

### APPLICATIONS

- Street Lighting
- High and Low Bay Lighting
- Flood Lighting
- Parking Lot
- Industrial Lighting

### SPECIFICATIONS

- OSRAM OSOLON SQUARE GIANT
- From 2700 K to 6500 K CCT Range
- Long lifetime up to 100,000 hours
- Easy connection with push-in connectors
- Accurate Color Matching [SDMC]

- Calculated Parameters for OSRAM Oslon Square @85 °C

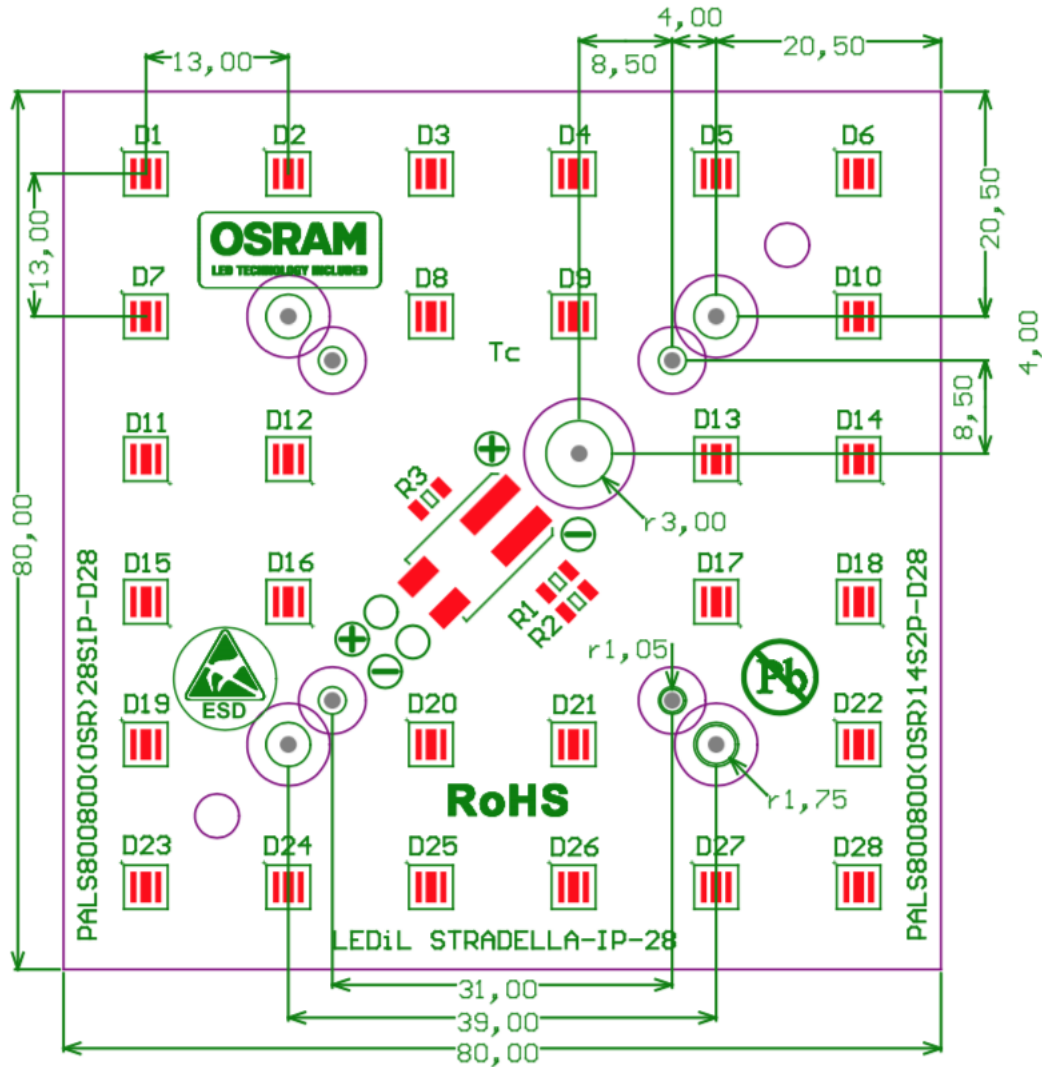
❖ Color Rendering Index : 70 (typ. 72)

PALS8080(OSR)28S1P-D28							
LED Brand		Osram				Electrical Connection	
LED		Oslon Square Giant - GW CSSRM2.PM Max 1.8 A – 2,70 Volt (K2) @700mA N2N6 Lumen Bin - K2M2 Voltage Bin					
PCB Properties		Aluminium 1 Oz Copper 1.6 mm Thickness 1 W/mK Thermal Conductivity IPC Class 2, Class 3 Hasl Lead Free				LED Number	28
Color Rendering Index - CRI2		min 70 (typ. 72)				Parallel	1
						Serial	28
Color Temperature - CCT		3000 K - 6500 K					
Viewing Angle		120°					
Electrical Thermal Resistance		1.8 K/Watt (with efficiency $\eta_e = 41\%$ )					
Max Drive Current of Led Module		1800 mA					
Led Junction Temperature		150 °C					
SMD Connector on Led Module		Wago 2060-452 Series					
Drive Current [mA]	Voltage [V]	Power [W]	CCT [K] - Lumen Bin	Flux [lm]		Efficacy [lm/Watt]	
				Min	Max	Min	Max
700	75,6	52,92	3000 - N2N4	8120	8680	153,4	164,0
			4000 - N4N6	8400	9520	158,7	179,9
			5000 - N4N6	8400	9520	158,7	179,9
			6500 - N4N6	8400	9520	158,7	179,9
1050	77,6	81,48	3000 - N2N4	11368	12152	139,5	149,1
			4000 - N4N6	11760	13328	144,3	163,6
			5000 - N4N6	11760	13328	144,3	163,6
			6500 - N4N6	11760	13328	144,3	163,6
1400	78,97	110,55	3000 - N2N4	14616	15624	132,2	141,3
			4000 - N4N6	15120	17136	136,8	155,0
			5000 - N4N6	15120	17136	136,8	155,0
			6500 - N4N6	15120	17136	136,8	155,0

❖ Color Rendering Index : 70 (typ. 70)

PALS8080(OSR)14S2P-D28							
LED Brand			Osram			Electrical Connection	
LED			Oslon Square Giant - GW CSSRM2.PM Max 1.8 A – 2,70 Volt (K2) @700mA N2N6 Lumen Bin - K2M2 Voltage Bin				
PCB Properties			Aluminium , 1 Oz Copper 1.6 mm Thickness 1 W/mK Thermal Conductivity IPC Class 2, Class 3 , Hasl Lead Free			LED Number	28
Color Rendering Index - CRI2			min 70 (typ. 72)			Parallel	2
						Serial	14
Color Temperature - CCT			3000 K - 6500 K				
Viewing Angle			120°				
Electrical Thermal Resistance			1.8 K/Watt (with efficiency $\eta_e = 41\%$ )				
Max Drive Current of Led Module			1800 mA				
Led Junction Temperature			150 °C				
SMD Connector on Led Module			Wago 2060-452 Series				
Drive Current [mA]	Voltage [V]	Power [W]	CCT [K] - Lumen Bin	Flux [lm]		Efficacy [lm/Watt]	
				Min	Max	Min	Max
1050	37,1	38,95	3000 - N2N4	6252	6684	160,5	171,6
			4000 - N4N6	6468	7330	166,1	188,2
			5000 - N4N6	6468	7330	166,1	188,2
			6500 - N4N6	6468	7330	166,1	188,2
1400	37,8	52,92	3000 - N2N4	8120	8680	153,4	164,0
			4000 - N4N6	8400	9520	158,7	179,9
			5000 - N4N6	8400	9520	158,7	179,9
			6500 - N4N6	8400	9520	158,7	179,9
2100	38,8	81,48	3000 - N2N4	11368	12152	139,5	149,1
			4000 - N4N6	11760	13328	144,3	163,6
			5000 - N4N6	11760	13328	144,3	163,6
			6500 - N4N6	11760	13328	144,3	163,6
2800	39,48	110,55	3000 - N2N4	14616	15624	132,2	141,3
			4000 - N4N6	15120	17136	136,8	155,0
			5000 - N4N6	15120	17136	136,8	155,0
			6500 - N4N6	15120	17136	136,8	155,0

- Mechanical Drawing



- All dimension in mm
- Led Modules can be redesign according to customer demands, and customer logos can be added on the product.
- Push-in Connectors accept 0.2 – 0.75 mm<sup>2</sup> solid or stranded wire.

### PALS8080(OSR)28S1P/14S2P-D28 MODÜLÜNE UYGUN LEDİL STRADELLA-IP-28 LENSLER

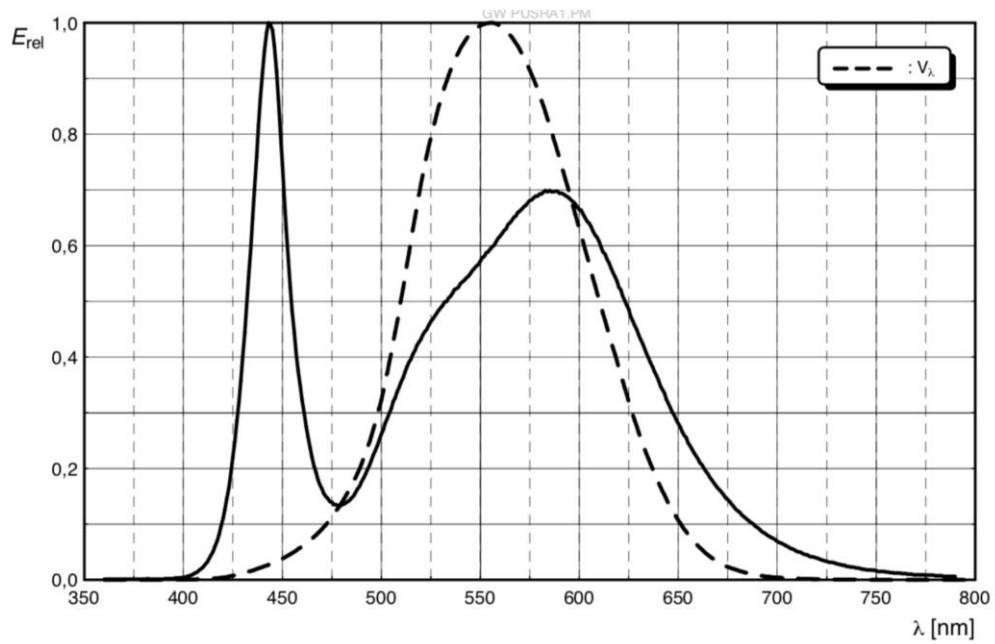


#### Product Codes:

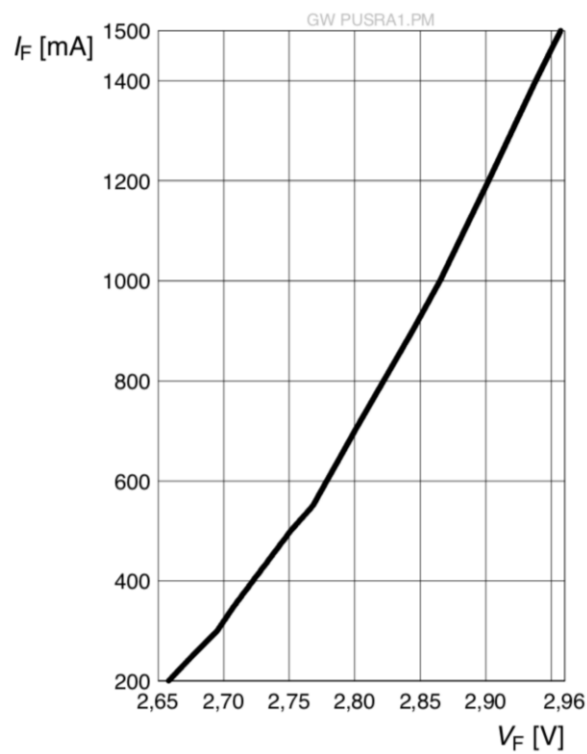
- CS15911\_STRADELLA-IP-28-T2-PC
- CS16034\_STRADELLA-IP-28-T2-PMMA
- CS16102\_STRADELLA-IP-28-T3
- CS16104\_STRADELLA-IP-28-T3-PC
- CS16322\_STRADELLA-IP-28-HB-S
- CS16323\_STRADELLA-IP-28-HB-M
- CS16324\_STRADELLA-IP-28-HB-W
- CS16328\_STRADELLA-IP-28-HB-S-PC
- CS16329\_STRADELLA-IP-28-HB-M-PC
- CS16330\_STRADELLA-IP-28-HB-W-PC
- CS16575\_STRADELLA-IP-28-T1-A
- CS16577\_STRADELLA-IP-28-VSM
- CS16579\_STRADELLA-IP-28-T1-A-PC
- CS16581\_STRADELLA-IP-28-VSM-PC
- CS16690\_STRADELLA-IP-28-SCL
- CS16691\_STRADA-IP-28-SCL-PC

### SPECIFICATIONS FOR LED CHIP ON THE MODULE

#### 1- Relative Spectral Emission , $V(\lambda)$ = Standart Eye Response Curve

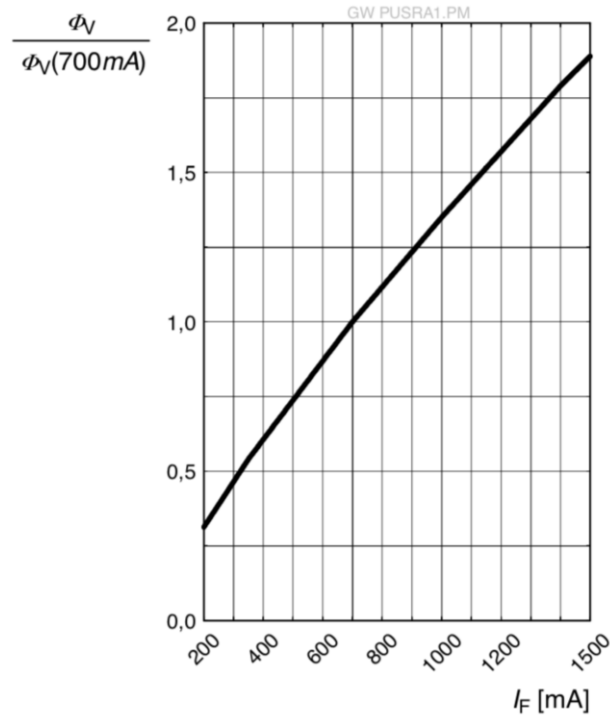


#### 2- Electrical Characteristic

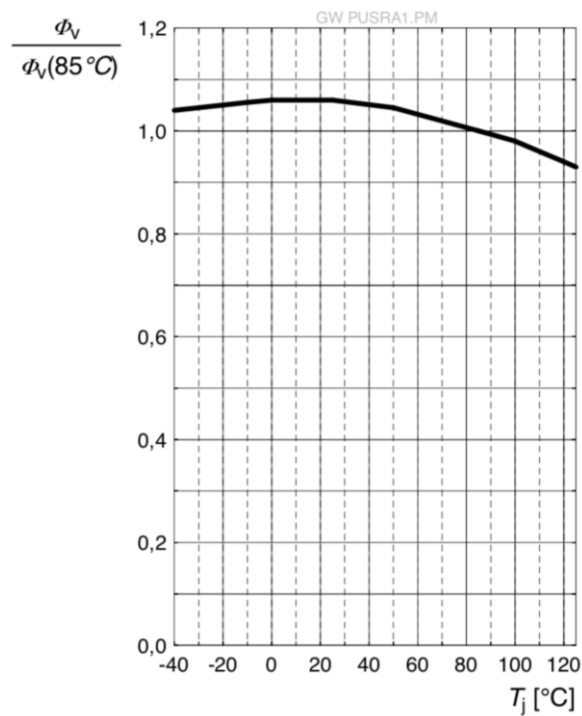


### 3- Relative Luminous Flux vs Current

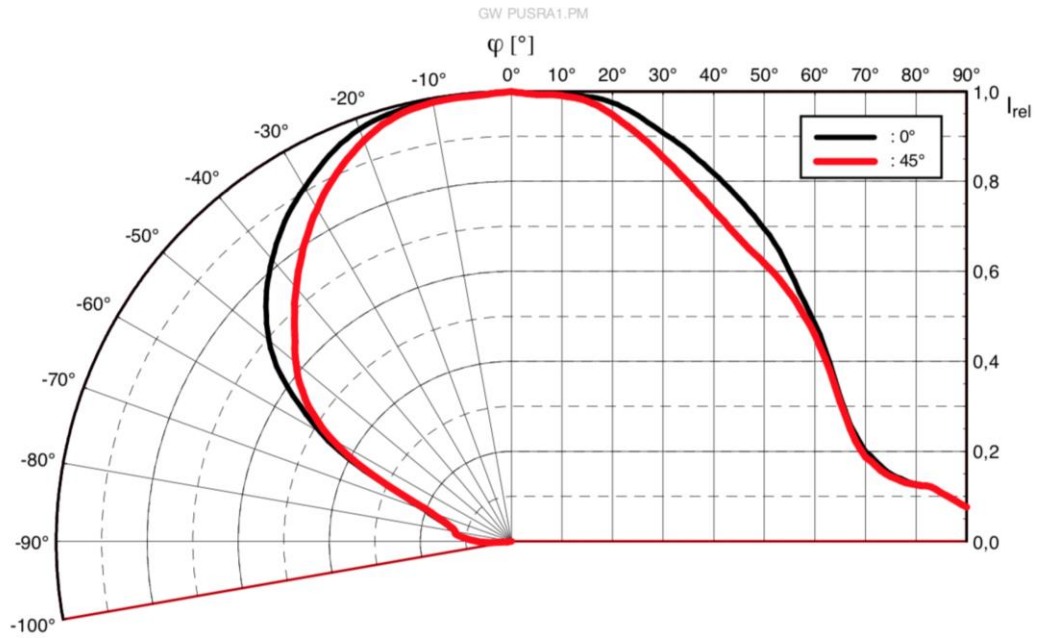
$$\Phi_V / \Phi_V(700 \text{ mA}) = f(I_F); T_J = 85 \text{ }^\circ\text{C}$$



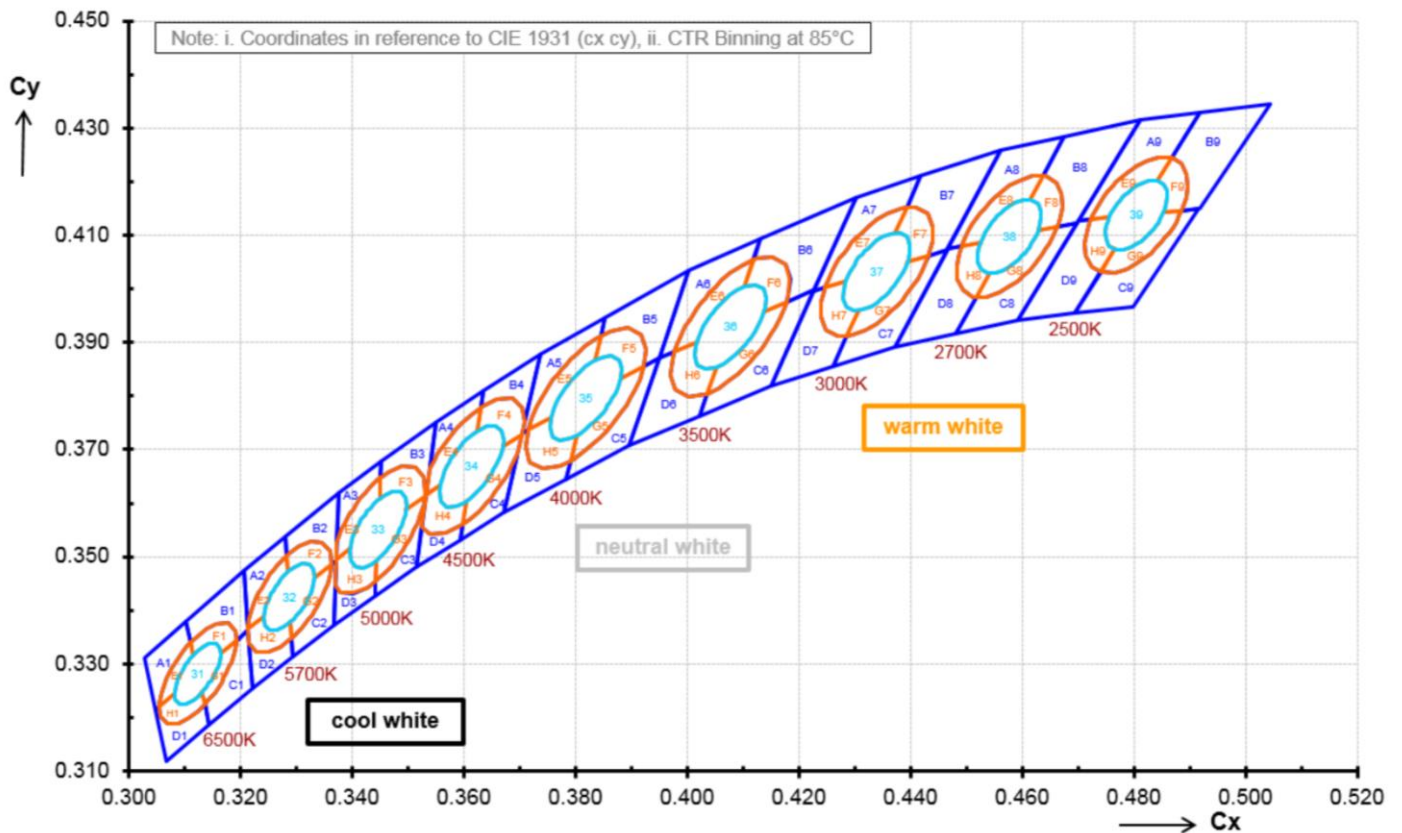
### 4- Relative Luminous Flux vs. Temperature



### 5- Radiation Characteristic



### 6- Warm and Neutral White Kits Plotted on Ansi Standart Chromaticity Regions





### Notes

- All plotted figures in led module specifications are collected from the datasheet of Osram Oslon Square (GW CSSRM2.PM) provided by OSRAM via [https://www.osram.com/os/products/led-general-lighting/product\\_portfolio\\_for\\_general\\_lighting.jsp](https://www.osram.com/os/products/led-general-lighting/product_portfolio_for_general_lighting.jsp)
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