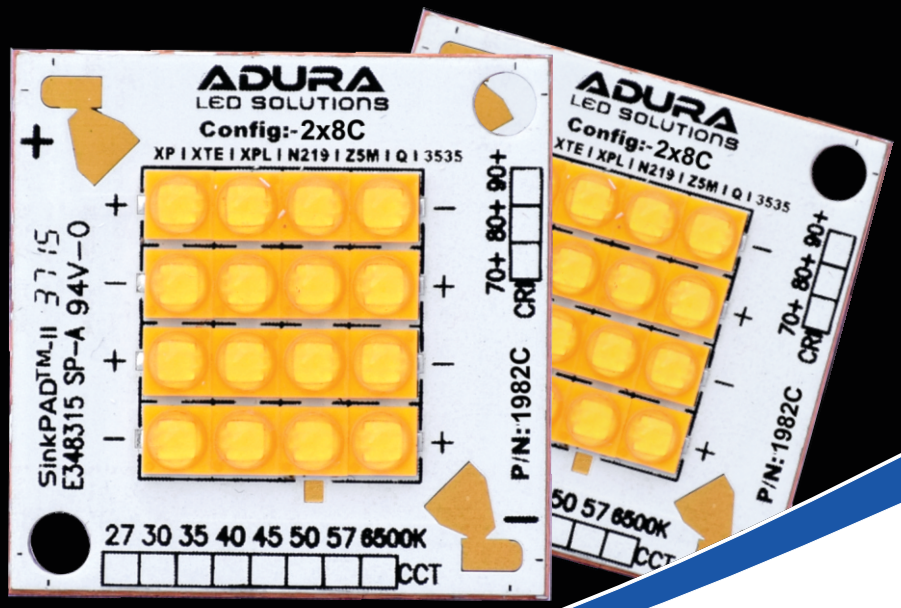

SinkPAD™ Cooling Matters

RoHS compliant

ADURA LED SOLUTIONS

ADURA LOB is our Leading LED array product using SinkPAD™ PCB technology that gives customers a competitive advantage. ADURA LOB creates the most impactful lighting and delivers exceptional Lumen performance in easy to use platform with high reliability.

ADURA LOB simplifies luminaire design and manufacturing by uniform emitting surface enables both directional and non-directional applications. ADURA LOB arrays are available in several LES configurations, engineered to enable new degree of flexibility and reliability over a broad range of electrical currents. Our SinkPAD™ Technology platform delivers high lumen density with improved THERMAL than a conventional COB, for clean and uniform illumination.

SinkPAD™ Technology: A PCB with SinkPAD™ technology offers the highest thermal conductivity in the industry; in excess of 200 W/m.k. it has 200 to 385 W/m.k thermal conductivity. As a result, the LEDs run substantially cooler, increase lumen per watt, increase life and increase reliability.

SPECIFICATIONS

Part Number	**1982C-A**
Ordering Code	LOB-300024D-0163535-xxx-2x8C (2P8S)
PCB Technology	SinkPAD™, **Thermal Conductivity 210 - 380 W/mK**
Number / Type of LEDs	16 LED (2x8 LEDs in Parallel) / LED Type - 3535
CCT	2700K-6500K
CRI	70+, 80+, 90+
Drive Current Range (mA)	700 - 2400 mA
Typical Voltage (V)	24V
Wattage (W)	16 - 60 W
Lumen (@ 1000mA)	6004lm at 5000K, 1000mA, Ra 80.
Lm / W	150lm/W typical (5000K, Ra 70)
Shape / Size	Square / 28 mm (1.102 Inch)
LES	21mm
Compatible With LEDIL Optics	ANGELA, MIRELLA, LENA, LENINA, ANGELLETE, STELLA HB, STELLA FRESNEL
IDEAL Holder	50 - 2204 CT

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PRODUCT FEATURES

- Built on SinkPAD™-II PCB Technology. >200.0W/m.k Thermal Conductivity
- High efficacy over 160 lm/W typical (5000K, Ra 70)
- Broad range of CCT options from 2700K to 6500K
- CRI options include minimum 70+, 80+, and 90+
- Options for 3 and 5 SDCM color control for 2700K-6500K CCT
- Reliable operation at up to 2X nominal drive current
- Compatible with IDEAL Solderless Connector
  Compatible with LEDIL Optics
- ANGELA, MIRELLA, LENA, LENINA, ANGELLETE, STELLA HB, STELLA FRESNEL.
- UL Recognized Board and Components (E348315)
- Broad rang of application coverage for interior and exterior lighting
- Flexibility for application driven lighting design requirements
- High quality true color reproduction
- Uniform consistent white light
  Flexibility in design optimization
- Option for wire soldering
- Top side part number, CCT & CRI markings
- Thermocouple point
- RoHS Compliant
- Enhanced ease of use and manufacturability
- Short lead time

APPLICATIONs

- Downlight
- Lamps
- Spot Light
- High Bay
- Street Lighting
- Area Lighting
- Retrofit Etc...

ADURA ORDERING CODE	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)						
LOB-300023D-0163535-277-2x8	16	700	3000	23	2700K	70	2466	155	1.102 Inch x 1.102 Inch [28mm x 28mm]
	23	1000	3000	23	2700K		3417	147	
	33	1400	3000	24	2700K		4592	138	
	49	2000	3000	25	2700K		6190	126	
	60	2400	3000	25	2700K		7177	119	
LOB-300023D-0163535-307-2x8	16	700	3000	23	3000K	70	2561	161	
	23	1000	3000	23	3000K		3548	153	
	33	1400	3000	24	3000K		4768	143	
	49	2000	3000	25	3000K		6427	130	
	60	2400	3000	25	3000K		7452	124	
LOB-300023D-0163535-357-2x8	16	700	3000	23	3500K	70	2629	165	
	23	1000	3000	23	3500K		3643	157	
	33	1400	3000	24	3500K		4896	147	
	49	2000	3000	25	3500K		6599	134	
	60	2400	3000	25	3500K		7652	127	
LOB-300023D-0163535-407-2x8	16	700	3000	23	4000K	70	2750	173	
	23	1000	3000	23	4000K		3810	164	
	33	1400	3000	24	4000K		5120	153	
	49	2000	3000	25	4000K		6901	140	
	60	2400	3000	25	4000K		8003	133	

All Above data are at 25° C

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ADURA ORDERING CODE	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)						
LOB-300023D-0163535-457-2x8	16	700	3000	23	4500K	70	2758	174	1.102 Inch x 1.102 Inch [28mm x 28mm]
	23	1000	3000	23	4500K		3822	164	
	33	1400	3000	24	4500K		5136	154	
	49	2000	3000	25	4500K		6923	141	
	60	2400	3000	25	4500K		8028	133	
LOB-300023D-0163535-507-2x8	16	700	3000	23	5000K	70	2760	174	
	23	1000	3000	23	5000K		3826	165	
	33	1400	3000	24	5000K		5152	154	
	49	2000	3000	25	5000K		6968	141	
	60	2400	3000	25	5000K		8091	134	
LOB-300023D-0163535-577-2x8	16	700	3000	23	5700K	70	2666	168	
	23	1000	3000	23	5700K		3696	159	
	33	1400	3000	24	5700K		4976	149	
	49	2000	3000	25	5700K		6730	137	
	60	2400	3000	25	5700K		7814	130	
LOB-300023D-0163535-657-2x8	16	700	3000	23	6500K	70	2640	166	
	23	1000	3000	23	6500K		3660	157	
	33	1400	3000	24	6500K		4928	148	
	49	2000	3000	25	6500K		6665	135	
	60	2400	3000	25	6500K		7739	128	
Color Rendering Index (CRI) 80									
LOB-300023D-0163535-278-2x8	16	700	3000	23	2700K	80	2182	137	1.102 Inch x 1.102 Inch [28mm x 28mm]
	23	1000	3000	23	2700K		3024	130	
	33	1400	3000	24	2700K		4064	122	
	49	2000	3000	25	2700K		5478	111	
	60	2400	3000	25	2700K		6352	105	
LOB-300023D-0163535-308-2x8	16	700	3000	23	3000K	80	2303	145	
	23	1000	3000	23	3000K		3191	137	
	33	1400	3000	24	3000K		4288	128	
	49	2000	3000	25	3000K		5780	117	
	60	2400	3000	25	3000K		6702	111	
LOB-300023D-0163535-358-2x8	16	700	3000	23	3500K	80	2406	151	
	23	1000	3000	23	3500K		3334	143	
	33	1400	3000	24	3500K		4480	134	
	49	2000	3000	25	3500K		6039	123	
	60	2400	3000	25	3500K		7002	116	
LOB-300023D-0163535-408-2x8	16	700	3000	23	4000K	80	2423	152	
	23	1000	3000	23	4000K		3358	144	
	33	1400	3000	24	4000K		4512	135	
	49	2000	3000	25	4000K		6082	123	
	60	2400	3000	25	4000K		7052	117	

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ADURA ORDERING CODE	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)						
LOB-300023D-0163535-458-2x8	16	700	3000	23	4500K	80	2666	168	1.102 Inch x 1.102 Inch [28mm x 28mm]
	23	1000	3000	23	4500K		3696	159	
	33	1400	3000	24	4500K		4976	149	
	49	2000	3000	25	4500K		6730	137	
	60	2400	3000	25	4500K		7814	130	
LOB-300023D-0163535-508-2x8	16	700	3000	23	5000K	80	2640	166	
	23	1000	3000	23	5000K		3660	157	
	33	1400	3000	24	5000K		4928	148	
	49	2000	3000	25	5000K		6665	135	
	60	2400	3000	25	5000K		7739	128	
Color Rendering Index (CRI) 90									
LOB-300023D-0163535-279-2x8	16	700	3000	23	2700K	90	1533	97	1.102 Inch x 1.102 Inch [28mm x 28mm]
	23	1000	3000	23	2700K		2129	92	
	33	1400	3000	24	2700K		2859	86	
	49	2000	3000	24	2700K		3847	79	
	60	2400	3000	25	2700K		4468	75	
LOB-300023D-0163535-309-2x8	16	700	3000	23	3000K	90	1661	105	
	23	1000	3000	23	3000K		2307	99	
	33	1400	3000	24	3000K		3098	93	
	49	2000	3000	24	3000K		4169	85	
	60	2400	3000	25	3000K		4842	81	
LOB-300023D-0163535-359-2x8	16	700	3000	23	3500K	90	1756	111	
	23	1000	3000	23	3500K		2438	105	
	33	1400	3000	24	3500K		3274	98	
	49	2000	3000	24	3500K		4406	90	
	60	2400	3000	25	3500K		5117	86	
LOB-300023D-0163535-409-2x8	16	700	3000	23	4000K	90	1833	116	
	23	1000	3000	23	4000K		2545	110	
	33	1400	3000	24	4000K		3418	103	
	49	2000	3000	24	4000K		4599	94	
	60	2400	3000	25	4000K		5341	90	

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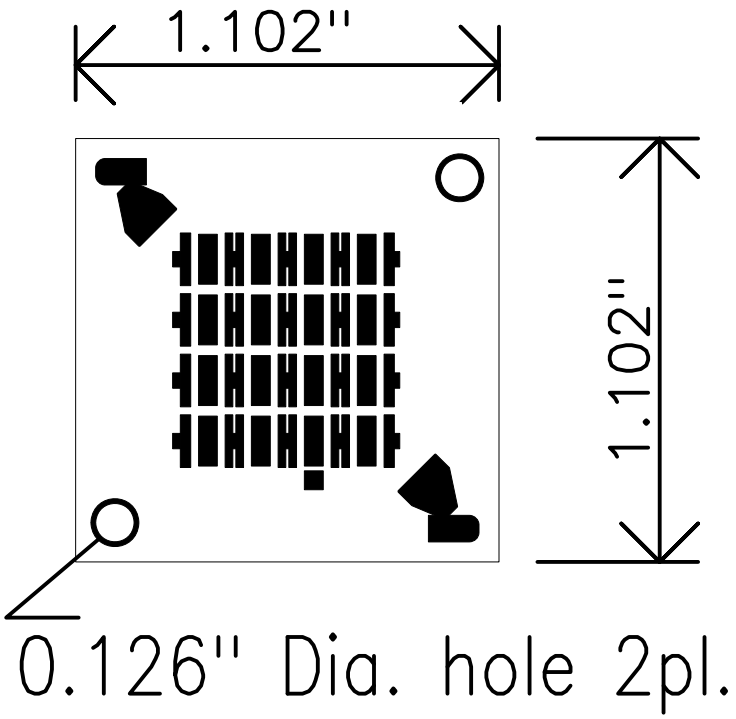
Mechanical Drawing for 1981C-A



LOB-150046D-0163535-277-1x16

Board Type	Driving Current(mA)	Voltage(vdc)	Series Type	No. of LED	Type of LED	CCT	CRI	Series /Parallel Configuration
LOB	1500	46	D	016	3535	27	7	1x16

Board Types: LINEAR**(LIN)**, SQUARE**(SQR)**, CIRCULAR**(CIR)**, STRIP**(STRIP)**, STAR**(STAR)**, CUSTOM LED on Board **(LOB)**

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
- Luminus 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.

Ver1
01-04-16

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