

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	1983C-A
	Ordering Code	LOB-150072D-0243535-xxx-1x24C(1P24S)
	PCB Technology	SinkPAD™, Thermal Conductivity 210 - 380 W/mK
	Number / Type of LEDs	24 LED (1x24 LEDs in Series) / LED Type - 3535
	CCT	2700K-6500K
	CRI	70+, 80+, 90+
	Drive Current Range (mA)	350 - 1200 mA
	Typical Voltage (V)	72V
	Wattage (W)	25 - 85 W
	Lumen (@ 1000mA)	9089 lm
	Shape / Size	Square / 38mm (1.496 Inch)
	LES	29mm
	Compatible With LEDIL Optics	ANGELA, ANGELINA, STELLA HB, STELLA FRESNEL
	IDEAL Holder	-----



PRODUCT FEATURES

- ✓ Built on SinkPAD™-II PCB Technology. >200.0W/m.k Thermal Conductivity
- ✓ High efficacy over 150 lm/W typical (5000K, Ra 70)
- ✓ Lumen output performance ranges from 1,000 to 18,000 lumens (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 LEDIL Optics
ANGELA, ANGELINA, 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

APPLICATIONS

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

- ✓ Option for wire soldering
- ✓ Top side part number, CCT & CRI markings
- ✓ Thermocouple point
- ✓ RoHS Compliant
- ✓ Enhanced ease of use and manufacturability
- ✓ Short lead time

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-150072D-0243535-277-1x24	24	350	1500	68	2700K	70	3699	155	1.496 Inch x 1.496 Inch [38mm x 38mm]
	35	500	1500	70	2700K		5126	147	
	50	700	1500	72	2700K		6888	138	
	74	1000	1500	74	2700K		9285	126	
	90	1200	1500	75	2700K		10766	119	
LOB-150072D-0243535-307-1x24	24	350	1500	68	3000K	70	3841	161	
	35	500	1500	70	3000K		5322	153	
	50	700	1500	72	3000K		7152	143	
	74	1000	1500	74	3000K		9640	130	
	90	1200	1500	75	3000K		11179	124	
LOB-150072D-0243535-357-1x24	24	350	1500	68	3500K	70	3944	165	
	35	500	1500	70	3500K		5465	157	
	50	700	1500	72	3500K		7344	147	
	74	1000	1500	74	3500K		9899	134	
	90	1200	1500	75	3500K		11479	127	
LOB-150072D-0243535-407-1x24	24	350	1500	68	4000K	70	4124	173	
	35	500	1500	70	4000K		5715	164	
	50	700	1500	72	4000K		7680	153	
	74	1000	1500	74	4000K		10352	140	
	90	1200	1500	75	4000K		12004	133	

All Above data are at 25° C



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-150072D-0243535-457-1x24	24	350	1500	68	4500K	70	4137	174	1.496 Inch x 1.496 Inch [38mm x 38mm]
	35	500	1500	70	4500K		5733	164	
	50	700	1500	72	4500K		7704	154	
	74	1000	1500	74	4500K		10384	141	
	90	1200	1500	75	4500K		12041	133	
LOB-150072D-0243535-507-1x24	24	350	1500	68	5000K	70	4140	174	
	35	500	1500	70	5000K		5740	165	
	50	700	1500	72	5000K		7728	154	
	74	1000	1500	74	5000K		10452	141	
	90	1200	1500	75	5000K		12136	134	
LOB-150072D-0243535-577-1x24	24	350	1500	68	5700K	70	3998	168	
	35	500	1500	70	5700K		5543	159	
	50	700	1500	72	5700K		7464	149	
	74	1000	1500	74	5700K		10095	137	
	90	1200	1500	75	5700K		11721	130	
LOB-150072D-0243535-657-1x24	24	350	1500	68	6500K	70	3960	166	
	35	500	1500	70	6500K		5490	157	
	50	700	1500	72	6500K		7392	148	
	74	1000	1500	74	6500K		9998	135	
	90	1200	1500	75	6500K		11608	128	
Color Rendering Index (CRI) 80									
LOB-150072D-0243535-278-1x24	24	350	1500	68	2700K	80	3274	137	1.496 Inch x 1.496 Inch [38mm x 38mm]
	35	500	1500	70	2700K		4536	130	
	50	700	1500	72	2700K		6096	122	
	74	1000	1500	74	2700K		8217	111	
	90	1200	1500	75	2700K		9528	105	
LOB-150072D-0243535-308-1x24	24	350	1500	68	3000K	80	3454	145	
	35	500	1500	70	3000K		4786	137	
	50	700	1500	72	3000K		6432	128	
	74	1000	1500	74	3000K		8670	117	
	90	1200	1500	75	3000K		10053	111	
LOB-150072D-0243535-358-1x24	24	350	1500	68	3500K	80	3609	151	
	35	500	1500	70	3500K		5001	143	
	50	700	1500	72	3500K		6720	134	
	74	1000	1500	74	3500K		9058	123	
	90	1200	1500	75	3500K		10503	116	
LOB-150072D-0243535-408-1x24	24	350	1500	68	4000K	80	3635	152	
	35	500	1500	70	4000K		5036	144	
	50	700	1500	72	4000K		6768	135	
	74	1000	1500	74	4000K		9123	123	
	90	1200	1500	75	4000K		10578	117	

All Above data are at 25° C

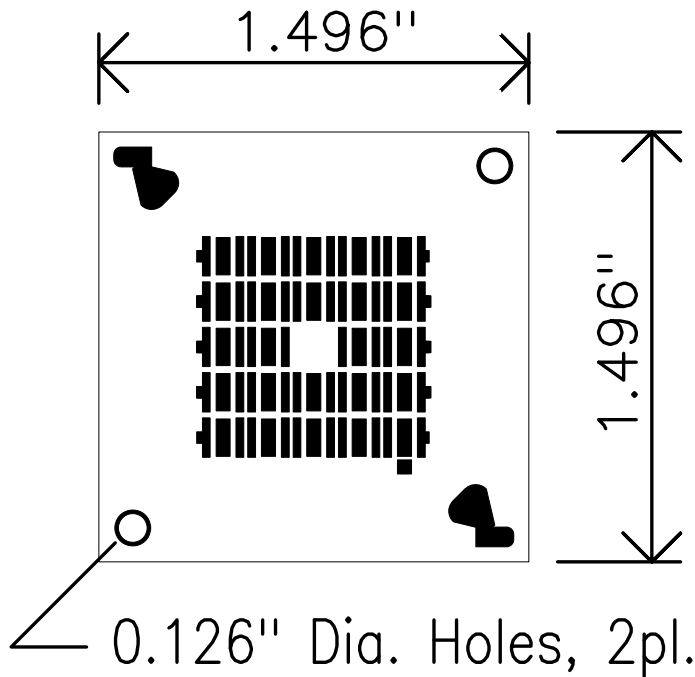


ADURA ORDERING CODE	Typical Wattage (W)	OPERATING CURRENT		Input Voltage (Vdc)	CCT (Kelvin)	CRI	Typical Lumen (lm)	Typical Lumens Per Watt (LPW)	Dimensions Inch(mm)
		Nominal Current (mA)	Max Current (mA)						
LOB-150072D-0243535-458-1x24	24	350	1500	68	4500K	80	3673	154	1.496 Inch x 1.496 Inch [38mm x 38mm]
	35	500	1500	70	4500K		5090	146	
	50	700	1500	72	4500K		6840	137	
	74	1000	1500	74	4500K		9220	125	
	90	1200	1500	75	4500K		10691	118	
LOB-150072D-0243535-508-1x24	24	350	1500	68	5000K	80	3600	151	
	35	500	1500	70	5000K		4991	143	
	50	700	1500	72	5000K		6720	134	
	74	1000	1500	74	5000K		9089	123	
	90	1200	1500	75	5000K		10553	117	
Color Rendering Index (CRI) 90									
LOB-150072D-0243535-279-1x24	24	350	1500	68	2700K	90	2299	97	
	35	500	1500	70	2700K		3193	92	
	50	700	1500	71	2700K		4288	86	
	73	1000	1500	73	2700K		5770	79	
	89	1200	1500	74	2700K		6702	75	
LOB-150072D-0243535-309-1x24	24	350	1500	68	3000K	90	2492	105	
	35	500	1500	70	3000K		3461	99	
	50	700	1500	71	3000K		4647	93	
	73	1000	1500	73	3000K		6254	85	
	89	1200	1500	74	3000K		7263	81	
LOB-150072D-0243535-359-1x24	24	350	1500	68	3500K	90	2633	111	
	35	500	1500	70	3500K		3657	105	
	50	700	1500	71	3500K		4911	98	
	73	1000	1500	73	3500K		6608	90	
	89	1200	1500	74	3500K		7675	86	
LOB-150072D-0243535-409-1x24	24	350	1500	68	4000K	90	2749	116	
	35	500	1500	70	4000K		3817	110	
	50	700	1500	71	4000K		5126	103	
	73	1000	1500	73	4000K		6899	94	
	89	1200	1500	74	4000K		8012	90	

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 1983C-A



LOB-150072D-0243535-277-1x24

Board Type	Driving Current(mA)	Voltage(vdc)	Series Type	No. of LED	Type of LED	CCT	CRI	Series /Parallel Configuration
LOB	1500	72	D	024	3535	27	7	1x24

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
- 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.

Ver1
01-04-16

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