



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	1979C-A
Ordering Code	LOB-150026D-0093535-xxx-1x9C (1P9S)
PCB Technology	SinkPAD™, Thermal Conductivity 210 - 380 W/mK
Number / Type of LEDs	9 LED (1x9) / LED Type - 3535
CCT	2700K-6500K
CRI	70+, 80+, 90+
Drive Current Range (mA)	350 - 1200 mA
Typical Voltage (V)	27V
Wattage (W)	9 - 34 W
Lumen (@ 1000mA)	3400lm at 5000K, 1000mA, Ra 80.
Lm / W	150lm/W typical (5000K, Ra 70)
Shape / Size	Square / 17.86 mm (0.703 Inch)
LES	16mm
Compatible With LEDIL Optics	ANGELA, MIRELLA, LENA, LENINA, SAGA, WINNIE
IDEAL Holder	50 - 2103 CT

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, SAGA, WINNIE.
- ✓ 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-150026D-0093535-277-1x9C	9	350	1500	25.5	2700K	70	1387	155	0.703 Inch x 0.703 Inch [17.86mm x 17.86mm]
	13	500	1500	26.1	2700K		1922	147	
	19	700	1500	26.8	2700K		2583	138	
	28	1000	1500	27.7	2700K		3482	126	
	34	1200	1500	28.3	2700K		4037	119	
LOB-150026D-0093535-307-1x9C	9	350	1500	25.5	3000K	70	1440	161	
	13	500	1500	26.1	3000K		1996	153	
	19	700	1500	26.8	3000K		2682	143	
	28	1000	1500	27.7	3000K		3615	130	
	34	1200	1500	28.3	3000K		4192	124	
LOB-150026D-0093535-357-1x9C	9	350	1500	25.5	3500K	70	1479	165	
	13	500	1500	26.1	3500K		2049	157	
	19	700	1500	26.8	3500K		2754	147	
	28	1000	1500	27.7	3500K		3712	134	
	34	1200	1500	28.3	3500K		4305	127	
LOB-150026D-0093535-407-1x9C	9	350	1500	25.5	4000K	70	1547	173	
	13	500	1500	26.1	4000K		2143	164	
	19	700	1500	26.8	4000K		2880	153	
	28	1000	1500	27.7	4000K		3882	140	
	34	1200	1500	28.3	4000K		4501	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-150026D- 0093535-457-1x9C	9	350	1500	25.5	4500K	70	1551	174	0.703 Inch x 0.703 Inch [17.86mm x 17.86mm]
	13	500	1500	26.1	4500K		2150	164	
	19	700	1500	26.8	4500K		2889	154	
	28	1000	1500	27.7	4500K		3894	141	
	34	1200	1500	28.3	4500K		4516	133	
LOB-150026D- 0093535-507-1x9C	9	350	1500	25.5	5000K	70	1552	174	
	13	500	1500	26.1	5000K		2152	165	
	19	700	1500	26.8	5000K		2898	154	
	28	1000	1500	27.7	5000K		3920	141	
	34	1200	1500	28.3	5000K		4551	134	
LOB-150026D- 0093535-577-1x9C	9	350	1500	25.5	5700K	70	1499	168	
	13	500	1500	26.1	5700K		2079	159	
	19	700	1500	26.8	5700K		2799	149	
	28	1000	1500	27.7	5700K		3786	137	
	34	1200	1500	28.3	5700K		4395	130	
LOB-150026D- 0093535-657-1x9C	9	350	1500	25.5	6500K	70	1485	166	
	13	500	1500	26.1	6500K		2059	157	
	19	700	1500	26.8	6500K		2772	148	
	28	1000	1500	27.7	6500K		3749	135	
	34	1200	1500	28.3	6500K		4353	128	
Color Rendering Index (CRI) 80									
LOB-150026D- 0093535-278-1x9C	9	350	1500	25.5	2700K	80	1228	137	0.703 Inch x 0.703 Inch [17.86mm x 17.86mm]
	13	500	1500	26.1	2700K		1701	130	
	19	700	1500	26.8	2700K		2286	122	
	28	1000	1500	27.7	2700K		3081	111	
	34	1200	1500	28.3	2700K		3573	105	
LOB-150026D- 0093535-308-1x9C	9	350	1500	25.5	3000K	80	1295	145	
	13	500	1500	26.1	3000K		1795	137	
	19	700	1500	26.8	3000K		2412	128	
	28	1000	1500	27.7	3000K		3251	117	
	34	1200	1500	28.3	3000K		3770	111	
LOB-150026D- 0093535-358-1x9C	9	350	1500	25.5	3500K	80	1353	151	
	13	500	1500	26.1	3500K		1875	143	
	19	700	1500	26.8	3500K		2520	134	
	28	1000	1500	27.7	3500K		3397	123	
	34	1200	1500	28.3	3500K		3939	116	
LOB-150026D- 0093535-408-1x9C	9	350	1500	25.5	4000K	80	1363	152	
	13	500	1500	26.1	4000K		1889	144	
	19	700	1500	26.8	4000K		2538	135	
	28	1000	1500	27.7	4000K		3421	123	
	34	1200	1500	28.3	4000K		3967	117	

All Above data are at 25° C

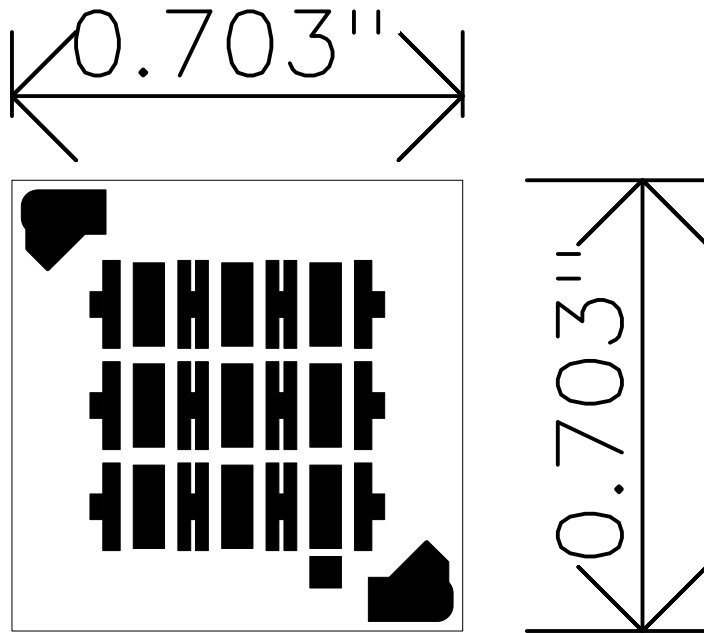


ADURA ORDERING CODE	Typical Wattage (W)	OPERATING CURRENT		Input Voltage (Vdc)	CCT (Kelvin)	CRI	Typical Lumen (lm)	Typical Lumens Per Watt (LPW)	Dimensions Inch(mm)	
		Nominal Current (mA)	Max Current (mA)							
LOB-150026D- 0093535-458-1x9C	9	350	1500	25.5	4500K	80	1377	154	0.703 Inch x 0.703 Inch [17.86mm x 17.86mm]	
	13	500	1500	26.1	4500K		1909	146		
	19	700	1500	26.8	4500K		2565	137		
	28	1000	1500	27.7	4500K		3457	125		
	34	1200	1500	28.3	4500K		4009	118		
LOB-150026D- 0093535-508-1x9C	9	350	1500	25.5	5000K	80	1350	151		
	13	500	1500	26.1	5000K		1872	143		
	19	700	1500	26.8	5000K		2520	134		
	28	1000	1500	27.7	5000K		3408	123		
	34	1200	1500	28.3	5000K		3957	117		
Color Rendering Index (CRI) 90										
LOB-150026D- 0093535-279-1x9C	9	350	1500	25.5	2700K	90	862	97	0.703 Inch x 0.703 Inch [17.86mm x 17.86mm]	
	13	500	1500	26.1	2700K		1197	92		
	19	700	1500	26.8	2700K		1608	86		
	28	1000	1500	27.5	2700K		2164	79		
	34	1200	1500	27.9	2700K		2513	75		
LOB-150026D- 0093535-309-1x9C	9	350	1500	25.5	3000K	90	934	105		
	13	500	1500	26.1	3000K		1298	99		
	19	700	1500	26.8	3000K		1743	93		
	28	1000	1500	27.5	3000K		2345	85		
	34	1200	1500	27.9	3000K		2724	81		
LOB-150026D- 0093535-359-1x9C	9	350	1500	25.5	3500K	90	987	111		
	13	500	1500	26.1	3500K		1371	105		
	19	700	1500	26.8	3500K		1842	98		
	28	1000	1500	27.5	3500K		2478	90		
	34	1200	1500	27.9	3500K		2878	86		
LOB-150026D- 0093535-409-1x9C	9	350	1500	25.5	4000K	90	1031	116		
	13	500	1500	26.1	4000K		1432	110		
	19	700	1500	26.8	4000K		1922	103		
	28	1000	1500	27.5	4000K		2587	94		
	34	1200	1500	27.9	4000K		3004	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 1979C-A



LOB-150026D-0093535-277-1x9C

Board Type	Driving Current(mA)	Voltage(vdc)	Series Type	No. of LED	Type of LED	CCT	CRI	Series /Parallel Configuration
LOB	1500	26	D	009	3535	27	7	1x9

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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