



dmf

Application Guide

Performance
Decorative
Lighting



High Aesthetics, High Performance

You no longer need to choose between style and performance. Performance decorative lighting seamlessly merges exquisite aesthetics with the technical rigor of specification-grade fixtures. Achieve the perfect balance of beauty and functionality, ensuring you get the look you desire and the illumination you require.

Get the look you want and the light you need.

Design Flexibility

Effortlessly customize lighting solutions to suit any unique application, all while preserving the architectural integrity of your space.



Sustainable Investment

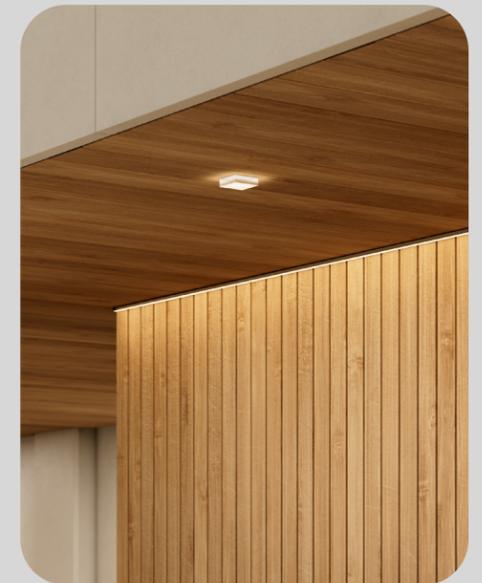
Utilizing modular systems is a smart choice for architectural spaces by offering:

Cost Effective Refresh

Revitalize the appearance of your space by simply replacing the decorative components.

Sustained Value

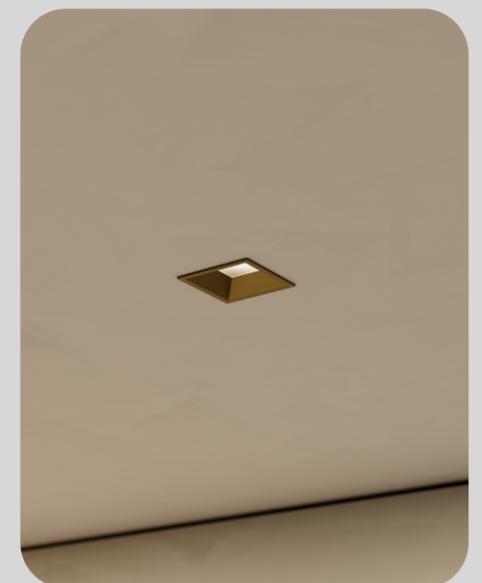
The core light engine and housing stay in service, saving time and money on future design updates.



Enhanced Performance

Decorative elements (trims and shades) can actually improve lighting by:

- Increasing shielding and diffusion
- Mitigating glare

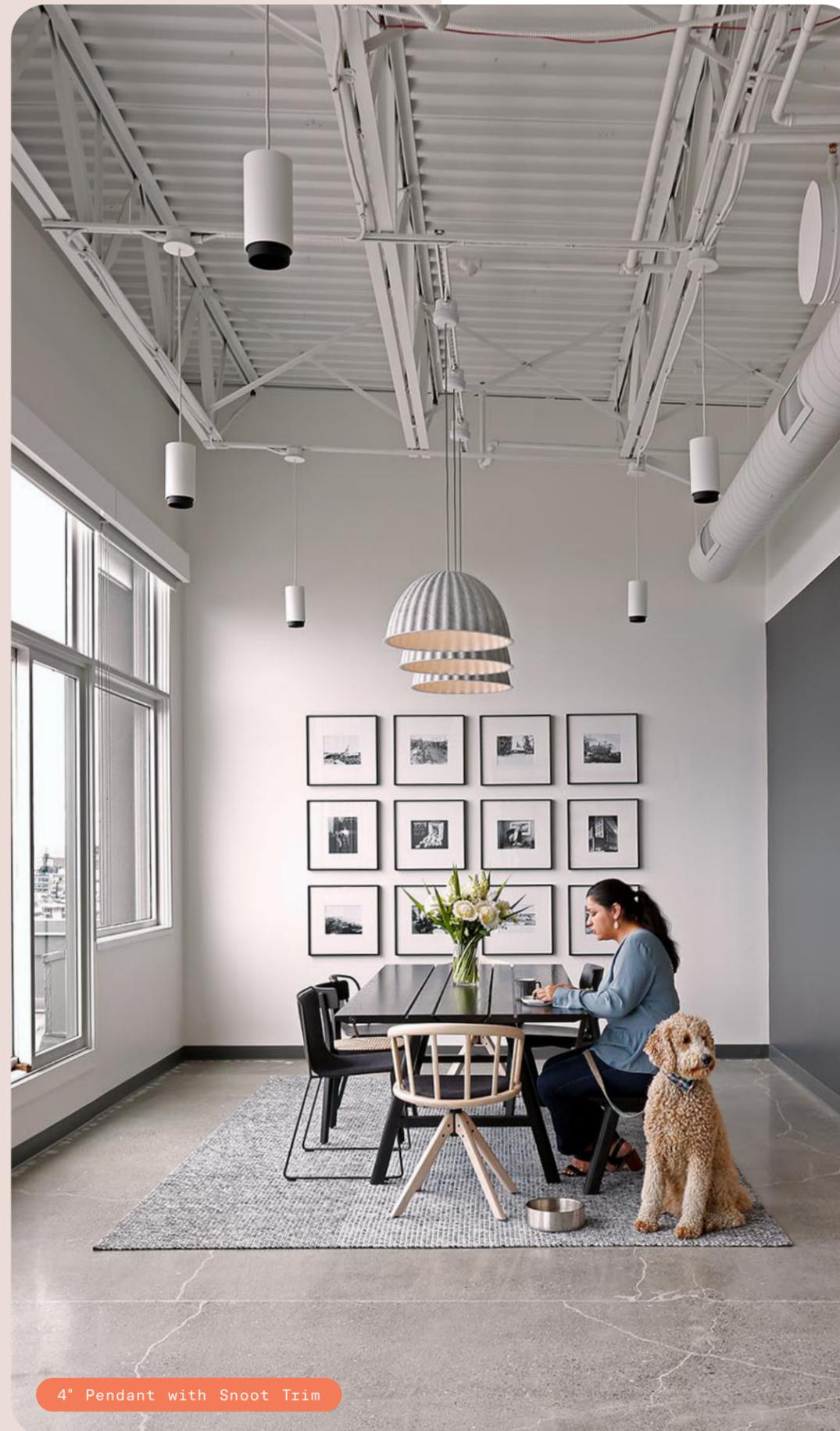


Pendants

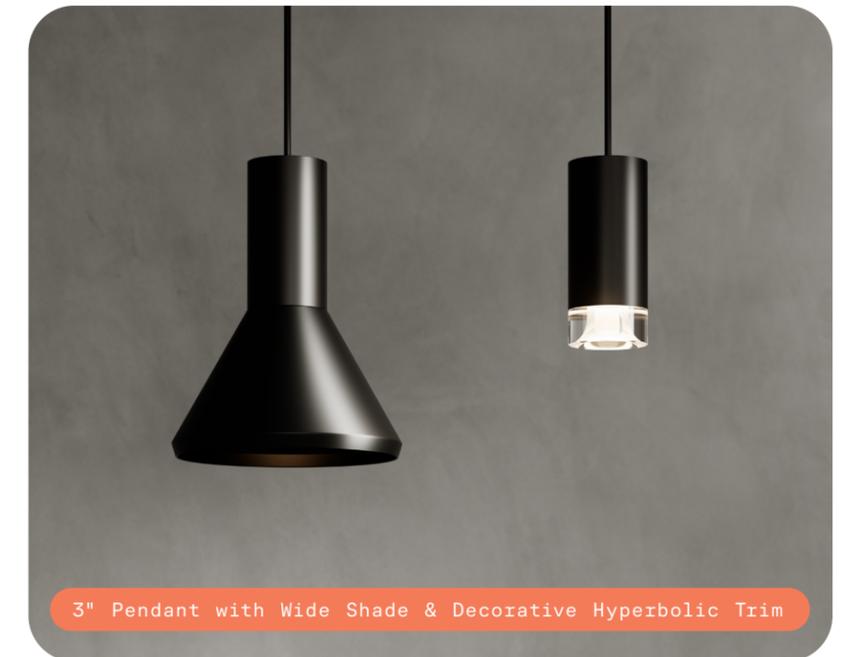
Solving for Style & Space

Pendant light fixtures are a versatile solution that seamlessly fits into various lighting designs and layouts.

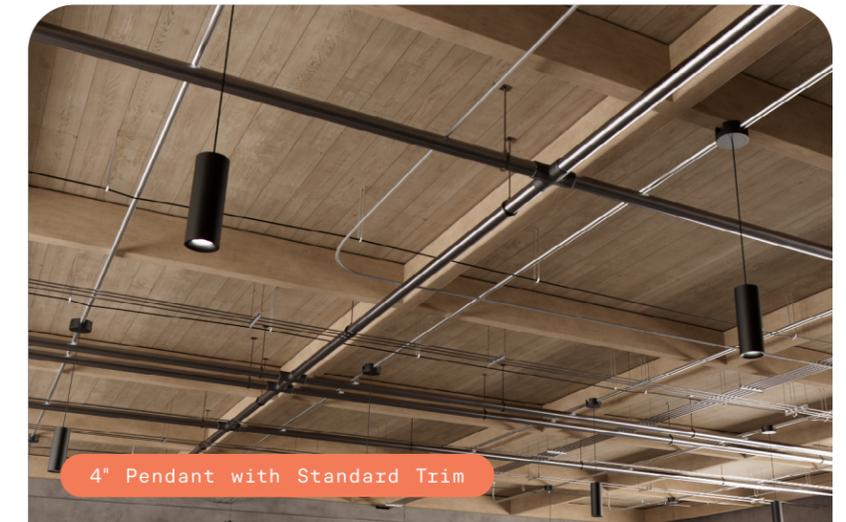
They provide the essential downlight layer and can also offer an optional layer of indirect light (uplight), adding depth and ambiance to a space.



4" Pendant with Snoot Trim



3" Pendant with Wide Shade & Decorative Hyperbolic Trim



4" Pendant with Standard Trim

Functional Benefits

Pendants are perfect for areas where fully recessed fixtures cannot fit, such as:

- Ultra Shallow Plenums
- Open Ceilings

Introducing

Decorative Pendants

Our new Decorative Pendants with Shades build on our highly configurable 3- and 4-inch cylinders, offering:

- Three new shade designs - Wide, Medium & Narrow
- Two standard finishes - Black & White

3" Diameter



6.5" Length



9" Length

Broader Choices, Bolder Designs

With five distinct cylinder sizes to pair with, this collection introduces 15 new silhouettes to our cylinder lineup.

4" Diameter



4" Length



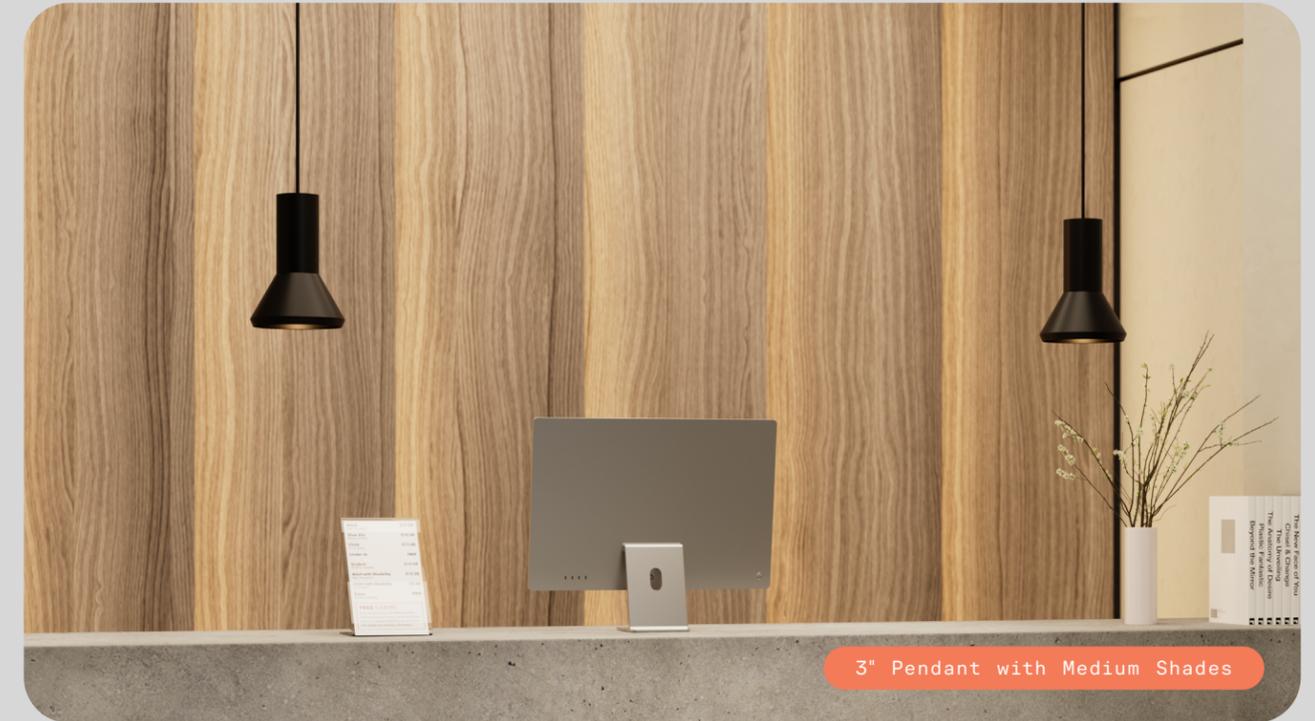
8" Length



12" Length

Decorative Pendant Applications

DMF's Decorative Pendants with Shades provide focused, low-glare downlighting with a diverse array of silhouette options to suit any design preference.



Ideal Applications

These pendants seamlessly blend high-performance light with superior shielding, making them ideal for:

- **Task Lighting:** Perfect for illuminating countertops, reception desks and workstations.
- **Hospitality:** Enhancing the ambiance of hotels, bars, and dining areas creating an intimate, comfortable mood.
- **Open Offices:** Providing stylish, controlled illumination for a low-glare, productive work environment.

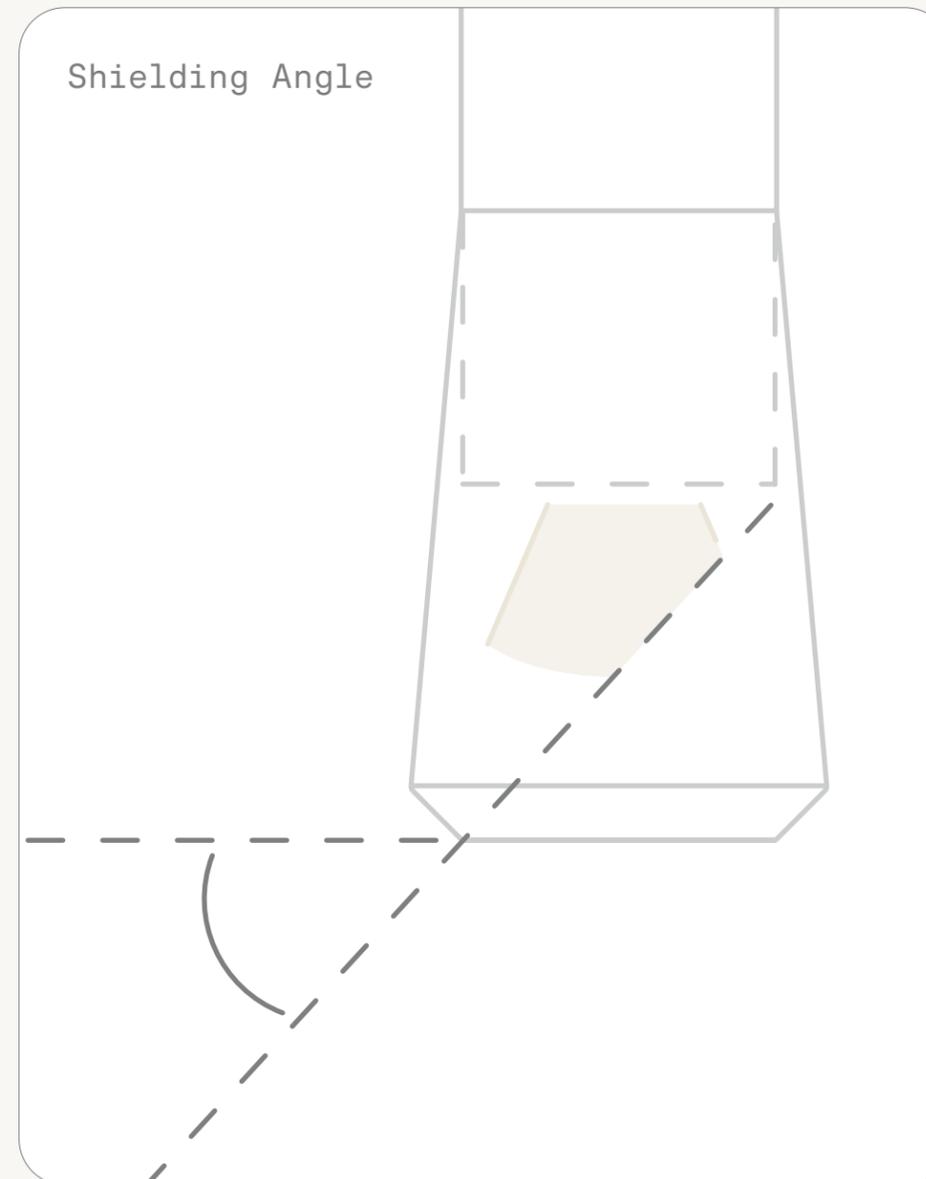
Pendants

High Performance, Low Glare

Shades improve comfort by effectively extending the edge of the fixture, which increases the shielding angle.

Greater Shielding Angle = Higher Levels of Visual Comfort

By shielding the viewer from the direct light source, shades mitigate unwanted glare, resulting in a more comfortable and better-quality lighting experience.



Trim & Shades	Cutoff Angle
Standard Trim	≈ 22°
Narrow Shade	≈ 62°
Medium Shade	≈ 48°
Wide Shade	≈ 51°

What is Shielding Angle?

Simply put, the shielding angle is the angle that prevents the viewer from having a direct, uncomfortable view of the light source (the LED or lens).

Narrow Shades

Narrow shades provide the highest shielding angle, ensuring very focused, glare free light.

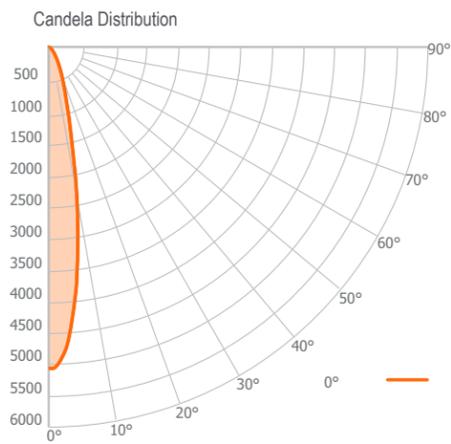
Shielding Angle Study

The study of the 3-inch Decorative Pendant with Shades reveals the remarkable efficacy of cutoff angles in providing substantial shading, eliminating light spill and glare. Utilizing a tight-beam Narrow Spot (NS) optic, the overall lumen output and beam remain highly effective. Additionally, there is a slight concentrating effect, which increases the center beam candlepower.

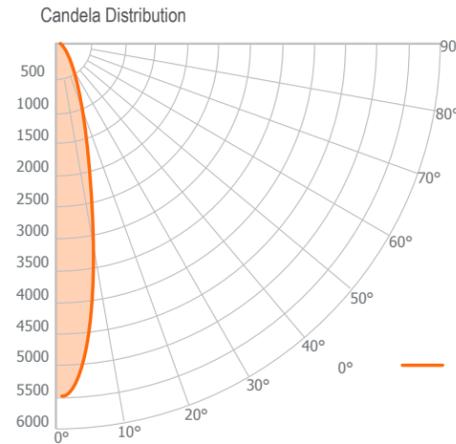
Trim & Shades	flux (lm)	CBCP	Beam Angle	Light Loss
Standard Trim (WH)	1218	5103	20°	-
Narrow Shade (WH)	889	5819	19°	27%
Medium Shade (WH)	1118	5533	15°	8%
Wide Shade (WH)	1095	5454	15°	10%



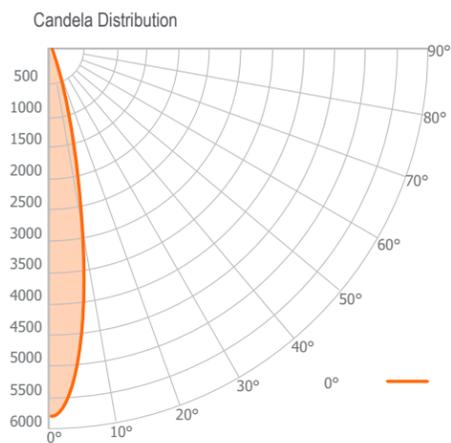
3" Pendant with Standard Trim



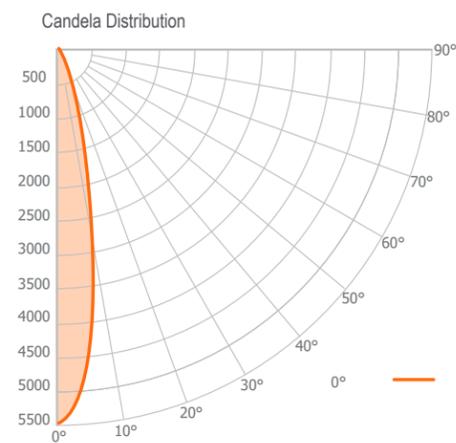
3" Pendant with Medium Shade



3" Pendant with Narrow Shade



3" Pendant with Wide Shade



Note: Photometric data provided is for 1000 lumens, 3000K module equipped with a NS Optic and a white finish. The accompanying photographs depict cylinders in a black finish, positioned approximately 9 to 12 inches from the rear wall, to effectively illustrate the beam and cutoff angle.

Pendants

Photometric Performance

The tables to the right illustrate the effect of the cylinder shades on both overall lumen output and beam angle for each shade profile and optic combination.

It is important to note that increased shielding angles can result in a reduction in overall light output, particularly for the Narrow Shade when paired with wider beam spreads.

Choice of Optic

For Narrow shades, the Narrow Spot (NS) and Spot (SP) optics are the most effective, offering minimal light loss. When utilizing the Medium or Wide Shade profiles, there is greater flexibility to employ a wider optic if needed.

Note: Photometric data provided is for 1000 lumens, 3000K module in a white finish. Black finishes further reduce output by approximately 1%. Items shown in ORANGE denote shade-optic combinations with diminishing returns in terms of beam spread, which are not recommended combinations.

4" Decorative Pendants

		NS	SP	FL	WF	GA
Standard Trim	flux (lm)	1132	1099	1083	1071	1032
	Beam Angle	14°	26°	37°	55°	100°
Narrow Shade	flux (lm)	693	654	569	540	414
	Light Loss	-39%	-40%	-47%	-50%	-60%
	Beam Angle	15°	25°	28°	30°	30°
Medium Shade	flux (lm)	791	809	760	733	613
	Light Loss	-30%	-26%	-30%	-32%	-41%
	Beam Angle	15°	29°	34°	38°	70°
Wide Shade	flux (lm)	804	811	763	746	627
	Light Loss	-29%	-26%	-30%	-30%	-39%
	Beam Angle	15°	25°	35°	38°	66°

3" Decorative Pendants

		NS	SP	FL	WF
Standard Trim	flux (lm)	1218	1169	1196	1192
	Beam Angle	20°	26°	36°	51°
Narrow Shade	flux (lm)	889	805	838	780
	Light Loss:	-27%	-31%	-30%	-35%
	Beam Angle	19°	26°	32°	35°
Medium Shade	flux (lm)	1118	1029	1090	1124
	Light Loss	-8%	-12%	-9%	-6%
	Beam Angle	15°	29°	34°	38°
Wide Shade	flux (lm)	1095	999	1064	1101
	Light Loss	-10%	-15%	-11%	-8%
	Beam Angle	15°	25°	35°	38°

The Finishing Touch

Decorative Downlight Trims

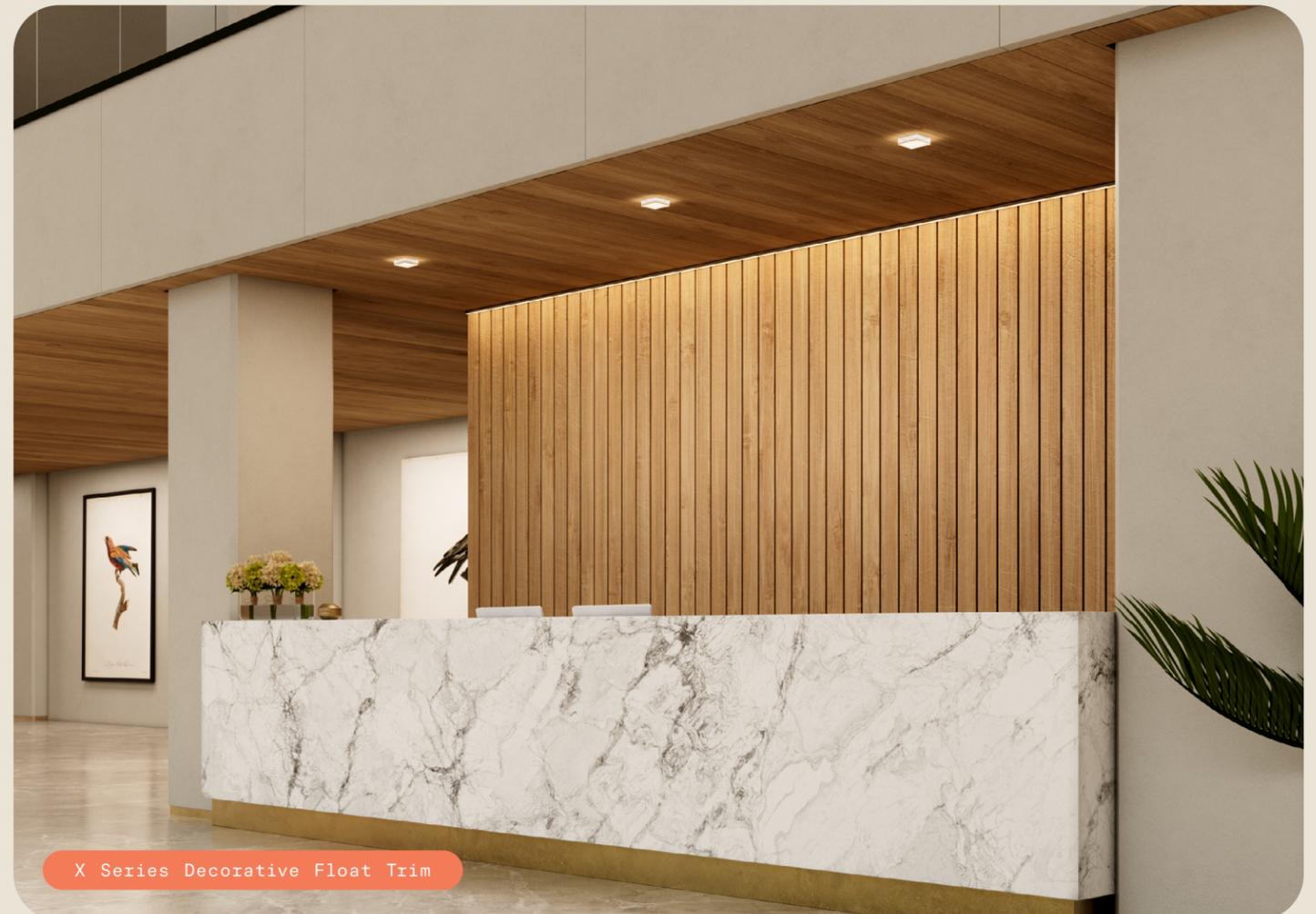
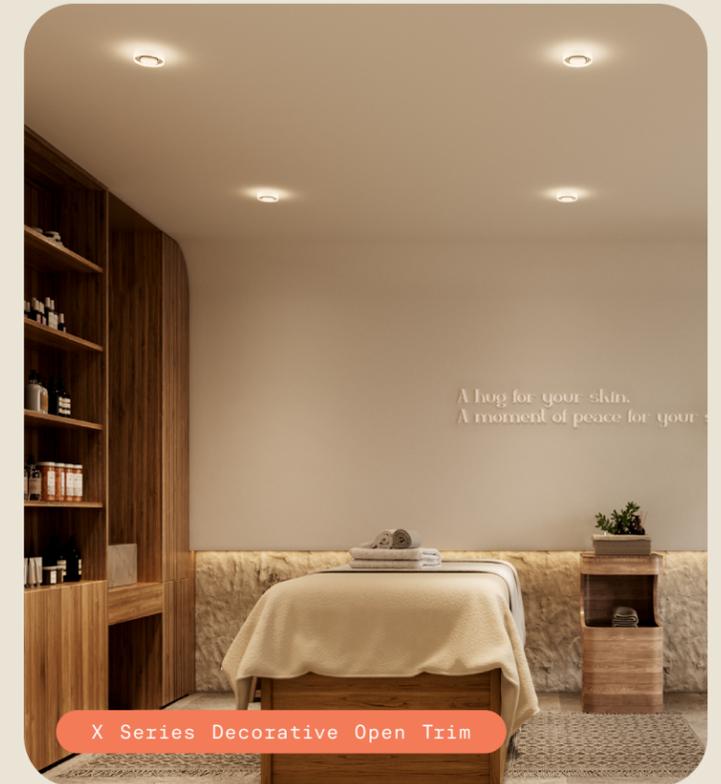
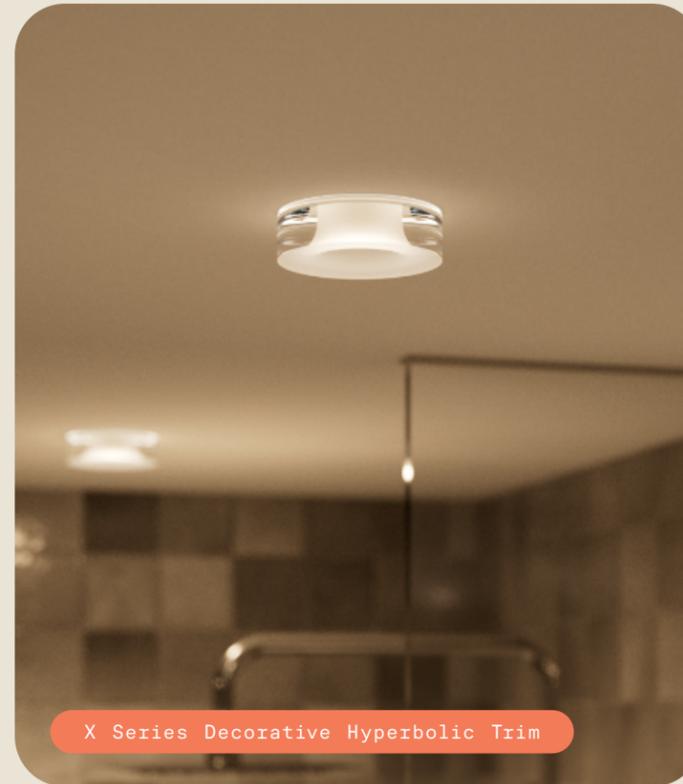
DMF's M and X Series decorative trims offer an additional layer of style and visual intrigue to your downlight layout.

Made of optical-quality acrylic, these trims are designed to interact with light in interesting ways:

Below-Ceiling Intrigue: Each trim features an acrylic element that sits below the ceiling plane, capturing light and adding depth.

Custom Translucency: Choose from varying levels of translucency—from fully frosted to clear—to control the light effect.

Uninterrupted Beam: The X Series Round Decorative Trims are fully open to the optic, allowing the beam of light to travel completely uninterrupted while still adding a decorative accent.



Decorative Trim Applications

DMF's decorative trims are designed to offer higher levels of diffusion and very wide beam spreads, particularly for those that are fully frosted. The high level of diffusion provided by these trims makes them particularly well-suited for applications that require wide beam spreads and very soft, diffused light.



Low Ceilings

The high diffusion and somewhat decreased center beam power make these trims great for low ceiling applications where wide beam spreads needed to adequately cover a space.

Tight Spaces

These decorative trims also cast a higher percentage of light up walls, making tighter spaces such as powder rooms and corridors feel brighter and more expansive, especially when there isn't space for dedicated wall washing or accent lighting.

Decorative Focal Points

Areas such as reception desks or near displays or shelving units can benefit from the unique look of decorative trims, transforming an otherwise pedestrian area into a standout feature.

Spas, Beauty Salons & Gyms

Spaces where patrons may be prone to laying down and looking up can also benefit from decorative trims. The lower center power, combined with higher diffusion and beam spread, can significantly reduce disability glare from looking towards light sources.

Photometry

M Series Round Decorative Trim



M4TRSWH

Standard
Round
Trim

Delivered Lumens: 898 lm
Light Loss: 0%

Beam Spread: 106°
CBCP (cd): 361
UGR: 24
Path of Light: Unobstructed



M4TRSWHDCCF

Decorative
Closed Clear
Frosted Inside

Delivered Lumens: 835 lm
Light Loss: 7%

Beam Spread: 123°
CBCP (cd): 230
UGR: 26
Path of Light: Fully Frosted



M4TRSWHD0F

Round
Decorative
Open Frosted

Delivered Lumens: 863 lm
Light Loss: 4%

Beam Spread: 78°
CBCP (cd): 353
UGR: 25
Path of Light: Unobstructed

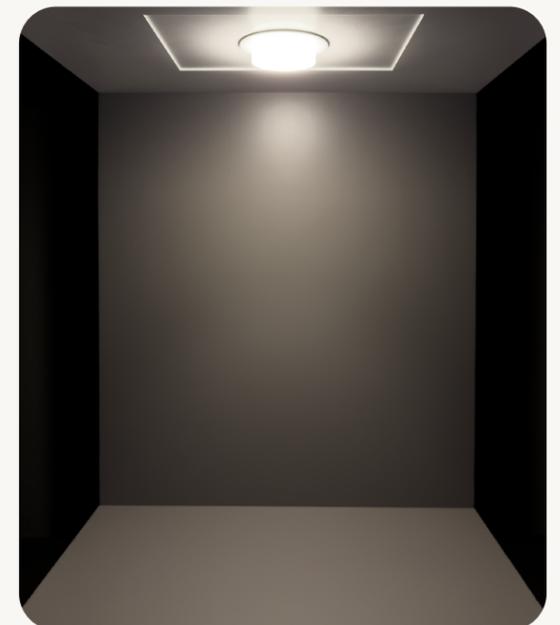
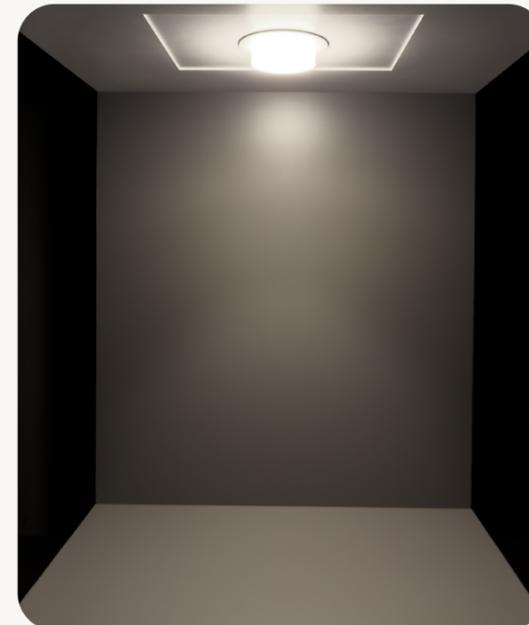
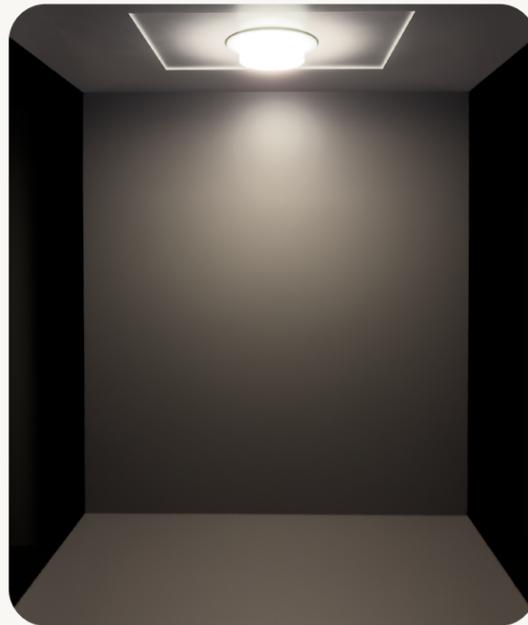
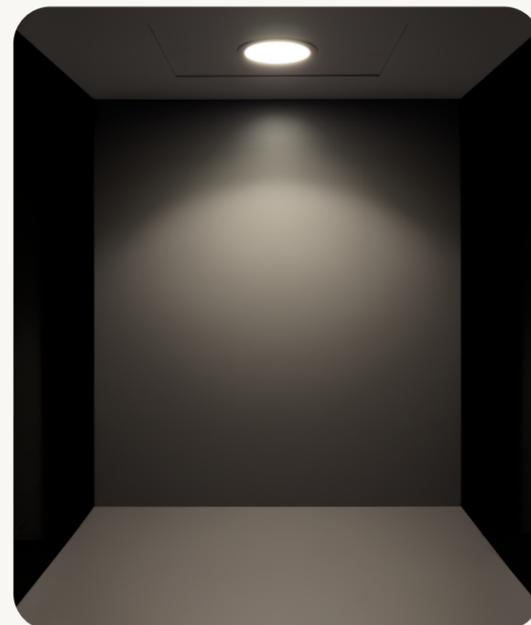


M4TRSWHDCC

Round Decorative
Closed Clear
Frosted Sides

Delivered Lumens: 830 lm
Light Loss: 8%

Beam Spread: 86°
CBCP (cd): 314
UGR: 25
Path of Light: Translucent



Note: Photometric data provided is for M Series downlight, 1000 lumens, 3000K, GA (90°+) optic. UGR: Unified Glare Rating (0.7/0.5/0.2, 4H/8H)

Photometry

M Series Square Decorative Trim



M4TSSWH

Standard Square Trim

Delivered Lumens: 898 lm
Light Loss: 0%

Beam Spread: 94°
CBCP (cd): 429
UGR: 20
Path of Light: Unobstructed



M4TSSWHDCF

Square Decorative Closed Frosted

Delivered Lumens: 793 lm
Light Loss: 12%

Beam Spread: 124°
CBCP (cd): 232
UGR: 26
Path of Light: Fully Frosted

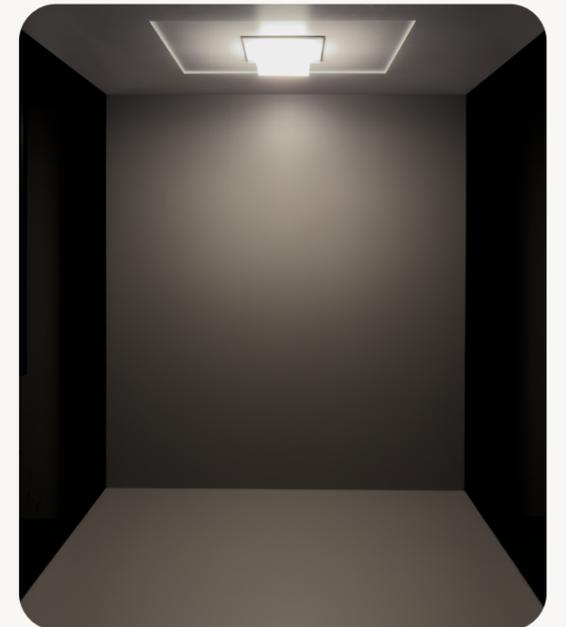
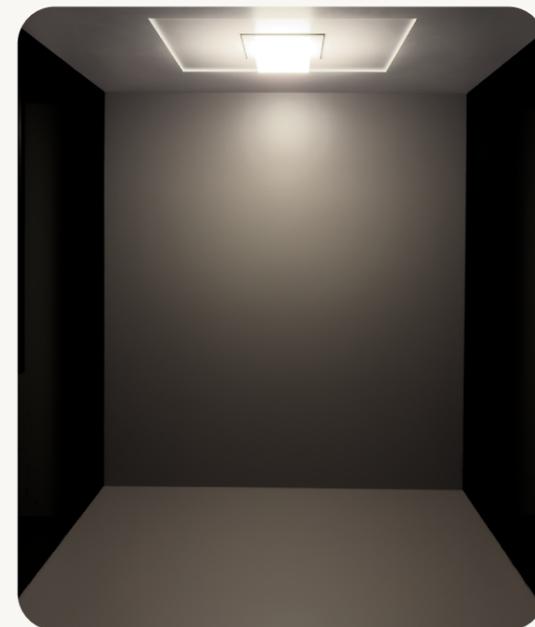
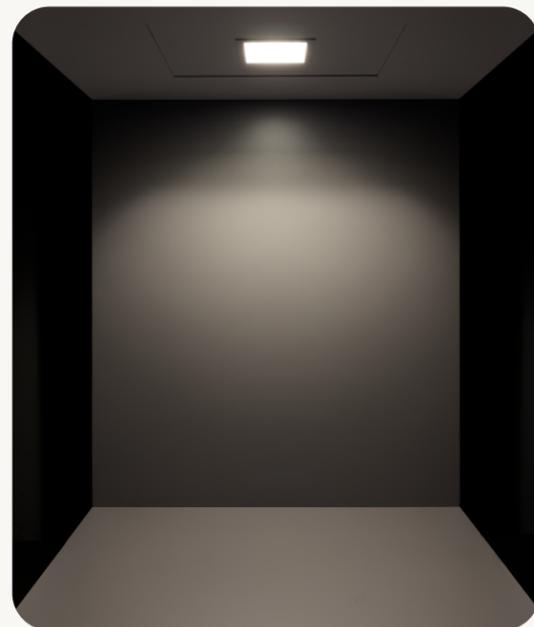


M4TSSWHDCCF

Square Decorative Closed Clear Frosted Inside

Delivered Lumens: 819 lm
Light Loss: 9%

Beam Spread: 115°
CBCP (cd): 268
UGR: 26
Path of Light: Fully Frosted



Note: Photometric data provided is for M Series downlight, 1000 lumens, 3000K, GA (90°+) optic. UGR: Unified Glare Rating (0.7/0.5/0.2, 4H/8H)

Photometry

X Series Round Decorative Trim



X2TRDSWHMF
**Standard
Round
Micro Flange**

Delivered Lumens: 1192 lm
Light Loss: 0%

Beam Spread: 54°
CBCP (cd): 1501
UGR: 16
Path of Light: Unobstructed



X2TRDSWHD0
**Round
Decorative
Open**

Delivered Lumens: 1134 lm
Light Loss: 5%

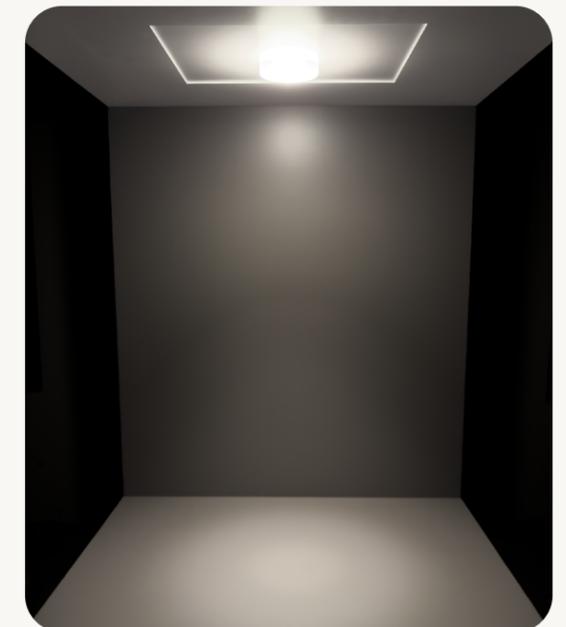
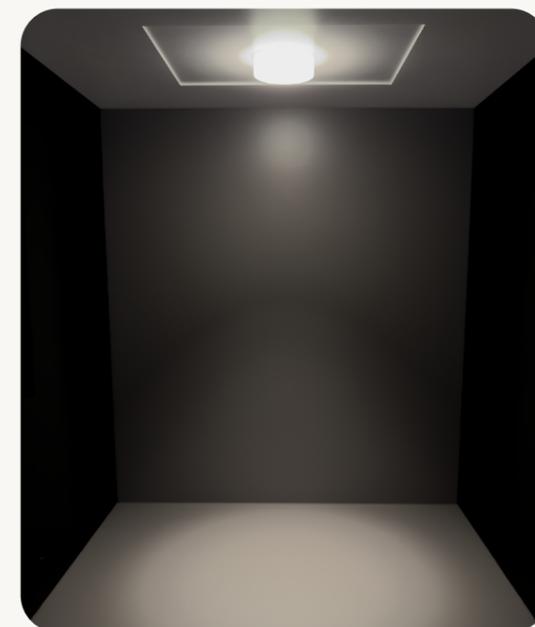
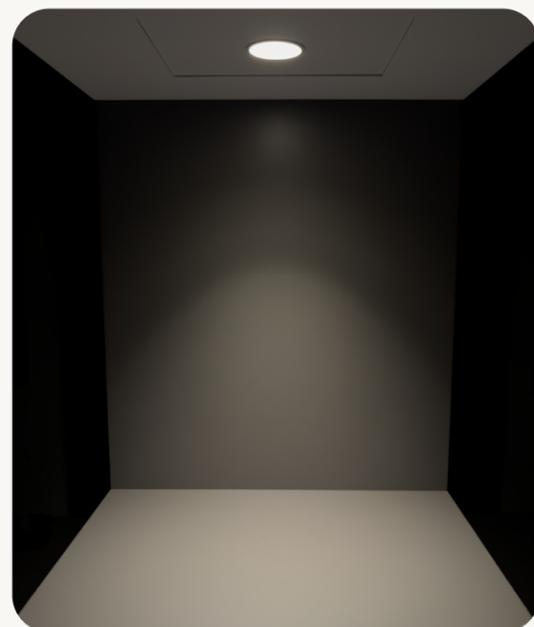
Beam Spread: 39°
CBCP (cd): 1516
UGR: 23
Path of Light: Unobstructed



X2TRDSWHDH
**Round
Decorative
Hyperbolic**

Delivered Lumens: 1106 lm
Light Loss: 7%

Beam Spread: 35°
CBCP (cd): 1333
UGR: 24
Path of Light: Unobstructed



Note: Photometric data provided is for X Series Downlight (XMD), 1000 lumens, 3000K, WF (50°) optic. UGR: Unified Glare Rating (0.7/0.5/0.2, 4H/8H)

Photometry

X Series Square Decorative Trim



X2TSDSWHMF

Standard Square Micro Flange

Delivered Lumens: 944 lm
Light Loss: 0%

Beam Spread: 46°
CBCP (cd): 1349
UGR: 16
Path of Light: Solite Lens



X2TSDSWHDO

Square Decorative Open

Delivered Lumens: 967 lm
Light Loss: +2%

Beam Spread: 47°
CBCP (cd): 760
UGR: 23
Path of Light: Fully Frosted

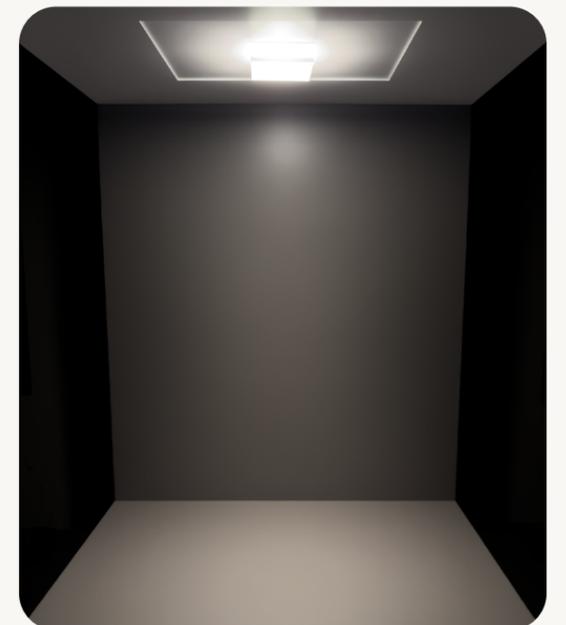
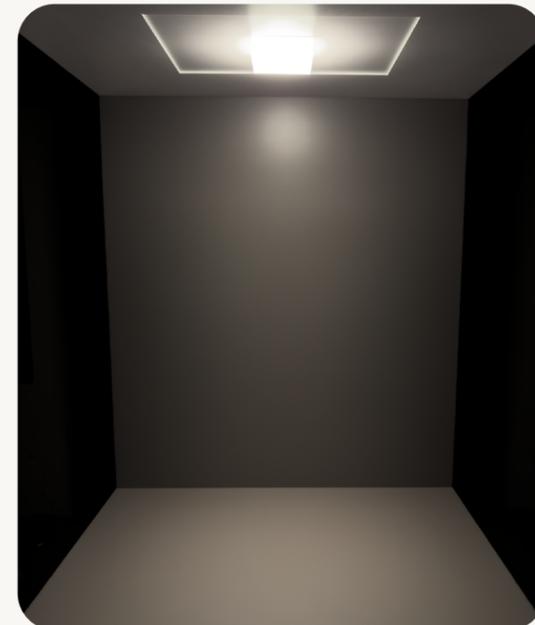
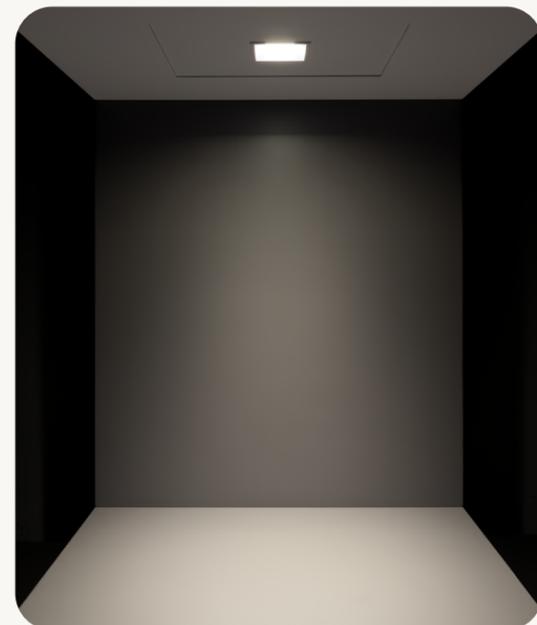


X2TSDSWHDF

Square Decorative Float

Delivered Lumens: 1135 lm
Light Loss: +20%

Beam Spread: 54°
CBCP (cd): 811
UGR: 24
Path of Light: Fully Frosted



Note: Photometric data provided is for X Series Downlight (XMD), 1000 lumens, 3000K, WF (50°) optic. UGR: Unified Glare Rating (0.7/0.5/0.2, 4H/8H)

Premium Trims

The X Series Premium Trims are available in three distinct, premium metalized finishes that compliment a wide range of interiors, ceiling types and architectural styles. These three new premium finishes are available for the standard trim style, in round, square, micro flange and flangeless.

Utilizing a specialized metallic coating process, these premium trims feature a layer of metallic particles that not only provides a luxurious look but has the added benefit of further reducing glare, creating an ultra-quiet ceiling appearance.



Brass



Copper



Graphite



X Series Premium Trim in Brass

Photometry

X Series Premium Trims



X2TRDSWHMF
Standard
Round White
Micro Flange

Delivered Lumens: 1192 lm
Beam Spread: 54°
CBCP (cd): 1501
UGR: 16



X2TRDSBRMF
Standard
Round Brass
Micro Flange

Delivered Lumens: 1157 lm
Beam Spread: 54°
CBCP (cd): 1514
UGR: 16



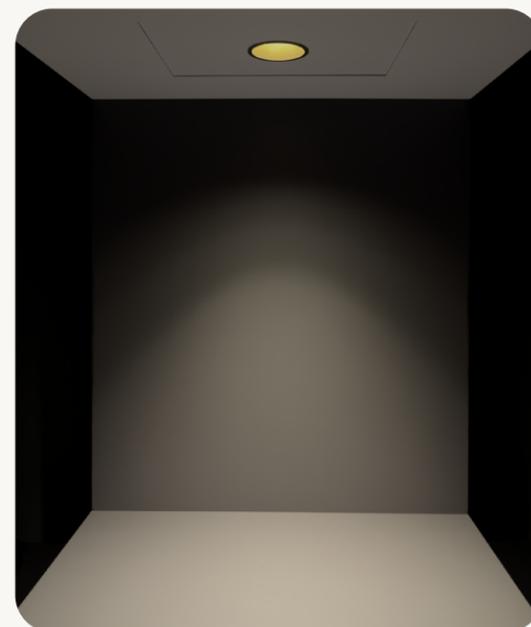
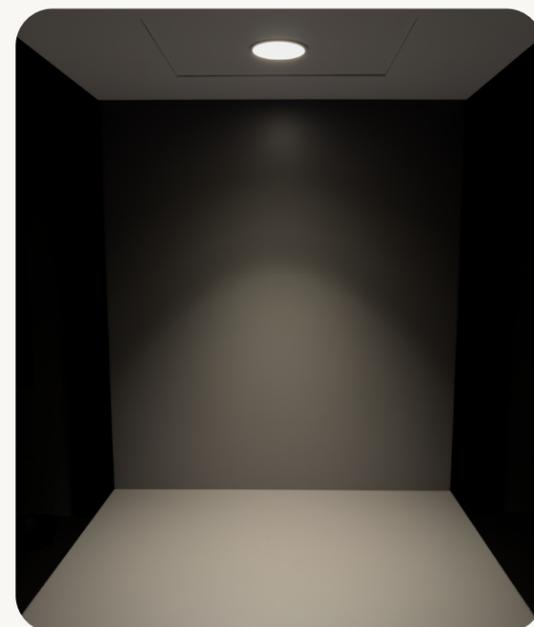
X2TRDSCOMF
Standard
Round Copper
Micro Flange

Delivered Lumens: 1168 lm
Beam Spread: 54°
CBCP (cd): 1529
UGR: 16



X2TRDSGRMF
Standard
Round Graphite
Micro Flange

Delivered Lumens: 1146 lm
Beam Spread: 54°
CBCP (cd): 1501
UGR: 24



Note: Photometric data provided is for X Series Downlight (XMD), 1000 lumens, 3000K, WF (50°) optic. UGR: Unified Glare Rating (0.7/0.5/0.2, 4H/8H)

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