

Emerald
Series**ADURA**
LED SOLUTIONS

SPECIFICATIONS

Module Part Number	12032-A
Number of LEDs	12 LEDs (2x6) or (1x12)
Type of LED	3030
CCT	2000K, 2400K, 2700K, 3000K, 3500K, 4000K, 4500K, 5000K, 5700K, 6500K, Color, Custom
CRI	70+, 80+, 90+
Operating Current (IF)	100mA, 150mA, 180mA
Maximum Current (IF)	200mA
Typical Input Voltage (Vdc)	36V (1x12 Option) & 18V (2x6 Option)
Board Shape	LINEAR
Board Size (mm)	11.26" x 0.945" (286 x 24 mm)



PRODUCT FEATURES

- ✓ Using MCPCB Board Technology
- ✓ Excellent Thermal Conductivity
- ✓ Best Mechanical design to use Connector or Wire Option
- ✓ Compatible Optics: Ledil Florentina Optics
- ✓ Light Patterns for different types of Indoor and Outdoor applications
- ✓ LEDs Offered with NICHIA, OSRAM, SEOUL, LUMILED, SAMSUNG, LG and other
- ✓ Offered in 2x6 and 1x12 Configuration
- ✓ Up to 50,000 Hour Life
- ✓ Rapid turnaround times

APPLICATIONS

- Linear Lighting
- Indoor Lighting
- Outdoor Lighting
- Architectural lighting

2x6 LED CONFIGURATION

Adura Part No.	Typical Wattage (W)	OPERATING CURRENT		Input Voltage (Vdc)	CCT (Kelvin)	CRI	Typical Lumen (lm)	Typical Lumens Per Watt (LPW)	Dimensions Inch(mm)
		Nominal Current (mA)	Max Current (mA)						
LIN-40036E- 0123030-277-2x6	7	200	400	36	2700	70	1087.5	150	11.26" x 0.945" (286 x 24 mm)
	11	300	400	38	2700		1572.2	138	
	14	350	400	40	2700		2020.0	146	
LIN-40036E- 0123030-307-2x6	7	200	400	36	3000	70	1104.1	153	
	11	300	400	38	3000		1596.2	140	
	14	350	400	40	3000		2050.9	148	
LIN-40036E- 0123030-357-2x6	7	200	400	36	3500	70	1145.6	158	
	11	300	400	38	3500		1656.3	146	
	14	350	400	40	3500		2128.0	154	
LIN-40036E- 0123030-407-2x6	7	200	400	36	4000	70	1162.2	161	
	11	300	400	38	4000		1680.3	148	
	14	350	400	40	4000		2158.8	156	
LIN-40036E- 0123030-457-2x6	7	200	400	36	4500	70	1170.5	162	
	11	300	400	38	4500		1692.3	149	
	14	350	400	40	4500		2174.2	157	
LIN-40036E- 0123030-507-2x6	7	200	400	36	5000	70	1170.4	162	
	11	300	400	38	5000		1690.4	149	
	14	350	400	40	5000		2170.7	157	
LIN-40036E- 0123030-577-2x6	7	200	400	36	5700	70	1170.4	162	
	11	300	400	38	5700		1690.4	149	
	14	350	400	40	5700		2170.7	157	
LIN-40036E- 0123030-657-2x6	7	200	400	36	6500	70	1162.1	161	
	11	300	400	38	6500		1678.4	148	
	14	350	400	40	6500		2155.3	156	
Color Rendering Index (CRI) 80									
LIN-40036E- 0123030-208-2x6	7	200	400	36	2000	80	672.4	93	11.26" x 0.945" (286 x 24 mm)
	11	300	400	38	2000		972.1	85	
	14	350	400	40	2000		1249.0	90	
LIN-40036E- 0123030-248-2x6	7	200	400	36	2400	80	805.2	111	
	11	300	400	38	2400		1164.2	102	
	14	350	400	40	2400		1495.8	108	
LIN-40036E- 0123030-278-2x6	7	200	400	36	2700	80	987.8	137	
	11	300	400	38	2700		1428.2	126	
	14	350	400	40	2700		1835.0	133	
LIN-40036E- 0123030-308-2x6	7	200	400	36	3000	80	1029.4	142	
	11	300	400	38	3000		1488.2	131	
	14	350	400	40	3000		1912.1	138	
LIN-40036E- 0123030-358-2x6	7	200	400	36	3500	80	1054.3	146	
	11	300	400	38	3500		1524.2	134	
	14	350	400	40	3500		1958.4	141	

Adura Part No.	Typical Wattage (W)	OPERATING CURRENT		Input Voltage (Vdc)	CCT (Kelvin)	CRI	Typical Lumen (lm)	Typical Lumens Per Watt (LPW)	Dimensions Inch(mm)
		Nominal Current (mA)	Max Current (mA)						
LIN-40036E- 0123030408-2x6	7	200	400	36	4000	80	1087.5	150	11.26" x 0.945" (286x24mm)
	11	300	400	38	4000		1572.2	138	
	14	350	400	40	4000		2020.0	146	
LIN-40036E- 0123030-458-2x6	7	200	400	36	4500	80	1095.8	152	
	11	300	400	38	4500		1584.2	139	
	14	350	400	40	4500		2035.5	147	
LIN-40036E- 0123030-508-2x6	7	200	400	36	5000	80	1137.2	157	
	11	300	400	38	5000		1642.5	144	
	14	350	400	40	5000		2109.1	152	
LIN-40036E- 0123030-578-2x6	7	200	400	36	5700	80	1112.3	154	
	11	300	400	38	5700		1606.5	141	
	14	350	400	40	5700		2062.9	149	
LIN-40036E- 0123030-658-2x6	7	200	400	36	6500	80	1112.3	154	
	11	300	400	38	6500		1606.5	141	
	14	350	400	40	6500		2062.9	149	
Color Rendering Index (CRI) 90									
LIN-40036E- 0123030-279-2x6	7	200	400	36	2700	90	772.0	107	11.26" x 0.945" (286x24mm)
	11	300	400	38	2700		1116.2	98	
	14	350	400	40	2700		1434.1	104	
LIN-40036E- 0123030-309-2x6	7	200	400	36	3000	90	805.2	111	
	11	300	400	38	3000		1164.2	102	
	14	350	400	40	3000		1495.8	108	
LIN-40036E- 0123030-359-2x6	7	200	400	36	3500	90	821.8	114	
	11	300	400	38	3500		1188.2	104	
	14	350	400	40	3500		1526.6	110	
LIN-40036E- 0123030-409-2x6	7	200	400	36	4000	90	838.4	116	
	11	300	400	38	4000		1212.2	107	
	14	350	400	40	4000		1557.4	112	
LIN-40036E- 0123030-459-2x6	7	200	400	36	4500	90	855.0	118	
	11	300	400	38	4500		1236.2	109	
	14	350	400	40	4500		1588.3	115	
LIN-40036E- 0123030-509-2x6	7	200	400	36	5000	90	879.8	122	
	11	300	400	38	5000		1270.8	112	
	14	350	400	40	5000		1631.8	118	

All Above data are at 25° C

Disclaimer: Adura LED Solutions (ALS) provides this engineering data for design guidance only. Users of ALS technology are reminded that they bear the responsibility for testing for their applications. Any information furnished by ALS, its licensees and representative is believed to be accurate, but users of the technology must bear all responsibility for the use and testing of the product since ALS, its licensees and representatives cannot be aware of all potential uses. ALS makes no warranties as to the applicability, fitness or suitability of ALS technology for any specific or general uses. ALS shall not be liable for incidental or consequential damages of any kind.

1x12 LED CONFIGURATION

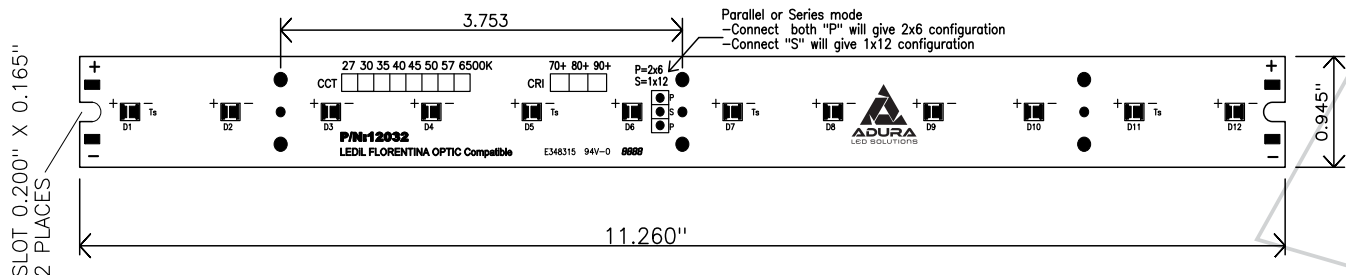
Adura Part No.	Typical Wattage (W)	OPERATING CURRENT		Input Voltage (Vdc)	CCT (Kelvin)	CRI	Typical Lumen (lm)	Typical Lumens Per Watt (LPW)	Dimensions Inch(mm)
		Nominal Current (mA)	Max Current (mA)						
LIN-20072E-0123030-277-2x6	7	100	200	72	2700	70	1087.5	150	11.26" x 0.945" (286x24mm)
	11	150	200	76	2700		1572.2	138	
	14	175	200	79	2700		2020.0	146	
LIN-20072E-0123030-307-2x6	7	100	200	72	3000	70	1104.1	153	
	11	150	200	76	3000		1596.2	140	
	14	175	200	79	3000		2050.9	148	
LIN-20072E-0123030-357-2x6	7	100	200	72	3500	70	1145.6	158	
	11	150	200	76	3500		1656.3	146	
	14	175	200	79	3500		2128.0	154	
LIN-20072E-0123030-407-2x6	7	100	200	72	4000	70	1162.2	161	
	11	150	200	76	4000		1680.3	148	
	14	175	200	79	4000		2158.8	156	
LIN-20072E-0123030-457-2x6	7	100	200	72	4500	70	1170.5	162	
	11	150	200	76	4500		1692.3	149	
	14	175	200	79	4500		2174.2	157	
LIN-20072E-0123030-507-2x6	7	100	200	72	5000	70	1170.4	162	
	11	150	200	76	5000		1690.4	149	
	14	175	200	79	5000		2170.7	157	
LIN-20072E-0123030-577-2x6	7	100	200	72	5700	70	1170.4	162	
	11	150	200	76	5700		1690.4	149	
	14	175	200	79	5700		2170.7	157	
LIN-20072E-0123030-657-2x6	7	100	200	72	6500	70	1162.1	161	
	11	150	200	76	6500		1678.4	148	
	14	175	200	79	6500		2155.3	156	
Color Rendering Index (CRI) 80									
LIN-20072E-0123030-208-2x6	7	100	200	72	2000	80	672.4	93	11.26" x 0.945" (286x24mm)
	11	150	200	76	2000		972.1	85	
	14	175	200	79	2000		1249.0	90	
LIN-20072E-0123030-248-2x6	7	100	200	72	2400	80	805.2	111	
	11	150	200	76	2400		1164.2	102	
	14	175	200	79	2400		1495.8	108	
LIN-20072E-0123030-278-2x6	7	100	200	72	2700	80	987.8	137	
	11	150	200	76	2700		1428.2	126	
	14	175	200	79	2700		1835.0	133	
LIN-20072E-0123030-308-2x6	7	100	200	72	3000	80	1029.4	142	
	11	150	200	76	3000		1488.2	131	
	14	175	200	79	3000		1912.1	138	
LIN-20072E-0123030-358-2x6	7	100	200	72	3500	80	1054.3	146	
	11	150	200	76	3500		1524.2	134	
	14	175	200	79	3500		1958.4	141	

Adura Part No.	Typical Wattage (W)	OPERATING CURRENT		Input Voltage (Vdc)	CCT (Kelvin)	CRI	Typical Lumen (lm)	Typical Lumens Per Watt (LPW)	Dimensions Inch(mm)
		Nominal Current (mA)	Max Current (mA)						
LIN-20072E-0123030408-2x6	7	100	200	72	4000	80	1087.5	150	11.26" x 0.945" (286x24mm)
	11	150	200	76	4000		1572.2	138	
	14	175	200	79	4000		2020.0	146	
LIN-20072E-0123030-458-2x6	7	100	200	72	4500	80	1095.8	152	
	11	150	200	76	4500		1584.2	139	
	14	175	200	79	4500		2035.5	147	
LIN-20072E-0123030-508-2x6	7	100	200	72	5000	80	1137.2	157	
	11	150	200	76	5000		1642.5	144	
	14	175	200	79	5000		2109.1	152	
LIN-20072E-0123030-578-2x6	7	100	200	72	5700	80	1112.3	154	
	11	150	200	76	5700		1606.5	141	
	14	175	200	79	5700		2062.9	149	
LIN-20072E-0123030-658-2x6	7	100	200	72	6500	80	1112.3	154	
	11	150	200	76	6500		1606.5	141	
	14	175	200	79	6500		2062.9	149	
Color Rendering Index (CRI) 90									
LIN-20072E-0123030-279-2x6	7	100	200	72	2700	90	772.0	107	11.26" x 0.945" (286x24mm)
	11	150	200	76	2700		1116.2	98	
	14	175	200	79	2700		1434.1	104	
LIN-20072E-0123030-309-2x6	7	100	200	72	3000	90	805.2	111	
	11	150	200	76	3000		1164.2	102	
	14	175	200	79	3000		1495.8	108	
LIN-20072E-0123030-359-2x6	7	100	200	72	3500	90	821.8	114	
	11	150	200	76	3500		1188.2	104	
	14	175	200	79	3500		1526.6	110	
LIN-20072E-0123030-409-2x6	7	100	200	72	4000	90	838.4	116	
	11	150	200	76	4000		1212.2	107	
	14	175	200	79	4000		1557.4	112	
LIN-20072E-0123030-459-2x6	7	100	200	72	4500	90	855.0	118	
	11	150	200	76	4500		1236.2	109	
	14	175	200	79	4500		1588.3	115	
LIN-20072E-0123030-509-2x6	7	100	200	72	5000	90	879.8	122	
	11	150	200	76	5000		1270.8	112	
	14	175	200	79	5000		1631.8	118	

All Above data are at 25° C

Disclaimer: Adura LED Solutions (ALS) provides this engineering data for design guidance only. Users of ALS technology are reminded that they bear the responsibility for testing for their applications. Any information furnished by ALS, its licensees and representative is believed to be accurate, but users of the technology must bear all responsibility for the use and testing of the product since ALS, its licensees and representatives cannot be aware of all potential uses. ALS makes no warranties as to the applicability, fitness or suitability of ALS technology for any specific or general uses. ALS shall not be liable for incidental or consequential damages of any kind.

Mechanical Drawing for LIN-40036E-0123030-xxx-2x6-FLORENTINA_757



LIN-40036E-0123030-277-2x6

Board Type	Driving Current(mA)	Voltage(vdc)	Series Type	No. of LED	Type of LED	CCT	CRI	Series /Parallel Configuration
LIN	400	036	E	012	3030	27	7	2x6

Board Types: LINEAR(LIN), SQUARE(SQR), CIRCULAR(CIR), STRIP(STRIP), STAR(STAR), CUSTOM

Series Types: R = **Ruby**, E = **Emerald**, D = **Diamond**

Number LED: 004=4, 012 = 12, 033 = 33, 100 =100

CCT: 27=2700K, 30=3000K, 35=3500K, 40=4000K, 45=4500K, 50=5000K, 57=5700K, 65=6500K

CRI: N=N/A, 6=60, 7=70, 8=80, 9=90

Configuration: 1x4 = 4 LED in Series / 2x6= 2 Rows of six LEDs in Parallel

Notes:

- Boards Tested at Ts = 25 °C
- Forward voltage Tolerances:± 0.2V
- Luminous Flux Tolerances:± 0.5%
- Color Rendering Index Tolerance (Ra): ± 2
- Color Rendering Index Tolerance (R9): ± 4
- Incorrect wiring may damage the LED module.
- All data is related to the entire module. Data reflects standard mean values.
- Actual data may differ depending on Variance in the LED and manufacturing process.
- Performance values were taken at steady state.
- Instant-ON measurement may be higher
- Exceeding maximum rating may damage the LED Light engine and cause potential safety hazard
- Elevated operating temperatures can damage the board, LEDs and life in terms of lumen output.

Ver 3
05-04-16

04