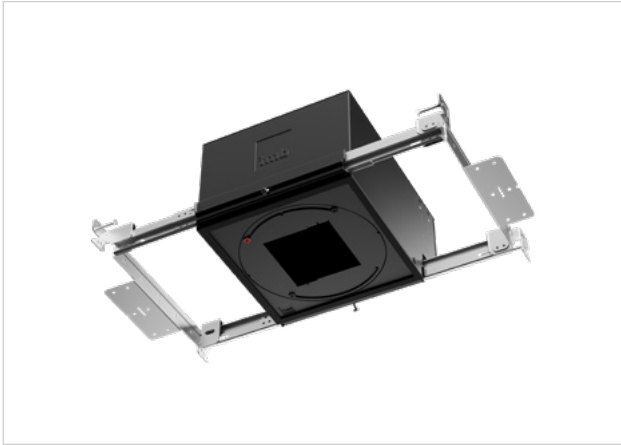


Pinhole Flangeless

X2TSAPWHFL



HOUSING



New Construction **X2NCS** Chicago Plenum **X2CPS**

SUMMARY

JUNCTION BOX: Equipped with 10 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. 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

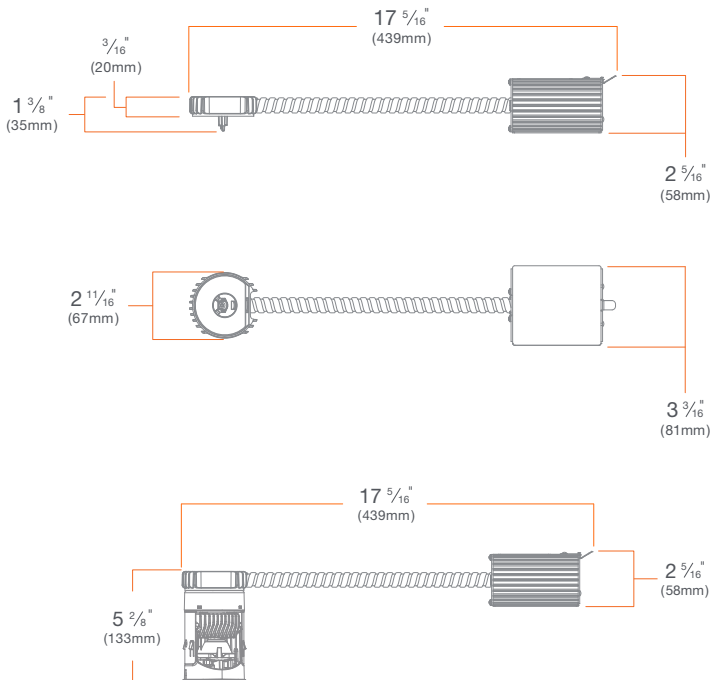
SUMMARY

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

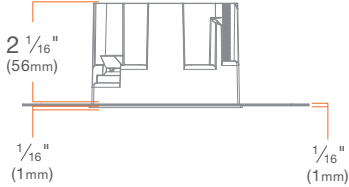
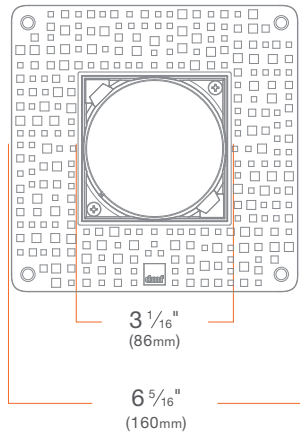


Flangeless Mud Kit

X2KSMUD

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

CEILING: 0.5" up to 1.25"

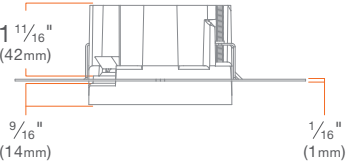
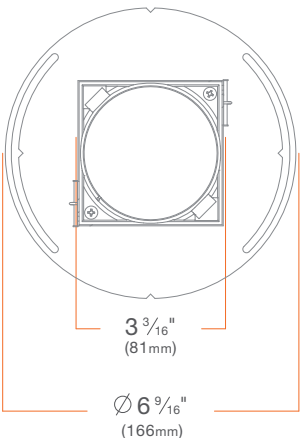


Wood Kit

X2KSWOOD

SUMMARY: Wood Kit (Required for New Construction installation of all trims in wood ceiling)

CEILING: 0.5" up to 1"



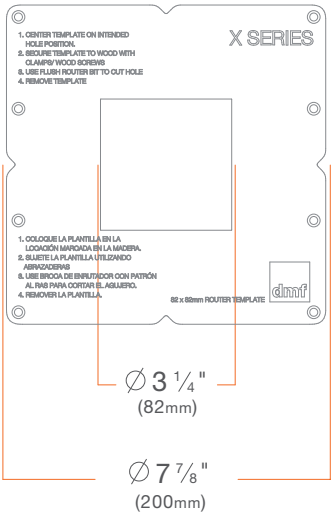
ACCESSORIES



Router Template

X2KSTEMPLATE

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

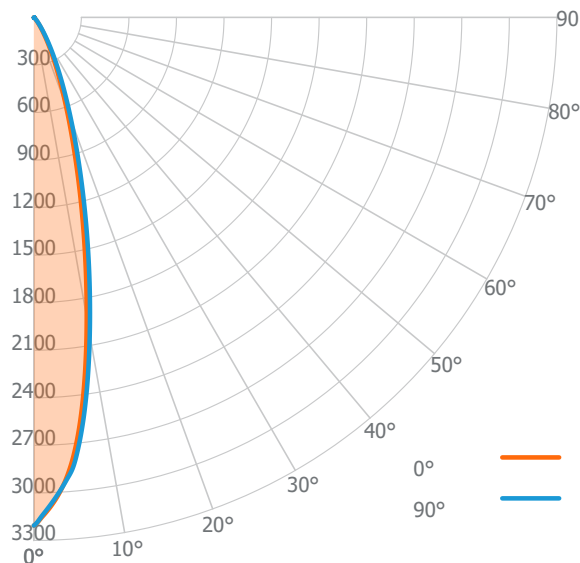


PHOTOMETRY

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**

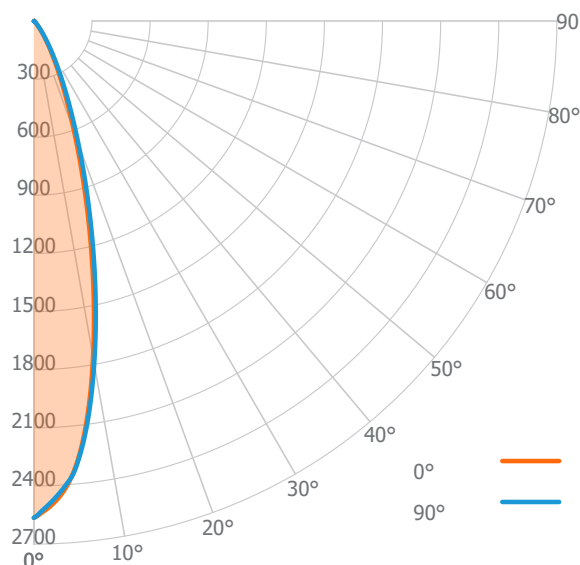
Efficacy: **66 lm/W**

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**

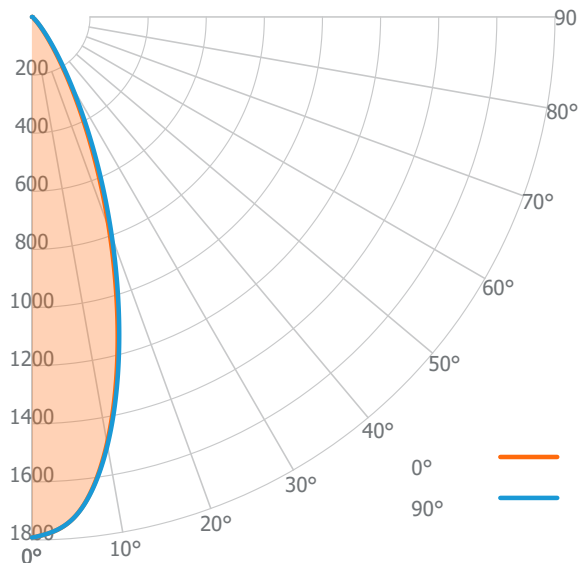
Beam Angle: **27° x 28°**

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

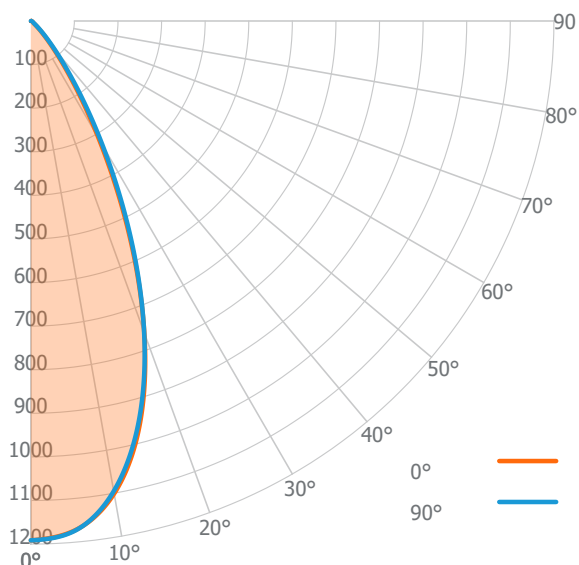
Efficacy: 67 lm/W

Beam Angle: 37° x 37°

1000 lm, 3000K, Wide Flood ART2A-10T30WFT

2" Standard White Trim X2TSDSWH

Candela Distribution



Luminous Intensity

	0°
0°	1191
5°	1173
10°	1101
15°	963
20°	761
25°	527
30°	312
35°	161
40°	74
45°	31
50°	13
55°	7
60°	6
65°	5
70°	4
75°	2
80°	1
85°	1
90°	1

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0° - 30°	609	81%
0° - 40°	714	94%
0° - 60°	748	99%
0° - 90°	756	100%
0° - 180°	756	100%

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3 ft	132.4 fc	2.6 ft
6 ft	33.1 fc	5.2 ft
9 ft	14.7 fc	7.8 ft
12 ft	8.3 fc	10.5 ft

Input Watts: 12.3 W

Lumens: 756 lm

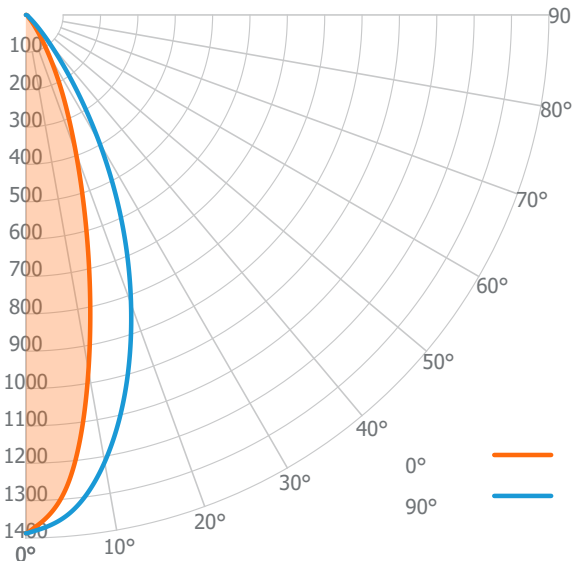
Efficacy: 61 lm/W

Beam Angle: 47° x 47°

PHOTOMETRY

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°**