

## چراغ دکوراتیو و روشنایی عمومی پارکی و فضای آزاد - سری نیکا روشنایی فضای بیرون | فضای آزاد | چراغ دکوراتیو | چراغ ضد رطوبت و گردوغبار

### کاربردها

- < روشنایی محوطه
- < پارک ها و فضاهای سبز
- < مراکز تفریحی و تجاری
- < زمین های بازی
- < روشنایی معابر شهری
- < باغ ها و ویلاها
- < محوطه پارکینگ ها



### مزایا

- < دارای درجه حفاظت بالا IP65 و مناسب برای روشنایی فضای آزاد
- < بدنه مقاوم از جنس فولاد کربن با پوشش رنگ الکترواستاتیک
- < طول عمر بالا با کمترین افت شار نوری در طی زمان با استفاده از چیپست و درایور شرکت اسرام
- < زیبایی ظاهری و طراحی دقیق مهندسی شده
- < پخش نور هدفمند با کمترین اتلاف نوری با استفاده از لنزهای تولید شرکت LEDiL
- < مناسب برای نورپردازی دکوراتیو و روشنایی عمومی

### مشخصات کلی

- < دمای کارکرد (°C) : -20... +50
- < طول عمر : 50000 h – L80/B10
- < بهره نوری (lm/w) : 160
- < ولتاژ ورودی (VAC) : 190 ... 240 | 50 ... 60 [Hz]
- < طول موج : بدون نور فرابنفش و نور مادون قرمز

**دیتاشیت فنی**
**مشخصات الکتریکی**

توان مصرفی	100 [W]
منبع تغذیه	درایور LED
ولتاژ ورودی	190 ... 240 [VAC] - 50 ... 60 [Hz]
برچسب انرژی	A++

**مشخصات نوری**

دمای رنگ نور (CCT)	3000-4000-6500 [K]
شاخص نمود رنگ (CRI)	80 <
شار نوری	16000 [lm]
بهره نوری	160 [lm/w]
زاویه پخش نور	147 °-169°

**ابعاد و وزن**

شکل محصول	پایه چهاروجهی
طول	800 [mm]
عرض	100 [mm]
ارتفاع	5000 [mm]
وزن	-

**مشخصات بدنه**

جنس بدنه	فولاد کربن با دستک بطول ۸۰ سانتی متر و زاویه ۹۰ درجه
رنگ بدنه	مشکی
جنس دیفیوزر	لنز پلی کربنات
رنگ دیفیوزر	شفاف
درجه حفاظت	IP65

**طول عمر**

طول عمر	50000 h – L80/B10
گارانتی	۵ سال

**نصب و کاربرد**

نوع نصب	فضای آزاد
کاربرد	چراغ دکوراتیو پارکی و فضای آزاد جهت روشنایی دکوراتیو

**دیناشیت فنی**
**امکانات جانبی**

قابلیت انطباق دارد	دیمینگ
قابلیت انطباق دارد	دالی
قابلیت انطباق دارد	باتری
قابلیت انطباق دارد / اکسترنال	سنسور حرکتی

**مشخصات منبع نوری**

تکنولوژی ساخت	بک لایت
منبع نوری	SMD LED
برند ماژول	سایان الکتریک
سری ماژول	SE-RG0808DS3030X028A0600
هندسه ماژول	3 عدد ماژول چهار گوش
برند و سری چیپست	اسرام / DURIS® S 5
تعداد LED	87 عدد
لنز روی چیپست	دارد
نوع لنز	لنز پلی کربنات
اتصالات ماژول	WAGO2060

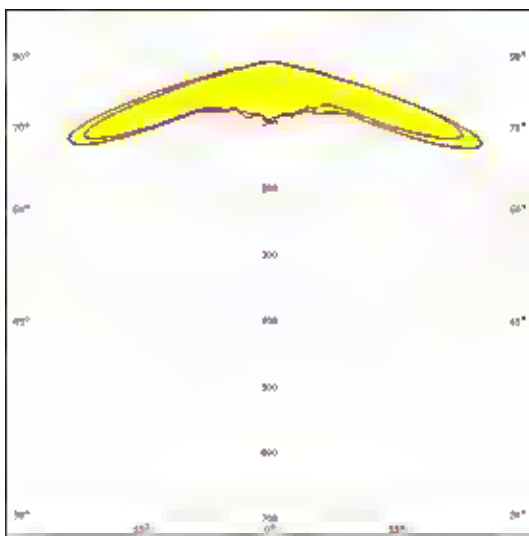
**مشخصات درایور**

نوع درایور	External CC - Driver
برند درایور	3 عدد درایور اسرام OT FIT 30/220-240/700 CS داخل باکس Waterproof
ضریب توان	< 95 %
فلیکر	Flicker FREE
THD	> 10 %
بهره وری	< 90 %
مدارات محافظ	OVP-OCP-OLP-ICP

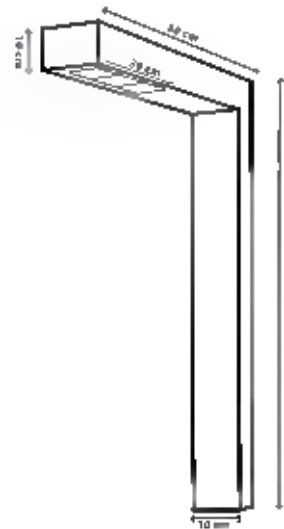
بسته بندی

SE-NA100S5008065SLX	کد محصول
ضربه گیر	بسته بندی اولیه
-	ابعاد بسته بندی اولیه
کیسه پلاستیکی	بسته بندی تک محصول
-	ابعاد بسته بندی تک محصول (mm)
-	بسته بندی مادر
-	ابعاد بسته بندی مادر
-	تعداد در بسته بندی مادر

منحنی پخش نور



نقشه فنی



برای کسب اطلاعات بیشتر کد QR را اسکن کنید

## OT FIT 30/220...240/700 CS

OPTOTRONIC FIT CS G3 | Constant Current Compact – Non dimmable



### Product family features

- Lifetime: up to 50,000 h (temperature at max.  $t_c$ )
- Cable clamp kit for independent mounting

### Product family benefits

- Higher quality of light thanks to low output ripple current
- High flexibility due to four different output currents
- Small housing for flexible luminaire designs
- High efficiency

### Areas of application

- Suitable for downlights, spotlights and LED panels
- Suitable for luminaires of protection classes I and II

## Technical data

### Electrical data

Nominal input voltage	220...240 V
Mains frequency	50/60 Hz
Input voltage AC	198...264 V <sup>1)</sup>
Total harmonic distortion	< 10 % <sup>2)</sup>
Power factor $\lambda$	0.98 <sup>3)</sup>
Efficiency in full-load	89 % <sup>4)</sup>
Device power loss	3.6 W <sup>5)</sup>
Protective conductor current	<0.7 mA
Inrush current	$\leq 5$ A <sup>6)</sup>
Max. ECG no. on circuit breaker 10 A (B)	27
Max. ECG no. on circuit breaker 10 A (C)	41
Max. ECG no. on circuit breaker 16 A (B)	44
Max. ECG no. on circuit breaker 16 A (C)	66
Max. ECG no. on circuit breaker 25 A (B)	68
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	23...42 V
U-OUT (working voltage)	60 V
Nominal output current	500 / 600 / 650 / 700 mA
Output current tolerance	$\pm 7.5$ %
Default output current	700 mA
Output ripple current (100 Hz)	< 5 % <sup>7)</sup>
Output PSTLM	$\leq 1$
Output SVM	$\leq 0.4$
Nominal output power	11.5...29.4 W
Maximum output power	29.4 W
Galvanic isolation primary/secondary	SELV
Current set	DipSwitch

<sup>1)</sup> Permitted voltage range

<sup>2)</sup> At full load, 230 V, 50 Hz / see graphs

<sup>3)</sup> Full load at 230 V/50 Hz

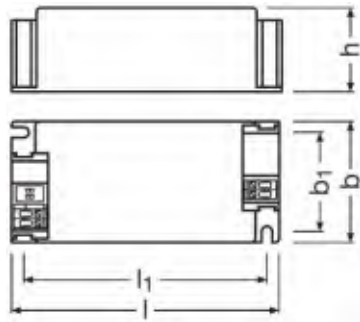
<sup>4)</sup> at 230 V, 50 Hz

<sup>5)</sup> At 230 V, Input power 33 W max.

<sup>6)</sup>  $t_{width} = 70 \mu s$  (measured at 50 %  $I_{peak}$ )

<sup>7)</sup> Ripple average at 100 Hz

## Dimensions & weight



Mounting hole spacing, length	88.0 mm
Mounting hole spacing, width	34.0 mm
Product weight	90.00 g
Cable cross-section, input side	0.5...1.5 mm <sup>2</sup> <sup>1)</sup>
Cable cross-section, output side	0.5...1.5 mm <sup>2</sup> <sup>1)</sup>
Wire preparation length, input side	7...8 mm
Wire preparation length, output side	7...8 mm
Length	97.0 mm
Width	43.0 mm
Height	29.5 mm

<sup>1)</sup> Solid/ Flexible Leads

## Colors & materials

Casing material	Plastic
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## Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	80 °C <sup>1)</sup>
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-20...80 °C
Permitted rel. humidity during operation	5...85 % <sup>2)</sup>

<sup>1)</sup> Measured on tc point indicated on the product label.

<sup>2)</sup> Non-condensing

## Lifespan

ECG lifetime	50000 h <sup>1)</sup>
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<sup>1)</sup> At maximum  $T_c = 80^\circ\text{C}$  / 10% failure rate

## Additional product data

Encapsulated	No
Predecessor EAN	4052899435636

## Capabilities

Dimmable	No
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
No-load proof	Yes
Intended for no-load operation	No
Max. cable length to lamp/LED module	2.0 m <sup>1)</sup>
Suitable for fixtures with prot. class	I / II
Type of connection, input side	Push terminal
Type of connection, output side	Push terminal
Suitable for through-wiring	No
Control interface	-
Number of channels	1

<sup>1)</sup> Output wires must be routed as close as possible to each other

## Programming

Programming device	DIPswitch
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## Certificates & standards

Approval marks – approval	CCC / CE / RCM / ENEC 05
Standards	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to CISPR 15/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547
Type of protection	IP20
Protection class	I,II

## Logistical data

Commodity code	850440839000
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## Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	09-12-2022
Primary Article Identifier	4052899617322



# GW PSLT33.PM (G3)

## DURIS® S 5

The compact, mid-power DURIS S 5 LED addresses three different luminous flux levels, using just one package and solder pad. With high efficacies, color quality and long lifetimes it is the ideal choice for indoor and outdoor General Lighting applications



## Applications

- Highbay Retail
- Architainment and hospitality
- Outdoor stability (streetlight)
- Street, Tunnel and Outdoor
- Industrial

## Features:

- Package: white SMT package, colored diffused silicone resin
- Typ. Radiation: 120° (Lambertian emitter)
- Color temperature: 3000K - 6500K
- CRI: 70 (min.), 72 (typ.), R9: -50 (min.)
- ESD: 2 kV acc. to ANSI/ESDA/JEDEC JS-001 (HBM, Class 2)
- Luminous Flux: typ. 157 lm @ 4000 K
- Luminous efficacy: typ. 171 lm/W @ 4000 K

## Maximum Ratings

Parameter	Symbol		Values
Operating Temperature	$T_{op}$	min.	-40 °C
		max.	100 °C
Storage Temperature	$T_{stg}$	min.	-40 °C
		max.	100 °C
Junction Temperature	$T_j$	max.	125 °C
Forward Current $T_j = 25\text{ °C}$	$I_F$	min.	10 mA
		max.	200 mA
Surge Current $t \leq 10\ \mu\text{s}$ ; $D = 0.005$ ; $T_j = 25\text{ °C}$	$I_{FS}$	max.	400 mA
ESD withstand voltage acc. to ANSI/ESDA/JEDEC JS-001 (HBM, Class 2)	$V_{ESD}$		2 kV

## Characteristics

$I_F = 150 \text{ mA}$ ;  $T_J = 25 \text{ °C}$

Parameter	Symbol		Values
Viewing angle at 50% $I_V$	$2\phi$	typ.	120 °
Forward Voltage <sup>2)</sup>	$V_F$	min. typ. max.	5.80 V 6.13 V 6.60 V
Color Rendering Index <sup>3)</sup>	CRI	min. typ.	70 72
Color Rendering Index (R9) <sup>3)</sup>	CRI (R9)	min.	-50
Electrical thermal resistance junction/solderpoint with efficiency $\eta_e = 48 \%$	$R_{thJS \text{ elec.}}$	typ.	7.3 K / W

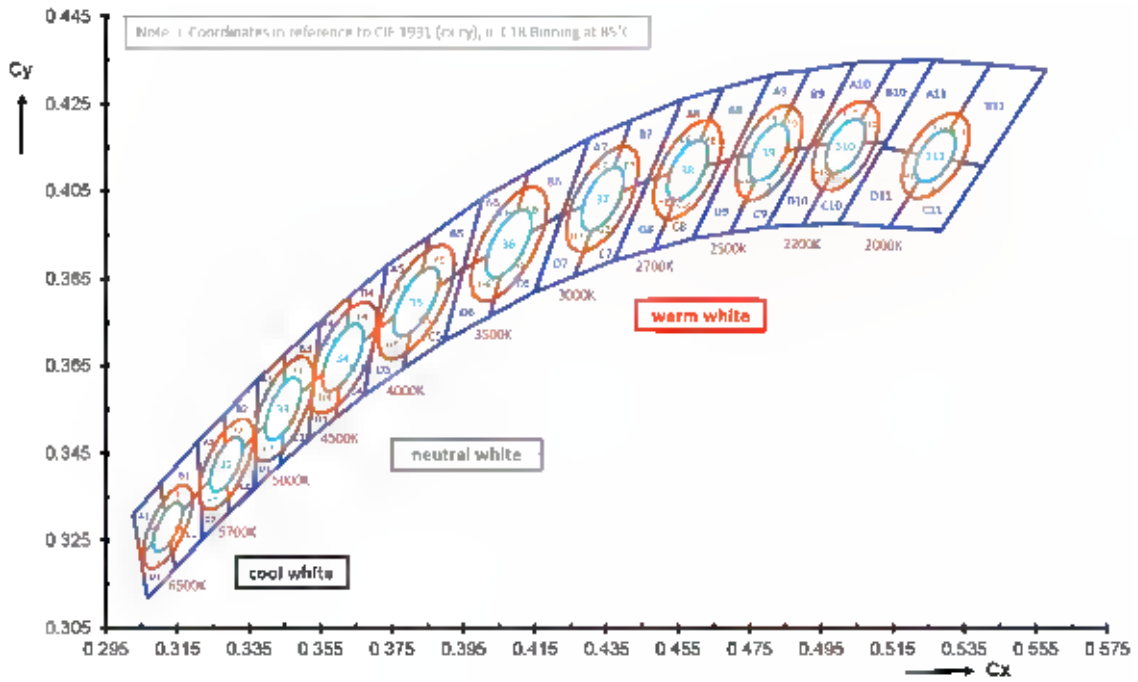
## Brightness Groups

Group	Luminous Flux <sup>1)</sup> $I_F = 150 \text{ mA}$ min. $\Phi_V$	Luminous Flux <sup>1)</sup> $I_F = 150 \text{ mA}$ max. $\Phi_V$
LY	145 lm	150 lm
LZ	150 lm	155 lm
L1	155 lm	160 lm
L2	160 lm	165 lm
L3	165 lm	170 lm
L4	170 lm	175 lm

## Forward Voltage Groups

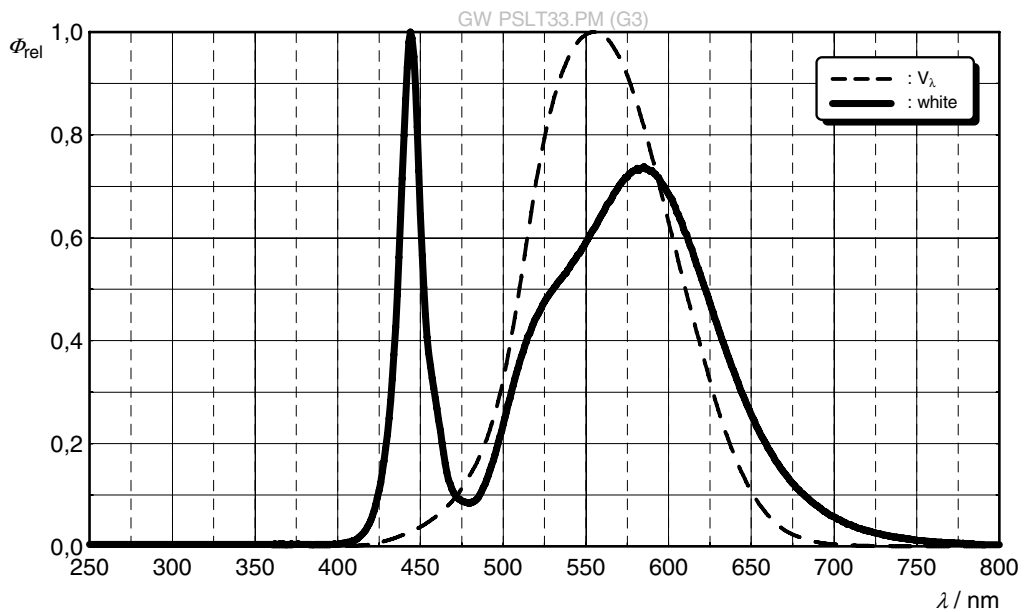
Group	Forward Voltage <sup>2)</sup> min. $V_F$	Forward Voltage <sup>2)</sup> max. $V_F$
C3	5.80 V	5.90 V
C4	5.90 V	6.00 V
D3	6.00 V	6.10 V
D4	6.10 V	6.20 V
E3	6.20 V	6.30 V
E4	6.30 V	6.40 V
F3	6.40 V	6.50 V
F4	6.50 V	6.60 V

### Chromaticity Coordinate Groups <sup>4)</sup>



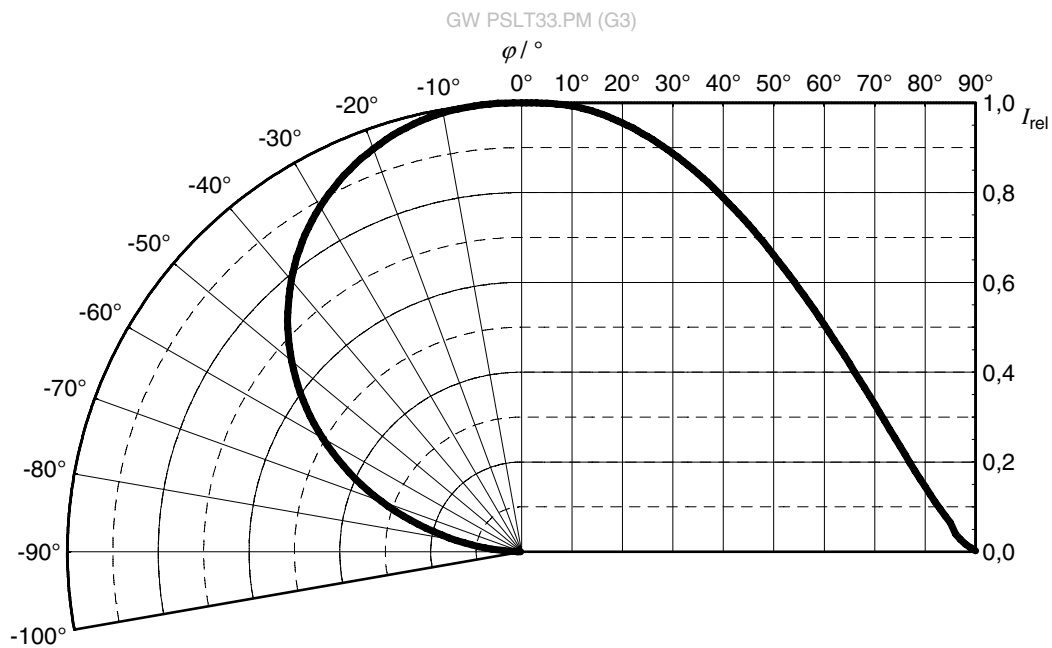
### Relative Spectral Emission <sup>5)</sup>

$\Phi_{rel} = f(\lambda)$ ;  $I_F = 150 \text{ mA}$ ;  $T_J = 25 \text{ }^\circ\text{C}$



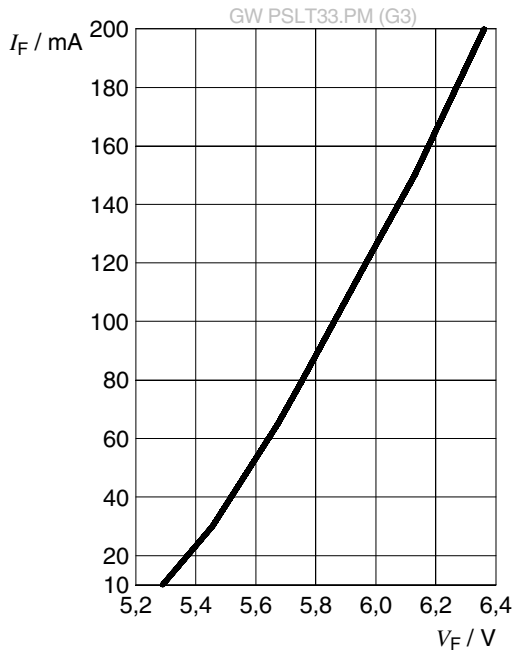
### Radiation Characteristics <sup>5)</sup>

$I_{rel} = f(\phi)$ ;  $T_J = 25 \text{ }^\circ\text{C}$



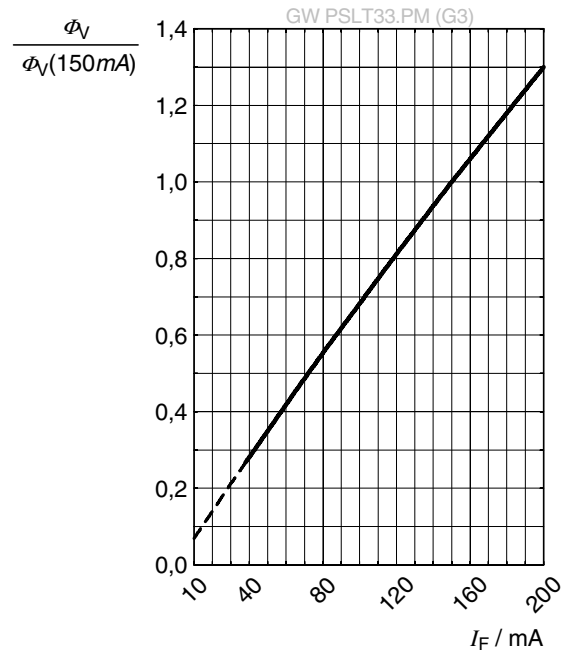
**Forward current** <sup>5)</sup>

$I_F = f(V_F); T_J = 25\text{ °C}$



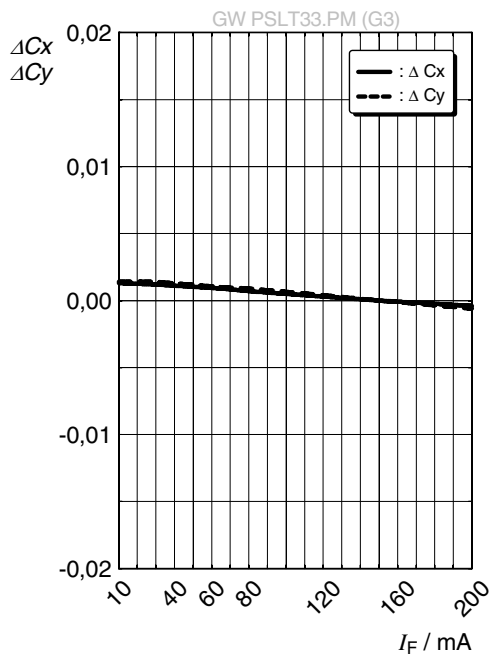
**Relative Luminous Flux** <sup>5), 6)</sup>

$\Phi_V / \Phi_V(150 mA) = f(I_F); T_J = 25\text{ °C}$



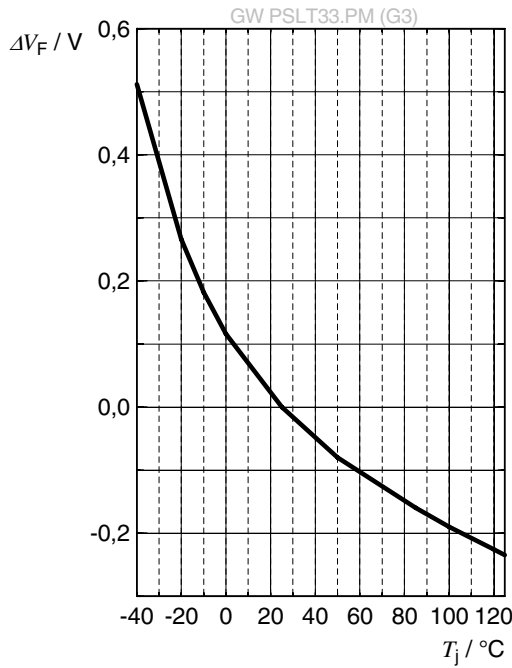
**Chromaticity Coordinate Shift** <sup>5)</sup>

$C_x, C_y = f(I_F); T_J = 25\text{ °C}$



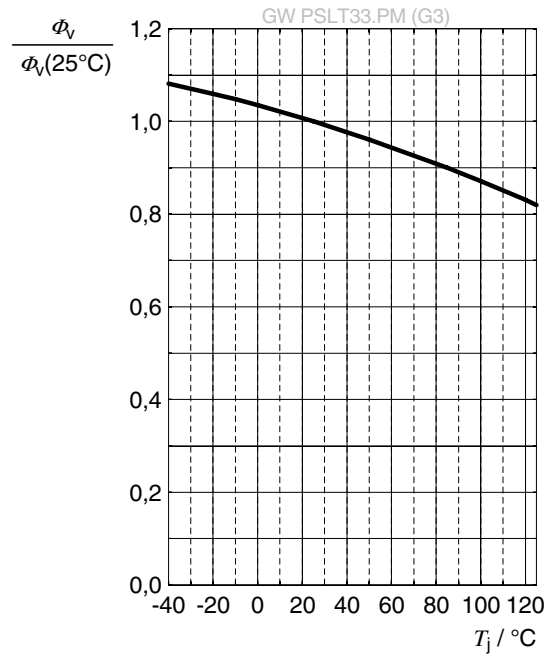
**Forward Voltage** <sup>5)</sup>

$$\Delta V_F = V_F - V_F(25\text{ }^\circ\text{C}) = f(T_j); I_F = 150\text{ mA}$$



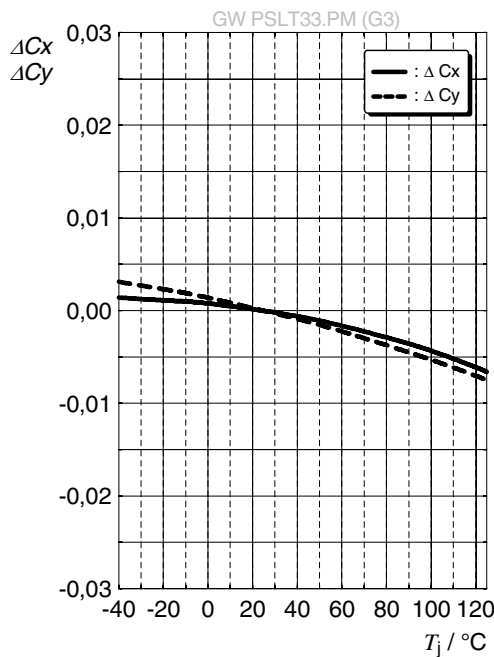
**Relative Luminous Flux** <sup>5)</sup>

$$\Phi_V / \Phi_V(25\text{ }^\circ\text{C}) = f(T_j); I_F = 150\text{ mA}$$



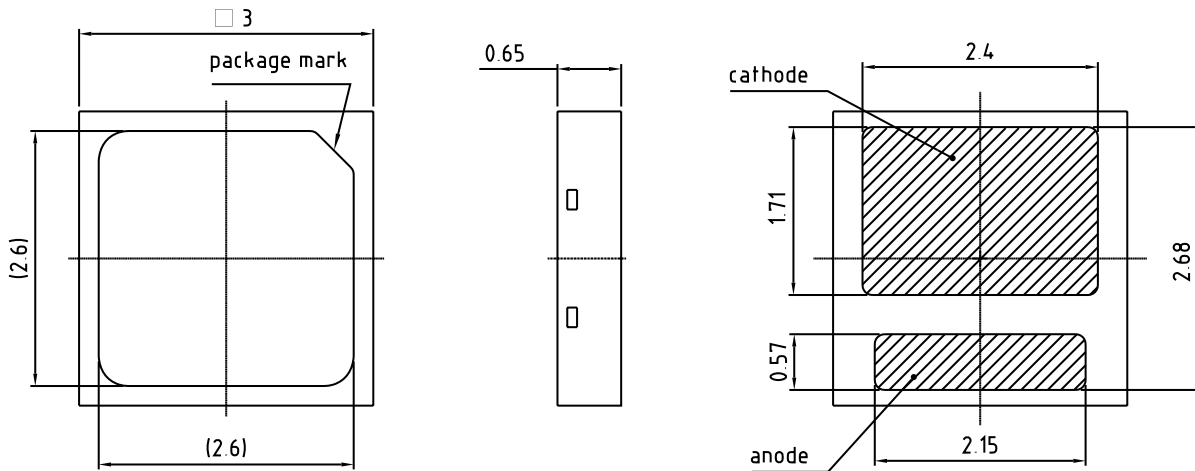
**Chromaticity Coordinate Shift** <sup>5)</sup>

$$C_x, C_y = f(T_j); I_F = 150\text{ mA}$$





## Dimensional Drawing <sup>7)</sup>



general tolerance  $\pm 0.1$

lead finish Ag 

C67062-A0321-A1..-01

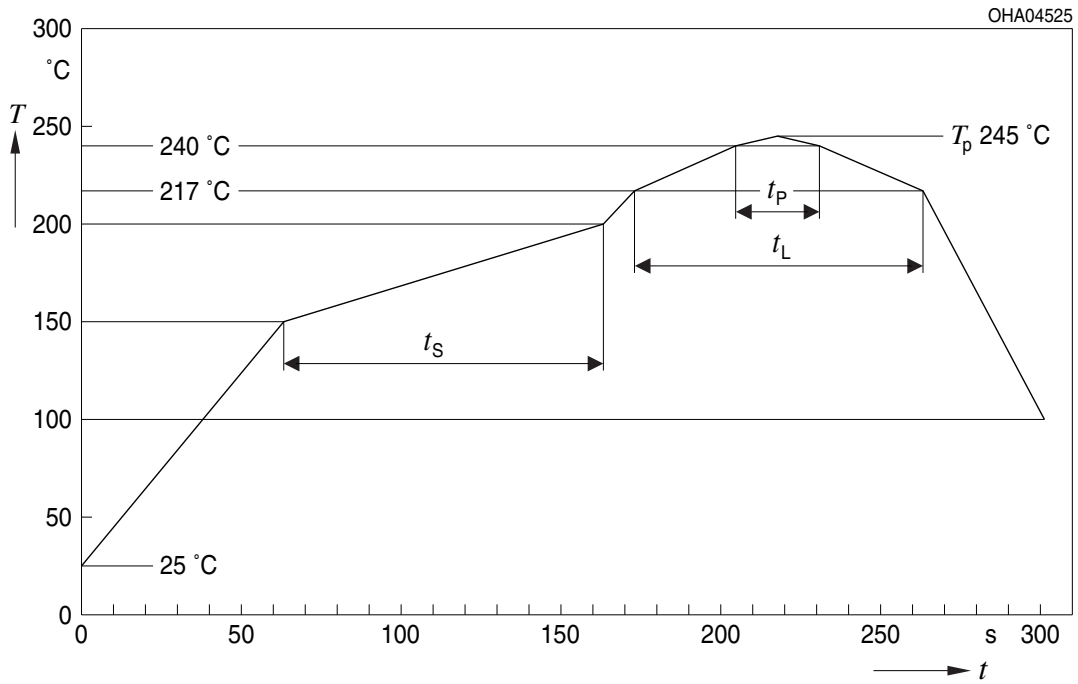
## Further Information:

**Approximate Weight:** 18.0 mg

**Package marking:** Cathode

## Reflow Soldering Profile

Product complies to MSL Level 3 acc. to JEDEC J-STD-020E



Profile Feature	Symbol	Pb-Free (SnAgCu) Assembly			Unit
		Minimum	Recommendation	Maximum	
Ramp-up rate to preheat <sup>*)</sup> 25 °C to 150 °C			2	3	K/s
Time $t_s$ $T_{Smin}$ to $T_{Smax}$	$t_s$	60	100	120	s
Ramp-up rate to peak <sup>*)</sup> $T_{Smax}$ to $T_p$			2	3	K/s
Liquidus temperature	$T_L$		217		°C
Time above liquidus temperature	$t_L$		80	100	s
Peak temperature	$T_p$		245	260	°C
Time within 5 °C of the specified peak temperature $T_p - 5\text{ K}$	$t_p$	10	20	30	s
Ramp-down rate* $T_p$ to 100 °C			3	6	K/s
Time 25 °C to $T_p$				480	s

All temperatures refer to the center of the package, measured on the top of the component

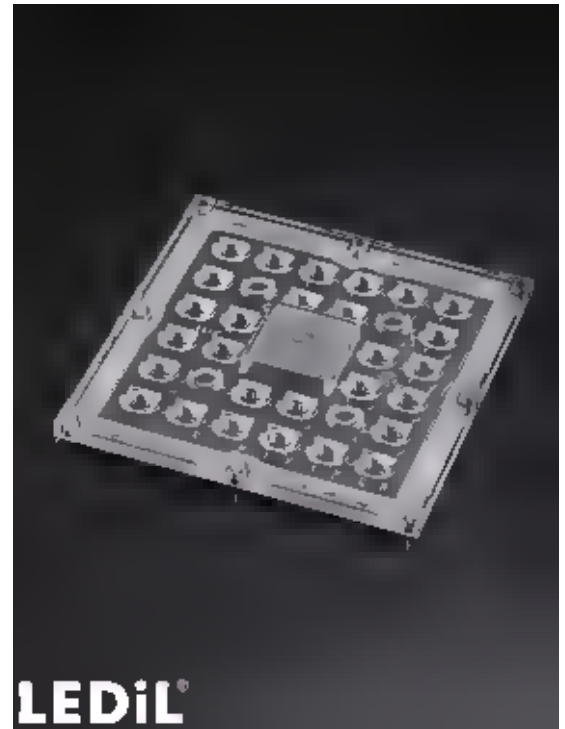
\* slope calculation  $DT/Dt$ :  $Dt$  max. 5 s; fulfillment for the whole T-range

## STRADELLA-IP-28-VSM-PC

IESNA Type V (square) beam for wide areas lighting such as car parks. Variant made from PC.

### TECHNICAL SPECIFICATIONS:

Dimensions	100.0 x 100.0 mm
Height	9.5 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes ⓘ

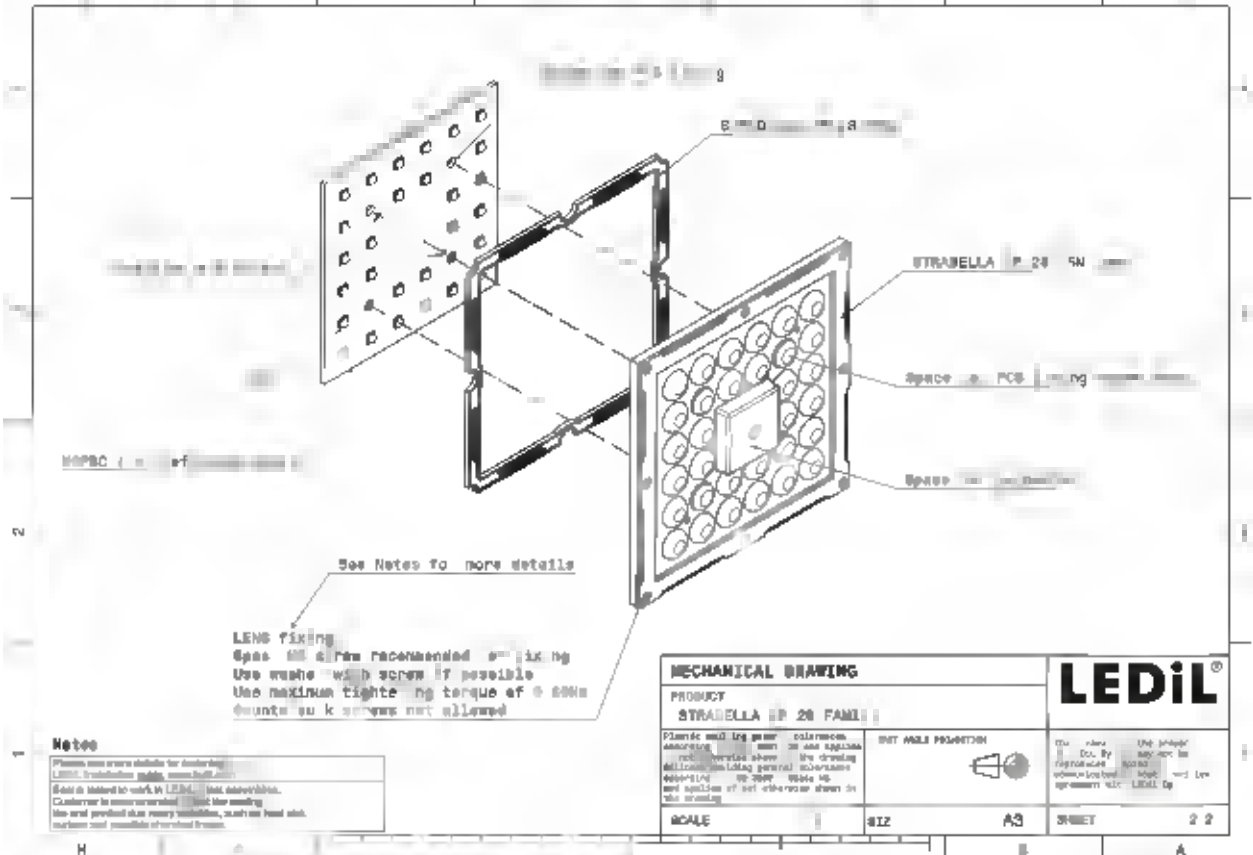
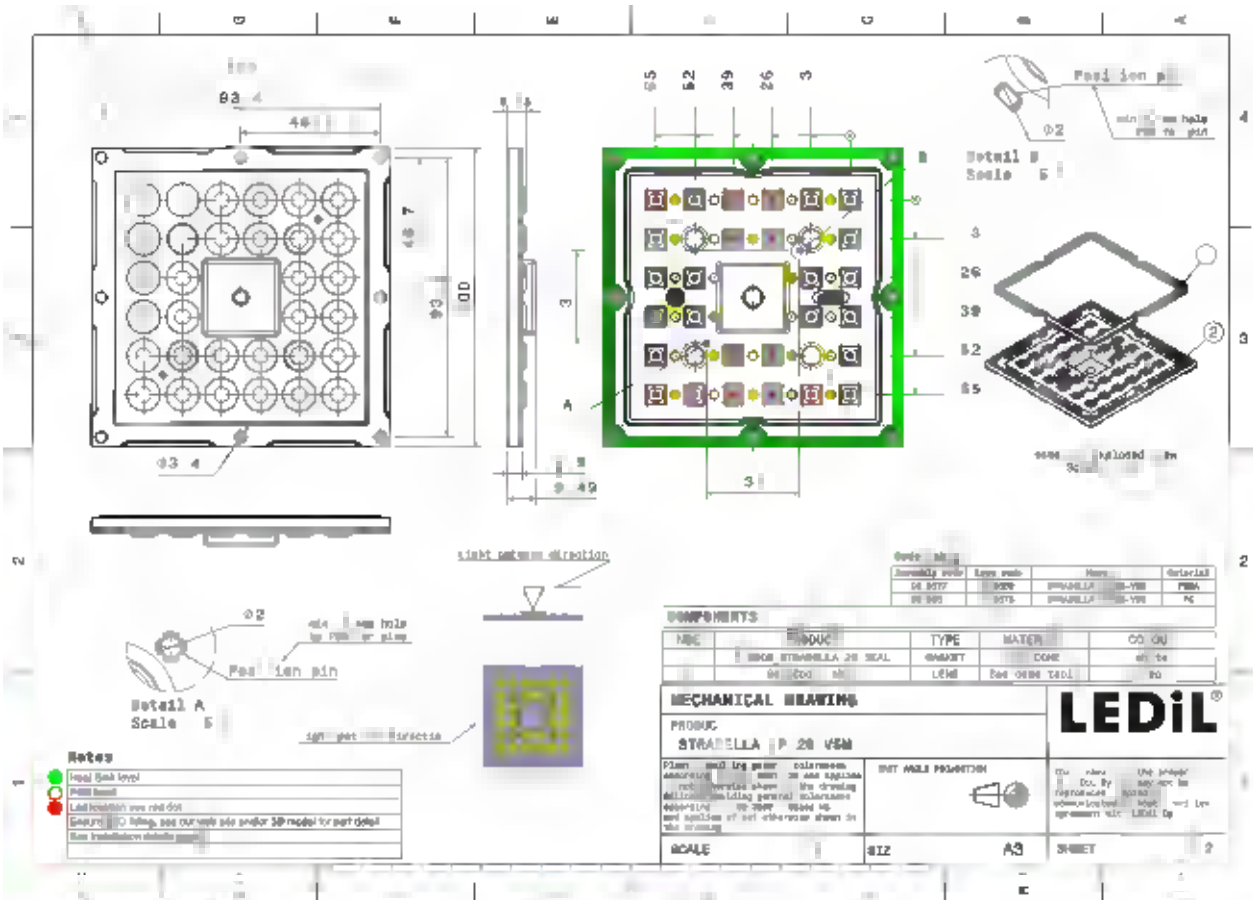


### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
STRADELLA-IP-28-VSM-PC	Multi-lens	PC	clear	
STRADELLA-28-SEAL	Seal	Silicone	white	


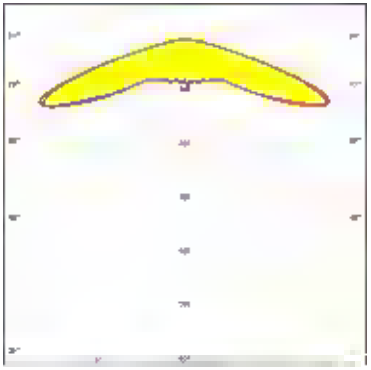

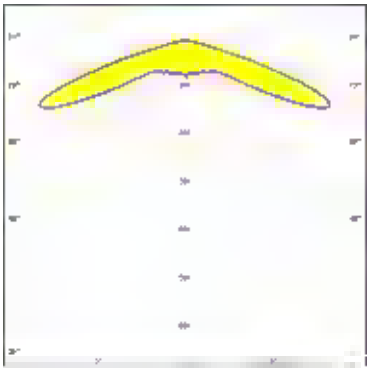

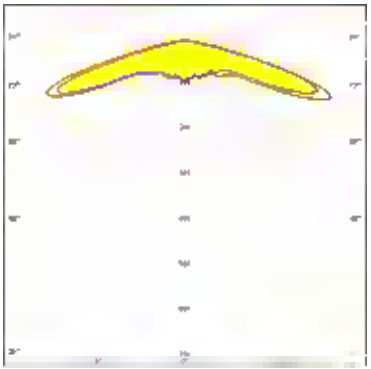

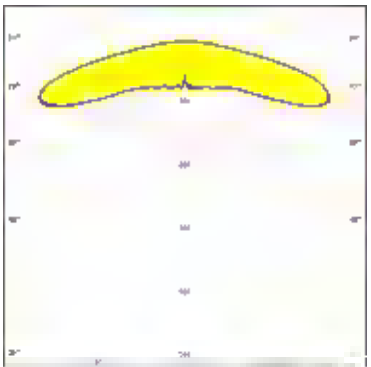
### ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
CS16581_STRADELLA-IP-28-VSM-PC	Multi-lens	156	78	78	6.0
» Box size: 476 x 273 x 247 mm					



See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### PHOTOMETRIC DATA (SIMULATED):

	<p>LED NF2x757G            FWHM / FWTM 148.0° / 163.0°            Efficiency 91 %            Peak intensity 0.4 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
	<p>LED OSCONIQ C 2424            FWHM / FWTM 144.0° / 154.0°            Efficiency 90 %            Peak intensity 0.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
	<p>LED OSCONIQ P 3030            FWHM / FWTM 147.0° / 161.0°            Efficiency 94 %            Peak intensity 0.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
	<p>LED LH351C            FWHM / FWTM 156.0° / 174.0°            Efficiency 89 %            Peak intensity 0.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	

#### GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

#### MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

#### PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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#### Ledil Optics Technology (Shenzhen) Co., Ltd.

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#### Local sales and technical support

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#### Distribution Partners

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