

Project:	Type:
Product Code:	Date:

V111723



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, Micro Flange, Flangeless, Wall Wash, 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
- 3000K
- 3500K
- 4000K
- Warm Dim (3000K–1800K)
- Tunable White (4000K–1800K)
- Tunable White (6500K–2700K)

Beam Spread

- Spot (25°)
- Flood (40°)
- Wide Flood (60°)
- Linear Spread

Warranty

10 year limited warranty; 50,000 hours

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 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



PRODUCT BUILDER

HOUSING

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

MODULE

PRODUCT CODE		LUMENS		COLORMETRIC		CCT		BEAM SPREAD		DIMMING	
iXMD	Downlight	07	750 lm	T	True Spectrum™	27	2700K	SP	Spot (25°)	T	TRIAC/ELV
		10	1000 lm			30	3000K	FL	Flood (40°)	D	DALI-2 ³
		12	1250 lm			35	3500K	WF	Wide Flood (60°)		
						40	4000K	LS	Linear Spread		
						3W	Warm Dim (3000K - 1800K) ¹				
						T1	Tunable White (4000K - 1800K) ²				
						T2	Tunable White (6500K - 2700K) ²				

¹ Only available in 1000 lm; Not available in Spot beam spread
² Only available in 1000 lm, DALI-2 dimming

³ Only available in 1000 lm for Tunable White CCT and Warm Dim or 1250 lm with static CCT

TRIM

PRODUCT CODE		FINISH		OPTION	
X2TSDS	2" Standard Trim	WH	White	[Blank]	None
X2TSDW	2" Wall Wash Trim ⁴	BK	Black	MF	Micro Flange ⁵
		BZ	Bronze	FL	Flangeless ^{5,6,7}
		CW	Clear Diffuse, White Flange	DO	Decorative: Open ⁸
		WW	Warm Diffuse, White Flange	DF	Decorative: Float ⁸
		CC	Custom (RAL colors)		

⁴ Recommended with Wide Flood beam spread
⁵ Not available in Clear or Warm Diffuse finish
⁶ Requires Flangeless Mud or Wood Kit

⁷ Not compatible with Remodel Housing
⁸ Only available in 750 lm, Standard style, White finish

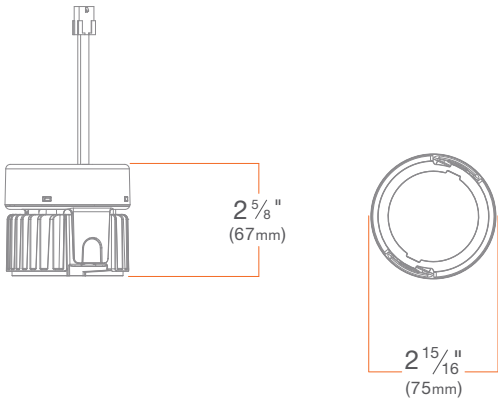
ACCESSORIES & KITS

X2ODSP	Spot (25°) Optic
X2ODFL	Flood (40°) Optic
X2ODWF	Wide Flood (60°) Optic
X2ODLS	Linear Spread Optic

X2KSMUD	Flangeless Mud Kit <i>(Required for installation of Flangeless Trim in drywall ceiling)</i>
X2KSWOOD	Flangeless Wood Kit <i>(Required for installation of Flangeless Trim in wood ceiling)</i>
X2KSTEMPLATE	Router Template <i>(Recommended for routing 3 3/16" [81mm] cutout for Flangeless Trim in wood ceiling)</i>



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), 1250 lm (14.3W), 1500 lm (16.5W)	1000 lm (12.0W)	1000 lm (14.3W)
EFFICACY	79 lm/W, 80 lm/W, 87 lm/W, 91 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	Spot (25°), Flood (40°), Wide Flood (60°), Linear Spread (60° x 10°)	Flood (40°), Wide Flood (60°), Linear Spread (60° x 10°)	Spot (30°), Flood (40°), Wide Flood (60°), Linear Spread (60° x 10°)
DIMMING	0-10V, TRIAC/ELV, DALI-2	0-10V, TRIAC/ELV, DALI-2	DALI-2
LED CHIP	Cree Pro9	Bridgelux	Bridgelux
LISTINGS	ENERGY STAR® qualified*, California Title 24 2019 JA8 compliant, UL Listed for Wet Location, UL Certified US-CA, Declare, RoHS compliant		

* 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): 0.13 amps	AMBIENT OPERATING TEMPERATURE: -20°C to 40°C
MAX INPUT CURRENT (277V): 0.06 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

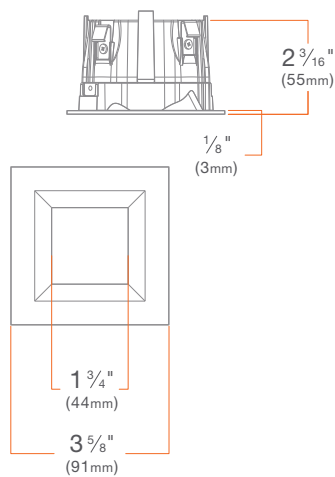
DECORATIVE: Acrylic diffuser

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

WARRANTY: 1 year limited warranty

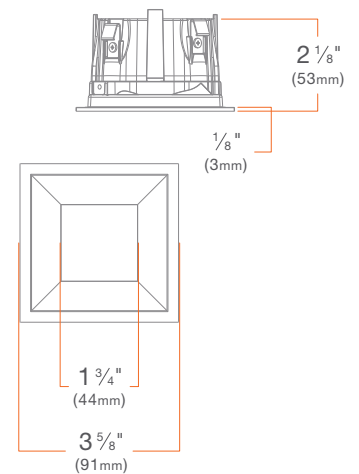
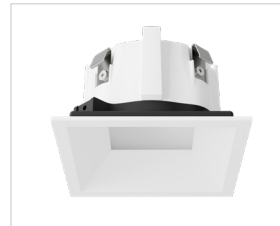
Standard

X2TSDSWH



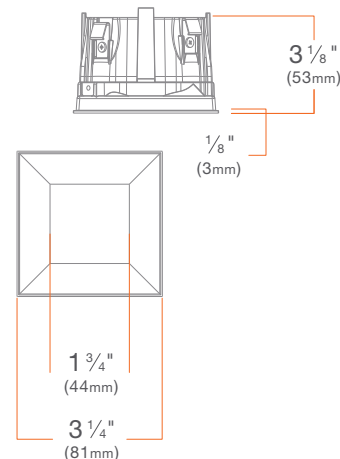
Micro Flange

X2TSDSWHMF



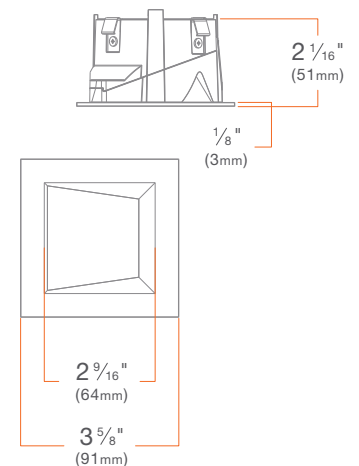
Flangeless

X2TSDSWHFL



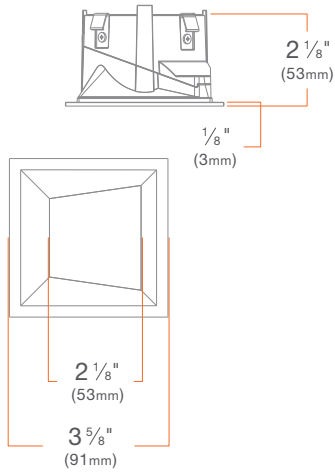
Wall Wash

X2TSDWWH



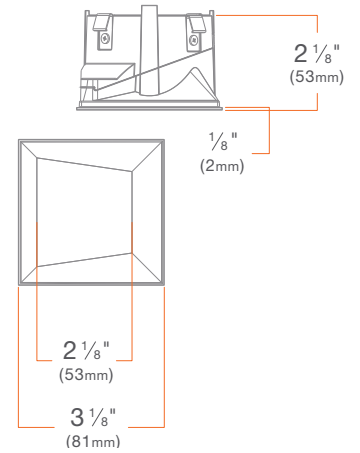
Wall Wash Micro Flange

X2TSDWWHMF



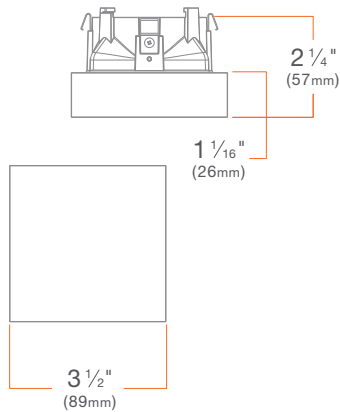
Wall Wash Flangeless

X2TSDWWHFL



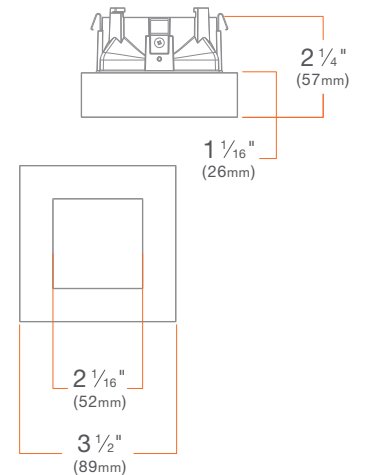
Decorative: Floating

X2TSDSWHDF



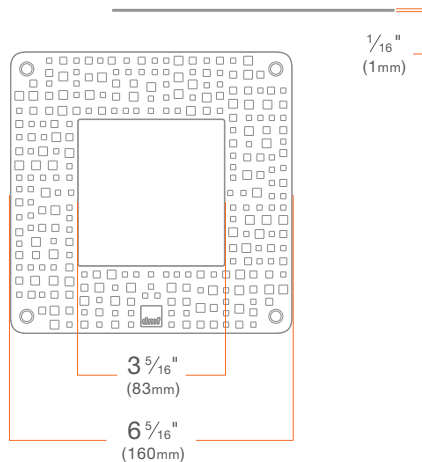
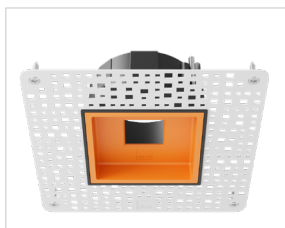
Decorative: Open

X2TSDSWHDO

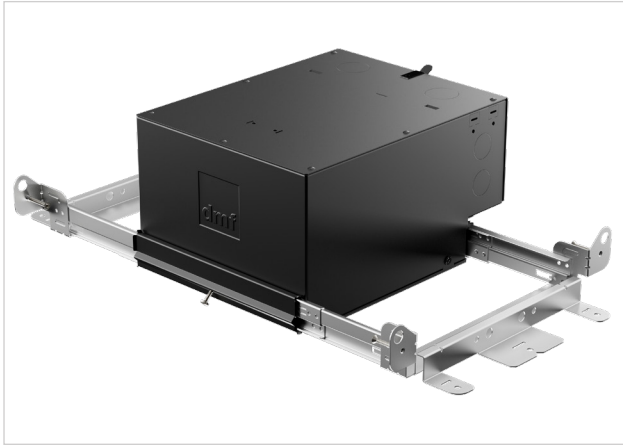


Flangeless Mud Plate

X2KSMUD



HOUSING



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

SUMMARY

JUNCTION BOX: Equipped with six 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.

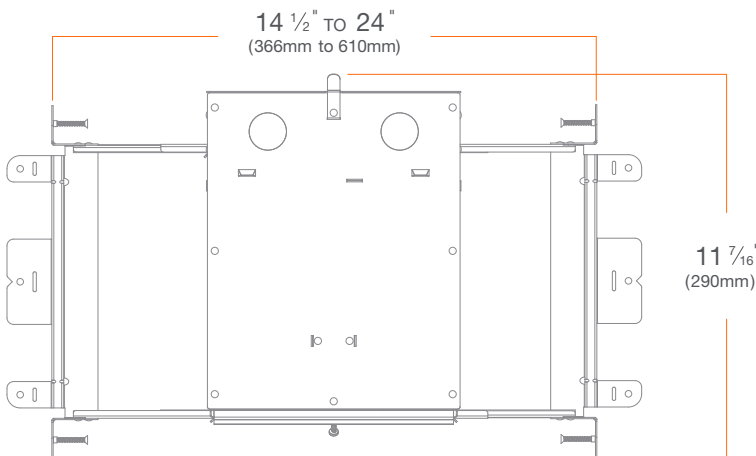
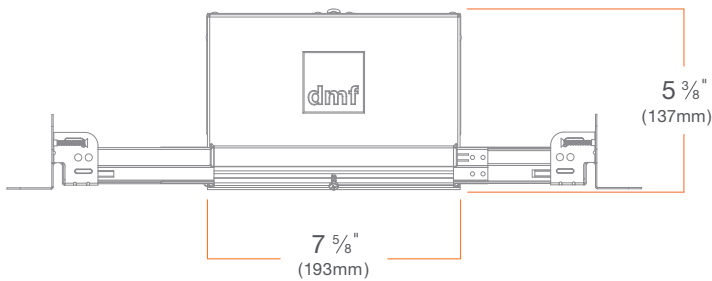
MOUNTING: Pre-installed mounting brackets allow vertical adjustment of bar hangers up to 1 ¼".

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



HOUSING



Remodel

X2RMS

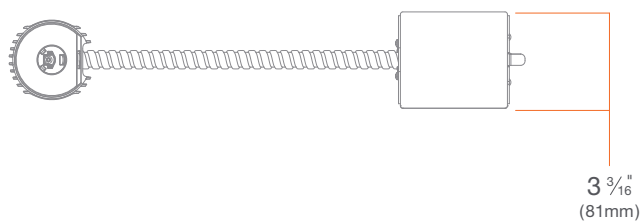
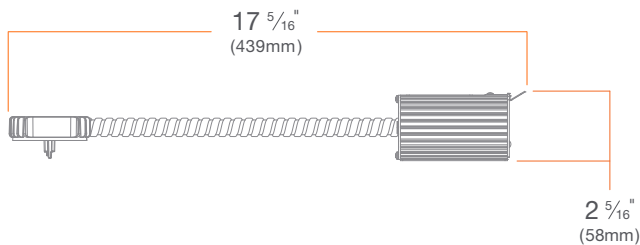
SUMMARY

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

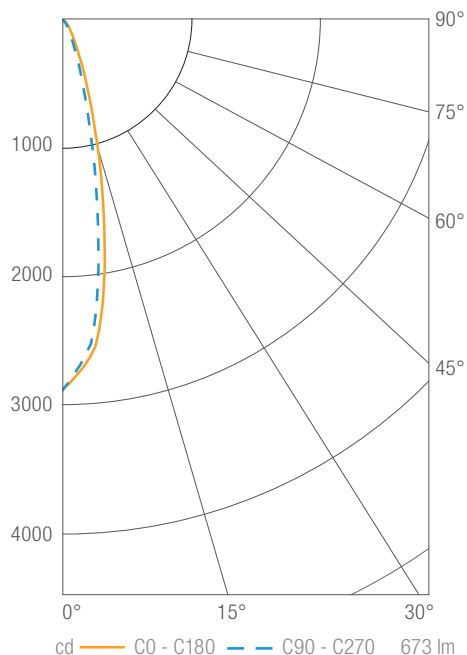
WARRANTY: 1 year limited warranty



PHOTOMETRY

750 lm, 3000K, Spot

iXMD07930SPT



Luminous Intensity

Gamma	C 0°
0°	2880
5°	2631
10°	1875
15°	1084
20°	560
25°	282
30°	149
35°	86
40°	55
45°	37
50°	26
55°	18
60°	12
65°	8
70°	4
75°	1
80°	1
85°	0
90°	0

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	586	87
0-40	629	94
0-60	665	99
0-90	673	100
0-180	673	100

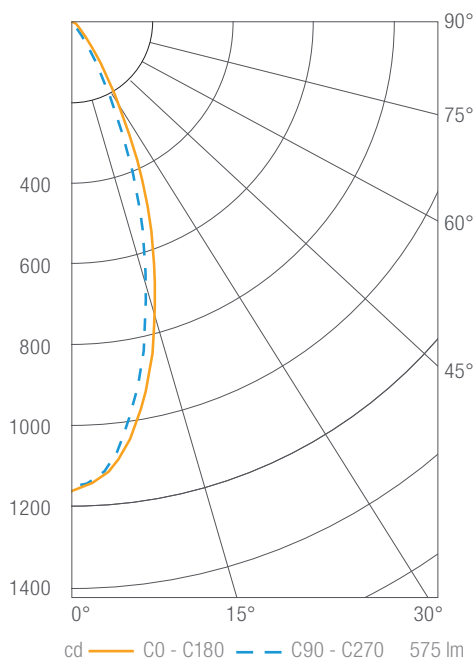
Illuminance Chart

Distance from LED	Foot Candles	Diameter
3'	320	1.4'
6'	80	2.7'
9'	36	4.1'
12'	20	5.4'

Beam Angle: 26°

750 lm, 3000K, Flood

iXMD07930FLT



Luminous Intensity

Gamma	C 0°
0°	1148
5°	1129
10°	988
15°	774
20°	556
25°	368
30°	229
35°	140
40°	88
45°	58
50°	39
55°	26
60°	17
65°	11
70°	6
75°	2
80°	1
85°	1
90°	0

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	436	76
0-40	508	88
0-60	563	98
0-90	575	100
0-180	575	100

Illuminance Chart

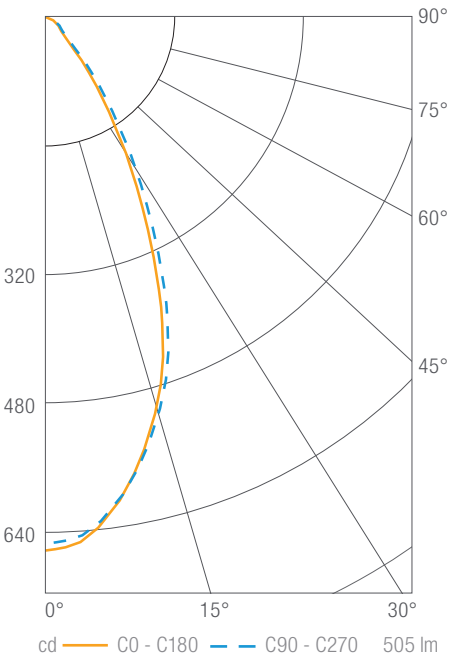
Distance from LED	Foot Candles	Diameter
3'	128	2.1'
6'	32	4.2'
9'	14	6.3'
12'	8	8.3'

Beam Angle: 38°

PHOTOMETRY

750 lm, 3000K, Wide Flood

iXMD07930WFT



Luminous Intensity

Gamma	C 0°
0°	665
5°	659
10°	605
15°	520
20°	425
25°	328
30°	239
35°	167
40°	115
45°	78
50°	52
55°	35
60°	23
65°	14
70°	7
75°	2
80°	1
85°	0
90°	0

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	326	65
0-40	415	82
0-60	490	97
0-90	505	100
0-180	505	100

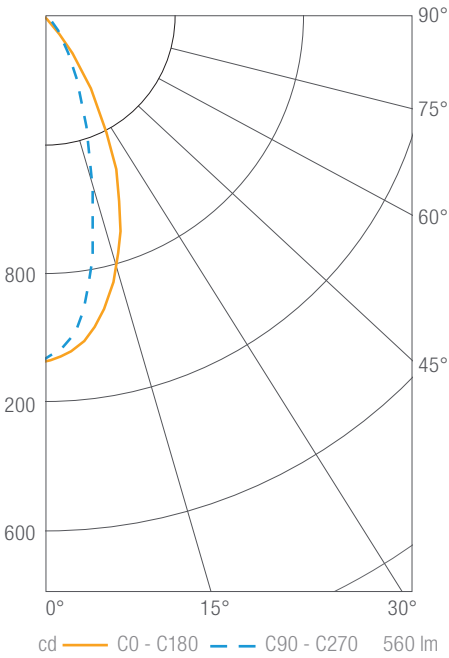
Illuminance Chart

Distance from LED	Foot Candles	Diameter
3'	74	2.8'
6'	19	5.5'
9'	8	8.3'
12'	5	11.1'

Beam Angle: 50°

750 lm, 3000K, Linear Spread

iXMD07930LST



Luminous Intensity

Gamma	C 0°
0°	1070
5°	1056
10°	976
15°	834
20°	666
25°	496
30°	341
35°	216
40°	133
45°	81
50°	49
55°	32
60°	21
65°	13
70°	6
75°	2
80°	1
85°	1
90°	0

Values in candela

Zonal Lumen Summary

Zone	Lumens	Luminaire %
0-30	407	73
0-40	488	87
0-60	549	98
0-90	560	100
0-180	560	100

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3'	119	2.6'
6'	30	5.3'
9'	13	7.9'
12'	7	10.6'

Beam Angle: 48° x 30°