Shape the Future.

SQUARE LED   ROUND LED

The Shape of Things to Come...
...is Here Now.

The Square and Round forms may be familiar.
But the superior way these luminaires function with...

Intelligent Technologies

Sophisticated Optics

and

Specialized Configurations

...is uniquely Peerless.

Intelligent Technologies
## Run Circles 'Round the Competition

Round 4 Direct

Square and Round 4 are smart luminaires. They offer the best in energy-saving LED technology and can be specified with digital technologies that boost performance and extend functionality.

True Architectural Dimming

A 0-10V digital eldoLED® driver provides smooth, seamless and flicker-free dimming to black (0.1%). Similar to incandescent dimming, this *natural dimming* attains the deepest dimming levels without dropout and without a visual flash when powering on.

eldoLED® Single-circuit dimming is standard on all luminaires. Dual circuit switching, available in the suspended I/D models, allows the indirect and direct portions to be controlled separately.

These advanced dimming capabilities help save energy and prolong the life of the LED modules. More importantly, they set a new standard in architectural LED dimming whereby users can enjoy ideal illumination at any level across the spectrum for each and every lighting scenario.
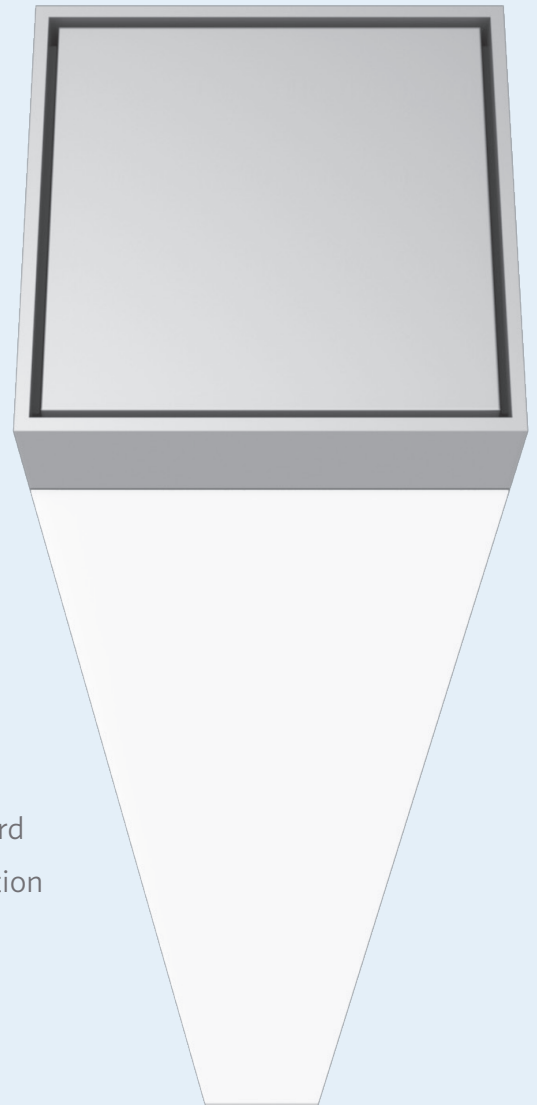
Daylight Dimming & Occupancy Detection

Save energy with an optional, integrated nLight® sensor that provides daylight dimming and/or dual technology occupancy detection via passive infrared (motion) and Microphonics™ (sound) technologies.

Digital Lumen Management

A built-in, nLight digital lumen management option delivers constant lumen output throughout the luminaires' lifetime, extends the longevity of the LEDs and saves roughly 10% in energy use.

By intelligently maintaining light output at 80% of initial lumen output, the need to over-light spaces to compensate for lumen depreciation (as is often done with fluorescent sources) is eliminated.

System Networking

For networking with nLight system controls, the majority of Square and Round 4 luminaires can be specified with an optional, nLight nIO module pre-installed inside the luminaire housing and an accessible, topside network port that allows for easy Cat-5e "plug-and-play" connectivity.

Digital lumen management technology delivers a consistent light level over the life of the luminaire preventing the need to over-light and waste energy.

Energy Saved

40 Watts

100%

80%

Power Input

32 Watts

Constant Lumen Output

Lumen Output

Operating Hours

50,000

Sophisticated Optics
Shape the Light Fantastic

Square I/D; Square Wall I/D; Square Direct

Square and Round 4 exemplify our mantra of *Lighting for People®* by providing quality, color-consistent illumination (80+ CRI at 3000K, 3500K or 4000K) that helps keep eyes thriving.

Kind-to-the-Eyes Illumination

With reflectors and lenses designed to control and diffuse light following our proprietary Softshine® optical engineering standards, Square and Round 4 emit soft, uniform and comfortable illumination that minimizes eyestrain and fatigue.

Ceiling Uniformity + Glare-Free Downlight

In both luminaires, a proprietary injection molded optic refracts light to where it is needed most. The result is indirect illumination that is flat and broad across the ceiling with no hot spots and direct illumination that cuts off high-angle glare.

Competitor LED I/D
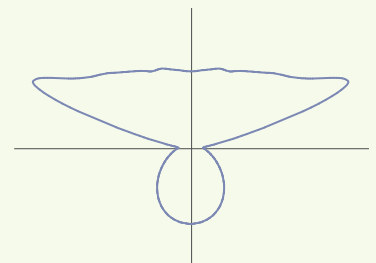
Peerless Round I/D & Square I/D

Softshine® optical engineering is a process where we actively shape and direct the light output from our luminaires to provide best-in-class distribution and visual well-being.

Specialized Configurations
Square the Deal

Continuous Glowing Lenses

Square and Round 4 both feature fully illuminated continuous lenses that extend across the entire length of the luminaire. Made from optical-grade acrylic, the sophisticated lens not only softens light output, it hides individual LEDs from sight producing a visually pleasing, glowing band of illumination.

Illuminated Corners

On Direct, Indirect and I/D suspended models, Square and Round 4 can be configured to provide seamless "L" corner illumination where two luminaires join together.

Square I/D with "L" pattern connectors

Stairway Luminaires

To easily meet code requirements and save energy when lighting stairway environments, choose a Wall Stairway luminaire. These luminaires, available in both I/D and Direct distributions, come with an embedded nLight occupancy detection sensor that is pre-programmed to remain at either 10% or 50% illumination when the stairway is unoccupied and brighten to 100% illumination once occupancy is detected.

100%

100%

100%

10%
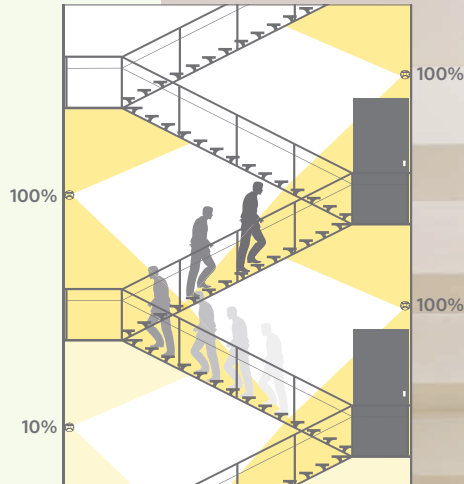
Round 4 Wall Stairway I/D

Round 4 Aisle/Stack I/D

Aisle/Stack Luminaires

Uniformly illuminate vertical surfaces on both sides of 3' to 7' aisles with Aisle Stack I/D and Direct models. These luminaires have specially designed optics that evenly direct light in an inverted "V" down library stacks, grocery shelves and other displays.

With this unique Aisle/Stack optic (ASO) , please note a linear shadowing effect appears down the center of the lens as shown.

Lens Comparison

Square and Round 4
Direct

Square and Round 4
Aisle/Stack Direct
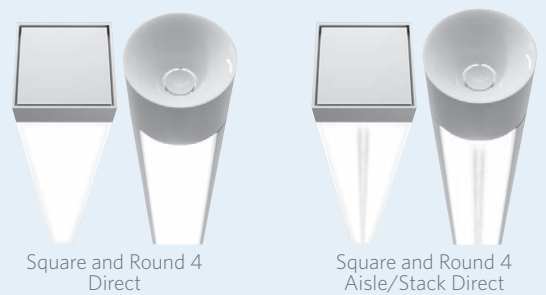
Vertical Illumination

Standard

Round 4 Aisle/Stack
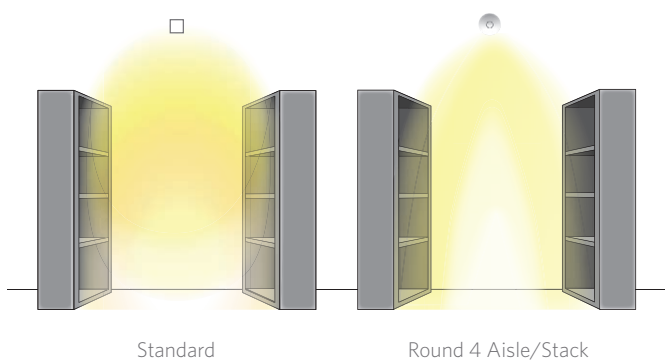
```
⁺25  ⁺25  ⁺25  ⁺25  ⁺25  ⁺25  ⁺25
⁺32  ⁺32  ⁺32  ⁺32  ⁺32  ⁺32  ⁺32
⁺23  ⁺23  ⁺23  ⁺23  ⁺23  ⁺23  ⁺23
⁺16  ⁺16  ⁺16  ⁺16  ⁺16  ⁺16  ⁺16
⁺12  ⁺12  ⁺12  ⁺12  ⁺12  ⁺12  ⁺12
⁺9   ⁺9   ⁺9   ⁺9   ⁺9   ⁺9   ⁺9
⁺8   ⁺8   ⁺8   ⁺8   ⁺8   ⁺8   ⁺8
```

```
⁺13  ⁺13  ⁺13  ⁺13  ⁺13  ⁺13  ⁺13
⁺27  ⁺27  ⁺27  ⁺27  ⁺27  ⁺27  ⁺27
⁺26  ⁺26  ⁺26  ⁺26  ⁺26  ⁺26  ⁺26
⁺22  ⁺22  ⁺22  ⁺22  ⁺22  ⁺22  ⁺22
⁺18  ⁺18  ⁺18  ⁺18  ⁺18  ⁺18  ⁺18
⁺14  ⁺14  ⁺14  ⁺14  ⁺14  ⁺14  ⁺14
⁺12  ⁺12  ⁺12  ⁺12  ⁺12  ⁺12  ⁺12
```

3' Aisle	Standard 20W	Square/Round ASO LO	Square/Round ASO HI	IES RP-1
Average illumination on face of stack	24 fc	22 / 22 fc	42 / 42 fc	
Min. illumination @ 1' above floor	8.7 fc	10 /10 fc	20 / 19 fc	≥10 fc
Uniformity (max:min between 1'- 7' AFF)	4.5:1	3.2:1	3.2:1 / 3.5:1	<5.0:1

7' Aisle	Standard 40W	Square/Round ASO HI
Average illumination on face of stack	27 fc	22 / 23 fc
Min. illumination @ 1' above floor	15 fc	17 fc / 17 fc
Uniformity (max:min between 1'- 7' AFF)	2.6:1	1.6:1 / 1.6:1

Calculation Notes:
Suspension length for 3' aisle is 8.5'; 7' aisle is 9.5'
• 80/50/20 ceiling/walls/floor reflectance
• 3500K
• .85 LLF (light loss factor) includes:
    .87 LLD (lamp lumen depreciation)*
    .98 RSDD (room surface dirt depreciation)
    and LDD (luminaire dirt depreciation)
*LLD for LEDs is based on approximation of
lumens at mean life (see Key Resources page
on website for details)

The Right Light
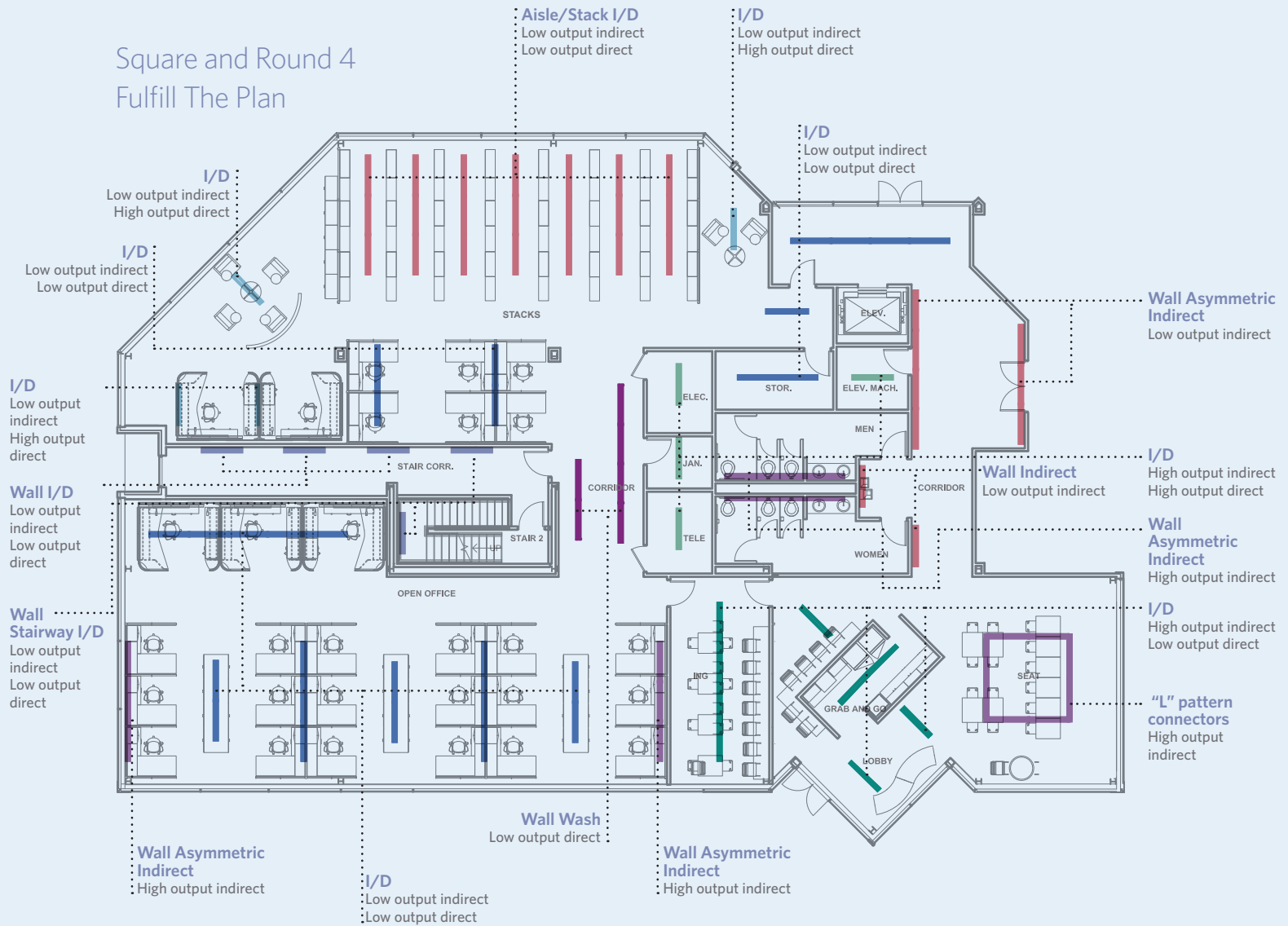## in All the Right Places

Square Indirect-Direct; Square Surface Direct

Single Design Vocabulary

With suspended, wall and surface models available with indirect, direct, I/D distributions as well as with special aisle/stack and stairway optics, Square and Round 4 luminaires are well-suited for a wide variety of interior applications.

In other words, you'll find both operational and aesthetic harmony across each family enabling you to conveniently deliver both consistency and versatility from one product suite throughout your lighting project.

Square and Round 4
Fulfill The Plan

Aisle/Stack I/D
Low output indirect
Low output direct

I/D
Low output indirect
High output direct

I/D
Low output indirect
Low output direct

I/D
Low output indirect
High output direct

I/D
Low output indirect
Low output direct

Wall Asymmetric Indirect
Low output indirect

I/D
Low output indirect
High output direct

Wall Indirect
Low output indirect

I/D
High output indirect
High output direct

Wall I/D
Low output indirect
Low output direct

Wall Asymmetric Indirect
High output indirect

I/D
High output indirect
Low output direct

Wall Stairway I/D
Low output indirect
Low output direct

"L" pattern connectors
High output indirect

Wall Asymmetric Indirect
High output indirect

I/D
Low output indirect
Low output direct

Wall Wash
Low output direct

Wall Asymmetric Indirect
High output indirect

STACKS

ELEV.

STOR.

ELEV. MACH.

ELEC.

MEN

STAIR CORR.

JAN.

CORRIDOR

CORRIDOR

STAIR 2

TELE

WOMEN

OPEN OFFICE

SEAT

GRAB AND GO

LOBBY

Area: 5328 ft²   Lighting Power Density: 0.85 W/ft²

Shape Your Space
Suspended, Wall & Surface
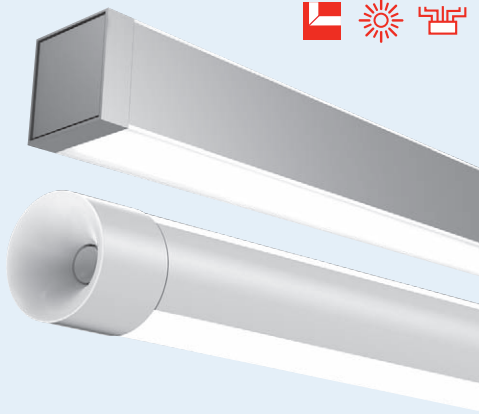
I/D

SQM4 **RD4M4**

APPLICATIONS
open offices, classrooms, hallways, private offices, meeting rooms, reception areas, hospitality areas, retail environments
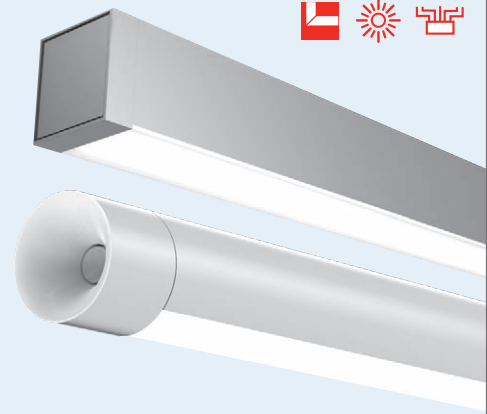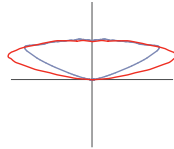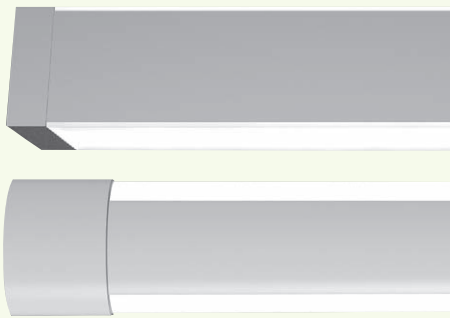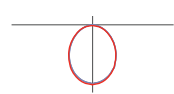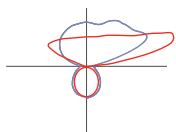

70/30

30/70

50/50
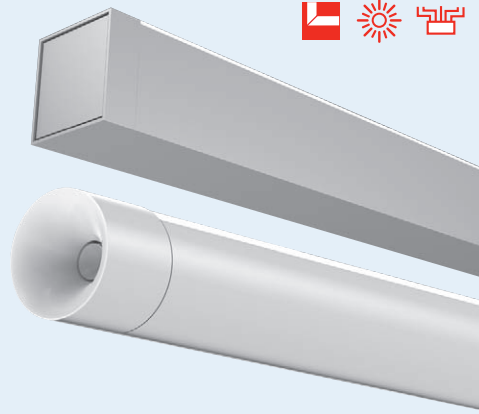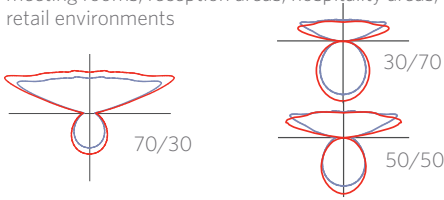
Indirect

SQM1 **RD4M1**

APPLICATIONS
open offices, hallways, private offices, meeting rooms, reception areas, boardrooms

Direct

SQMS **RD4MS**

APPLICATIONS
open offices, classrooms, hallways, private offices, meeting rooms, reception areas, hospitality areas, retail environments

Wall Asymmetric I/D

SQW4 **RD4W4**
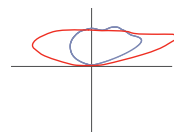
APPLICATIONS
private offices, hallways

Wall Asymmetric Indirect

SQW1 **RD4W1**

APPLICATIONS
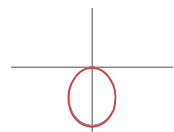private offices, hallways
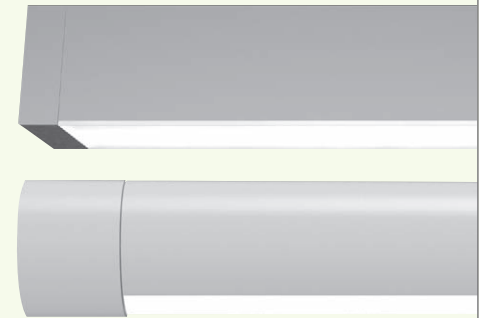
Wall Direct

SQWS **RD4WS**

APPLICATIONS
private offices, hallways

OPTION KEY

■ SQUARE ■ ROUND

Configuration
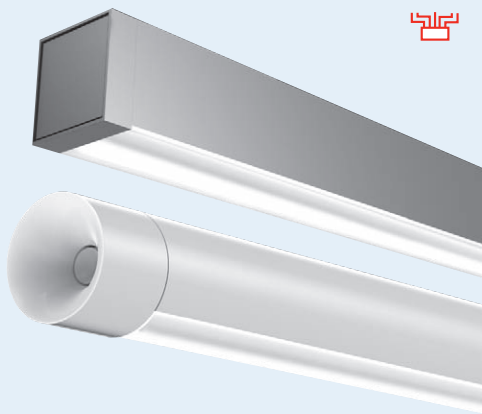"L" pattern corner connector available.

Sensor
Integrated nLight sensor available for daylight dimming and/or occupancy detection.

Network-Ready
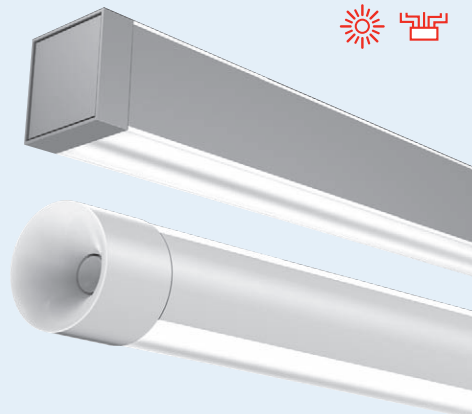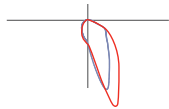Pre-installed network module available for "plug-and-play" connectivity with nLight system controls.

Wall-Wash

SQMW   **RD4MW**

APPLICATIONS
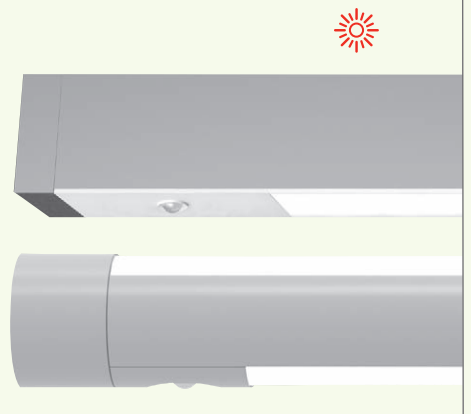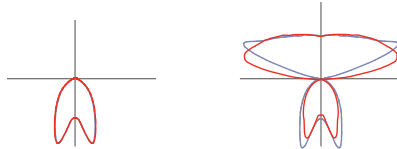reception areas, cafes, art galleries, hallways

Aisle/Stack I/D or Direct

SQMS ASO   **SQM4 ASO**
RD4MS ASO   **RD4M4 ASO**

APPLICATIONS
library stacks, grocery stores, hallways, retail aisles

Wall Stairway I/D or Direct

SQWS STW   **RD4WS STW**
SQW4 STW   **RD4W4 STW**

APPLICATIONS
stairways, entryways

Sculptured End Cap Option
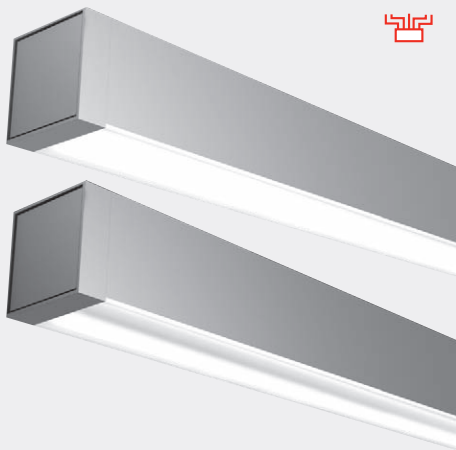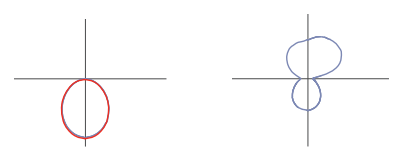
Surface

SQMS S (Direct)   **SQMW S** (Wall-Wash)

APPLICATIONS
reception areas, cafes, art galleries, hallways

Suspended I/D, Wall Asymmetric I/D

	LO/LO	HI/LO	LO/HI	HI/HI
Indirect Output	Low	High	Low	High
Direct Output	Low	Low	High	High
Total Delivered Lumens*	3500	5150	4850	6500
Distribution Percentage Up/Down	50/50	70/30	30/70	50/50
Total Watts*	40	60	60	80

Uplight Lumen Packages
Low = 1850 delivered lumens*, 20W
High = 3500 delivered lumens*, 40W
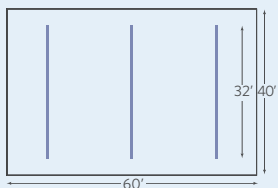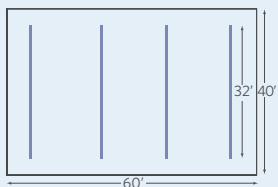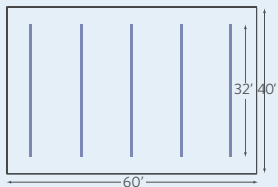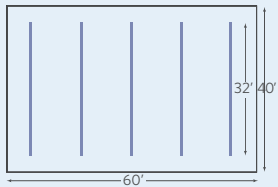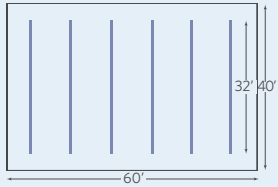
Downlight Lumen Packages
Low = 1650 delivered lumens*, 20W
High = 3000 delivered lumens*, 40W

* nominal per 4'

Go Figure!
Know the Numbers

Open Office

	SQUARE LED / ROUND LED	Average Illuminance @ Workplane	Ceiling Uniformity (max:min)	Lighting Power Density (W/ft²)
Ceiling Height 9′ Row Spacing 10′ (6 rows) Suspension 18″	Square I/D LO/LO / Round I/D LO/LO	50 / 45 fc	4.7:1 / 6.0:1	0.76 / 0.75
Ceiling Height 9′ Row Spacing 12′ (5 rows) Suspension 18″	Square I/D LO/LO / Round I/D LO/LO	44 / 38 fc	6.8:1 / 9.2:1	0.63 / 0.62
Ceiling Height 12′ Row Spacing 12′ (5 rows) Suspension 24″	Square I/D LO/LO / Round I/D LO/LO	40 / 36 fc	4.6:1 / 6.2:1	0.63 / 0.62
	Square Direct HI / Round Direct HI	42 / 42 fc	2.1:1 / 2.2:1	0.66 / 0.67
Ceiling Height 12′ Row Spacing 16′ (4 rows) Suspension 24″	Square I/D HI/LO / Round I/D HI/LO	45 / 40 fc	6.6:1 / 9.9:1	0.81 / 0.79
	Square I/D LO/LO / Round I/D LO/LO	32 / 28 fc	5.7:1 / 9	0.51 / 0.50
	Square I/D LO/HI / Round I/D LO/HI	49 / 43	4.9:1 / 5.6:1	0.79 / 0.80
Ceiling Height 15′ Row Spacing 20′ (3 rows) Suspension 36″	Square I/D HI/LO / Round I/D HI/LO	31 / 28 fc	5.6:1 / 7.5:1	0.61 / 0.60
	Square I/D LO/LO / Round I/D LO/LO	42 / 39 fc	4.8:1 / 6.0:1	0.82 / 0.80
	Square I/D LO/HI / Round I/D LO/HI	33 / 31 fc	4.3:1 / 4.7:1	0.60 / 0.59
IES RP-1 =		**>30 fc**	**< 10.0:1**	

Private Office

Typical private office
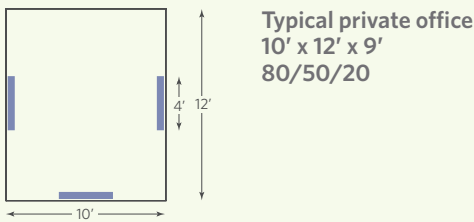**10' x 12' x 9'**
80/50/20

8' 12'
10'
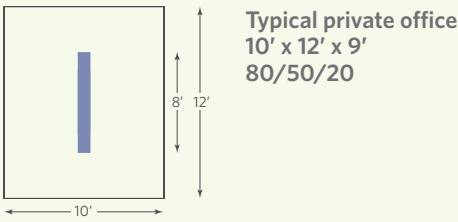
SQUARE I/D / ROUND I/D   18" Suspension

Up/Down	Average Illuminance @ Workplane Square/Round	Ceiling Uniformity (max:min) Square/Round	Lighting Power Density (W/ft²)
HI/LO	29 / 25 fc	3.8 / 3.7:1	1.0
LO/HI	32 / 29 fc	3.3 / 3.0:1	1.0

Private Office

Typical private office
10' x 12' x 9'
80/50/20

4' 12'
10'

SQUARE WALL I/D / ROUND WALL I/D

Up/Down	Average Illuminance @ Workplane Square/Round	Ceiling Uniformity (max:min) Square/Round	Lighting Power Density (W/ft²)
HI/LO	32 / 26 fc	2.9 / 3.6:1	1.0

Round 4 I/D

Peerless®
Lighting for People®

2246 5th Street
Berkeley, CA 94710
510.845.2760
PeerlessLighting.com

VALIDATION
IES-79 Tested
CSU/CSA Listed
FCC Part 15 Certified

IES LM-79   **CSA C US**   **FC**

WARRANTY
Five-year limited warranty covers
luminaire construction, LED light
engine, eldoLED driver and optional
nLight control and sensor devices.
Terms and conditions apply.

5 YEAR warranty

LIGHTING FACTS
Lighting Facts labels have been issued
from the U.S. Department of Energy.
These labels can be found on the
spec sheets for each specific luminaire.

LED lighting facts
LED Product Partner

Peerless® 360°
TOTAL · SYSTEMS · INTEGRATION

Peerless 360˚ Total System Integration
with controls, sensors, optics, and drivers
all manufactured by Acuity Brands.
Single-source, 5-year limited warranty
covers all components and construction.

AcuityBrands