AC ELECTRONICS™
ACELEDS.COM

Sensor Link™ With Microwave Technology

PROGRAMMABLE, DIGITAL, WIDE-RANGE AJUSTABLE CURRENT & DIMMING PRE-SET DIMMING REMOTE HIGH FREQUENCY OCCUPANCY SENSOR

Constant Current LED Driver

Model Number AC50CD1.4AP4G

Input Voltage: 120-277V

Input Frequency: 50/60Hz

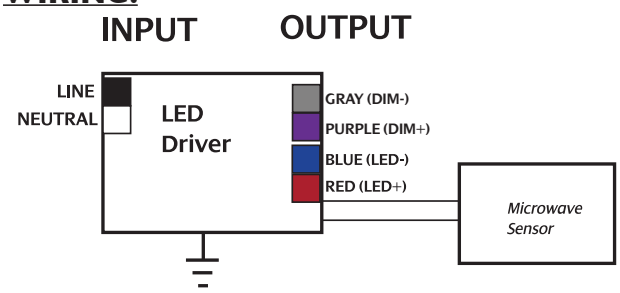
Side Mount/Leads Options

Dim-to-1% (Default)

ELECTRICAL SPECIFICATIONS:

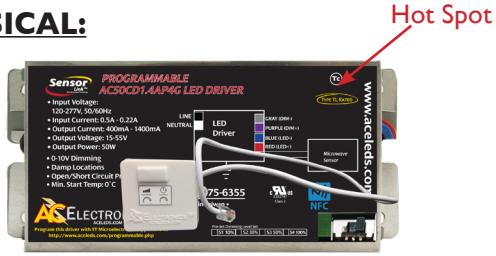
Output Power	Input Power	Input Current	Min PF (full load)	Max THD (full load)	Output Voltage	Output Current	T case Max	Min Starting Temp	IP Rating	Efficiency Up To	Dimming Protocol	Dimming Range
50W	60W	0.5A@120V 0.22A@277V	>0.90	<20	15-55V	400mA-1400mA	90°C	-40°C	64	85	0 to 10V	1 to 100%

WIRING:



Lead Lengths					
Black	5.9"	Blue	5.9"	Purple	7.1"
White	5.9"	Red	5.9"	Gray	7.1"

PHYSICAL:



Dimensions	Length	Width	Height
AC50CD1.4AP4G	6.5"	2.9"	1.18"

Tref Max Value (°C)	Tc/Tref Value (°C)	Ta/Value (°C)
90	58.2	40

SAFETY:

- UL and cUL certified
- Class 2
- Class A sound rating
- Overload Protection
- Open/Short Circuit Protection
- LED driver has a life expectancy of 50,000 hours at Tcase of ≤75°C
- LED driver has a life expectancy of 100,000 hours at Tcase of ≤65°C
- Warranty: 5 yrs based on max case temp of <75°C; 3 yrs based on max case temp of 90°C*
- Input/Output Isolation
- FCC Title 47 CFR Part 15
- Surge Protection (1 Kv)

- Programmable Output Current
- Conventional 0-10V Dimming Driver When Sensor Not Connected
- Connecting Sensor Provides:
  - o Switch to Full Brightness When Area Occupied
  - o Switch to Pre-Selected Dimming Level When Area Not Occupied
- S1: 50% Dimming
- S2: 30% Dimming
- S3: 10% Dimming
- S4: 100%(Off) Enables External Dimmer

- Dim-To-Off Programming Option
  - o Inactive: Code = 78 05 00 01 (Default)
  - o Active: Code = 78 05 01 01

INSTALLATION:

- IP 64
- Max Remote installation distance is 18 ft
- LED driver cases should be grounded
- LED drivers shall be installed inside electrical enclosures
- 18 AWG 600V/105C tinned stranded copper lead-wires are required for installation

c UL us

*AC Electronics/AC LED Power Designs warrants to the purchaser that each LED Driver will be free from defects in material or workmanship for a period of 5 years when operated at max case temp of up to 75°C; 3 years from date of manufacture when operated at a max case temp of up to 90°C when properly installed and under normal conditions of use. See aceleds.com for complete warranty policy.

3401 Avenue D, Arlington, TX 76011 • 800-375-6355 • www.aceleds.com

Data is based upon tests performed by AC Electronics in a controlled environment and representative performance. Actual performance can vary depending on operating conditions. Specifications are subject to change without notice. All specifications are nominal unless otherwise noted.

RoHS COMPLIANT LEAD-FREE

Revised 12/11/2017

AC ELECTRONICS™
ACELEDS.COM

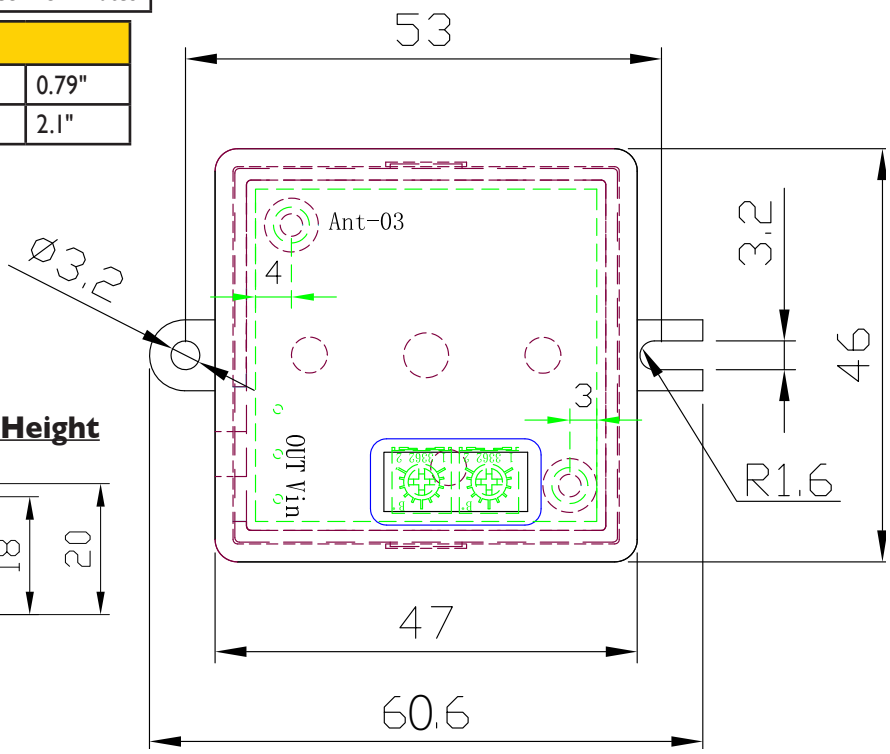
AC50CD1.4AP4G

Microwave Occupancy Sensor Electrical Specifications

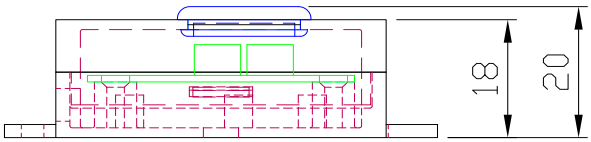
Operating Temperature	Sensitivity	Time Delay
-20~+50°C	6m Max	1 sec - 15 minutes

Dimensions			
Length	2.38"	Height	0.79"
Width	1.81"	Mounting Length	2.1"

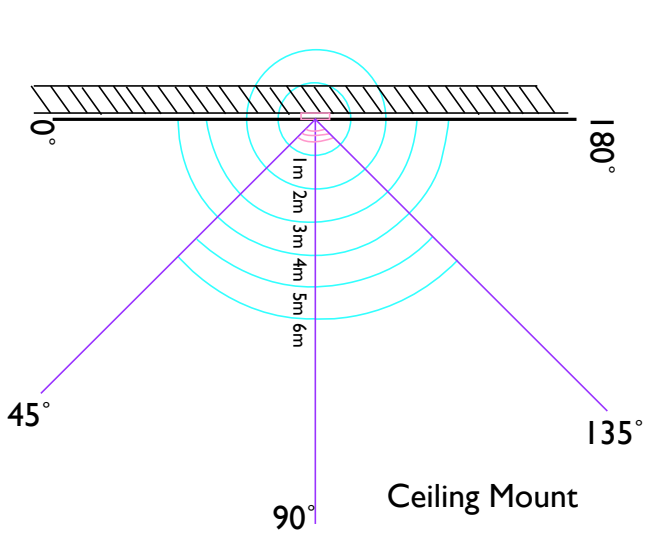
Enclosure - Microwave Sensor Dimensions on diagram in mm



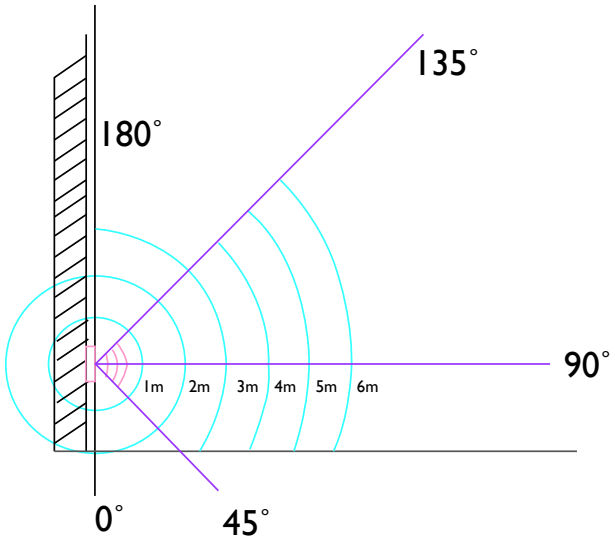
Enclosure - Microwave Sensor - Height



Sensor Coverage Area



Ceiling Mount



Wall Mount

3401 Avenue D, Arlington, TX 76011 • 800-375-6355 • www.aceleds.com

Revised 12/11/2017

AC ELECTRONICS™
ACELEDS.COM

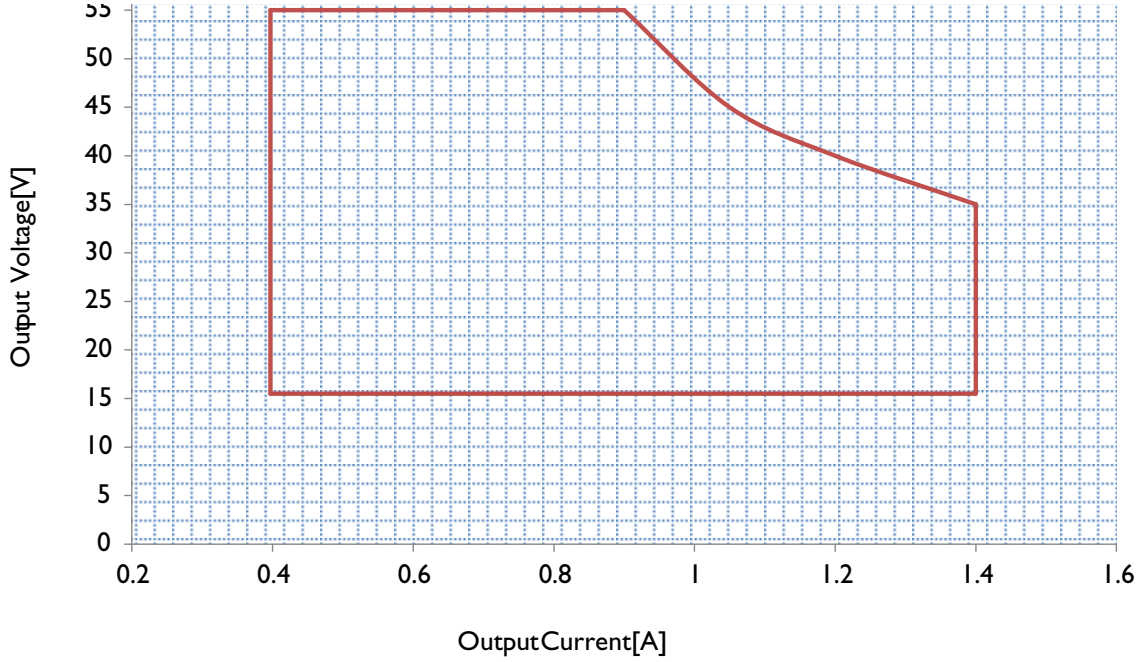
AC50CD1.4AP4G

Performance Charateristics

CONTROL THE IOUT WITH THE PROGRAMMING WAND. DOWNLOAD SOFTWARE FROM http://www.aceleds.com/programmable.php

IOUT/VOUT CURVE

Use with NFC-V Reader App Available Free at Google App Store



Phone Instructions

First you must have a Android device (phone/tablet) with NFC-V app downloaded.
Open App; then place the device on top of the driver matching up sensors untile it syncs up
Basic format
Write
Insert the appropriate code from chart above
Write
Successfully written will appear

To Check: Read
Read
Shows you the Block - 00 00 00 00
This is where the code you input appears

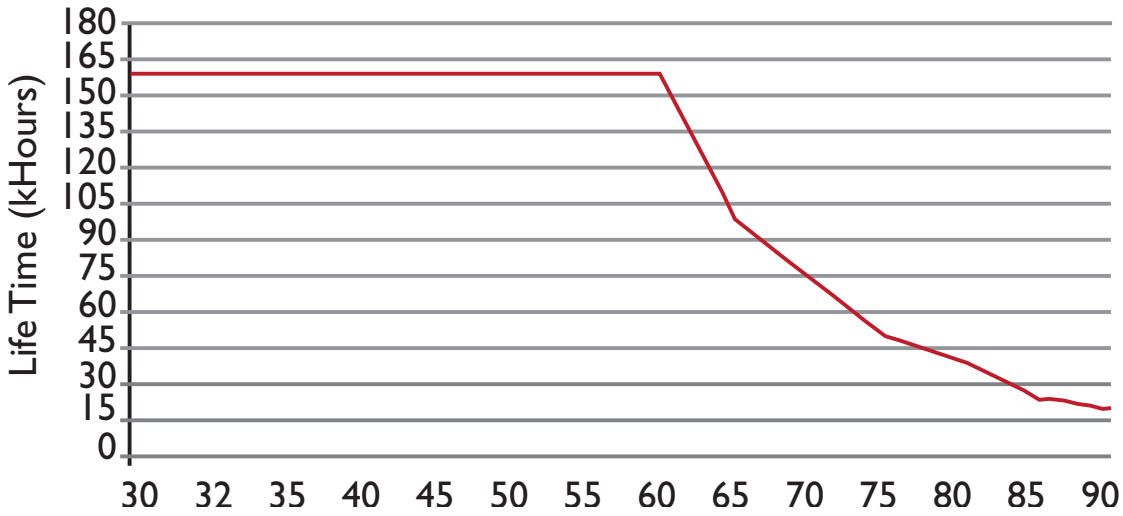
Revised 12/11/2017

AC ELECTRONICS™
ACELEDS.COM

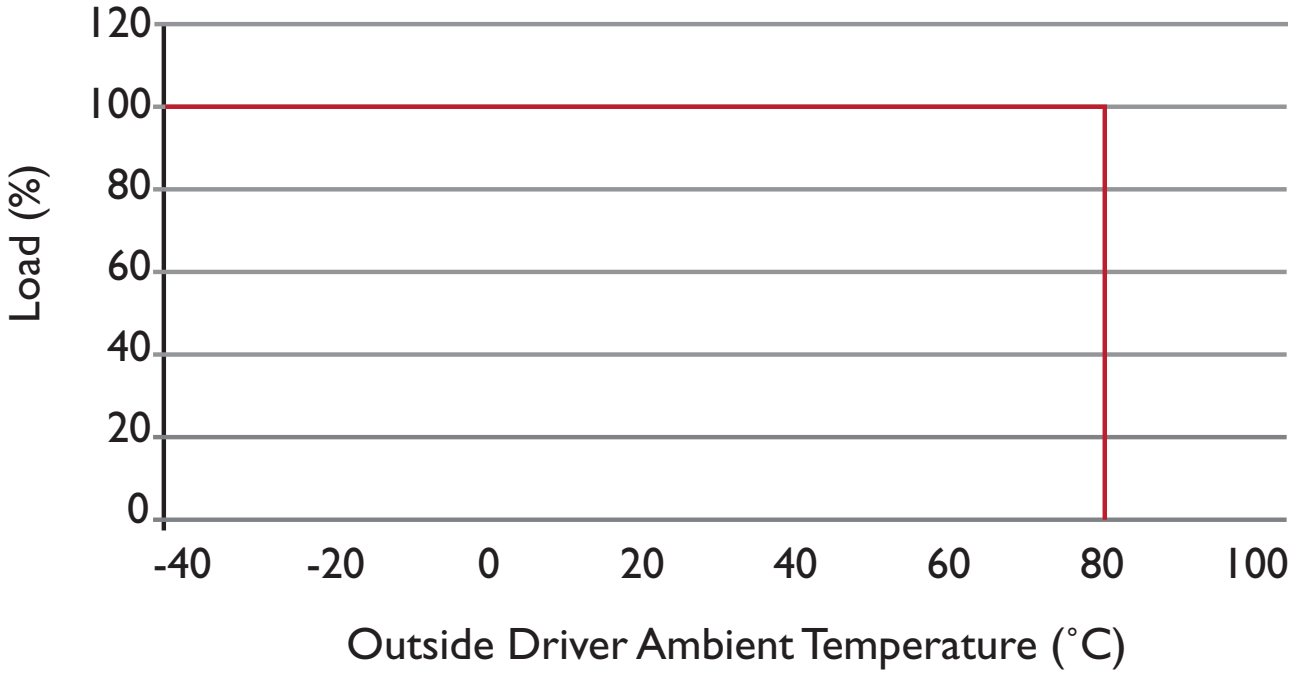
AC50CD1.4AP4G

Performance Charateristics

Life Time v.s. Case Temperature Curve



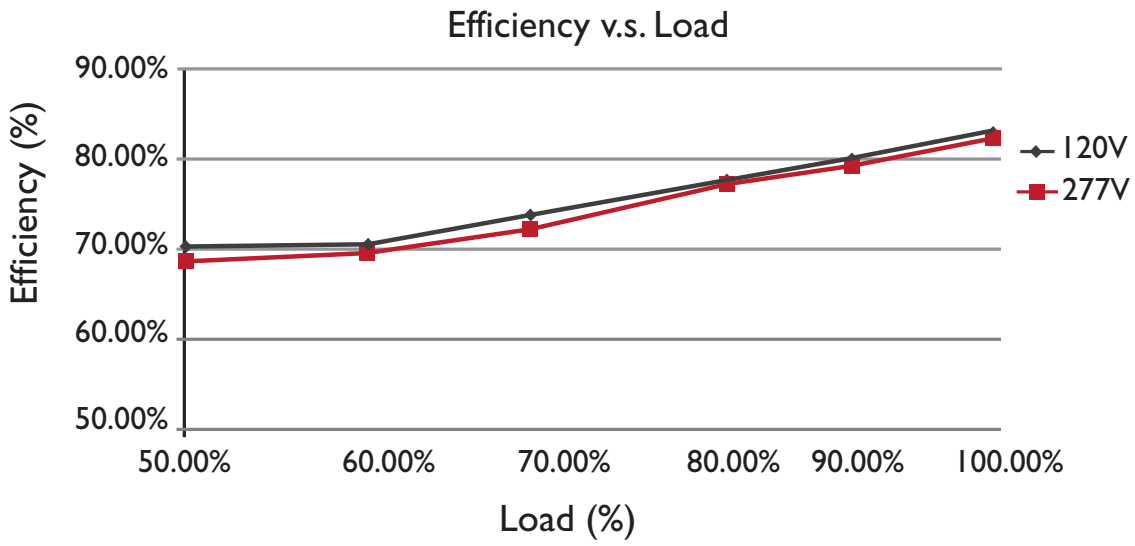
Derating Curve 120Vac & 277Vac

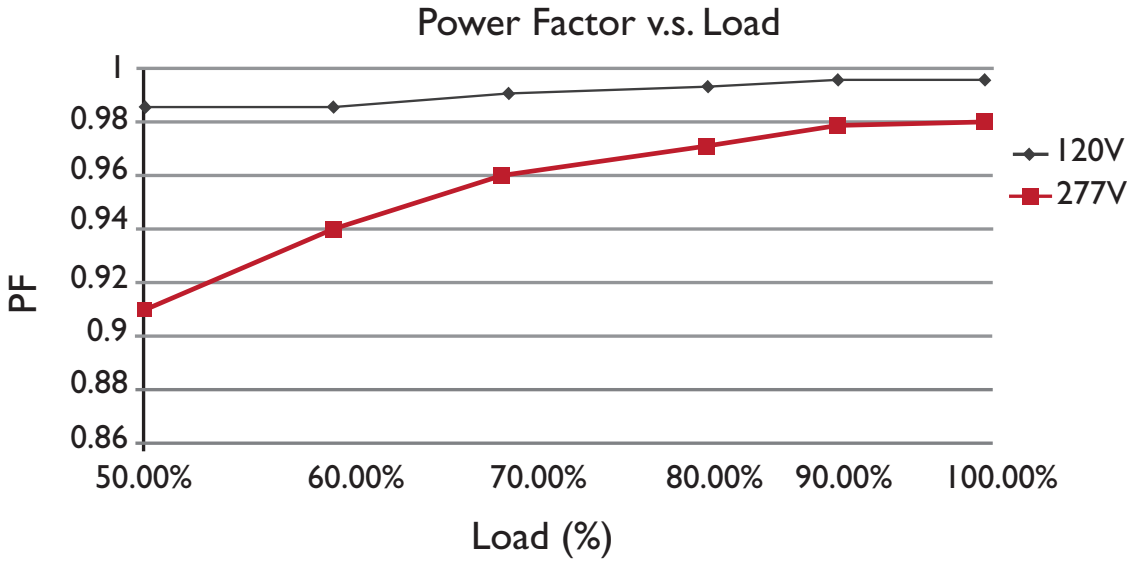


3401 Avenue D, Arlington, TX 76011 • 800-375-6355 • www.aceleds.com

Revised 12/11/2017

Performance Charateristics



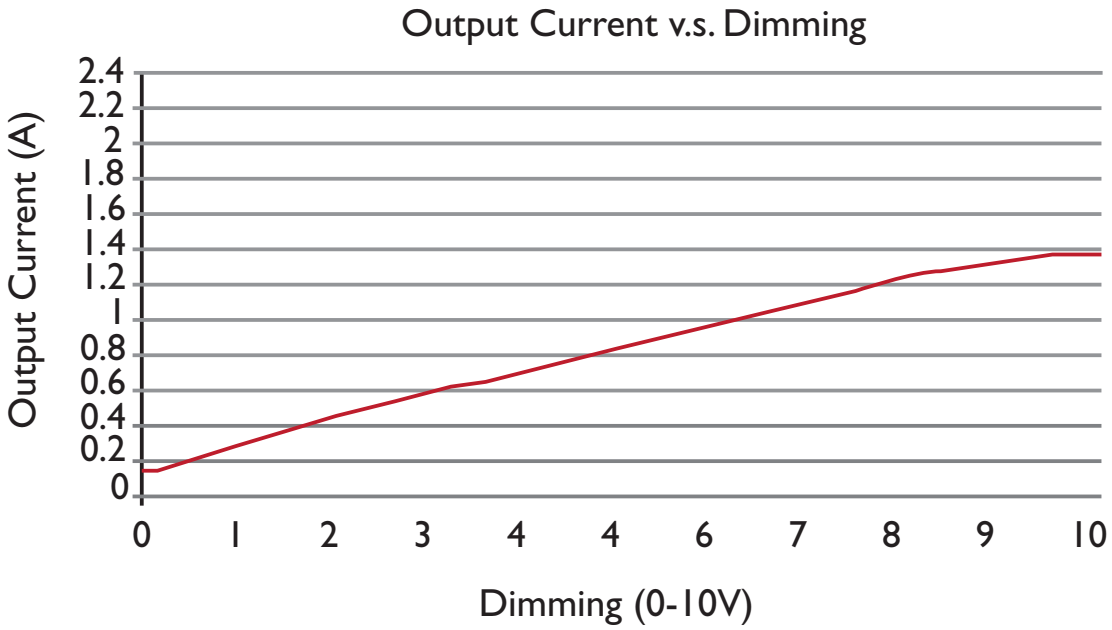


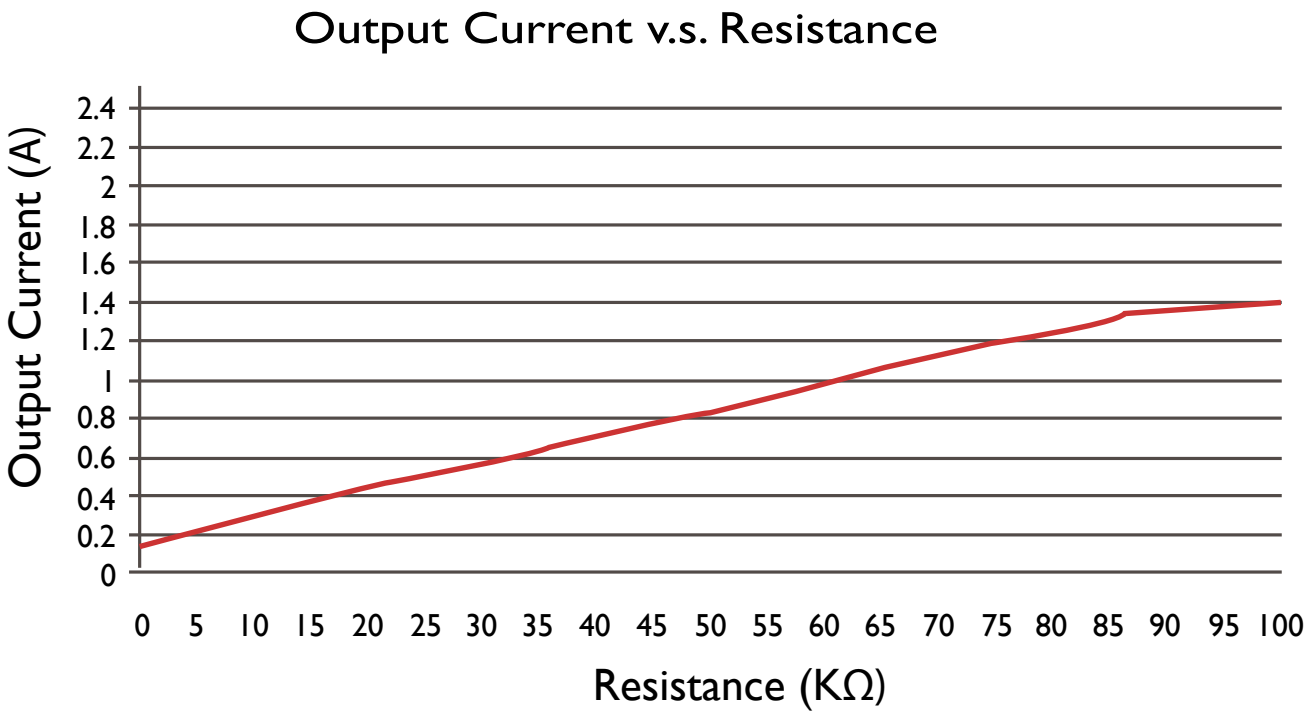
Revised 12/11/2017

AC ELECTRONICS™
ACELEDS.COM

AC50CD1.4AP4G

Performance Charateristics





3401 Avenue D, Arlington, TX 76011 • 800-375-6355 • www.aceleds.com

Revised 12/11/2017