

Arena



Ball-impact-resistance DIN 18032-3



Product information

Arena is a LED sports fixture in high quality. It is designed and developed especially for sports venue and can provide even and glare-free light in all types of sports venue. The design of Arena ensures that service on luminaires proceeded easily and quickly, as both LED and driver can be replaced.

Features

- * Changeable LED and driver
- * Install direct on ceiling or by hanging wire
- * Improved lighting in height

Product data

General Informadon	
Light source type	LED
Number of LED module	2 pcs
Beam angle of LED module	90°
Color temperature	4000K neutral white
CRI	80
LED module replaceable	Yes
Number of LED driver	1 Unit
Driver included	Yes
Driver replaceable	Yes
L90 lifetime of LED module	50,000 hrs
L80 lifetime of LED module	100,000 hrs
LED module lumen	125lm/w ± 5%
Operaring and Electrical	
Input Voltage	220-240 Vac
Input frequency	50 to 60 Hz
System wattage	150W
Inrush current	5.1A
Inrush time	760µs
Power factor	0.9
Leakage current	0.5mA
Max.unites per circuit B16 breaker	12
Max.unites per circuit C16 breaker	20
Surge protection	2KV (L-N)
Ambient temperature range	-20°C to + 40°C
Performance ambient temperature Tq	+25°C

SDCM	3 steps
Control and dimming	DALI
Connection type	5 pole connector
Protection class IEC	Safety class I
Glow-wire test	650°C, 30S
UGR	<18
PstLM	<1
SVM	<0.4
CE Mark	Yes
EU RoHS compliant	Yes
Net weight (piece)	11.5Kg
Dimension	
Overall length	1530mm
Overall width	360mm
Overall height	93mm
Mechanical and Housing	
Housing material	Metal
Optical material	Polymethyl methacrylate
Housing color	White
Heatsink material	Metal
Ingress protection code	IP20
Meeh, impact protection code	IK10
Remarks	
LED driver failure rate at 50,000hrs@25°C	5%
Power consumption tolerance	±5%

Specifications

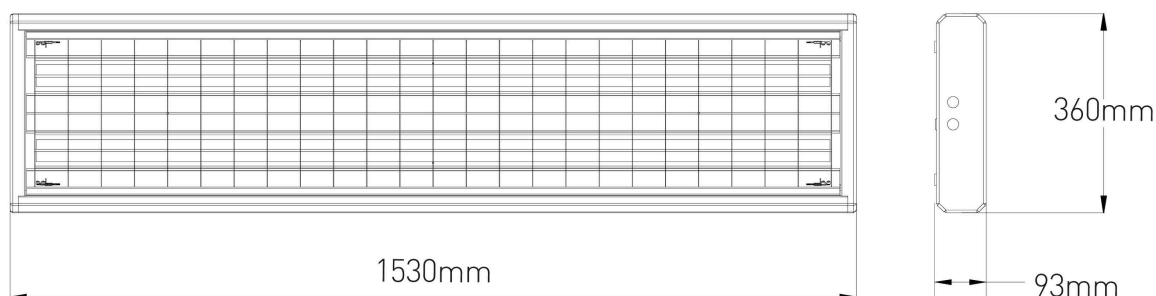
Varenummer	LED Module Wattage*	Length mm	Width mm	Height mm	CCT (Kelvin)*	Rated Flux (Lm) *	CRI (Ra)*	Beam angle*	Energy Class	Dimming technology
570109322151	150	1530	360	93	4000	18750	80	90°	C	DALI

* Due to the special conditions of the manufacturing processes of LED, the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from the typical value. A max 10% tolerance is deemed to be acceptable in any case.

Product photos



Dimension drawings



UGR(Unified Glare Rating) Table

Test:U:230.3V I:0.6443A P:145.5W PF:0.9805 Freq:49.99Hz Lamp Flux:18859.2x1 lm										
NAME: ARENA-150W-4000K-1500X350					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					SUR.:			Shielding Angle:		

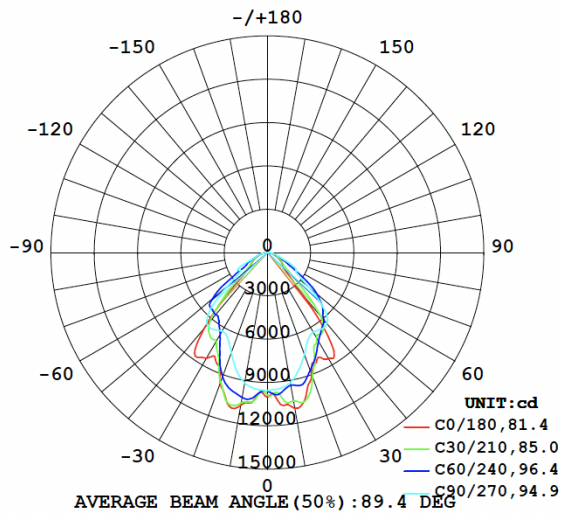
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	7.5	8.8	7.7	9.0	9.2	11.0	12.3	11.3	12.5	12.7
3H	8.0	9.2	8.3	9.4	9.7	11.5	12.7	11.8	12.9	13.2
4H	8.2	9.4	8.6	9.6	9.9	11.7	12.8	12.0	13.1	13.3
6H	8.4	9.4	8.7	9.7	10.0	11.8	12.9	12.1	13.1	13.4
8H	8.4	9.4	8.7	9.7	10.0	11.8	12.9	12.2	13.1	13.4
12H	8.3	9.3	8.7	9.6	9.9	11.9	12.8	12.2	13.1	13.4
4H 2H	7.9	9.0	8.2	9.3	9.5	10.9	12.1	11.2	12.3	12.6
3H	8.6	9.6	9.0	9.9	10.2	11.6	12.6	11.9	12.9	13.2
4H	9.0	9.9	9.3	10.2	10.5	11.9	12.8	12.3	13.1	13.4
6H	9.2	10.0	9.6	10.3	10.7	12.1	12.9	12.5	13.3	13.6
8H	9.2	9.9	9.6	10.3	10.7	12.2	12.9	12.6	13.3	13.7
12H	9.2	9.9	9.6	10.3	10.7	12.3	12.9	12.7	13.3	13.7
8H 4H	9.2	9.9	9.6	10.3	10.7	11.9	12.6	12.3	13.0	13.4
6H	9.5	10.1	10.0	10.5	11.0	12.2	12.8	12.7	13.2	13.7
8H	9.6	10.1	10.1	10.6	11.0	12.4	12.9	12.8	13.3	13.8
12H	9.6	10.1	10.1	10.5	11.0	12.5	12.9	13.0	13.4	13.9
12H 4H	9.2	9.9	9.6	10.2	10.7	11.9	12.5	12.3	12.9	13.3
6H	9.6	10.1	10.0	10.5	11.0	12.2	12.8	12.7	13.2	13.7
8H	9.7	10.1	10.2	10.6	11.1	12.4	12.8	12.9	13.3	13.8
Variations with the observer position at spacings:										
S = 1.0H	+ 1.2 / - 1.6					+ 0.8 / - 1.1				
1.5H	+ 2.0 / - 1.5					+ 1.0 / - 0.8				
2.0H	+ 1.0 / - 0.6					+ 2.3 / - 2.0				

CIE Pub.117, 18859 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 10.2$)

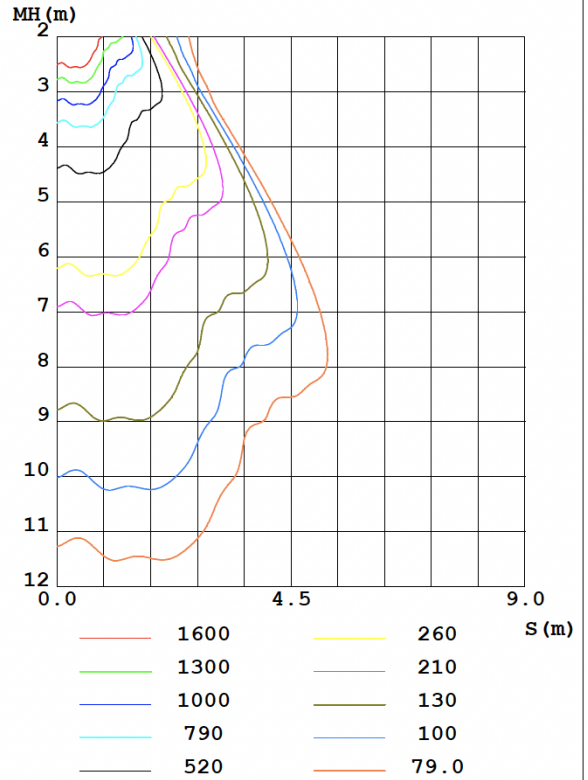
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2019-08-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

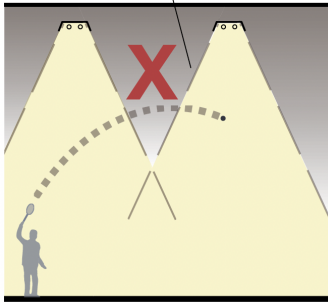
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)

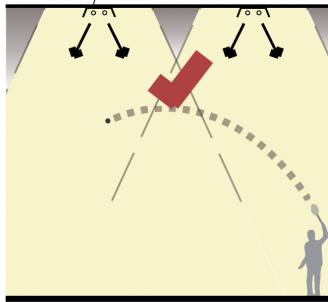


Contrasts in illuminance in the volume of the field of play should be avoided

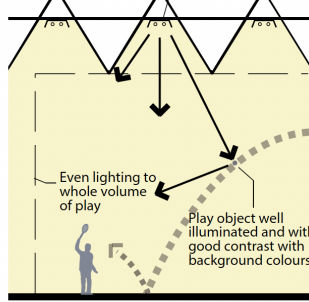


Even illumination is required in the full volume of the field of play

Improve spread of light in the volume

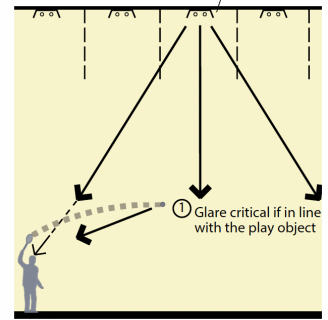


Artificial lighting integrated into roof structure and located to avoid glare



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

