

# LE LOUVRE



BETACALCO

Designed by: Serge Cornelissen

A low-glare aesthetic alternative to generic rectangular office lighting systems



- **Le Louvre** features a neutral, architectural appearance. Its outline is an inoffensive rectangle with good proportions and a compact cross section. In this respect it's similar to the most chosen designs amongst linear pendant downlight/uplight office systems, but with a "je ne sais quoi".
- **Le Louvre's** unique diagonal louver structure, combined with a concave bottom surface, both contribute to visual appeal and avoid possible references to old-school orthogonal louvers applied in fluorescent tube-based office lighting systems.
- Compared to basic diffuser-based downlight solutions, the louvre has the advantage of offering improved visual comfort, especially with louvers in dark colors (black or satin chrome), where there will be significantly less glare.
- The selection of louvers can offer either a monochromatic appearance to blend into the space or create contrast to highlight Le Louvre's structure and uniqueness in a space.





### BIOS SkyBlue® Circadian Lighting Technology

Le Louvre features BIOS SkyBlue™ Technology which is designed to provide the specific circadian stimulus to improve overall sleep quality, recovery during the night and overall feelings of well-being. The non-visual light signals that stimulate our circadian system have peak intensity in the “sky blue” region. BIOS SkyBlue technology shifts the peak LED spectral intensity (460 nm) to align better with the peak response of circadian stimulus. Also note the enhanced deep-red (near 660 nm) spectrum.

BIOS lighting provides industry-leading LED solutions that give designers the tools they need, contributing toward satisfying Circadian Lighting Design Feature 54 under the WELL Building Standard V1 and Feature L03 under the WELL Building Standard V2. BIOS SkyBlue® circadian lighting technology outperforms all traditional phosphor-converted white LEDs on the market and offers the highest melanopic to photopic lux ratio (m/p ratio) for a given color temperature. With this high m/p ratio, BIOS is also to provide the increased melanopic content at color temperatures that designers prefer and that clients have come to expect.

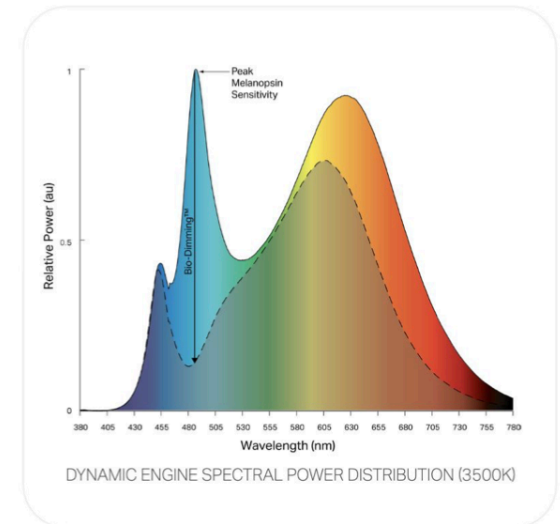
### WELL for Light

The WELL building standard focuses on light quality in several realms. Three categories are directly attributable to the construction and features of a luminaire. In WELL V1, Feature 54 addresses Circadian Lighting, Feature 55 deals with Glare Control and Feature 58 takes aim at Color Quality. In WELL V2, Feature L03 deals with Circadian Lighting, Feature L04 addresses Glare Control, and Feature L07 takes aim at Electric Light Quality.

When BIOS LEDs are selected, Le Louvre meets Feature 54, L03, 55 and L07 respectively. With Le Louvre’s unique ultra low UGR louver design and controlled optics, Features 55 and L04 are met. Further, Features 58 and L07 are met when Beta Calco’s ultra-high performance 90CRI chips are selected.

### LED Chips

All fixtures have been tested in accordance with IESNA LM-79 and all LEDs have been tested in accordance with IESNA LM-80-08. Our high performance LED chips in conjunction with the unique luminaire design allow for very precise thermal control resulting in an exceedingly long life.



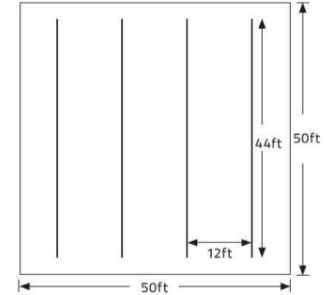


Louver Finishes:	Frosted	Satin Chrome	Satin Champagne	Satin Gold	Black
UGR Glare Rating:	<19	<13	<13	<13	<9
Lumens/Ft up to:	3000	2400	2400	2400	2100
LPW up to:	141	114	114	113	100

• **OPEN PLAN OFFICE SPACE**

Frosted Louver with 200lm/ft direct and 500lm/ft uplight - 44 ft length

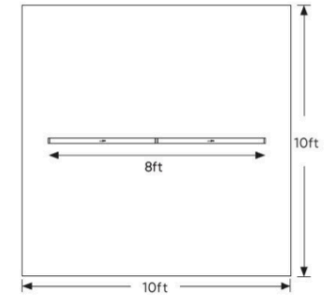
Room size:	50' x 50'	Workplane 30" above finished floor (fc level)	46
Ceiling height:	10'	Ceiling uniformity maximum to minimum	6:1
Luminaire mounting height:	8' 5"	UGR average	<12
Reflectances:	80/50/20	Watt sq/ft	0.352
Light loss factor:	1.0		



• **SINGLE OFFICE SPACE**

Frosted Louver with 400lm/ft direct and 250lm/ft uplight - 8 ft length

Room size:	10' x 10'	Workplane 30" above finished floor (fc level)	36
Ceiling height:	10'	Ceiling uniformity maximum to minimum	3:1
Luminaire mounting height:	8' 5"	UGR average	<12
Reflectances:	80/50/20	Watt sq/ft	0.4
Light loss factor:	1.0		

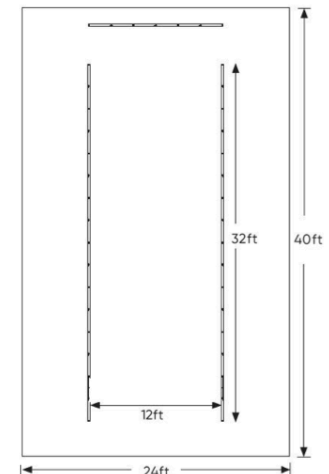


• **CLASSROOM SPACE**

Over Desk: Frosted Louver with 200lm/ft direct and 500lm/ft uplight - 32 ft length

White-Board: Frosted Louver with 400lm/ft direct - 12ft length

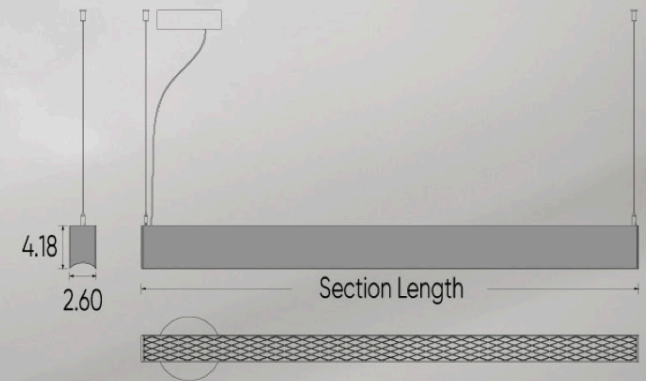
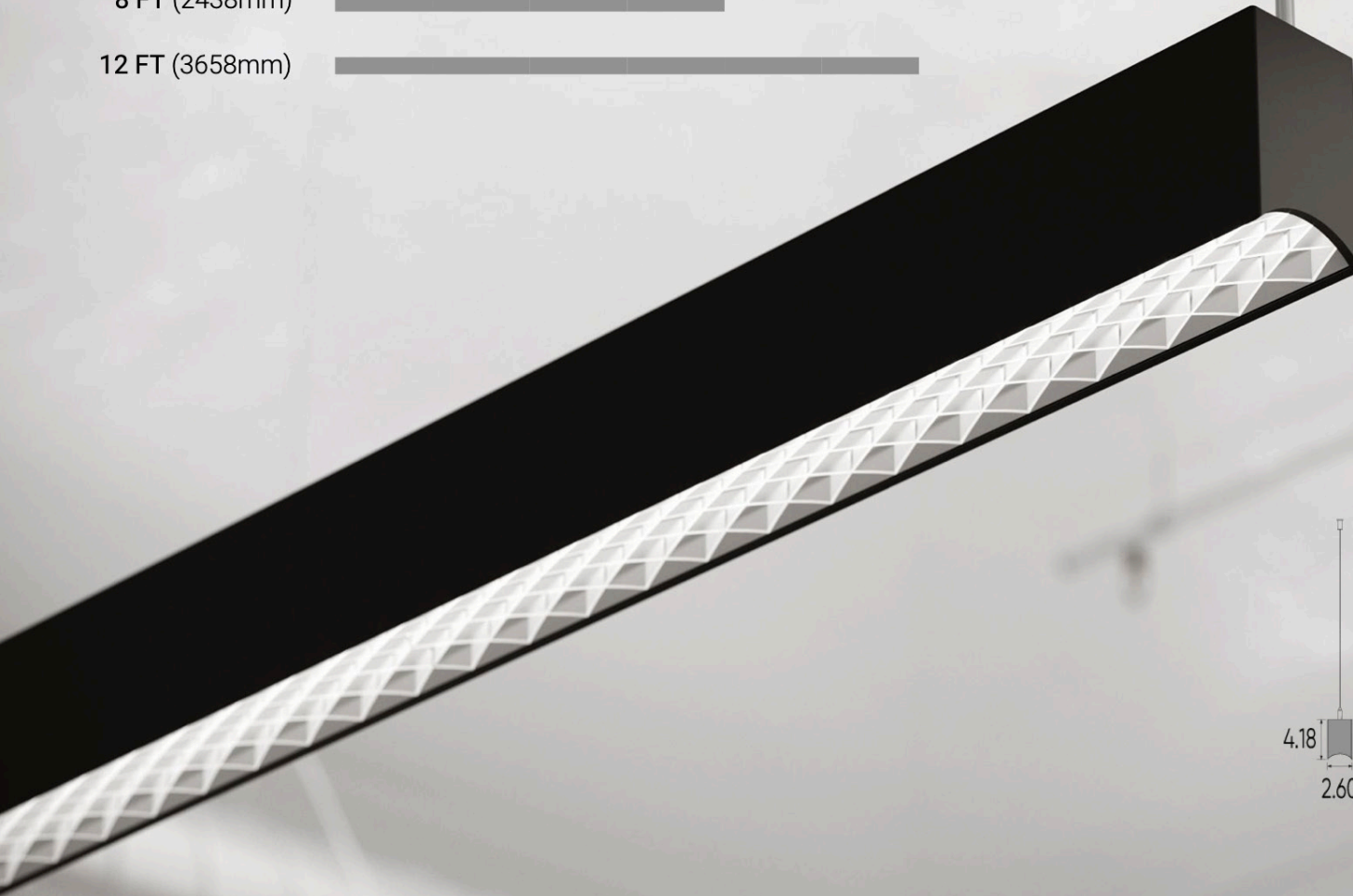
Room size:	24' x 40'	Workplane 30" above finished floor (fc level)	45
Ceiling height:	10'	Average illuminance on White-board wall	37
Luminaire mounting height:	8' 5"	Ceiling uniformity maximum to minimum	7:1
Reflectances:	80/50/20	UGR average	<13
Light loss factor:	1.0	Watt sq/ft	0.375



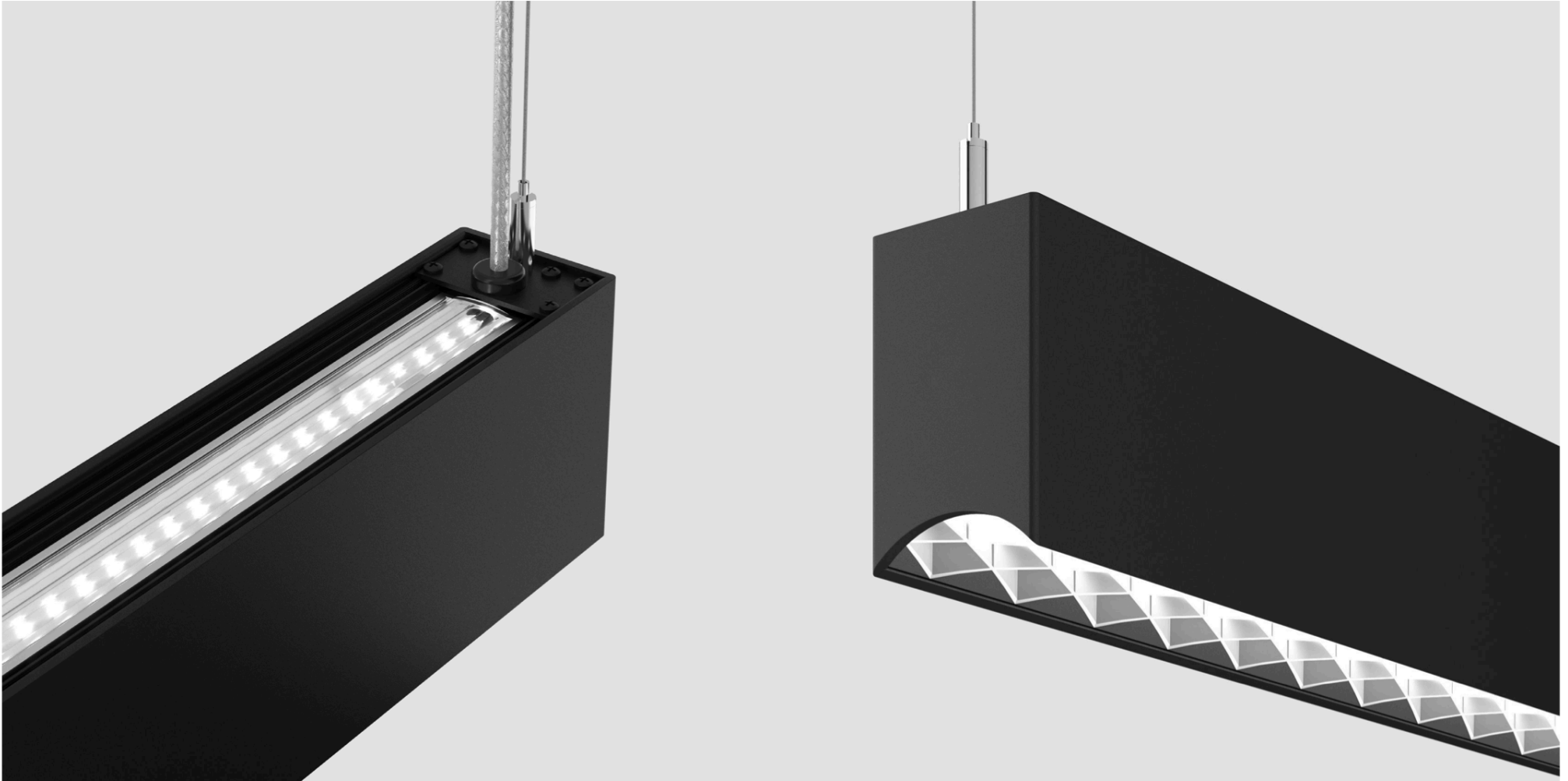
**b LE LOUVRE**

MAXIMUM LENGTH  
(PER SECTION)

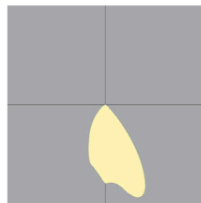
- 4 FT (1220mm) 
- 6 FT (1829mm) 
- 8 FT (2438mm) 
- 12 FT (3658mm) 



CRI - 80+ and 90+



**UPLIGHT**  
(batwing distribution)



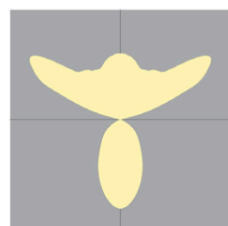
**DIRECT**  
(asymmetric distribution)



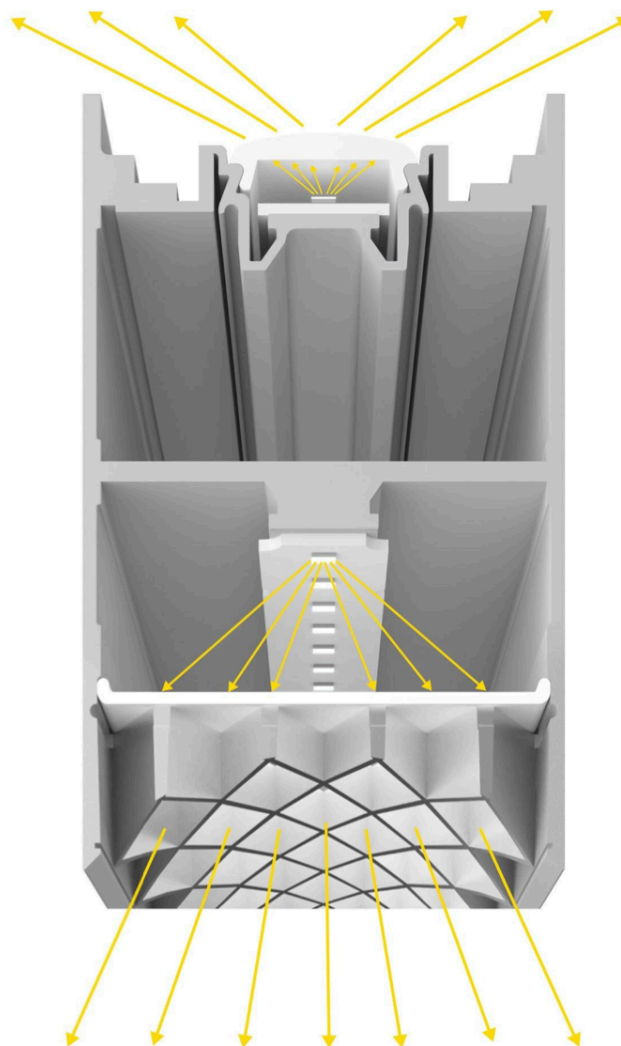
**DOWNLIGHT**  
(visual comfort and reduced glare)



High efficiency custom lens provides **batwing distribution** with minimal losses



Direct/Indirect

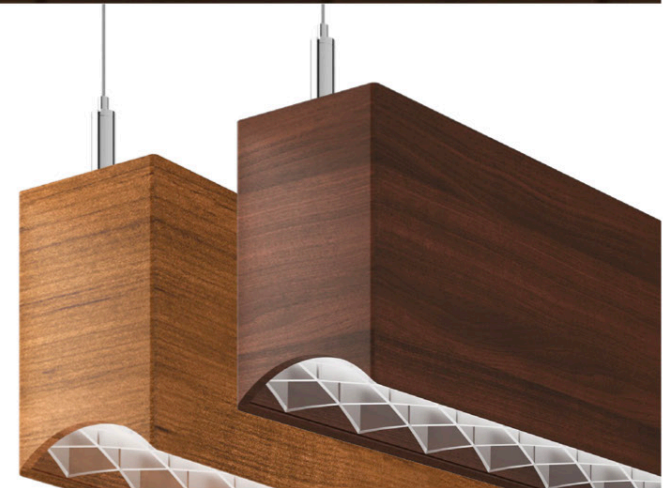
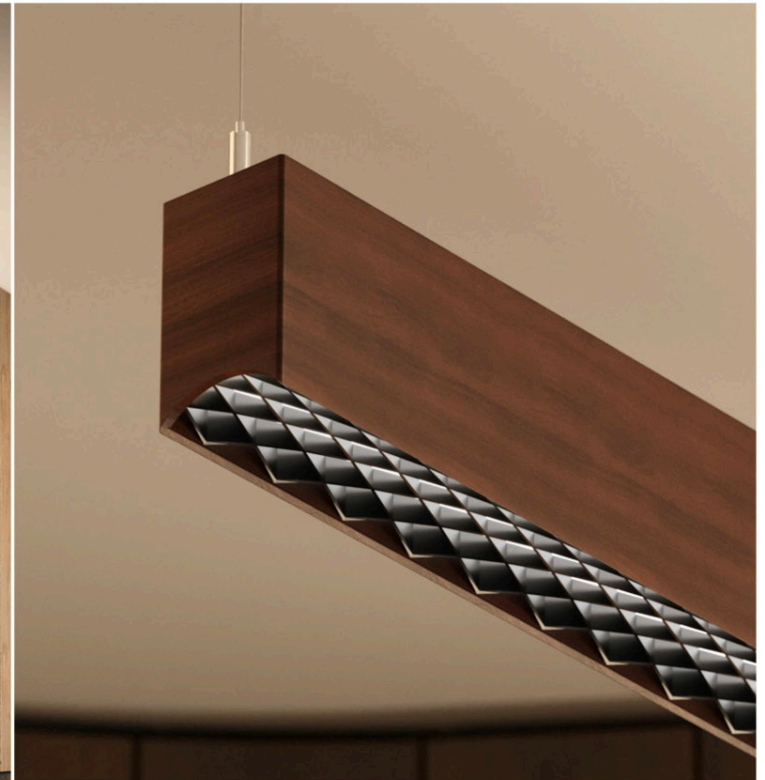


Injection molded louvre provides precise optical control limiting glare from the luminaire





- |                                   |                             |
|-----------------------------------|-----------------------------|
| ● White                           | ● Black Metallic Textured   |
| ● Silver Metallic Textured        | ● Red Metallic Textured     |
| ● Gold Metallic                   | ● Copper Metallic           |
| ● Midnight Blue Metallic Textured | ● Champagne Metallic        |
| ● Charcoal Metallic Textured      | ● Wood Grain - Light Cherry |
| ● Bronze Metallic Textured        | ● Wood Grain - Dark Walnut  |



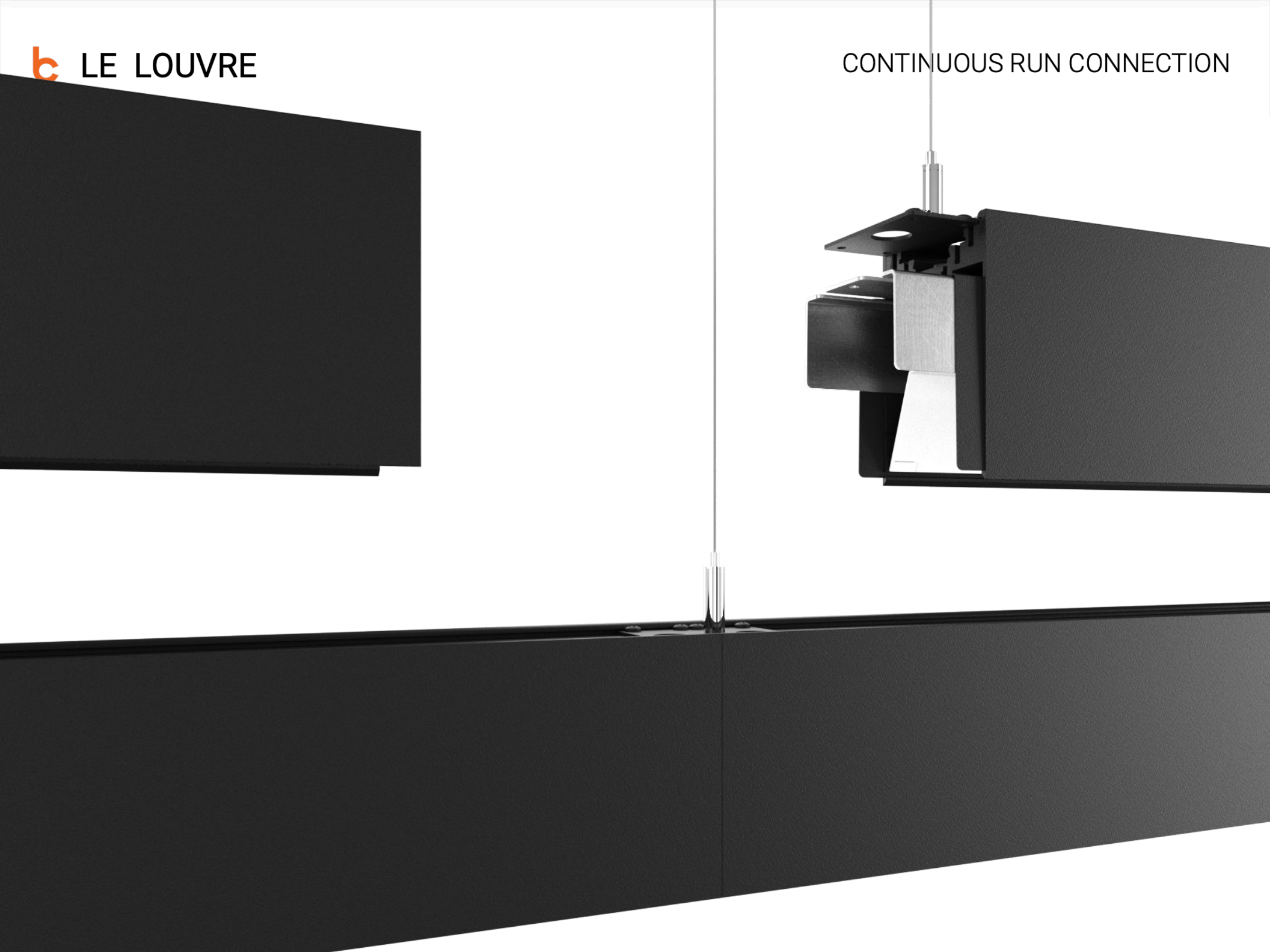
Light Cherry

Dark Walnut



















No Sensor



Enlighted



Osram Encelium



Philips

### IN-CANOPY SENSORS

- Enlighted
- Osram Encelium
- Philips

### COMPATIBLE CONTROL SYSTEMS

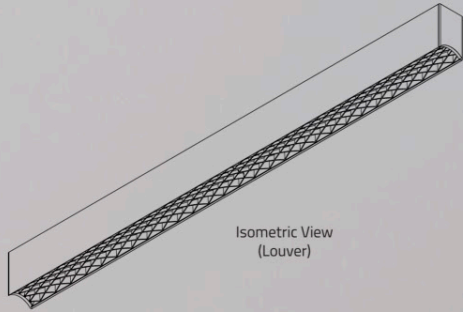
- Acuity nLight
- Cooper
- Crestron
- Enlighted
- Hubble
- Leviton Intellect
- Lutron Vive
- Osram Encelium
- Philips Easysense
- Wattstopper



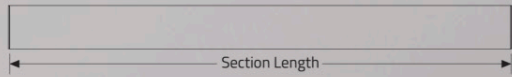
The **blackout plate** eliminates lighting up ductwork or any other ceiling areas you may not want to illuminate in the space.

Available in one foot sections and easily slides across the top of the fixture to the desired area you want to block light.





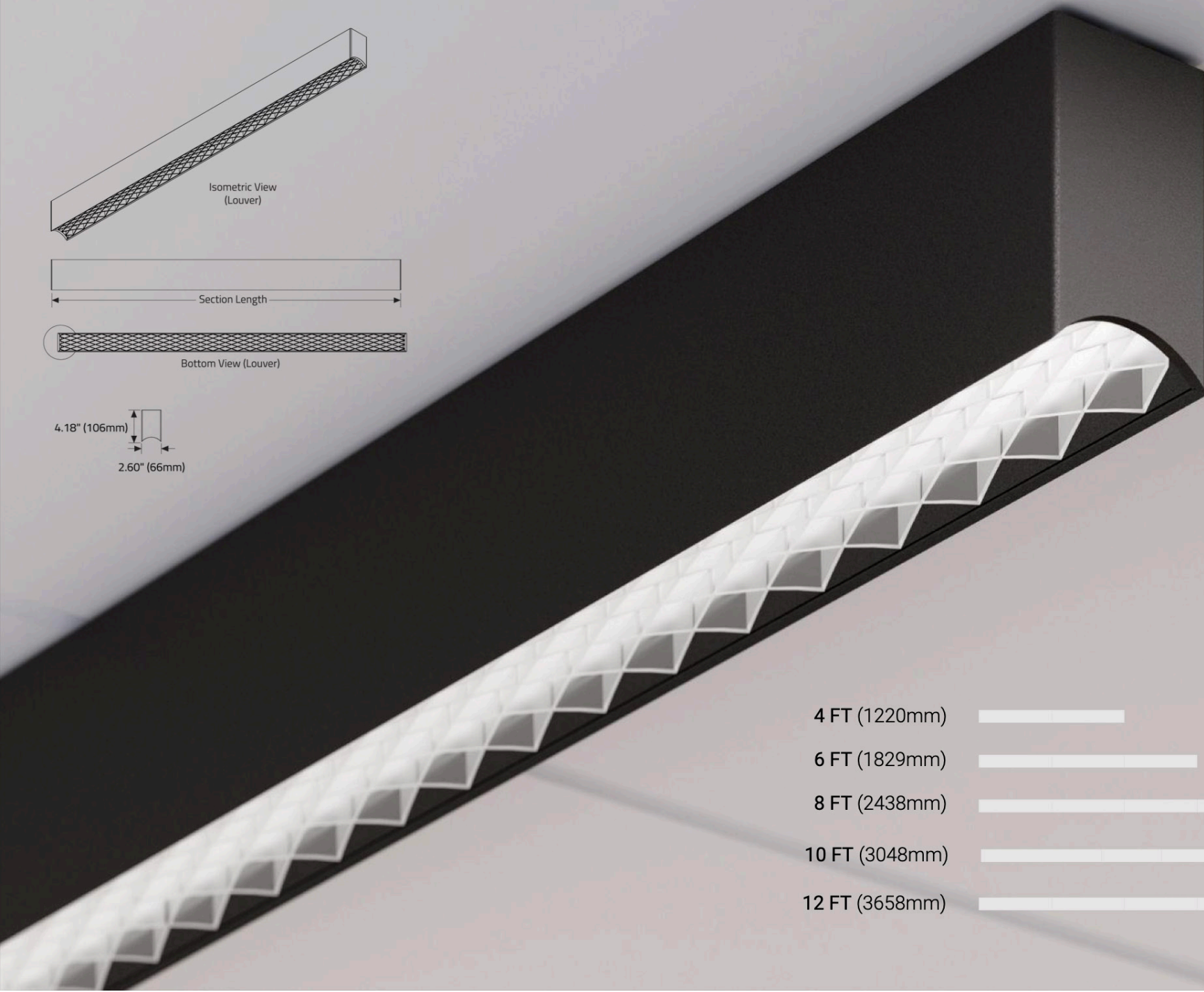
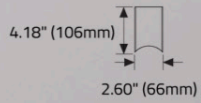
Isometric View (Louvre)

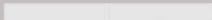
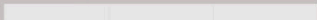




Section Length



Bottom View (Louvre)



- 4 FT (1220mm) 
- 6 FT (1829mm) 
- 8 FT (2438mm) 
- 10 FT (3048mm) 
- 12 FT (3658mm) 

The diagonal cross-hatched construction of the louver in a soft concave shape provides not just visual comfort but a touch of panache.



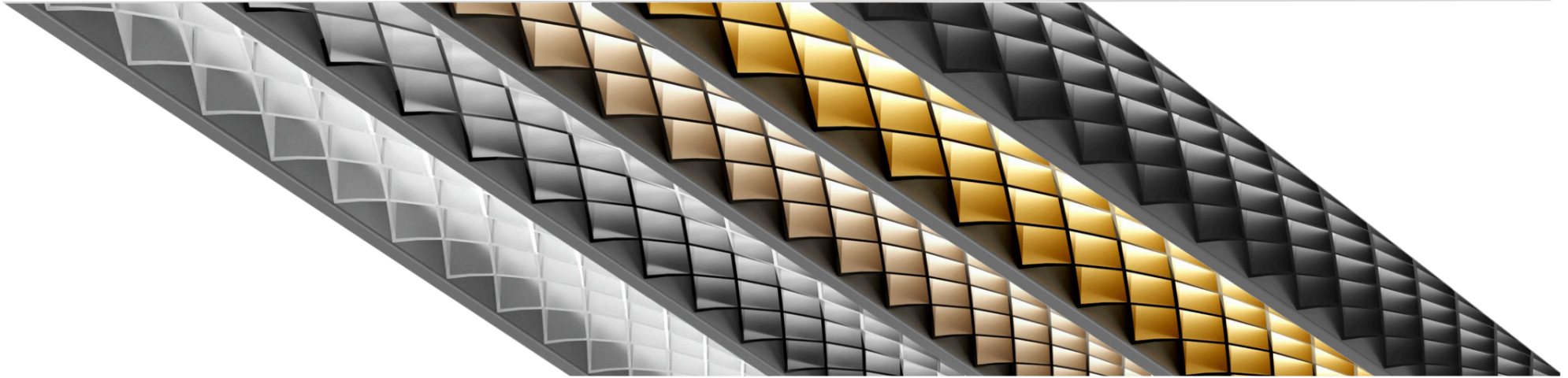


Le Louvre offers a low-glare lighting solution with a UGR of <math><19</math>, and delivers up to 130 lumens per watt.



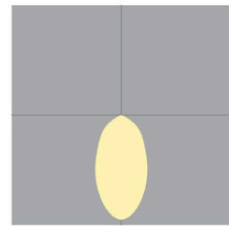
Le Louvre recessed fixtures are serviceable from below the ceiling



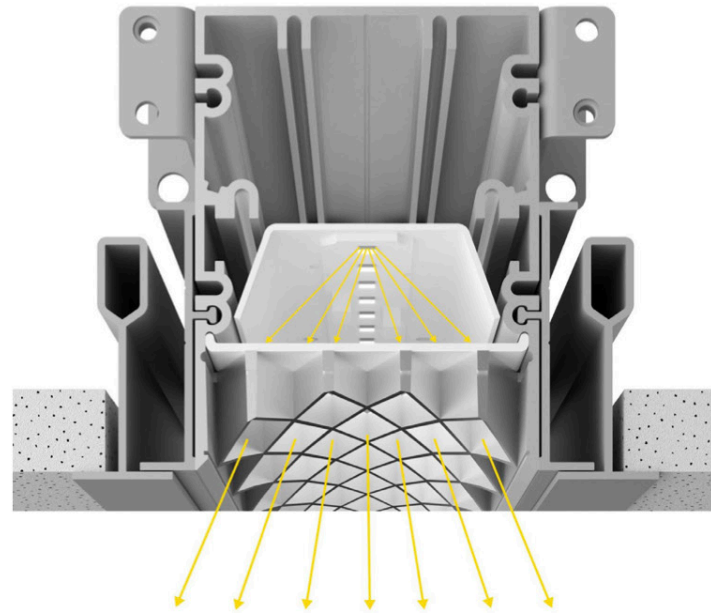


Louver Finishes:	Frosted	Satin Chrome	Satin Champagne	Satin Gold	Black
UGR Glare Rating:	<19*	<19	<19	<19	<15
Lumens/Ft up to:	1360	820	800	820	530
LPW up to:	130	75	73	75	50

*\* limitations may apply*



Direct

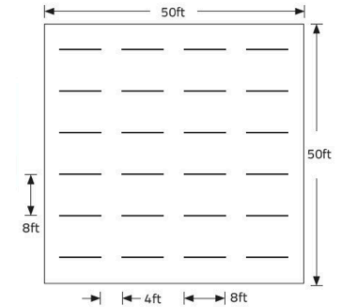


Injection molded louvre provides precise optical control limiting glare from the luminaire

• **OPEN PLAN OFFICE SPACE**

Satin Chrome Louver with 500lm/ft

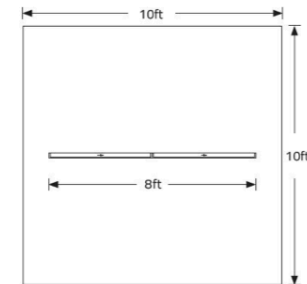
Room size:	<b>50' x 50'</b>	Workplane 30" above finished floor (fc level)	<b>43</b>
Ceiling height:	<b>9'</b>	UGR average	<b>&lt;17</b>
Reflectances:	<b>80/50/20</b>	Watt sq/ft	<b>0.54</b>
Light loss factor:	<b>1.0</b>		



• **SINGLE OFFICE SPACE**

Satin Chrome Louver with 500lm/ft

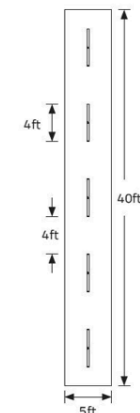
Room size:	<b>10' x 10'</b>	Workplane 30" above finished floor (fc level)	<b>34</b>
Ceiling height:	<b>9'</b>	UGR average	<b>&lt;12</b>
Reflectances:	<b>80/50/20</b>	Watt sq/ft	<b>0.562</b>
Light loss factor:	<b>1.0</b>		



• **CORRIDOR**

Satin Chrome Louver with 400lm/ft

Room size:	<b>40' x 5'</b>	Finished floor (fc level)	<b>20</b>
Ceiling height:	<b>9'</b>	Watt sq/ft	<b>0.514</b>
Reflectances:	<b>80/50/20</b>		
Light loss factor:	<b>1.0</b>		





Nurse Station

What we can clean



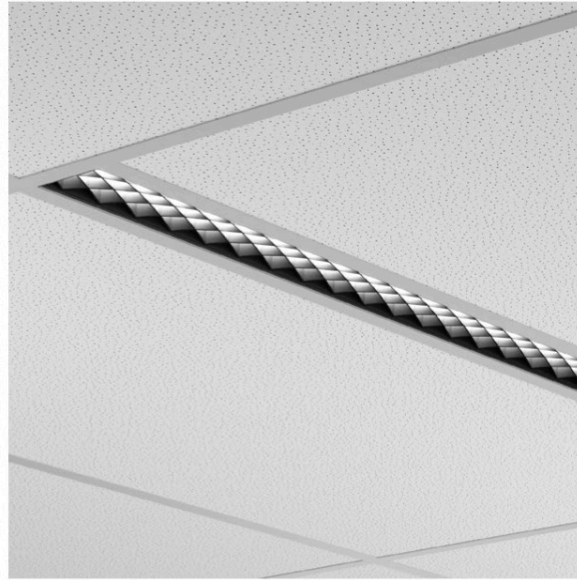
- Department
- Accident and emergency A&E
- Cardiology
- Diagnostic Imaging & Paed
- Neurology
- Occupational Therapy
- Genetics
- Pharmacy
- Physiotherapy
- Psychiatry
- Other



**b** LE LOUVRE RECESSED



Tegular Ceiling



T-Bar Ceiling



Trimless



Trim - White

**GRID CEILING**

Comes with combo kit which includes installation to T-bar and through tile mount

**HARD CEILING**

Designed for drywall ceilings



LE LOUVRE



[betacalco.com](http://betacalco.com)