

Electrical Specifications (3")

Driver type	Constant Current
Drive Current	350 mA Nominal
Total Board Power	60 W Nominal
Life	50,000 Hrs, 70% lumen maint. @ Ta max 40°C, used as specified
Max Junction Temp:	90 °C
Max Test Point Temp:	80 °C
Operating Temp:	-40 °C to +60 °C Ambient
Storage Temp:	-40 °C to +80 °C
Viewing Angle (FWHM):	120° Lamberain distribution
LED CRI:	80

3.0 Inch Round - Forward Voltage: 17.16 V

Model	Color Temp (K)	Total Current (mA)	Power (W)	Lumens	Efficacy (Lm/W)
LE24C/2780S/3R	2700	350	6.0	893	148.4
LE24C/3080S/3R	3000	350	6.0	919	152.9
LE24C/3580S/3R	3500	350	6.0	933	155.1
LE24C/4080S/3R	4000	350	6.0	966	160.7
LE24C/5080S/3R	5000	350	6.0	980	162.9

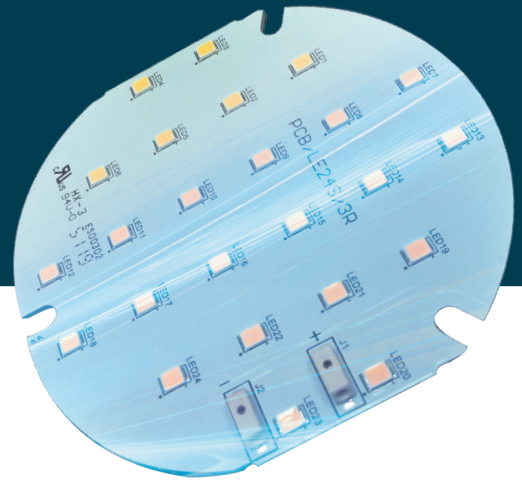
Overview:

- Constant Current DC Arrays:
3.0" Round - 6 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

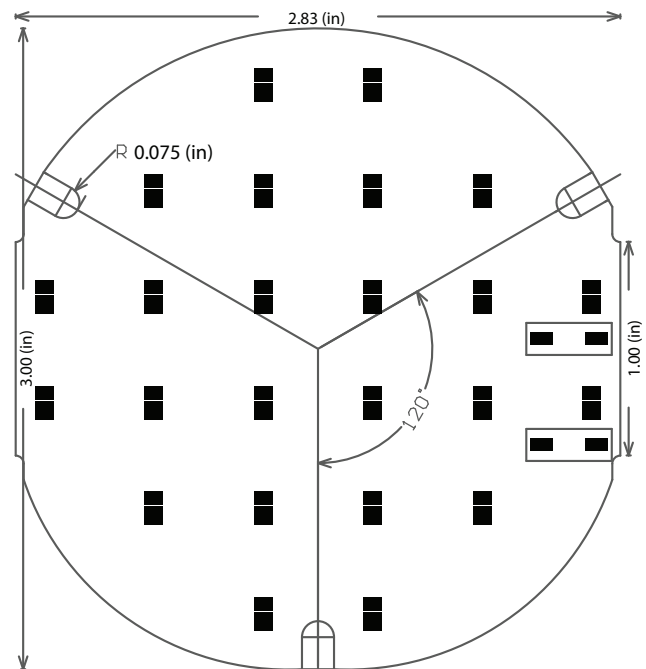
Connectivity:

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

3" Round LED Light Engines



Dimensions:



Electrical Specifications (9")

Driver type	Constant Current
Drive Current	2800 mA Nominal
Total Board Power	81.14 W Nominal
Life	50,000 Hrs, 70% lumen maint. @ Ta max 40 °C, used as specified
Max Junction Temp:	90 °C
Max Test Point Temp:	79 °C
Operating Temp:	-40 °C to +80 °C Ambient
Storage Temp:	-40 °C to +80 °C
Viewing Angle (FWHM):	120° Lamberain distribution
LED CRI:	80 typical

9.0 Inch Round - Forward Voltage: 29.00 V

Model	Color Temp (K)	Total Current (mA)	Power (W)	Lumens	Efficacy (Lm/W)
LE24C/2780S/3R	2700	350	6.0	893	148.4
LE24C/3080S/3R	3000	350	6.0	919	152.9
LE24C/3580S/3R	3500	350	6.0	933	155.1
LE24C/4080S/3R	4000	350	6.0	966	160.7
LE24C/5080S/3R	5000	350	6.0	980	162.9

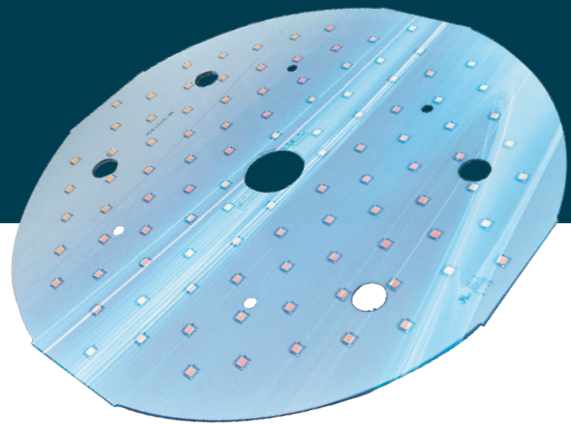
Overview:

- Constant Current DC Arrays:
9.0" Round - 5 LED Series x20 Parallel Strings - Nichia
- 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

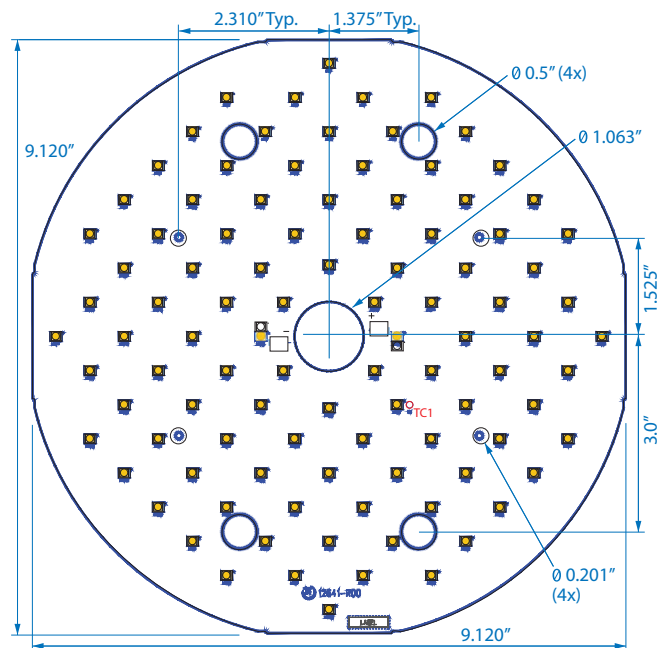
Connectivity:

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

9" Round LED Light Engines



Dimensions:



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	0.4146
0.4244	0.3923
0.4362	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

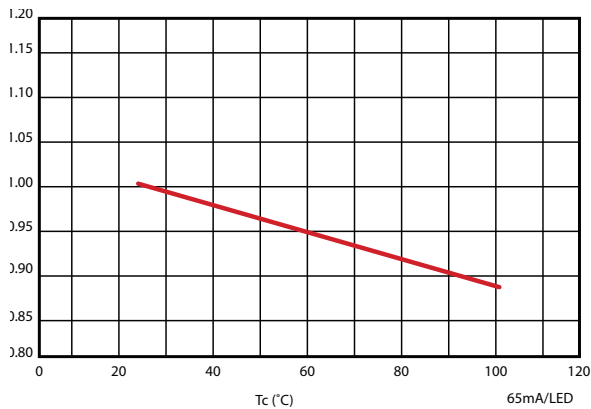
X	Y
0.3783	0.3836
0.3909	0.3906
0.3747	0.3687
0.3864	0.3757

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:



Maximum Run Lengths:

The max number of boards wired in a chain (parallel or series) is limited by the max current rating of the first board wired to the driver. The sum of the board currents in the chain funnels through the first board, when wired from one end. Multiple chains can connect directly to the power supply in parallel.

Improved wiring design for each parallel ladder chain should specify the positive and negative power connections at opposite ends of the chain to equalize current through each LED. Series ladder chains are naturally wired this way. Wiring from one end of the chain will create an uneven voltage across each section. The longer the ladder chain, the more important this becomes. The number of sections or chains wired in parallel directly from the driver is only limited by the supply wire size or driver capacity.

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.

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.

Static Sensitive Device:

Handle only at static-safe work stations.

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."