

INDOOR LED SPORTS LUMINAIRE-V12



Ball-impact-resistance DIN 18032-3

Non dim version

DALI version

V12 indoor sports hall luminaire is totally modern design with perfect slim structure, which is more competitive on weight, installation and power consumption and with same low glare optic and ball proof certification which is welcomed for all the new indoor sports hall building.

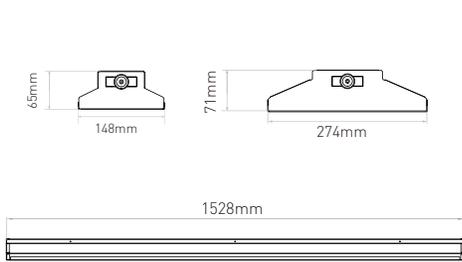


Parameter

Size	Wattage	Lumen	Efficiency	CRI	CCT	SDCM	UGR
1530x148x65mm	60W	8400LM	140lm/w	80	4000K	3	<22
1530x148x65mm	80W	11200LM	140lm/w	80	4000K	3	<22
1530x274x71mm	100W	14000LM	140lm/w	80	4000K	3	<22
1530x274x71mm	150W	21000LM	140lm/w	80	4000K	3	<22

Notes: Above lumens based on 4000K, Ra 80. All values in +25°C ambient temperature, luminous flux tolerance +-5%, output power tolerance +-5%.

Structure Data



IP Rate: IP20

Protection Class: Ball impact resistance

Body materials: Sheet metal+PMMA | White coating

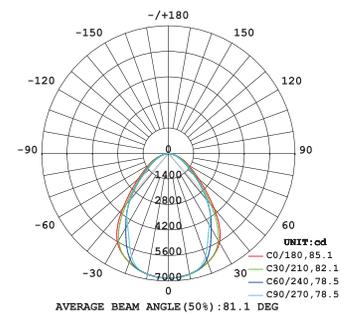
Body Color: White coating

Operating Temperature: -20~+40°C

Recommended Installation Height : 4-20M

Terminal: 5x1.5mm² | 5x2.5mm² push

3x1.5mm² | 3x2.5mm² push



Electrical Data

AC Input : 220-240V 50/60Hz

Philips Driver: PF≥0.9 THD<20% Power Efficiency≥0.92

60W : MCB B10A 15, MCB B16A 24, MCB C10A 19, MCB C16A 40

80W : MCB B10A 15, MCB B16A 24, MCB C10A 19, MCB C16A 40

100W : MCB B10A 11, MCB B16A 18, MCB C10A 18, MCB C16A 30

150W : MCB B10A 7, MCB B16A 12, MCB C10A 12, MCB C16A 20

Driver lifetime up to 100000h /10% max failure @ Ta25°C

AC Input : 220-240V 50/60Hz

Osram DALI Driver: PF≥0.95 THD<10% Power Efficiency≥0.92

60W: MCB B10A 8, MCB B16A 13, MCB C10A 13, MCB C16A 22

80W: MCB B10A 8, MCB B16A 13, MCB C10A 13, MCB C16A 22

95W: MCB B10A 8, MCB B16A 13, MCB C10A 13, MCB C16A 22

Philips DALI Driver:

150W : MCB B10A 7, MCB B16A 12, MCB C10A 12, MCB C16A 20

Lighting Data

Light Efficiency: 140Lm/W

Lumen output: 8400lm -21000lm

Beam Angle: 80°

CCT Range: WW(3000K) NW(4000K) DW(5000K) CW(6500K)

Light Source: 2835 SDCM 3 CRI > 80

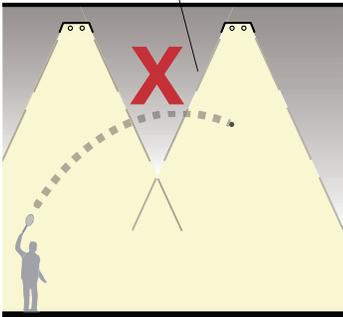
L80B10 @Ta 25°C : 102000h

L80B50 @Ta 25°C : 118000h

L90B50 @Ta 25°C : 58000h

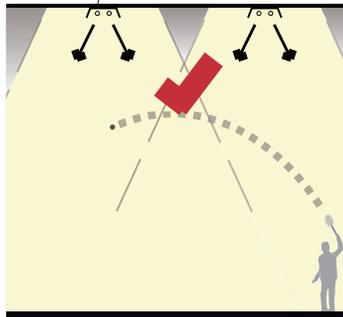
Optics

Contrasts in illuminance in the volume of the field of play should be avoided

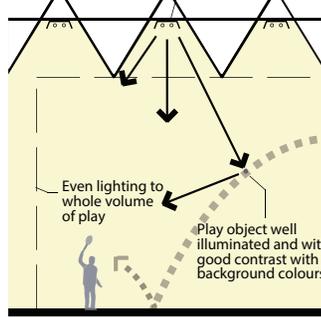


Even illumination is required in the full volume of the field of play

Improve spread of light in the volume

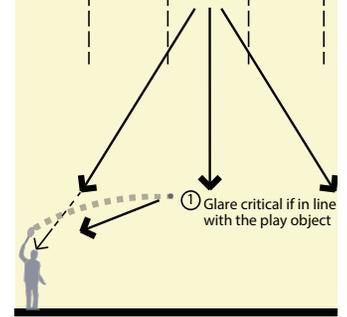


Artificial lighting integrated into roof structure and located to avoid glare



Natural and artificial lighting sources integrated with building structure

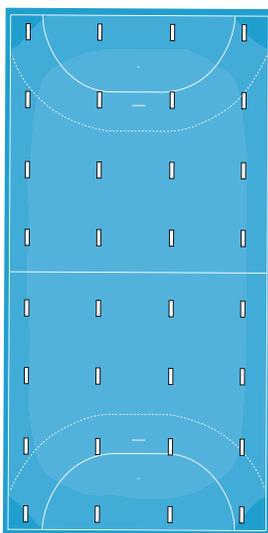
Light positioned / screened to avoid glare



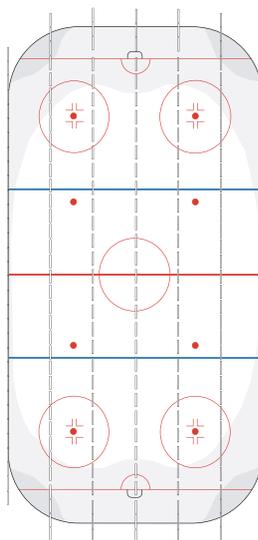
Lighting should not be located in direct line of sight of the player

Lighting requirements for current 'levels of play' definitions from Sport

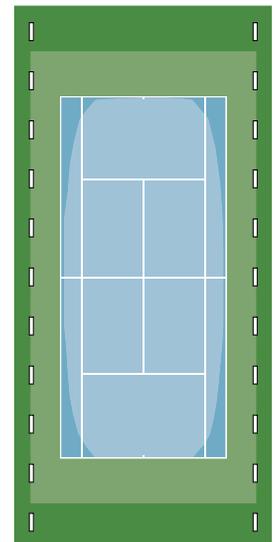
	International		Premier		Club		Community	
	Average Lux	Min Uniformity	Average Lux	Min Uniformity	Average Lux	Min Uniformity	Average Lux	Min Uniformity
Badminton	1000	0.7	500	0.7	500	0.7	500	0.7
Basketball	750	0.7	500	0.7	500	0.7	500	0.7
Netball	1500	0.7	750	0.7	750	0.7	750	0.7
Volleyball	1000 - 1500	0.7	500	0.7	500	0.7	500	0.7
Cricket (indoor)	-	-	-	-	750	0.8	750	0.8



Handball



Hockey



Tennis

OPERATION AND CONNECTION

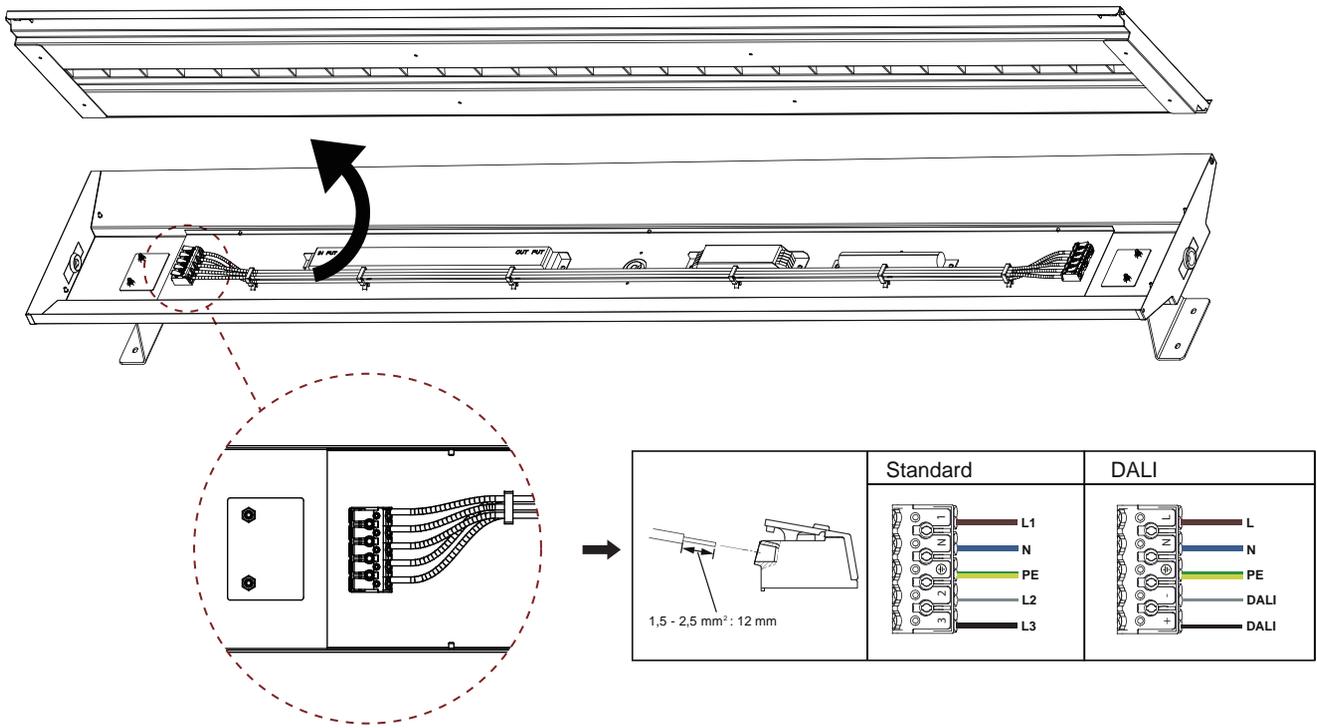
Openable luminaire where the power cable is inserted in the 5 pole push-in terminal block via end plate.

5-pin terminals at each end facilitate installation when any existing cabling is to be used.

Wieland plug through-wiring at both ends on request.

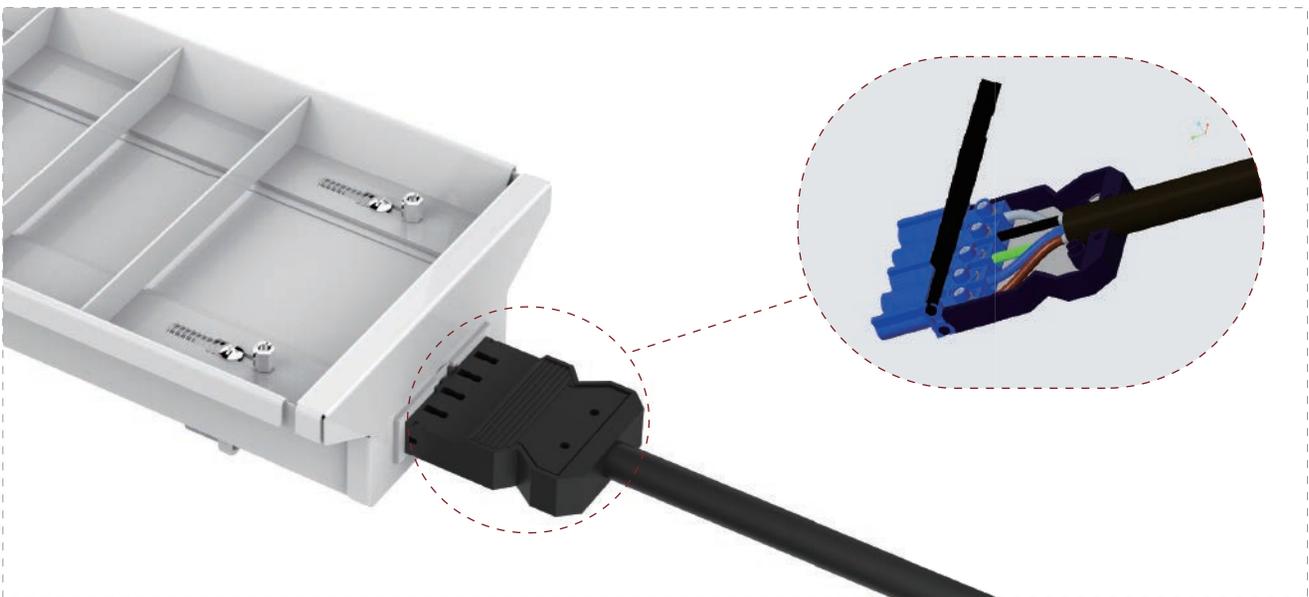
Option 1

5 pole push-in terminal block through-wiring

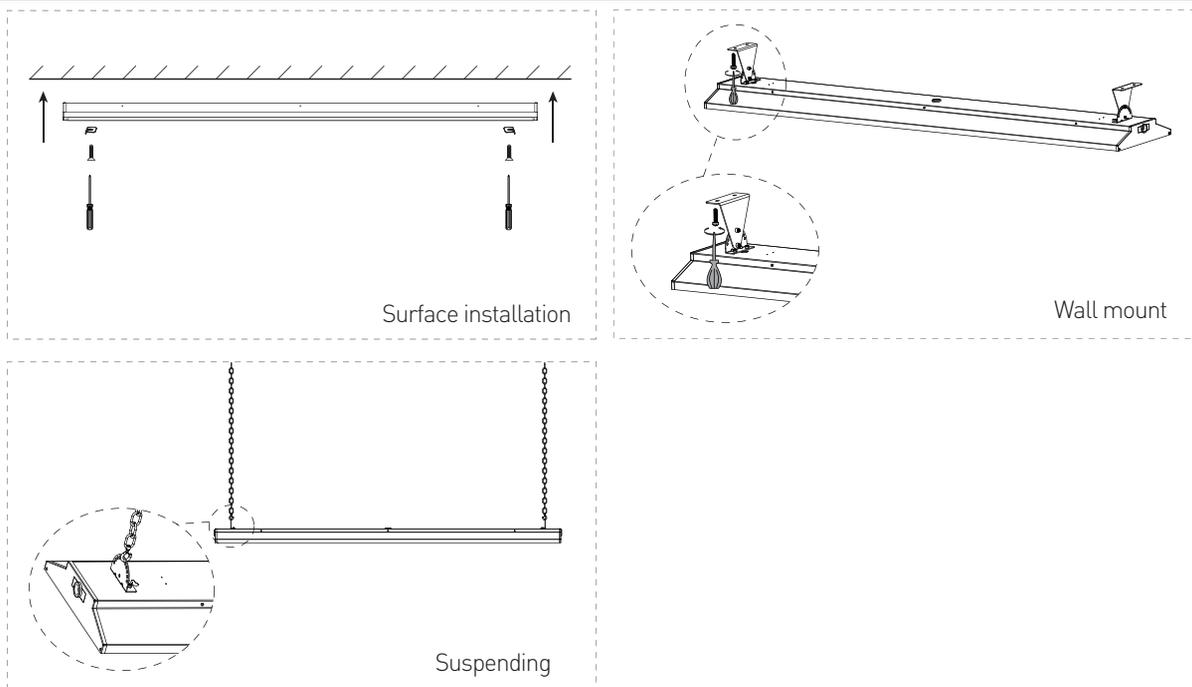


Option 2

Wieland plug (available on request)



Installation



Accessory



01



02



03



04



05



06

Accessories	IMAGE	DESIGNTION	QUANTITY	ACCESSORY USE
Standard	01	Screw	2PCS	Surface mounted
Standard	02	Plastic expansion screw	2PCS	Surface mounted
Standard	03	Metallic gasket	2PCS	Surface mounted
Optional	04	fixed support	2PCS	Surface mounted
Optional	05	Adjustable Angle bracket	2PCS	Beam angle adjustable base
Optional	06	Chain	2PCS	Suspending

Attention

This specification is for reference only,we reserve the right to change without notice.If you need the updated info,please contact local distributors or visit our website at <http://www.ervan.cn>

Any severe environment application including chemical substances, high/low temperature, high humidity, high salinity, high-ammonia etc..is not permitted without the official confirmation from the manufacturer. If any misapplication happens, the warranty policy is no longer guaranteed.

ERVAN reserves the right of final explanation.