

■ P E E R L E S S ®

Pino
LED





[mee-noh]

Shift Perceptions.

Change the way you look at direct ambient lighting. More importantly, change the way office workers and executives, students and teachers, merchants and shoppers experience the light under which they spend their days.

Introducing Mino, a suite of three distinctive, 2x2 LED luminaires — Recessed, Surface and Pendant.

Producing incomparable general-area illumination, Mino delivers the finest in modern design, energy efficiency, optical quality, advanced engineering, controls compatibility and application flexibility.

Inspired in part by the geometric paintings of Mino Argento and his contemporaries, Mino embodies the same dynamic interplay of positive and negative space found in the works of these late 20th-century artists.

As Mino is viewed from different angles within a space, subtle geometric abstractions on the perimeter of the lens surface shift in appearance adding a dramatic touch of style and sophistication.

Direct ambient lighting never looked so good. Or performed so well. Shift perceptions and see the light.

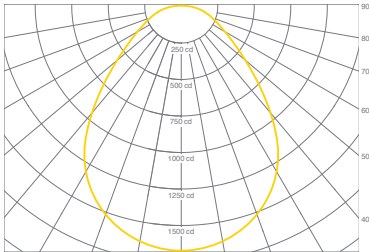
Watch Video and Learn More at PeerlessLighting.com/Mino



COMFORTABLE ILLUMINATION

Mino's Advanced Optics:

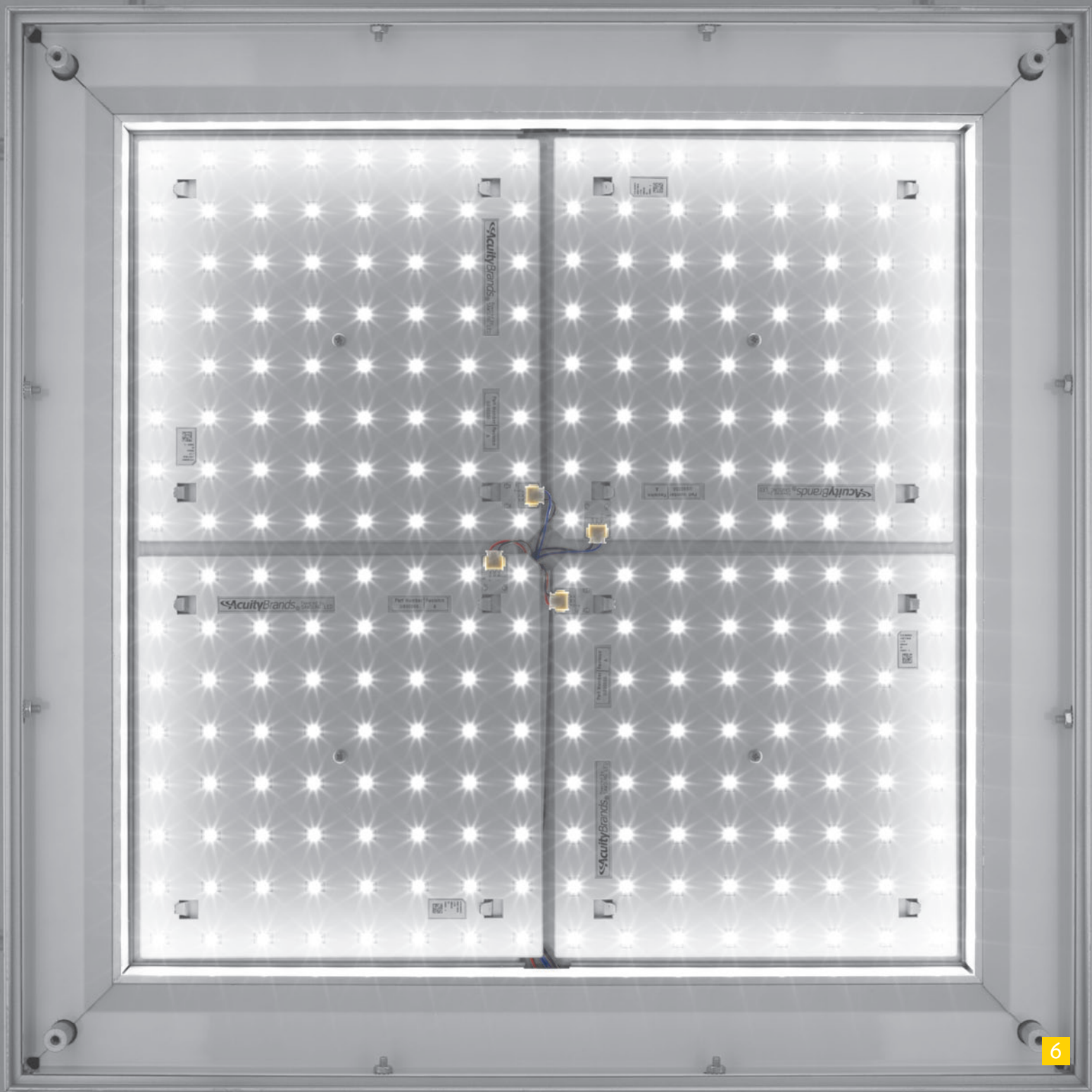
- Feature a high-transmission lens with microstructures that control and diffuse the light
- Meet IES RP-1 recommendation for offices reducing high-angle glare with less than 300 candela at 65 degrees



Known for delivering the finest quality “Lighting for People” in the form of ultra-comfortable, glare-reducing indirect luminaires, Peerless now brings this same commitment to visual well-being to the direct ambient category with Mino.

Designed to be kind to the eyes, Mino features an acrylic lens with a high-performance optical film that diffuses and evenly distributes soft light while simultaneously cutting high-angle glare.

The result is a truly human-friendly luminaire, one that emits uniform light, promotes productivity and enlivens all who work, play, study and meet under its appealing gleam.



Mino's LED Platform:

- Features four LED modules and one Class 2, 0-10V dimming driver per luminaire
- Delivers L₈₀ performance for 50,000 hours at 25°C
- Emits 3500 lumens per luminaire at full output
- Is specifiable in one of two color temperature options: 3500K or 4000K
- Measures greater than 80 on the Color Rendering Index (CRI)
- Upgrades easily on-site

Now that LED lighting is a practical choice for use in interior architectural environments, Peerless is proud to offer Mino with this state-of-the-art illumination source.

Featuring an innovative LED light engine developed by Acuity Brands, Mino has been meticulously engineered to deliver industry-leading L₈₀ performance for 12 to 15 years of normal use.

By utilizing only LED diodes within a narrow color range and by populating the LED modules using a precise, mathematical algorithm, Mino achieves uniform color consistency within 2.5 MacAdam ellipses, a range falling well-under ANSI/ NEMA standards.



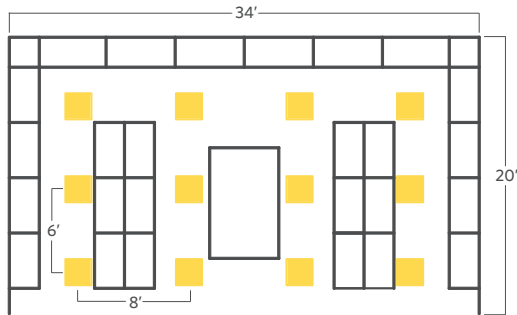
23 fc avg.
2.6:1 max./min.
Divider Shelves
1'-7" AFF

21 fc avg.
2.4:1 max./min.
Wall Shelves
1'-7" AFF

48 fc avg.
1.2:1 max./min.
High Surface
3 1/2' AFF

EFFICIENT OPERATION

Mino is Powerful:



Calculation Notes:

80/50/20 ceiling/walls/floor reflectance

.70 LLF (light loss factor) includes:

.80 LLD (lamp lumen depreciation)*

.95 LDD (luminaire dirt depreciation)

.98 RSDD (room surface dirt depreciation)

1.0 BF (ballast factor)

3500K LED, 3437 lumens, 37.32 input watts

*LLD is based on N80 which maintains LEDs at 80% of maximum lumen output over their lifetime.

93

LUMENS
PER WATT

Mino shifts electricity costs downward by producing an impressive 93 lumens per watt. As illustrated in the design library shown to the left, Mino generates 48 foot candles on a high 3 1/2' work surface while using only .70 watts per square foot. Plus, with no lamps to change, Mino increases lighting system uptime and decreases maintenance costs.

Commissioning Mino may also contribute toward a building's LEED certification by

helping to reduce overall energy consumption below what is required by code. Moreover, as a mercury-free luminaire that maximizes component life, minimizes energy use and is packaged with 100% recycled materials, Mino not only reduces operating costs, it moderates environmental impact.

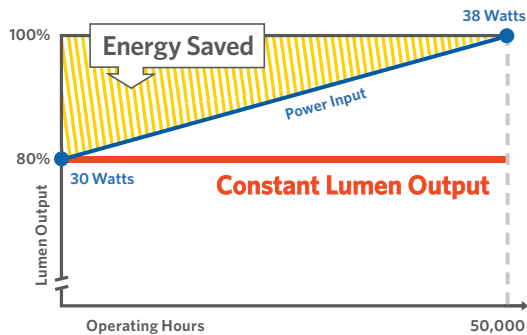
DESIGNLIGHTS
CONSORTIUM

DesignLights™ Consortium Qualified Luminaire



NLIGHT INTEGRATION

Mino with nLight is Smart:



nLight digital lumen management technology intelligently maintains light output at 80% of initial lumen output and prevents energy waste commonly caused by over-lighting.

Mino can be ordered as an nLight™-enabled fixture to provide network connectivity, digital lumen management or both.

In the recessed unit, an optional, built-in nLight module allows for easy Cat-5 “plug-and-play” connectivity with nLight control and sensor systems. For surface and pendant models, a standalone nLight module can be ordered from Sensor Switch to install above ceilings or inside walls.



Plus, when any of the three luminaires is specified with digital lumen management, an additional energy savings of roughly 10% can be achieved over Mino's lifetime.



RECESSED

The diagram illustrates three different lighting fixture installations on a grey ceiling. At the top right, a square recessed fixture is shown with four screws visible around its perimeter. To its left, another square recessed fixture is shown, also with four screws. Below these, a square surface fixture is mounted directly to the ceiling. At the bottom, a square pendant fixture is suspended from the ceiling by a thin rod. Yellow lines connect the labels 'RECESSED', 'SURFACE', and 'PENDANT' to their respective fixtures.

SURFACE

PENDANT

MULTIFORM VARIATION

Mino is Magnetic:



Mino's lens features magnetic spacer rings atop each of the four thumbscrew holes allowing the lens to be temporarily affixed to the housing. This provision enables a single individual to install or remove the lens for easy maintenance.

Mino Recessed

Mino Recessed installs seamlessly into 2x2 grid ceilings (requiring as little as 6" of plenum height) and is also well-suited for use in hard-surface ceilings. The Mino Recessed lens extends $\frac{1}{4}$ " below the ceiling plane showcasing an illuminated edge.

Mino Surface

Designed for installation onto hard-surface ceilings or walls, Mino Surface extends $3\frac{5}{8}$ " from the surface plane showcasing a stylishly refined extruded aluminum body.

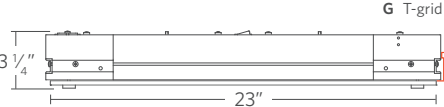
Mino Pendant

Suspendible from all ceiling types, Mino Pendant features several refined details including a finished top surface free of visible hardware, a square white canopy and a slender cylindrical stem standard in 12" lengths up to 48".



PRODUCT SPECIFICATION

MN9 Recessed



Construction

Extruded aluminum with mitered corners forms housing.

Source

Two LED color temperature options – 3500K or 4000K – both within 2.5 MacAdam ellipses.

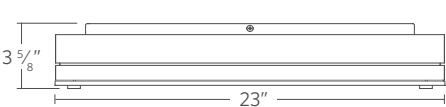
Lens

3/8" acrylic, high-performance lens fastened with thumb screws and magnets.

Finish

Recessed: white paint standard.
Surface/Pendant: painted aluminum standard.

MN9 Surface



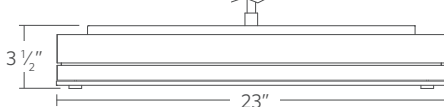
Electrical

Modular LED boards and 0-10V dimming driver rated for 50,000 hours (L80) at 25°C ambient temperature. Specify MVOLT for 120V-277V or 347V with transformer. Pre-wired with 16 AWG fixture wire. For special circuiting or wire gauge, consult factory.

Controls

Recessed only: Optional nLight-embedded controls allow for constant lumen management (N80) and facilitate simple "plug-and-play" networking and control via Cat-5 cable.

MN9 Pendant



Validation

CSA/CUS listed. FCC part 15 certified.
LM-79 tested. Lighting Facts partner.
DesignLights Consortium qualified luminaire.

Warranty

Five-year warranty includes fixture construction, LED light engine, driver and optional nLight control device (Recessed only). Terms and conditions apply.

Packaging

100% post-consumer recycled box and protective lens cover. 100% recycled cardboard inserts and kraft tape.

ORDERING INFORMATION

Examples: MN9 G 35L MVOLT D38 LP835 C312 N80 — MN9 35L 347 D38 LP840 F3C/18 C311

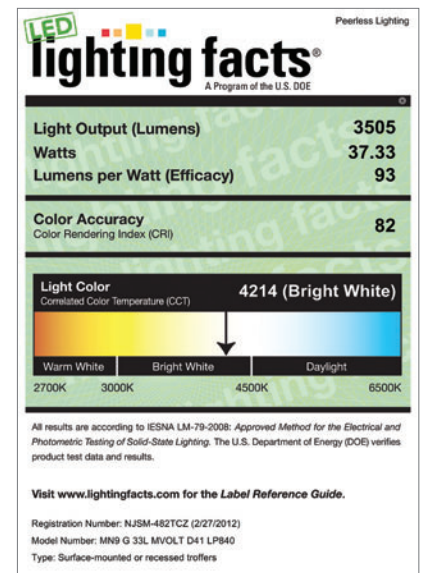
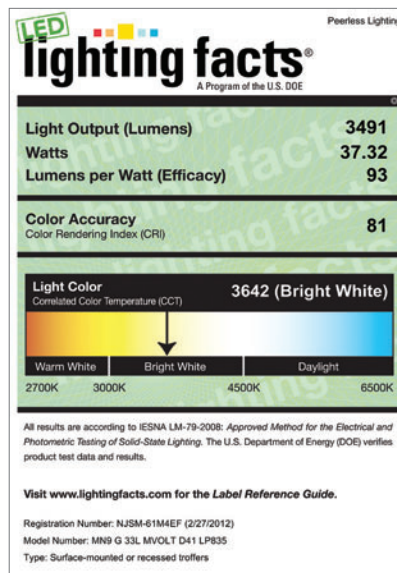
Fixture	Ceiling Type	Light Output	Voltage	Driver Type	LED Color Temperature	Mounting Type /	Overall Suspension	Finish	Options
MN9	Recessed	G T-grid	35L 3500 Nominal delivered lumens	D38 38W maximum	LP835 3500K 80+ CRI LP840 4000K 80+ CRI	Recessed (Blank)	12 12" 18 18" 24 24" 36 36" 48 48"	C311 Painted aluminum C312 White (satin) C099 Custom finish	GLR Fusing (fast blow) GM Fusing (slow blow) FLNGW ² Dry wall grid adapter N80 ² Embedded nLight nIO with 80% lumen mgmt. N100 ² Embedded nLight nIO without lumen mgmt.
	Surface	S' Screw slot grid				Surface (Blank)			
	Pendant	(Blank)				Pendant ³ F3C/			

Notes: 1 For use on hard surface ceilings and walls only 2 Available with recessed model only 3 Consult factory for custom suspension lengths

■ P E E R L E S S[®]
Lighting for People

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