

LINE 9



Well-being Bright

Comfortable Spacious

lax
rm

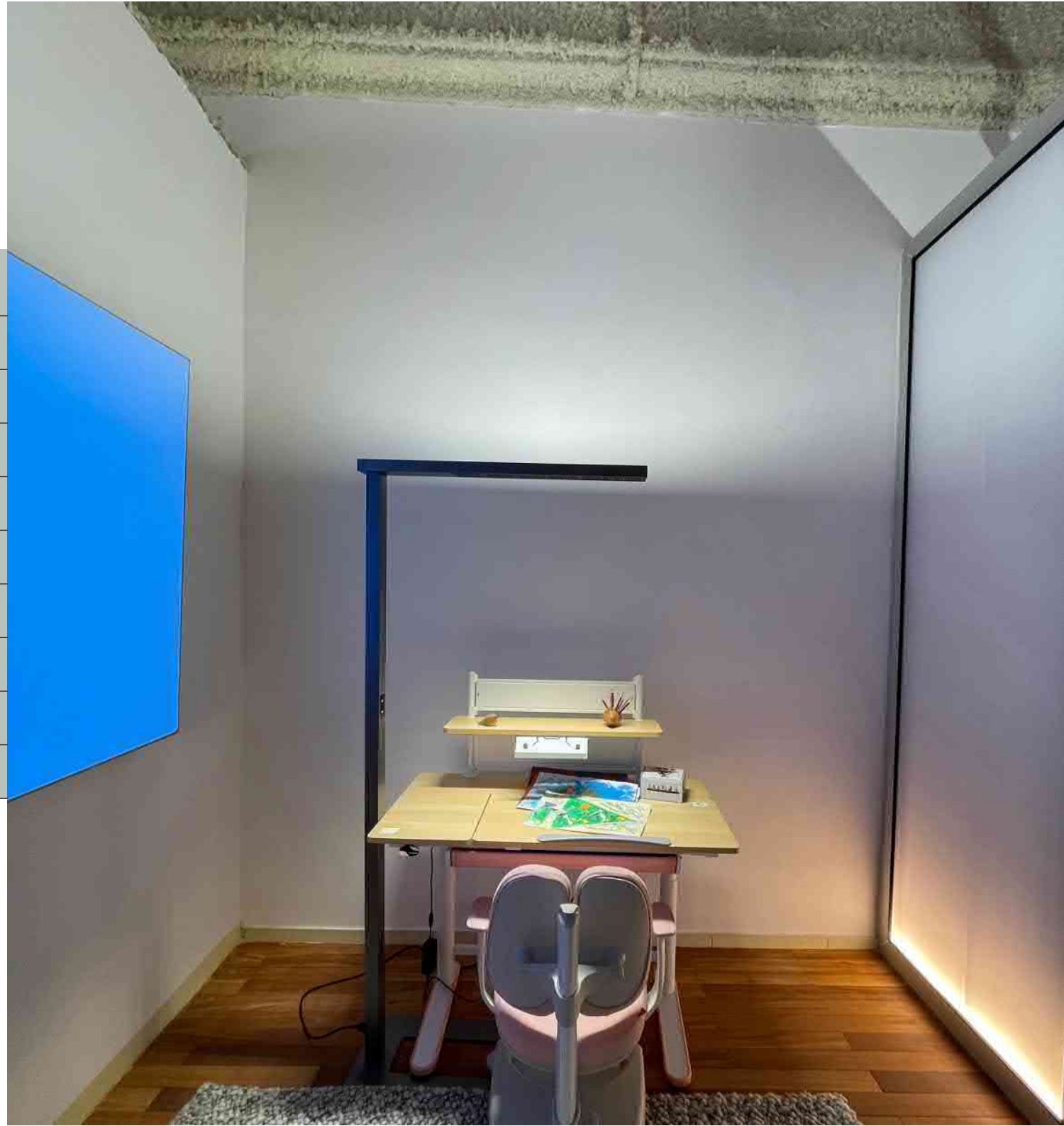


Create more well-being children space

Direct/Indirect 30/70 make details and texture easier to see

Beyond BS EN 12464-1:2021

Item	LINE	EN12464-1-2021
Desk illumination	3000Lux	>500Lux
R60	≤3	≤3
CRI	93	80
R9	80	–
Rf	91	–
Rg	101	–
UGR	12	19
Flicker	10000Hz	3.2%
Bluelight	RG0	RG0



Rg0 protect children's vision



No stroboscopic, no headache¹ for homework and reading

Children are more sensitive to stroboscopic than adults
Strobe causes visual fatigue and headache

1 IEEE PAR 1789» Strobe frequency greater than 3125Hz has no effect on people





Eyes strain?

Indirect 8740lumens wash ceiling evenly
in batwing pattern which reduce visual fatigue



Develop a correct understanding of color from an early age

CRI93 Ra96 R9 80 Rf 91 Rg 101

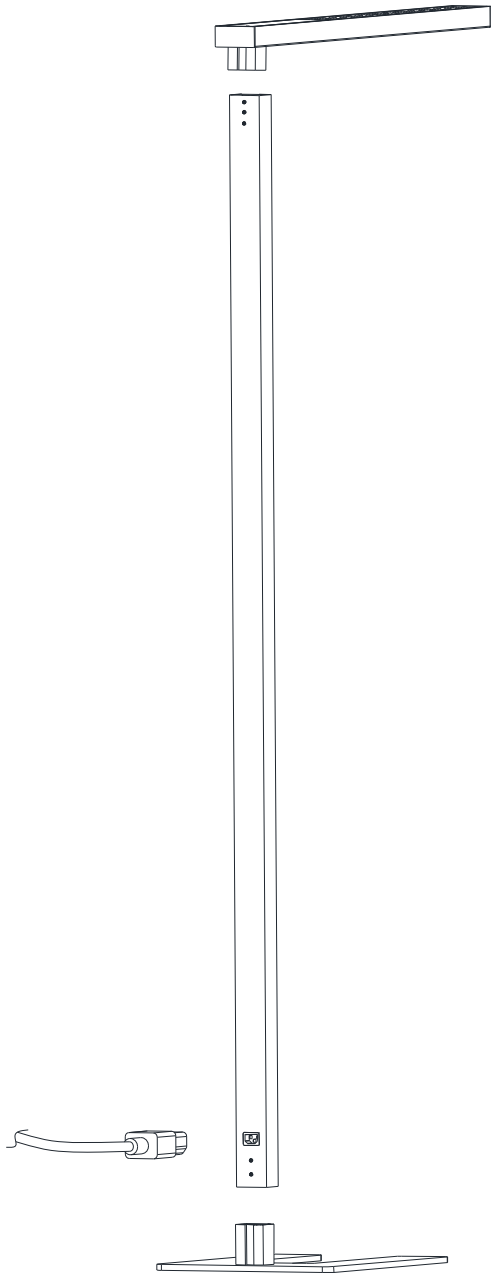
Touch dimming

- Touch briefly to switch on and off in your seat
- Press and hold to adjust brightness
- Display dimming percentage
- Built-in memory function
- Start to previous function when switched on





Automatic switching on and off lighting via PIR sensor



Simple and quick to assembly or disassembly with 1 minute

5 years warranty

140 pcs precise optic
560 pcs big-sized chip
High quality PCB with 2 ounce copper layer and $2.0W/(m \cdot K)$
TRIDONIC Driver
3M VHB 4950 tape
DYMAX coating
Mitsubishi PC
WAGO connector
Aluminum frame

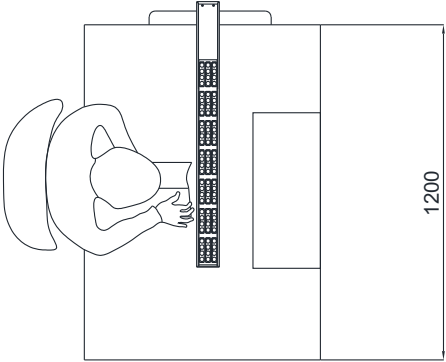
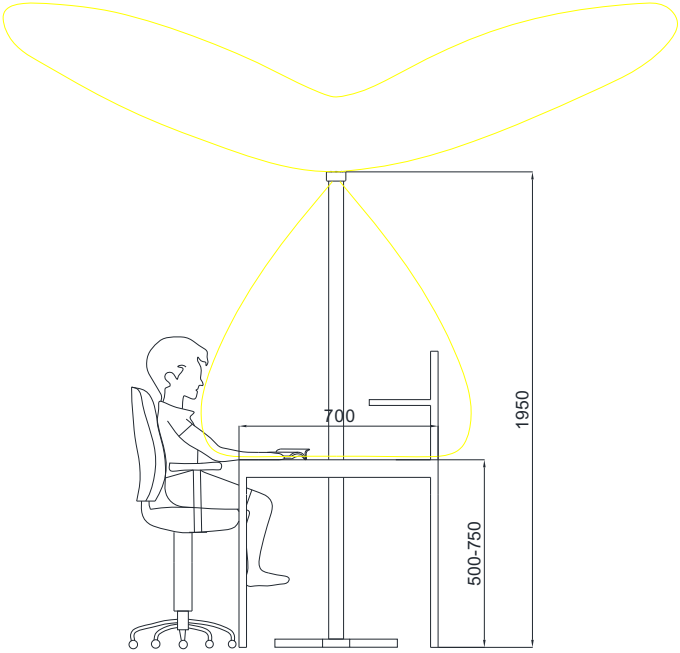




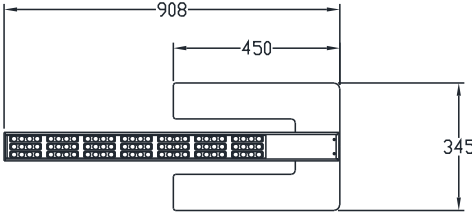
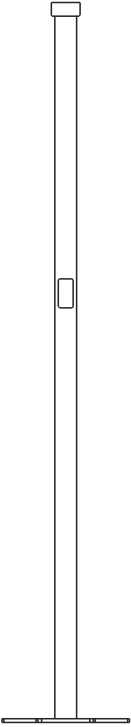
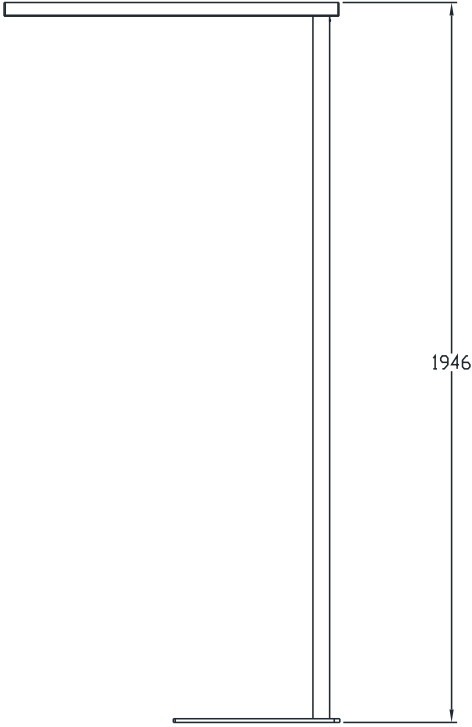




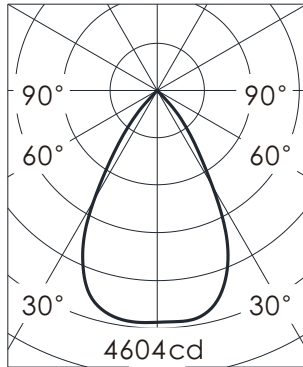
Conditions of Use



Dimension



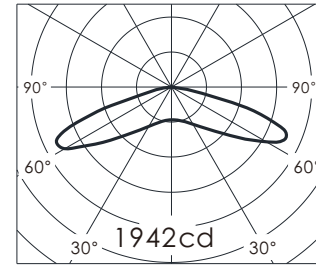
Lighting distribution



View angle : 60°

Height(m)	Illumination (lx)	Diameter (m)
1	1911	1.13
2	478	2.27
3	213	3.40
4	119	4.54
5	77	5.67

Direct luminous flux: 2300lm



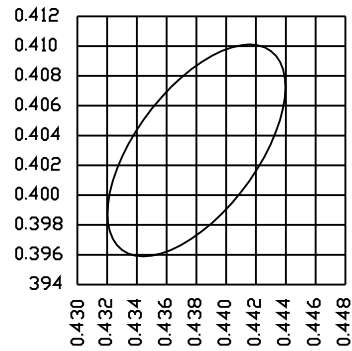
View angle : 160°

Height(m)	Illumination (lx)	Diameter (m)
1	53	13.98
2	13	27.96
3	6	41.94

Indirect luminous lux: 8740lm

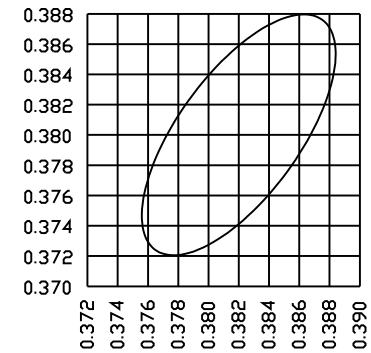
Bin standard

ANSI C78.377



BIN:30A

Centred x	Centred y	Nominal CCT (K)	CCT Range(K)	MacAdam ellipse
0.4338	0.403	3000	2865-2940	3SDCM



BIN:40A

Centred x	Centred y	Nominal CCT (K)	CCT Range(K)	MacAdam ellipse
0.3818	0.3797	4000	3900-4175	3SDCM

Electrical Characteristics

Voltage Range(V)		22-26
Power /pc (W)	Indirect Direct	67.2 20.5
Driver		Integrated
Dimable		Touch
Flicker		High frequency

Optical Characteristics

Light distribution		Direct/Indirect
Luminous lux (lm)		2300/8740 Direct/Indirect
lighting source(lm/w)		160/130 Direct/Indirect
Luminare(lm/w)		130/110 Direct/Indirect
Color quality		3000K: CRI93 Ra95 R9 90 Rf 90 Rg 101 4000K: CRI94 Ra96 R9 90 Rf 92 Rg 101
View angle		Indirect 160° Direct 64°
MacAdam Step		3SDCM
UGR		9
Color temperature		3000K/4000K

Physical Characteristics

Color		White
Composition		Optic Aluminum LED
Case		Aluminum
Dimension (mm)		906×450×1950
Net weight(kg)		14.4

Dependability

Warranty		5 years
Lifespan > 50.000h(Tc=85°C)		L80B50-50.000h(Tc=85°C)
IP		53
Certificate		CE RoHS
Luminare Class		II
IK		Ik03
Temperature		-20 ~ +40°C

Standards&Certificates

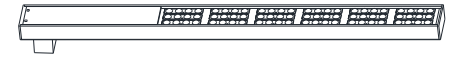
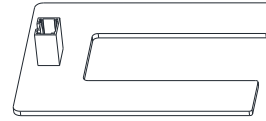
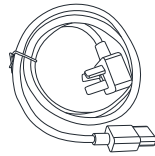
Integrating Sphere Test	IES LM79 (lumen,CCT,CRI,XY,SDCM,wave length)
Photometric Distribution Test	IES LM79
Aging Test	IES LM84&IES TM28
Ambient Temperature Test	UL1598&UL2388&IEC60598-1&IEC60598-2-21
High temperature High Humidity Test	UL1598&UL2388&IEC60598-1&IEC60598-2-21
Bending Test	500 cycles
Vibration Test	UL2388>750cycles
Tensile Test	Defined by Manufacturer
Drop Test	UL1598&UL2388&IEC60598-1&IEC60598-2-21
IK Test	IEC62262
Fire-Rating Test	UI94
UV Test	ASTMG154,ISO4892-3,UVA@340nm IEC60529
Salt Spray Test	IEC68-2-11
Thermal Shock Test	Non-lighting -40°C-55°C (25mins) with 5mins , 100 cycles
High temperature test	55°C

Packaging



	Qty	Dimension (mm)	Net weight(kg)	Gross Weight(kg)
Luminare head	1	946*118*110		
Luminare pole	1	490*385*110		
Luminare base	1	70*55*1920		

Installation



Accessories



Steps

