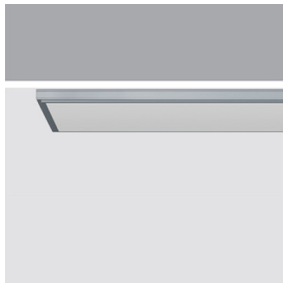


Last information update: May 2024

Product configuration: N270+9689.15

N270: iplan - warm white - UGR<19 with L<3,000 cd/m2 for $\alpha \geq 65^\circ$

9689.15: Adapter for installation in plasterboard false ceilings - Grey

**Product code**

N270: iplan - warm white - UGR<19 with L<3,000 cd/m2 for $\alpha \geq 65^\circ$ **Attention! Code no longer in production**

Technical description

Direct emission recessed or ceiling-mounted luminaire designed to use warm white 3000K high colour rendering LEDs. Anodised aluminium perimeter profile. The micro-prismatic diffuser screen, combined with an inner screen and diffusing film, allows optimum diffusion of the direct light and controlled luminance UGR<19 with L<3,000 cd/m2 for $\alpha \geq 65^\circ$ ideal for environments where video monitors are used. The LEDs are arranged inside the perimeter and the driver is housed in the product.

Installation

Recessed in plasterboard false ceilings (using accessory frame), in false ceilings with frame. Possibility of ceiling-mounting using kit to be ordered separately as an accessory

Colour

Aluminium (12)

Weight (Kg)

8

Mounting

ceiling pendant

Wiring

product complete with electronic components

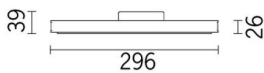
Complies with EN60598-1 and pertinent regulations



IP20

IP43

On the visible part of the product once installed

**Accessory code**

9689.15: Adapter for installation in plasterboard false ceilings - Grey

Technical description

Adapter for installation in plasterboard false ceilings

Colour

Aluminium (12)

Notes

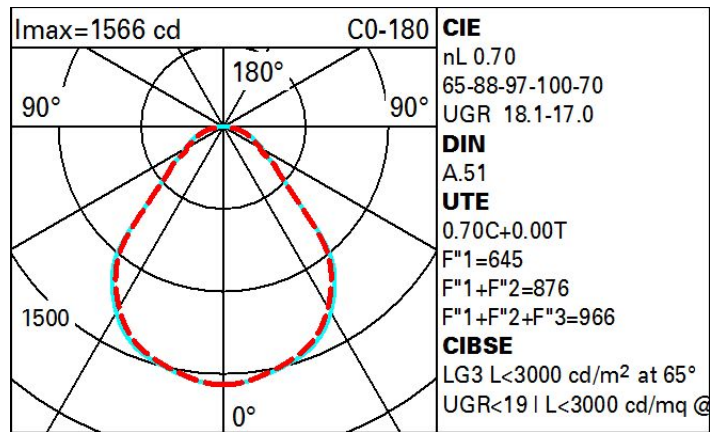
Only for 296x1196 rectangular versions

Complies with EN60598-1 and pertinent regulations

Technical data

lm system:	3115	CRI (minimum):	80
W system:	30.9	Colour temperature [K]:	3000
lm source:	4450	MacAdam Step:	3
W source:	26	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	100.8	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	70	Number of optical assemblies:	1

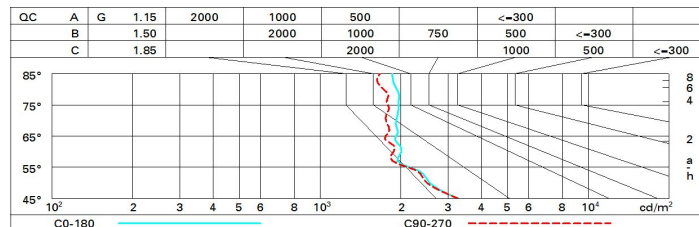
Polar



Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	52	45	41	38	45	41	40	36	52
1.0	56	50	46	43	49	45	45	41	59
1.5	62	57	54	51	56	53	52	49	69
2.0	65	62	59	56	60	58	57	54	77
2.5	67	64	62	60	63	61	60	57	81
3.0	69	66	64	62	65	63	62	59	84
4.0	71	68	67	65	67	66	64	62	88
5.0	71	70	68	67	68	67	66	63	90

Luminance curve limit



UGR diagram

Corrected UGR values (at 4450 lm bare lamp luminous flux)												
Reflect.: ceiling/cav walls work pl. Room dim x y		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
		viewed crosswise					viewed endwise					
2H	2H	14.7	15.6	15.0	15.8	16.1	14.5	15.4	14.8	15.6	15.9	
	3H	15.8	16.6	16.1	16.9	17.1	14.7	15.5	15.1	15.8	16.1	
	4H	16.3	17.1	16.7	17.4	17.7	14.8	15.6	15.2	15.9	16.2	
	6H	16.9	17.6	17.3	17.9	18.3	14.9	15.6	15.2	15.9	16.2	
	8H	17.1	17.8	17.5	18.1	18.5	14.9	15.5	15.2	15.9	16.2	
	12H	17.3	17.9	17.7	18.3	18.7	14.8	15.5	15.2	15.8	16.2	
4H	2H	15.0	15.7	15.3	16.0	16.4	16.0	16.8	16.4	17.1	17.4	
	3H	16.3	16.9	16.7	17.3	17.6	16.5	17.1	16.8	17.5	17.8	
	4H	17.0	17.6	17.4	18.0	18.4	16.7	17.3	17.1	17.7	18.0	
	6H	17.8	18.3	18.2	18.7	19.1	16.9	17.5	17.4	17.9	18.3	
	8H	18.1	18.5	18.5	19.0	19.4	17.0	17.5	17.5	17.9	18.4	
	12H	18.3	18.7	18.8	19.2	19.6	17.1	17.5	17.5	17.9	18.4	
8H	4H	17.3	17.8	17.8	18.2	18.6	17.7	18.1	18.1	18.5	19.0	
	6H	18.3	18.7	18.7	19.1	19.6	18.1	18.5	18.5	18.9	19.4	
	8H	18.7	19.0	19.2	19.5	20.0	18.3	18.7	18.8	19.1	19.6	
	12H	19.1	19.4	19.6	19.9	20.4	18.5	18.8	19.0	19.3	19.8	
12H	4H	17.3	17.8	17.8	18.2	18.7	17.9	18.3	18.3	18.7	19.2	
	6H	18.4	18.7	18.9	19.2	19.7	18.4	18.7	18.8	19.2	19.7	
	8H	18.9	19.2	19.4	19.7	20.2	18.6	18.9	19.2	19.4	20.0	
Variations with the observer position at spacing:												
S =		1.0H	0.3 / -0.3		0.3 / -0.4							
		1.5H	0.8 / -0.6		0.8 / -0.6							
		2.0H	1.4 / -0.7		1.5 / -0.7							