

Electrical Specifications (2.5")

Driver type	Constant Current
Drive Current	500mA Nominal
Total Board Power	7.3W Nominal
Life	50,000 Hrs, 70% lumen maint. @ Ta max 40 °C, used as specified
Max Junction Temp:	90 °C
Max Test Point Temp:	85 °C
Operating Temp:	-40 °C to +80 °C Ambient
Storage Temp:	-40 °C to +80 °C
Viewing Angle (FWHM):	120° Lamberian distribution
LED CRI:	80 typical



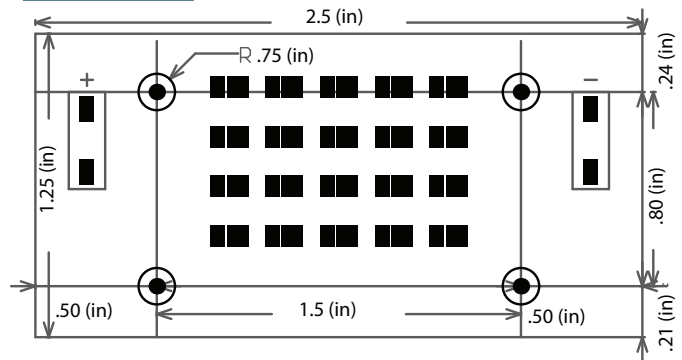
2.5 Inch Rectangle - Forward Voltage: 14.65V

Model	Color Temp (K)	Total Current (mA)	Power (W)	Lumens	Efficacy (Lm/W)
LE20C/2780S/2.5	2700	500	7.3	1015	138.5
LE20C/2780S/2.5	3000	500	7.3	1046	142.7
LE20C/2780S/2.5	3500	500	7.3	1061	144.7
LE20C/2780S/2.5	4000	500	7.3	1099	149.9
LE20C/2780S/2.5	5000	500	7.3	1114	152

Overview:

- Constant Current DC Arrays:
2.5 Rectangle - 5 LED Series x4 Parallel Strings - Samsung
- Designed for easy use in standard luminaires
- Aluminum MCPCB provides exceptional thermal performance
- Tight LED pitch eliminates pixelization
- Color: 1/4 ANSI Binning, 3 Step MacAdam Ellipse
- Suggested Applications: Surface-mount, Recessed or Suspended lighting, Troffers, Troffer Retrofits, Linear Recessed and Flush-mount
- UL Recognized Component
- Engineered by: AC Electronics

Dimensions:



Connectivity:

For Poke-In Connectors use #26-22 AWG stranded or solid wire WAGO Connector, Part # 2059-301/998-403

CIE Chromaticity Coordinates:

2700k

3 Step Macadams Ellipse

X	Y
0.4576	0.4183
0.4698	0.4212
0.4478	0.3999
0.4591	0.4025

3000k

3 Step Macadams Ellipse

X	Y
0.4325	0.4101
0.4452	0.4452
0.4244	0.4244
0.4244	0.3965

3500k

3 Step Macadams Ellipse

X	Y
0.4045	0.3975
0.4189	0.4044
0.3989	0.3819
0.412	0.3875

4000k

3 Step Macadams Ellipse

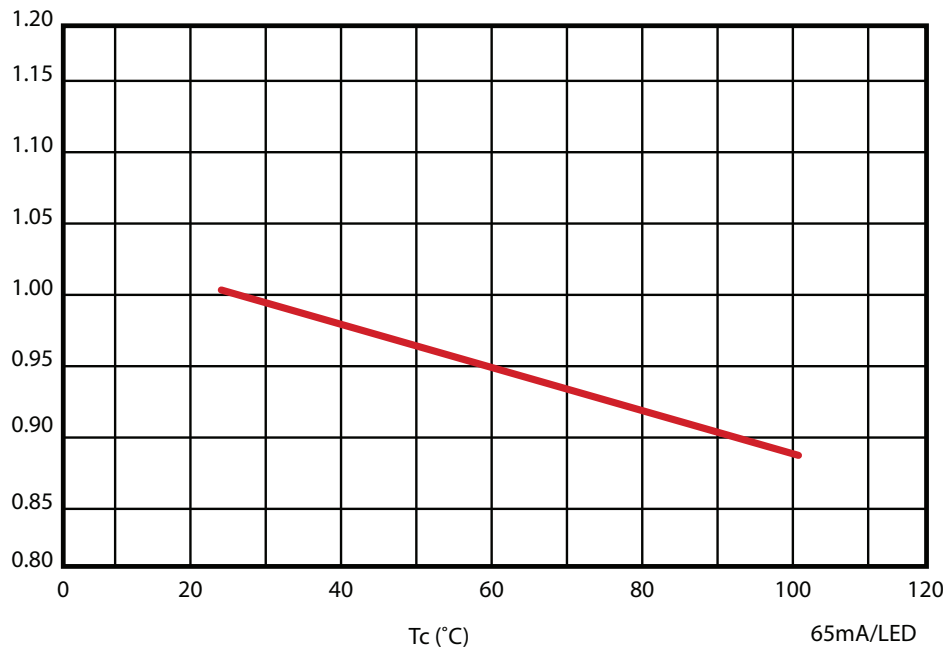
X	Y
0.3783	0.3836
0.3909	0.3906
0.3747	0.3687
0.3864	0.3757

5000k

3 Step Macadams Ellipse

X	Y
0.3408	0.3461
0.3485	0.3520
0.3416	0.3585
0.3499	0.3644

Relative Luminous Flux / Tc Temperature:



Mounting Notes:

The LED assembly is supplied with mounting holes, per dimensional drawing. It is important to mount the board in such a way as to maintain the Tc point below the max. The steady state thermals in application will dictate if the board needs to be mounted directly to metallic housing and/or include a thermal pad. For example fully enclosed recessed fixture will require better thermal mounting than an open air pendant.

Thermal Application Notes:

These boards require additional heat sinking to run above 45°C ambient at nominal specifications. Heat sink also required when operated above specified drive currents.

Warranty:

AC Electronics, (ACE), warrants to the purchaser that each LED module will be free from defects in material or workmanship for a period of 5 years from the date of manufacture when operated at a temperature of less than or equal to the specified "Board Temperature for Life Rating" in the specification when properly installed with an appropriate heat sink and under normal conditions of use. This warranty is also qualified by any specific condition as identified in the spec sheet such as "when used with a recommended AC Electronics Driver."