

Project:	Type:
Product Code:	Date:

V031425



2" Round Adjustable

2" Adjustable 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

Embedded Drivers provide smooth dimming, ease of installation and serviceability

INSTALLATION

Ceiling Thickness

New Construction: 1/2" up to 1 1/4"

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

Ceiling Material

Drywall, Millwork, Acoustic Ceiling Tiles

TRIMS

Style

Standard Micro Flange, Flangeless, Pinhole

Finish

White, Black, Bronze, Clear Diffuse (Coming Soon), Custom Color (RAL Colors)

SPECIALTY LENS

Hexcell Louver

LIGHT OUTPUT & DISTRIBUTION

Module

Adjustable

Adjustment

360° directional aim, 35° tilt

Lumens (Power)

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

Color Quality

93 CRI, 2-step SDCM

Color Temperature

- 2700K
- 3000K
- 3500K
- 4000K
- Warm Dim (3000K–1800K)
- Tunable White (4000K–1800K)
- Tunable White (6500K–2700K)

Beam Spread

- Ultra Narrow Spot (10°)
- Narrow Spot (20°)
- Spot (30°)
- Flood (40°)
- Wide Flood (50°)
- Linear Spread (50° x 30°)

POWER & CONTROLS

Input Voltage

120 / 277V

Dimming

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

RATINGS & CERTIFICATIONS

- IC Insulation Contact Rated ¹
- ASTM E283 Certified Air Tight
- Chicago Plenum
- UL Listed for Damp Location ²
- RoHS Compliant
- DarkSky Approved ³

¹ New Construction only; IC for Roll, Batt, Loose Fill and Spray Foam

² Under Covered Areas Only

³ CCT less than or equal to 3000K

WARRANTY

5 year limited warranty; 50,000 hours





DMF LightSpeed
Our Quickest Shipping Selections are Highlighted for shipping in **2 days or less**
All other items qty 100 or less ship in 5 days or less (custom color excluded)

X Series
2" Round Adjustable

PRODUCT BUILDER

HOUSING

PRODUCT CODE		INSTALLATION		SHAPE	
X2				R	
X2	2" Housing	NC	New Construction	R	Round
		CP	Chicago Plenum		
		RM	Remodel ¹		

¹ Non-IC installation only; Flanged trims and Micro Flange trims only; Not available with DALI-2 dimming.

MODULE

PRODUCT CODE		LUMENS		CRI		CCT ²		BEAM SPREAD		DIMMING	
XMA				9							
XMA	Adjustable	05	500 lm ³	9	93 CRI	27	2700K	UN	Ultra Narrow Spot (10°) ⁶	O	0-10V
		07	750 lm			30	3000K	NS	Narrow Spot (20°)	T	TRIAC/ELV
		10	1000 lm			35	3500K	SP	Spot (30°)	D	DALI-2 ⁸
						40	4000K	FL	Flood (40°)		
						3W	Warm Dim (3000K–1800K) ⁴	WF	Wide Flood (50°)		
						T1	Tunable White (4000K–1800K) ⁵	LS	Linear Spread (50° x 30°)		
						T2	Tunable White (6500K–2700K) ⁵	UH	Ultra Narrow Spot Hexcell Louver ⁶		
								NH	Narrow Spot Hexcell Louver ⁷		
								SH	Spot Hexcell Louver ⁷		
								FH	Flood Hexcell Louver ⁷		
								WH	Wide Flood Hexcell Louver ⁷		

² DarkSky approved is only applicable to CCT options less than or equal to 3000K

³ Only available with Ultra Narrow Spot or Ultra Narrow Spot Hexcell Louver beam spread

⁴ Only available in 1000 lm; Not available in Narrow Spot beam spread

⁵ Only available in 750 lm; DALI-2 dimming; Not available with Narrow Spot Beam Spread

⁶ Only available in 500 lm; Not available as an optical accessory

⁷ Not available for DALI-2 modules

⁸ Only available in 750 lm with Tunable White CCT, 1000 lm Warm Dim or 1000 lm with static CCT

TRIM

PRODUCT CODE		FINISH		OPTION	
X2TRAS	2" Standard Trim ⁹	WH	White	[Blank]	Flanged (Pinhole Only)
X2TRAP	2" Pinhole Trim ¹⁰	BK	Black	MF	Micro Flange
		BZ	Bronze	FL	Flangeless ¹¹
		CW	Clear Diffuse, White Flange <i>(Coming soon)</i>		
		CC	Custom Color (RAL Colors)		

⁹ Not available in [Blank] Flanged option

¹⁰ Only available in White or Black finish; Not available in Micro Flange option

¹¹ Not available in Clear Diffuse; Requires Flangeless Mud or Wood Kit in New Construction housings; Not compatible with Remodel housing

ACCESSORIES

X2KRMUD	Flangeless Mud Kit <i>(Required for New Construction installation of Flangeless Trim in drywall ceiling)</i>
X2KRWOOD	Wood Kit <i>(Required for New Construction installation of all trims in wood ceiling)</i>
X2KRTEMPLATE	Router Template <i>(Recommended for routing 3 3/16" [81mm] cutout in wood ceiling)</i>

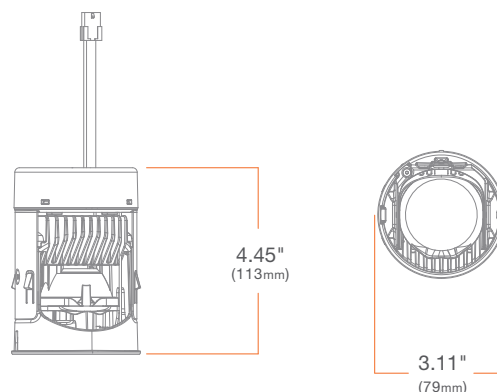


PRODUCT BUILDER

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 <i>(Includes Narrow Spot, Spot, Flood, Wide Flood and Linear Spread)</i>
XAXNH	Narrow Spot Optic with Hexcell Louver
XAXSH	Spot Optic with Hexcell Louver
XAXFH	Flood Optic with Hexcell Louver
XAXWH	Wide Flood Optic with Hexcell Louver
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>

MODULE



PERFORMANCE SUMMARY

	STATIC CCT	WARM DIM	TUNABLE WHITE
CCT	2700K, 3000K, 3500K, 4000K	3000K - 1800K	4000K - 1800K; 6500K - 2700K
LUMENS (POWER)	500 lm (9.5W), 750 lm (9.5W), 1000 lm (12.5W)	1000 lm (12.5W)	750 lm (12.5W)
EFFICACY	53 lm /W, 79 lm/W, 80 lm/W	80 lm/W	60 lm/W
COLOR QUALITY	93 CRI ¹ , 2-step SDCM	93 CRI ¹ , 3-step SDCM	93 CRI ¹ , 3-step SDCM
BEAM SPREAD	Ultra Narrow Spot (10°), Narrow Spot (20°), Spot (30°), Flood (40°), Wide Flood (50°), Linear Spread (50°x30°)	Spot (30°), Flood (40°), Wide Flood (50°), Linear Spread (50°x30°)	Spot (30°), Flood (40°), Wide Flood (50°), Linear Spread (50°x30°)
DIMMING	0-10V, TRIAC/ELV, DALI-2 ²	0-10V, TRIAC/ELV, DALI-2	DALI-2
LED CHIP	Cree	Bridgelux	Bridgelux
LISTINGS	ENERGY STAR® qualified ³ , California Title 24 2019–2022 JA8-E Compliant, UL Listed for Damp Location ⁴ , UL Certified US-CA, Declare, RoHS compliant, Shatter-resistant construction, DALI-2 Compliant, Dark Sky Compliant ⁵ , Compliant with FCC CFR Title 47 Part 15; Class B		
ADJUSTMENT	360° directional aim, 35° tilt		
SLOPE CEILING COMPATIBILITY	Up to 35°		

¹ Tested in accordance to IESNA LM-79-2008

² Available in 1000lm Only (12.5W)

³ Refer to ENERGY STAR Certified light fixtures database

⁴ Under covered areas only

⁵ Only applicable to CCT options less than or equal to 3000K

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

MODULE PERFORMANCE

Based on 93 CRI, 3000K Module + Standard Micro Flange Trim, White (X2TRASWHMF)

(Please refer to IES files for other trim types)

		STATIC CCT			WARM DIM	T1	T2
LED CHIP		CREE 93 CRI			Bridgelux 93 CRI		
SDCM		2-STEP			3-STEP		
PN DESIGNATION		05	07	10	10	07	07
WATTAGE		9.5W	9.5W	12.5W	12.5W	12.5W	12.5W
UN	Lumens	565	N/A		N/A		
	LPW ¹	59.5					
	CBCP ²	6217					
	UGR ³	10.1					
NS	Lumens	N/A	756	995	N/A		
	LPW		79.6	79.6			
	CBCP		3631	4778			
	UGR		10.5	11.4			
SP	Lumens	N/A	736	968	832	540	534
	LPW		77.5	77.4	66.6	43.2	42.7
	CBCP		2560	3368	2897	1879	1858
	UGR		11.4	12.4	11.9	10.4	8.9
FL	Lumens	N/A	743	978	841	546	540
	LPW		78.2	78.2	67.3	43.7	43.2
	CBCP		1564	2058	1770	1148	1136
	UGR		11.8	12.7	12.2	10.7	9.4
WF	Lumens	N/A	742	976	839	545	539
	LPW		78.1	78.1	67.1	43.6	43.1
	CBCP		1008	1326	1140	740	732
	UGR		14.1	15.1	14.6	12.8	11.6
LS	Lumens	N/A	708	931	801	519	514
	LPW		74.5	74.5	64.1	41.5	41.1
	CBCP		1436	1889	1624	1054	1024
	UGR		12.7	13.6	13.1	10.2	11.5

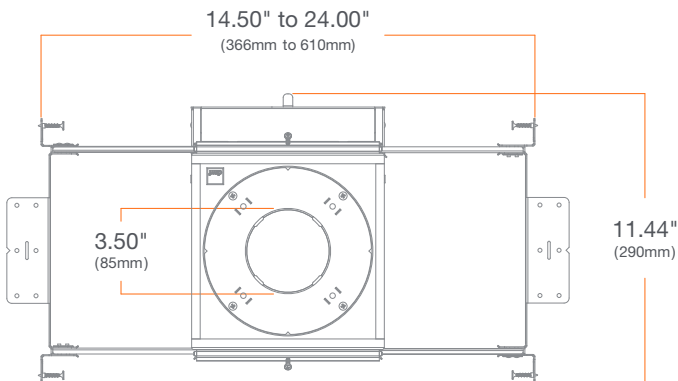
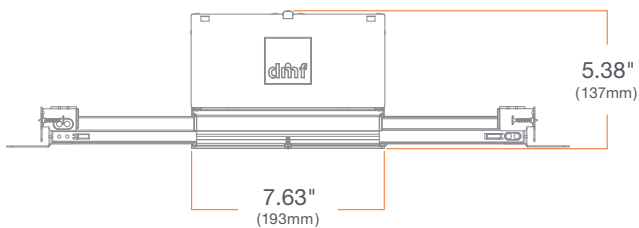
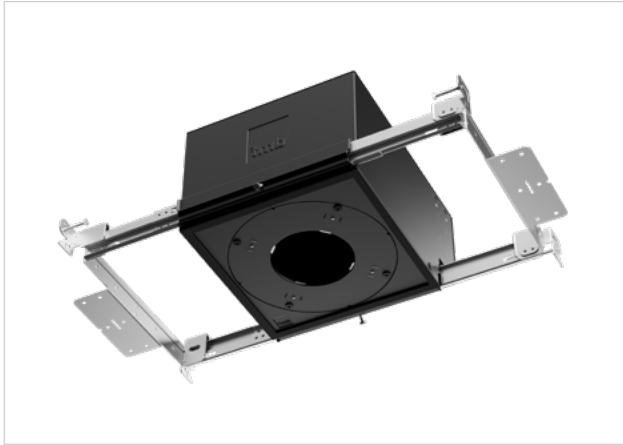
	STATIC				WARM DIM		T1 TUNABLE WHITE			T2 TUNABLE WHITE		
CCT MULTIPLIER	2700K	3000K	3500K	4000K	1800K	3000K	1800K	3000K	4000K	2700K	3000K	6500K
	0.93	1	1.05	1.07	0.05	1	0.7	1	1.12	0.96	1	1.07

HEXCELL LOUVER MULTIPLIER

0.6

¹ LPW: Lumens per watt² CBCP: Center beam candlepower³ UGR: Unified glare ratio (0.7/0.5/0.2, 4H/8H)

HOUSING



New Construction **X2NCR** Chicago Plenum **X2CPR**

SUMMARY

JUNCTION BOX: Equipped with 10 knockouts: four 0.5" trade size knockouts, two 0.75" 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 round collar.

CEILING: Collar allows for vertical adjustment from 1/2" up to 1 1/4" in the ceiling.

CUTOUT: 3.25" (82mm) round 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 hexcell louver

WARRANTY: 5 year limited warranty

HOUSING



Remodel

X2RMR

SUMMARY

JUNCTION BOX: Equipped with four knockouts: two 0.5" trade size knockouts and two romex knockouts. Approved for 8 (four in, four out) #12 AWG 70°C.

CEILING:

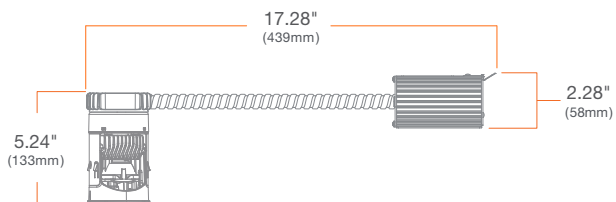
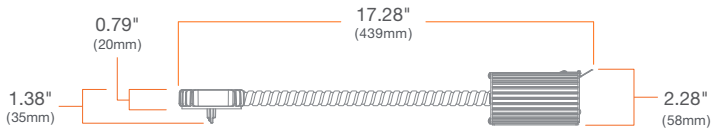
Drywall: 1/2" - 1 1/4" (12mm-32mm)

Wood Ceiling: 1/2" - 1" (12mm-25mm)

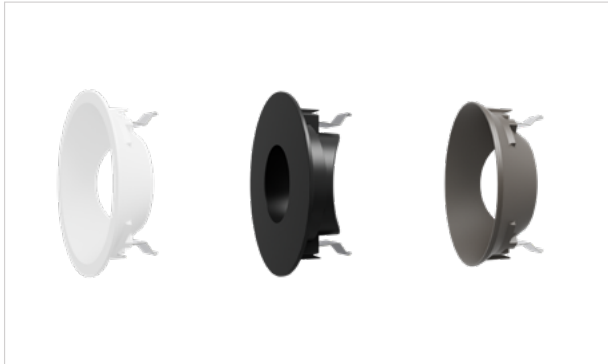
Acoustic Ceiling Tiles: 5/8" - 1 1/4" (16mm-32mm)

CUTOUT: 3.25" (82mm) round opening

WARRANTY: 5 year limited warranty



TRIMS



SUMMARY

CONSTRUCTION: Die-cast aluminum

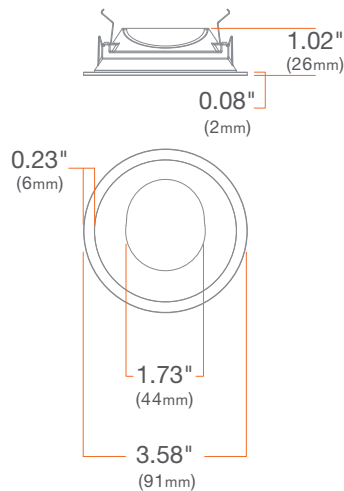
FINISH: Wet paint

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

WARRANTY: 5 year limited warranty

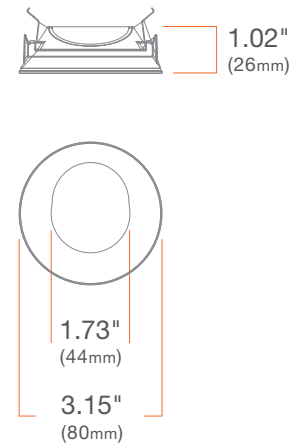
Standard Micro Flange

X2TRASWHMF



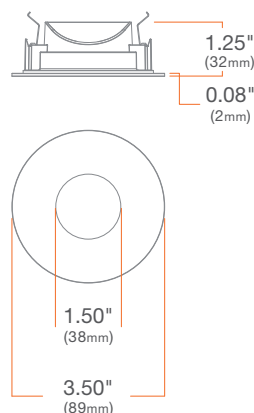
Standard Flangeless

X2TRASWHFL



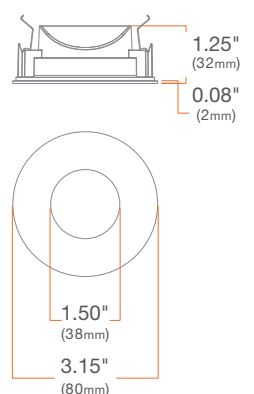
Pinhole

X2TRAPWH



Pinhole Flangeless

X2TRAPWHFL



ACCESSORIES

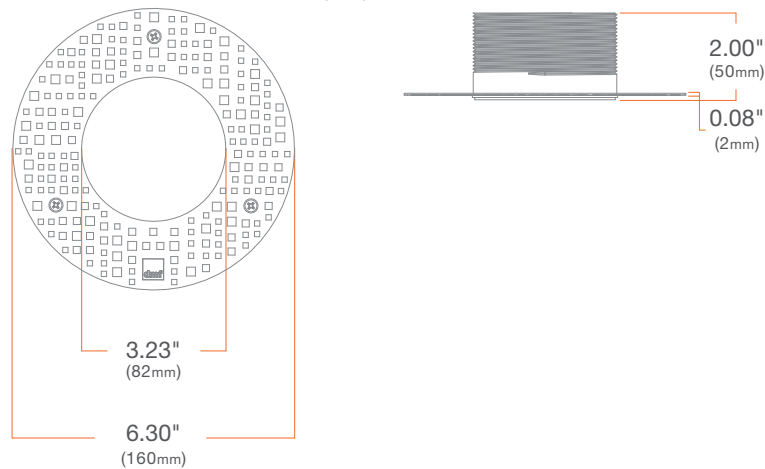


Flangeless Mud Kit

X2KRMUD

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

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

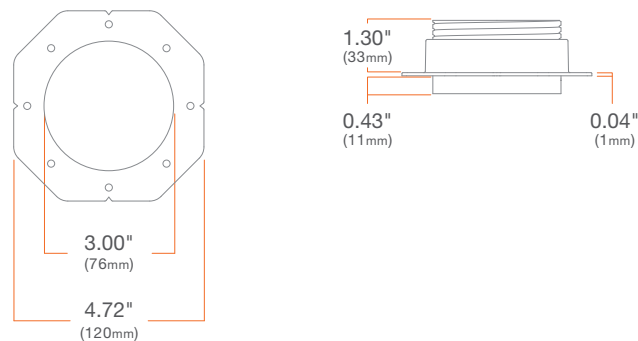


Wood Kit

X2KRWOOD

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

CEILING: 1/2" up to 1"



ACCESSORIES

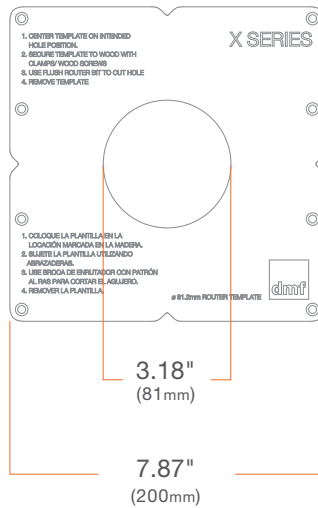


Router Template

X2KRTEMPLATE

SUMMARY: Router Template (Recommended for routing 3 3/16" [81mm] cutout in wood ceiling)

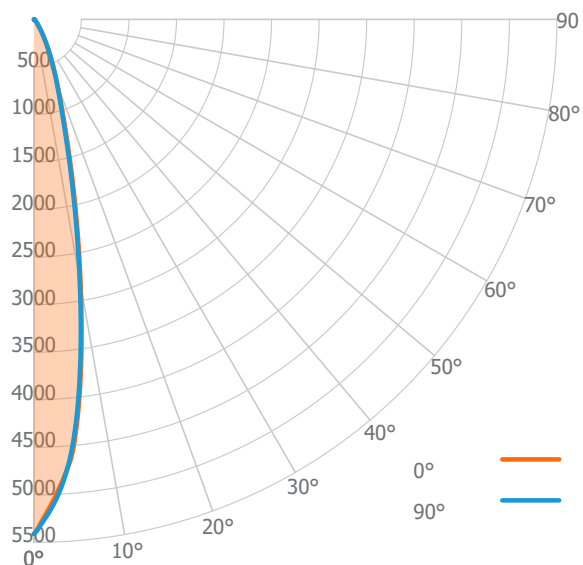
CEILING: 1/2" up to 1 1/4"



PHOTOMETRY

1000 lm, 3000K, Narrow Spot **XMA10930NST**
 2" Standard Micro Flange Trim, White **X2TRASWHMF**

Candela Distribution



Luminous Intensity

	0°
0°	5411
5°	4598
10°	2835
15°	1398
20°	715
25°	385
30°	193
35°	96
40°	53
45°	33
50°	21
55°	15
60°	13
65°	11
70°	8
75°	6
80°	4
85°	2
90°	1

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0° - 30°	890	90%
0° - 40°	944	95%
0° - 60°	978	98%
0° - 90°	995	100%
0° - 180°	995	100%

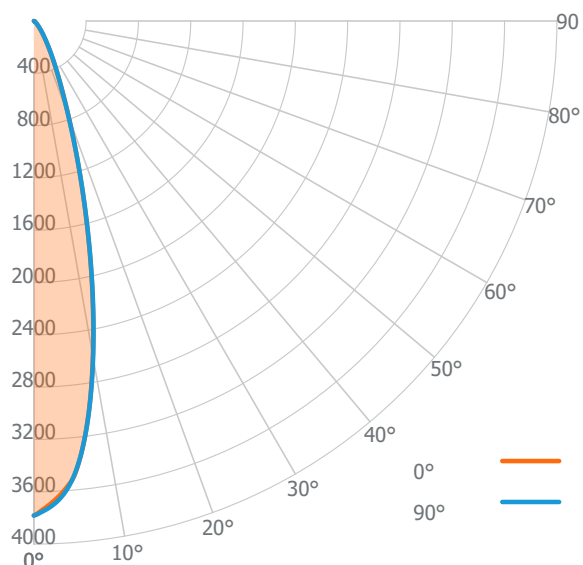
Illuminance Chart

Distance from LED	Foot Candles	Diameter
3 ft	601.2 fc	1.1 ft
6 ft	150.3 fc	2.2 ft
9 ft	66.8 fc	3.3 ft
12 ft	37.6 fc	4.4 ft

Input Watts: **12.5 W**
 Lumens: **995 lm**
 Efficacy: **80 lm/W**
 Beam Angle: **21° x 20°**

1000 lm, 3000K, Spot **XMA10930SPT**
 2" Standard Micro Flange Trim, White **X2TRASWHMF**

Candela Distribution



Luminous Intensity

	0°
0°	3782
5°	3500
10°	2603
15°	1537
20°	780
25°	400
30°	212
35°	115
40°	62
45°	35
50°	22
55°	16
60°	14
65°	12
70°	9
75°	7
80°	4
85°	2
90°	1

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0° - 30°	849	88%
0° - 40°	913	94%
0° - 60°	949	98%
0° - 90°	968	100%
0° - 180°	968	100%

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3 ft	420.2 fc	1.4 ft
6 ft	105.0 fc	2.8 ft
9 ft	46.7 fc	4.2 ft
12 ft	26.3 fc	5.7 ft

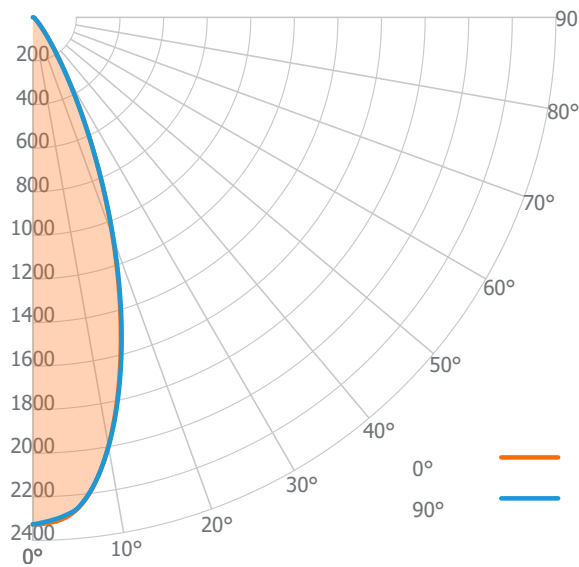
Input Watts: **12.5 W**
 Lumens: **968 lm**
 Efficacy: **77 lm/W**
 Beam Angle: **27° x 27°**

PHOTOMETRY

1000 lm, 3000K, Flood **XMA10930FLT**

2" Standard Micro Flange Trim, White **X2TRASWHMF**

Candela Distribution



Luminous Intensity

	0°
0°	2326
5°	2270
10°	1998
15°	1561
20°	1072
25°	629
30°	319
35°	149
40°	72
45°	38
50°	21
55°	15
60°	12
65°	11
70°	9
75°	6
80°	4
85°	2
90°	1

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0° - 30°	843	86%
0° - 40°	925	95%
0° - 60°	961	98%
0° - 90°	978	100%
0° - 180°	978	100%

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3 ft	258.5 fc	2.1 ft
6 ft	64.6 fc	4.1 ft
9 ft	28.7 fc	6.2 ft
12 ft	16.2 fc	8.3 ft

Input Watts: **12.5 W**

Lumens: **978 lm**

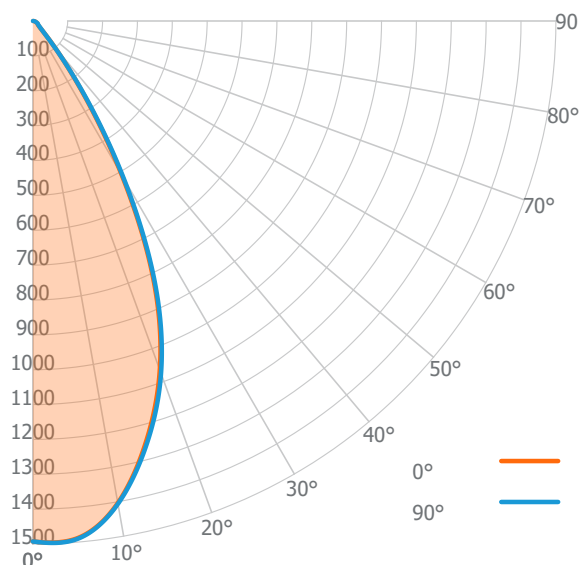
Efficacy: **78 lm/W**

Beam Angle: **38° x 38°**

1000 lm, 3000K, Wide Flood **XMA10930WFT**

2" Standard Micro Flange Trim, White **X2TRASWHMF**

Candela Distribution



Luminous Intensity

	0°
0°	1493
5°	1488
10°	1404
15°	1252
20°	1065
25°	819
30°	510
35°	245
40°	95
45°	38
50°	23
55°	17
60°	15
65°	13
70°	10
75°	7
80°	5
85°	3
90°	1

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0° - 30°	781	80%
0° - 40°	914	94%
0° - 60°	956	98%
0° - 90°	976	100%
0° - 180°	976	100%

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3 ft	165.9 fc	3.0 ft
6 ft	41.5 fc	5.9 ft
9 ft	18.4 fc	8.9 ft
12 ft	10.4 fc	11.8 ft

Input Watts: **12.5 W**

Lumens: **976 lm**

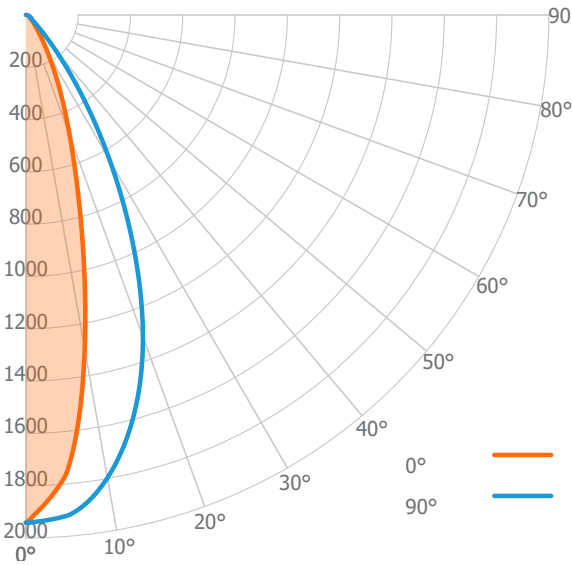
Efficacy: **78 lm/W**

Beam Angle: **52° x 52°**

PHOTOMETRY

1000 lm, 3000K, Linear Spread **XMA10930LST**
2" Standard Micro Flange Trim, White **X2TRASWHMF**

Candela Distribution



Luminous Intensity

	0°
0°	1941
5°	1763
10°	1296
15°	812
20°	491
25°	297
30°	169
35°	98
40°	59
45°	39
50°	27
55°	20
60°	17
65°	14
70°	11
75°	8
80°	5
85°	3
90°	1

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0° - 30°	724	78%
0° - 40°	848	91%
0° - 60°	906	97%
0° - 90°	931	100%
0° - 180°	931	100%

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3 ft	215.7 fc	1.4 ft
6 ft	53.9 fc	2.8 ft
9 ft	24.0 fc	4.2 ft
12 ft	13.5 fc	5.6 ft

Input Watts: 12.5 W
Lumens: 931 lm
Efficacy: 74 lm/W
Beam Angle: 26° x 50°