



Turtle & Wildlife Friendly

To maintain true-dimension consistency across our portfolio, this family is now designated as 3" to reflect its true lower inner diameter. All fixture dimensions, cutouts, performance, and hardware remain 100% unchanged



Project:	Type:
Product Code:	Date:

V082426

3" Round Downlight

Formerly Designated as 2" | Same Hardware & Performance

Turtle Friendly Compliant with national guidelines to minimize lighting's impact on sea turtles

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"
Extension Collar: 1 1/4" up to 3"

Ceiling Material

Drywall, Millwork, Acoustic Ceiling Tiles

TRIMS

Style

Standard Micro Flange, Flangeless, Wall Wash, Pinhole, Hyperbolic

Finish

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

SPECIALTY LENS

Hexcell Louver

MAINTENANCE

The driver and LED chip are embedded within the module for fully touch safe replacement from below the ceiling. All field splices are also readily accessible at the ceiling plane.

LIGHT OUTPUT & DISTRIBUTION

Module

Downlight

Lumens (Power)

300 lm (7.7W)

Wavelength

>560nm

Color Temperature

 Turtle Friendly Cree® Amber LED (no color filter)

Beam Spread

 20° Narrow Spot	 30° Spot
 40° Flood	 50° Wide Flood
 50° x 30° Linear Spread	

POWER & CONTROLS

Input Voltage

120 / 277V

Dimming

0-10V (1%)

RATINGS & CERTIFICATIONS

-  IC Insulation Contact Rated ¹
-  ASTM E283 Certified Air Tight
-  Chicago Plenum
-  UL Listed for Wet Location ²
-  RoHS Compliant
-  NSF Listed ³
-  DarkSky Approved
Sea Turtle Sensitive Luminaire

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

² Flanged Trims, Under Covered Areas Only

³ White and Black Finish Only

WARRANTY

5 year limited warranty; 50,000 hours



Declare.



DMF LIGHTING 1118 E. 223rd St. Carson, CA 90745 323.934.7779 info@dmflighting.com dmflighting.com

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*Legacy Submittals referencing "2" Round Downlight" correspond directly to this 3" fixture





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

3" Round Downlight
Turtle & Wildlife Friendly

PRODUCT BUILDER

HOUSING

EXAMPLE: **X2NCR**

PRODUCT CODE		INSTALLATION		SHAPE	
X2				R	
X2	3" Housing	NC	New Construction	R	Round
		CP	Chicago Plenum		
		RM	Remodel ¹		

¹ Non-IC installation only; Flanged and Micro Flanged trims only

MODULE

EXAMPLE: **XMD03STFNSO**

PRODUCT CODE		LUMENS		CRI		CCT		BEAM SPREAD		DIMMING	
XMD		03		S		TF				O	
XMD	Downlight	03	300 lm	S	Specialty	TF	Turtle & Wildlife Friendly	NS	Narrow Spot (20°)	O	0-10V
								SP	Spot (30°)		
								FL	Flood (40°)		
								WF	Wide Flood (50°)		
								LS	Linear Spread (50°x30°)		
								NH	Narrow Spot Hexcell Louver		
								SH	Spot Hexcell Louver		
								FH	Flood Hexcell Louver		
								WH	Wide Flood Hexcell Louver		

TRIM

EXAMPLE: **X2TRDSWHMF**

PRODUCT CODE		FINISH		OPTION	
X2TRDS	3" Standard Trim ²	WH	White ●	[Blank]	Flanged (Pinhole or Hyperbolic Only)
X2TRDW	3" Wall Wash ³	BK	Black ●	MF	Micro Flange
X2TRDP	3" Pinhole Trim ⁴	BZ	Bronze ●	FL	Flangeless ⁶
X2TRDH	3" Hyperbolic Trim ⁴	CW	Clear Diffuse, White Flange ●		
		CC	Custom Color (RAL Colors) ●		
		PREMIUM METALIZED FINISH (10 WEEK LEAD TIME)			
		BR	Brass ⁵ ●		
		CO	Copper ⁵ ●		
		GR	Graphite ⁵ ●		

² Not available in [Blank] Flanged option

³ Only available in Micro Flange or Flangeless Option;
Recommended with Wide Flood beam spread;
Not available in Bronze finish

⁴ Not available in Clear Diffuse or Bronze finish; Only available
with [Blank] or Flangeless Option

⁵ Only available in Standard style, with Micro Flange or
Flangeless Option

⁶ Requires Flangeless Mud or Wood Kit in New Construction
housings; Not compatible with Remodel Housing; Not
available in Clear Diffuse finish

ACCESSORY

X2KRMUD	Flangeless Mud Kit (Required for New Construction installation of Flangeless trim in drywall ceiling)
X2KRWOOD	Wood Kit (Required for New Construction installation of all trims in wood ceiling)
X2KRWOODXL	Wood Extension Collar (New Construction only, for ceilings up to 3")

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PRODUCT BUILDER

LOOSE OPTICS

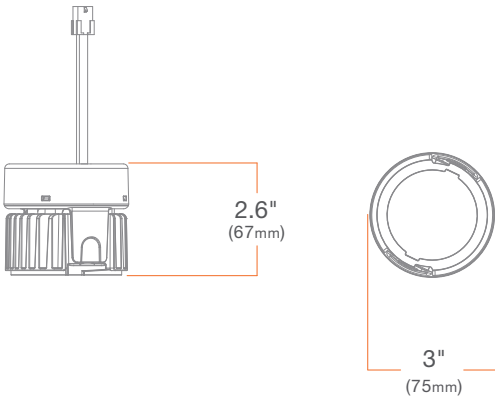
DXNS	Narrow Spot (20°) Optic
DXSP	Spot (30°) Optic
DXFL	Flood (40°) Optic
DXWF	Wide Flood (50°) Optic
DXLS	Linear Spread (50°x30°) Optic
DXNH	Narrow Spot Optic with Hexcell Louver
DXOP	Bundled Downlight Optics Kit <i>(Includes Narrow Spot, Spot, Flood, Wide Flood and Linear Spread)</i>
DXSH	Spot Optic with Hexcell Louver
DXFH	Flood Optic with Hexcell Louver
DXWH	Wide Flood Optic with Hexcell Louver
DXHD	High Diffusion Front Lens <i>(Can be paired with all beam spreads to provide extra diffusion; Only available as an optical accessory)</i>
DXCL	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

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 or Remodel of all trims in wood ceiling)</i>
X2KRTEMPLATE	Router Template <i>(Recommended for routing 3 3/16" [81mm] cutout in wood ceiling)</i>
X2CREXT	Drywall Extension Collar <i>(New Construction only, for ceilings up to 3")</i>
X2KRWOODXL	Wood Extension Collar <i>(New Construction only, for ceilings up to 3")</i>



MODULE



PERFORMANCE SUMMARY

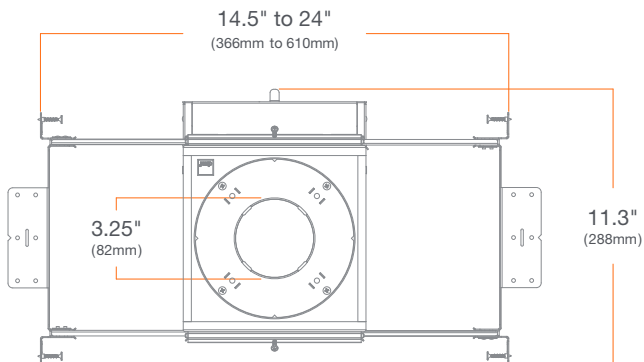
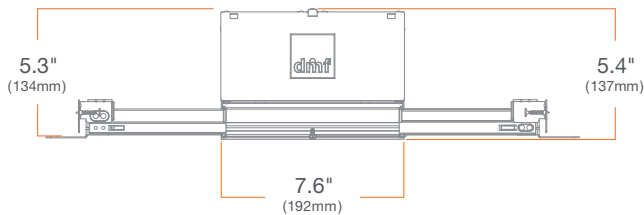
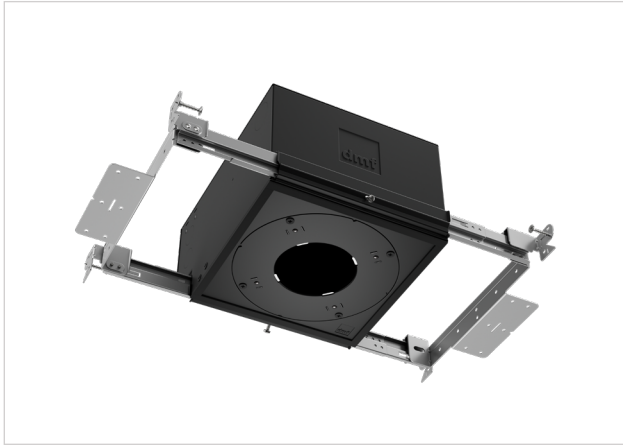
	STATIC CCT
CCT	Turtle & Wildlife Friendly Amber LED
LUMENS (POWER)	300 lm (7.7W)
EFFICACY	39 lm/W
WAVELENGTH	> 560 nm
BEAM SPREAD	Narrow Spot (20°), Spot (30°), Flood (40°), Wide Flood (50°), Linear Spread (50°x30°)
DIMMING	0-10V
LED CHIP	Cree Amber LED
LISTINGS	UL Listed for Wet Location ¹ , UL Certified US-CA, Declare, RoHS compliant, Shatter-resistant construction, NSF/ANSI 2 Listed ² , Compliant to FWC Sea Turtle Lighting Guidelines, DarkSky Approved Sea Turtle Sensitive Luminaires, Compliant with FCC CFR Title 47 Part 15; Class B

¹ With flanged trims, under covered areas only
² In accordance to NSF/ANSI 2 for Splash Zone having designated trim finishes

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: 5 year limited warranty; 50,000 hours at 70% lumen maintenance
CONNECTOR: 6-pin Molex	
POWER FACTOR: Greater than 0.9	

HOUSING



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

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 1/2" to 24" joist spacing, when bar hangers are broken down, up to 10 1/2" of joist spacing. Compatible with traditional joists, Armstrong TM ceiling, Hat Channel and T-Bar. Vertical adjustment (1/2"-1 1/4") 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 1/4" (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 beveled trims, up to R-32 Spray Foam with other trims or Hexcell Louver.



HOUSING



Remodel

X2RMR

SUMMARY

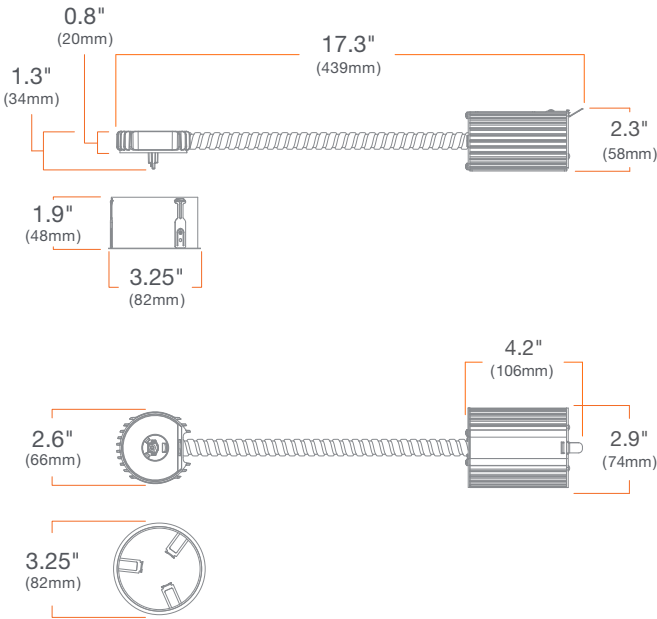
JUNCTION BOX: Equipped with four knockouts: two 1/2" trade size knockouts and two romex knockouts. Approved for 8 (four in, four out) #12 AWG 70°C.

CEILING:

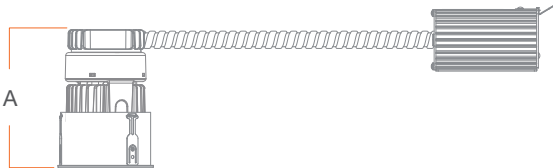
- Drywall: 1/2" - 1 1/4" (12mm-32mm)
- Wood Ceiling: 1/2" - 1" (12mm-25mm)
- Acoustic Ceiling Tiles: 5/8" - 1 1/4" (16mm-32mm)

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

TRIM COMPATIBILITY: Flanged & Micro Flanged only



Total Height in Plenum



Trim	A
Wall Wash	4.9" [124 mm]
Others	4.75" [121 mm]

TRIMS



SUMMARY

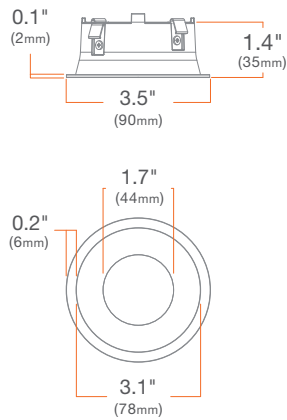
CONSTRUCTION: Die-cast aluminum

FINISH: Wet paint

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

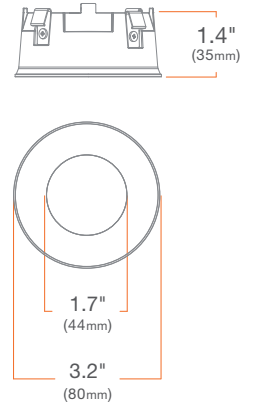
Standard Micro Flange

X2TRDSWHMF



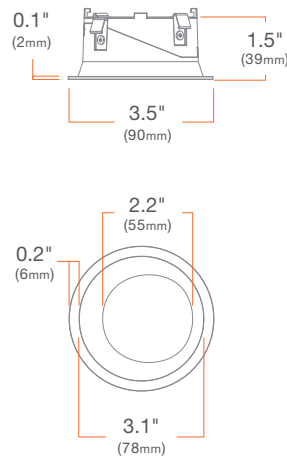
Standard Flangeless

X2TRDSWHFL



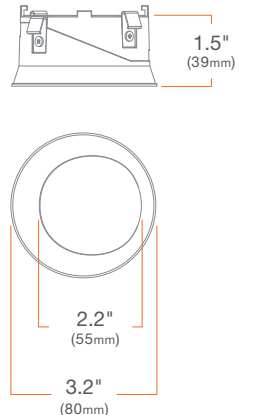
Wall Wash Micro Flange

X2TRDWWHMF



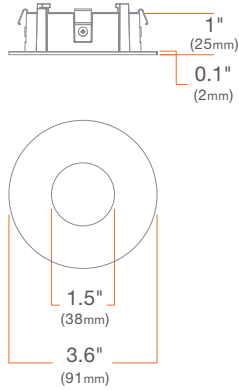
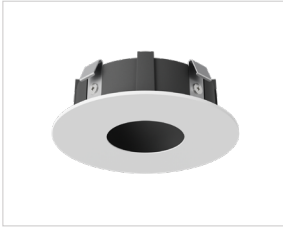
Wall Wash Flangeless

X2TRDWWHFL



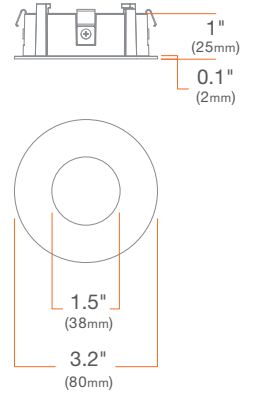
Pinhole

X2TRDPWH



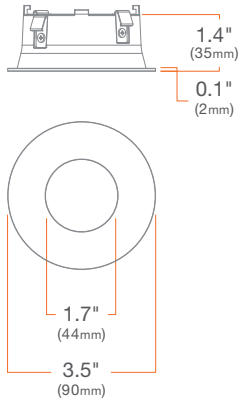
Pinhole Flangeless

X2TRDPWHFL



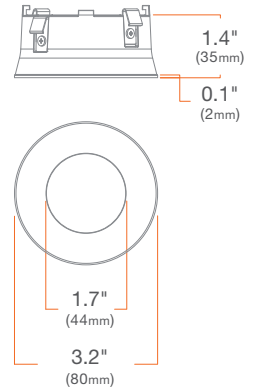
Hyperbolic

X2TRDHW



Hyperbolic Flangeless

X2TRDHWFL



ACCESSORIES

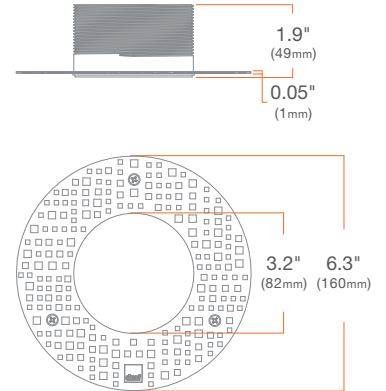


Flangeless Mud Kit

X2KRMUD

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

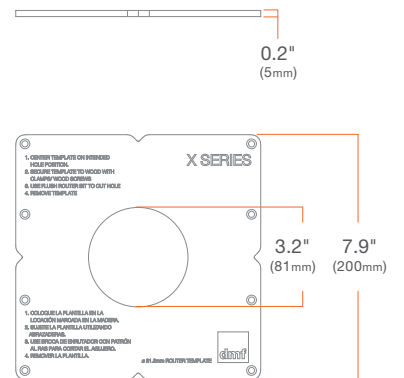
CEILING: 1/2" up to 1 1/4"



Router Template

X2KRTEMPLATE

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

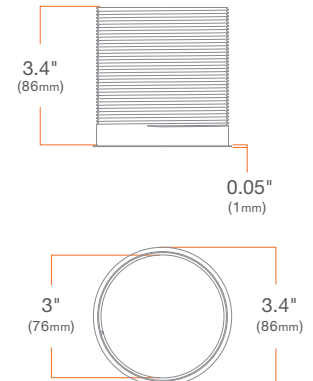


Extension Collar

X2CREXT

SUMMARY: Extension Collar for drywall ceiling with flanged trims

CEILING: 1/2" up to 3"



ACCESSORIES

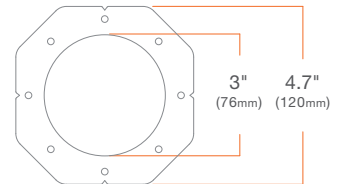
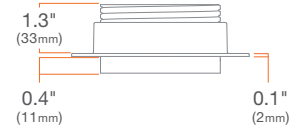


Wood Kit

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"

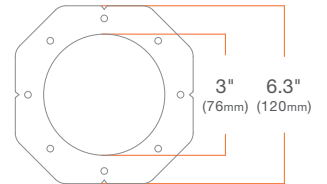
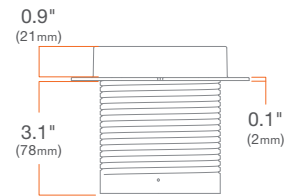


Wood Extension Collar

X2KRWOODXL

SUMMARY: Extension Collar for wood ceiling (Must be mounted on the wood prior to ceiling installation.)

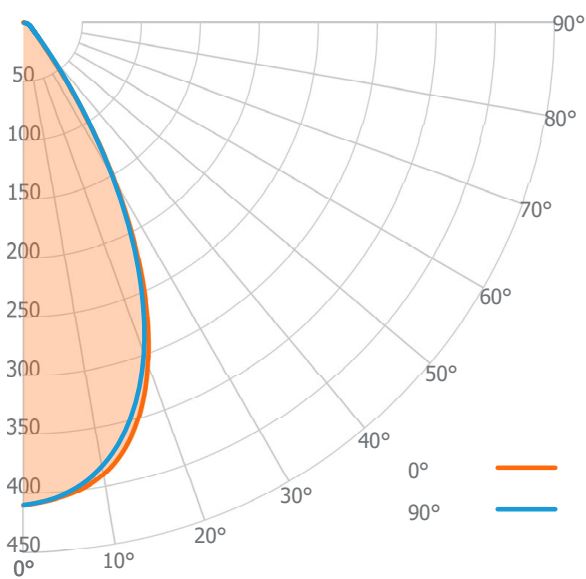
CEILING: 1/2" up to 3"



PHOTOMETRY

300 lm, Turtle & Wildlife Friendly, Wide Flood XMD03STFWFT
2" Standard Micro Flange Trim, White X2TRDSWHMF

Candela Distribution



Luminous Intensity

	0°
0°	410
5°	404
10°	390
15°	360
20°	309
25°	238
30°	153
35°	77
40°	34
45°	18
50°	11
55°	8
60°	7
65°	6
70°	4
75°	3
80°	2
85°	1
90°	0

Zonal Lumen Summary

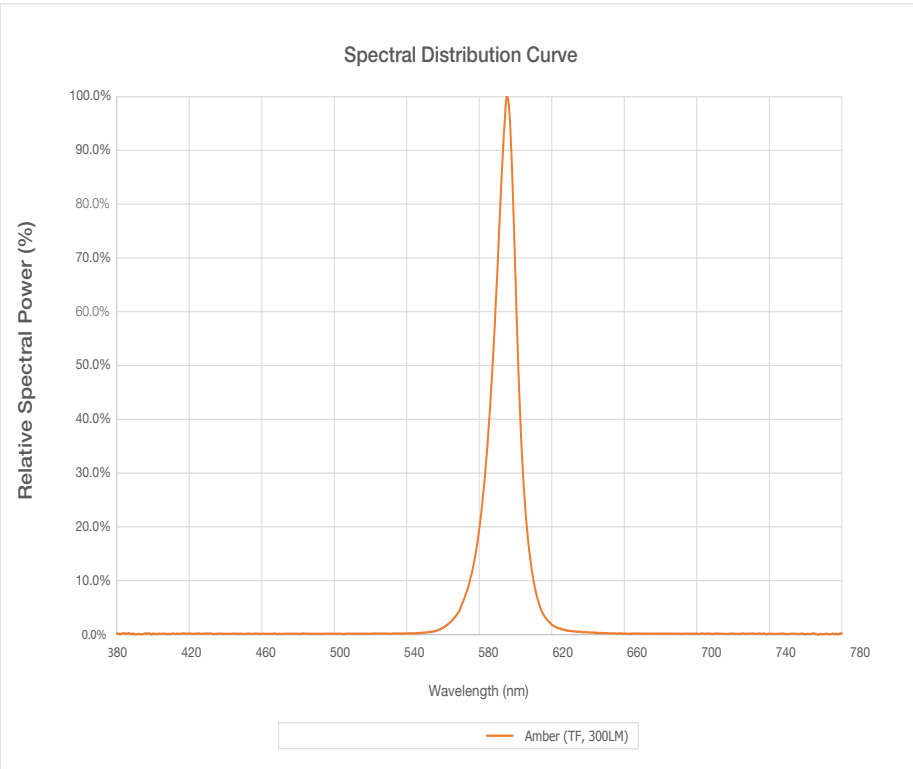
Zone	Lumens	Luminaire %
0° - 30°	243	75%
0° - 40°	293	90%
0° - 60°	316	97%
0° - 90°	325	100%
0° - 180°	325	100%

Illuminance Chart

Distance from LED	Foot Candles	Diameter
3 ft	45.6 fc	3.1 ft
6 ft	11.4 fc	6.1 ft
9 ft	5.1 fc	9.2 ft
12 ft	2.8 fc	12.2 ft

Input Watts: 7.7 W
Lumens: 325 lm
Efficacy: 42 lm/W
Beam Angle: 54° x 53°

Spectrum



BUG Classification

