

ODEN ARRAY LED Specifications



Project Name:

Catalog Number:

Type:

With six interchangeable caps and spun shade styles, the **Oden - LED Array** offers architects, designers and engineers endless possibilities for a custom fixture to fit their unique application.

The **Oden - LED Array's** high-quality, durable construction makes it an ideal fixture for any application.

Ordering Information

MODEL	OPTICS	LUMENS	KELVIN	VOLTAGE	MOUNTING	FINISH	CAP/SHADE	OPTIONS	OPTIONS	
ODN-1-L	T1 Type 1	5L	3K 3000K	UNV 120-277V	UAM Arm Mount *Decorative arm not included See decorative arm section for arm mount options	BZ Bronze	C1	PC-120 Button Type Photocell	DIM 0-10v Dimming Driver	
	T2 Type 2	10L	4K 4000K	8 347V		BK Black	C2			
	T3 Type 3	15L	5K 5000K	5 480V		SBK Smooth Black	C3			PC-208 Button Type Photocell
ODN-2-L	T3L Type 3 Long	20L			WH White	C4	PC-240 Button Type Photocell	IR-R Illuminated Rings Red		
	T4 Type 4	25L			SWH Smooth White	C5				
	T4L Type 4 Long	30L			GP Graphite	C6			PC-277 Button Type Photocell	
ODN-3-L	T5SR Type 5 Short Round	35L			GY Grey	H1	WSC-8 Motion Sensor 8' Mounting Height	IR-B Illuminated Rings Blue		
	T5LR Type 5 Long Round	40L			SL Silver Metallic	H2				
	T5LS Type 5 Long Square	50L			CC Custom Color	H3			WSC-20 Motion Sensor 9-20' Mounting Height	IR-G Illuminated Rings Green
						H4				
					MAP-01 Mast Arm Fitter * Designed to slip over 2-3/8" O.D. mast arm.	H5	WSC-40 Motion Sensor 21-40' Mounting Height WSC options will require (1) FSIR 100 remote for programming	CLS Cutoff Louver Shield		
						H6				

Features & Specifications

ODEN ARRAY

Housing

- High-quality, one-piece spun aluminum shade and durable cast aluminum top cap; available in three housing sizes.
- All external hardware is stainless steel.
- One-piece spun aluminum removable door assembly.

Thermal Management

- The Oden - LED Array provides excellent overall thermal management by maximizing the efficiency of the heat sink in the fixture. This enables the Oden - LED Array to withstand higher ambient temperatures and higher drive currents without degrading LED life.

Optical System

- The highest lumen output LEDs are utilized. Estimated life of the LEDs is 100,000+ hours. Available with 6 IES distribution patterns. Available with up to 96 LED Arrays. The optical system qualifies as IES full cutoff to restrict light trespass, glare and light pollution for neighborhood-friendly lighting.
- Serenity Lens – A visually comfortable lens that reduces the glare of LED Arrays.
- CRI values are 70

New LED Array Technology

- 4 Diodes now replace a single Led chip and operate at 25% of the drive current allowing for higher efficiency, less heat and longer life. (10 Year Warranty)
- More LEDs at a lower drive current provides a more comfortable visual effect.

Quali-Guard® Finish

- Fixture components are chemically pretreated through a multiple-stage washer and finished with an electrostatically-applied, thermoset polyester powder coat textured paint with a 3 to 5 mils thickness. Finish is oven-baked at 400 °F for maximum adherence and finish hardness.
- Available in standard and custom colors.

Mounting

- The Oden - LED Array mounts to a wide selection of decorative and custom Visionaire mounting arms. Visionaire decorative mounting arm required. See Visionaire Mounting Arms section of the catalog.
- Oden 1 requires small decorative arm
- Oden 2 & Oden 3 requires large decorative arm

Electrical Assembly

- The Oden - LED Array is supplied with a high-performance LED driver, located in its cap, that accepts 120 V thru 277 V, and 480 V, 50 Hz to 60 Hz input.
- Power factor of 90%.
- Rated for -40 °C to +40 °C operations.
- 10 kV surge protector supplied as standard.

Warranty

- Ten (10) year Limited Warranty on electrical components.
 - Five (5) year on finish.
- For full warranty information, please visit visionairelighting.com.

Options

- Button type photocell
- Watt Stopper FSP-211
- 0-10 V dimming driver
- Wireless Controls
- Cutoff louver system
- Illuminated Rings

Listings

- Oden is cUL listed, suitable for wet locations.
- Powder Coated Tough™
- IP65 Rated
- IDA Certification
- PangeaLink



3000K must be selected for IDA certification.
Fixed mount must be selected for IDA dark sky certification.

Oden Array - Electrical Load (A)

Ordering Nomenclature	System Watts	120	208	240	277	347	480
ODN-1-T5LS-5L-4K	32	0.27	0.15	0.13	0.12	0.09	0.07
ODN-1-T5LS-10L-4K	66	0.55	0.32	0.28	0.24	0.19	0.14
ODN-1-T5LS-15L-4K	98	0.82	0.47	0.41	0.35	0.28	0.20
ODN-2-T5LS-20L-4K	150	1.25	0.72	0.63	0.54	0.43	0.31
ODN-2-T5LS-25L-4K	198	1.65	0.95	0.83	0.71	0.57	0.41
ODN-2-T5LS-30L-4K	206	1.72	0.99	0.86	0.74	0.59	0.43
ODN-2-T5LS-35L-4K	248	2.07	1.19	1.03	0.90	0.71	0.52
ODN-3-T5LS-40L-4K	298	2.48	1.43	1.24	1.08	0.86	0.62
ODN-3-T5LS-50L-4K	406	3.38	1.95	1.69	1.47	1.17	0.85

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Photometric Optical Summary



EPA Data

Fixture	Fixture Only	Fixture with VA110-S1	2 Fixtures with VA110-D2	Fixture with VA107-S1	2 Fixtures with VA107-D2
ODN-1	1.2	2.2	4.1	3.5	5.6
ODN-2	2.6	3.6	6.6	4.9	8.3
ODN-3	3.5	4.5	8.6	5.8	9.8

Dimensions

Size 1

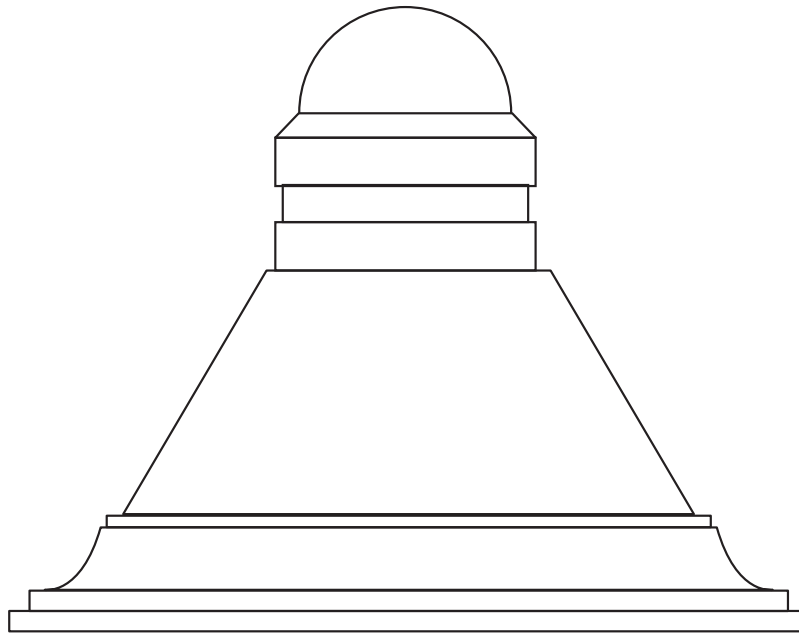
Width:	ODN-1 20"
Height:	ODN-1 17.5"
Weight:	40 LBS

Size 2

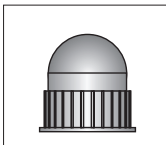
Width:	ODN-2 25"
Height:	ODN-2 22.5"
Weight:	53 LBS

Size 3

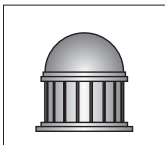
Width:	ODN-3 30"
Height:	ODN-3 24"
Weight:	74 LBS



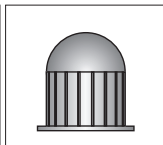
CAP 1 (C1)



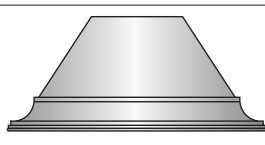
CAP 2 (C2)



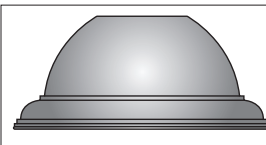
CAP 3 (C3)



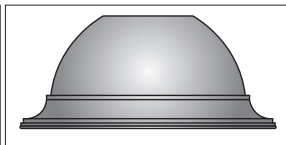
HOUSING 1 (H1)



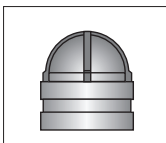
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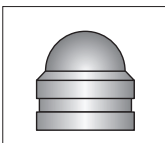
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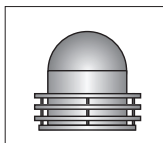
CAP 4 (C4)



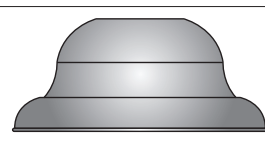
CAP 5 (C5)



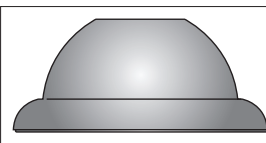
CAP 6 (C6)



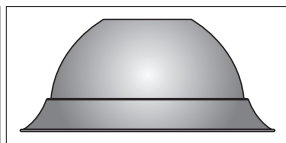
HOUSING 4 (H4)



HOUSING 5 (H5)



HOUSING 6 (H6)



LED Specifications **ODEN ARRAY**

	Oden Array - 3K Lumen Data											
	K Lumens	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Wattage
ODN-1	5L	4419	4408	4379	4271	4293	4476	4264	4296	4404	4516	32
	10L	8652	8631	8574	8363	8405	8765	8349	8412	8624	8842	66
	15L	12978	12946	12862	12544	12608	13147	12523	12618	12936	13264	98
ODN-2	20L	19521	19474	19346	18869	18964	19776	18837	18980	19458	19951	150
	25L	24606	24546	24385	23784	23904	24927	23744	23924	24526	25147	198
	30L	27192	27126	26948	26283	26416	27547	26239	26439	27103	27790	206
	35L	31642	31565	31359	30585	30740	32055	30533	30766	31539	32339	248
ODN-3	40L	36909	36818	36578	35675	35856	37390	35615	35886	36788	37721	298
	50L	45615	45503	45206	44091	44314	46210	44016	44351	45466	46619	406
	Oden Array - 4K Lumen Data											
	K Lumens	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Wattage
ODN-1	5L	4980	4968	4935	4813	4838	5045	4805	4842	4964	5089	32
	10L	9751	9727	9663	9425	9473	9878	9409	9481	9719	9965	66
	15L	14626	14590	14495	14137	14209	14817	14114	14221	14578	14948	98
ODN-2	20L	22000	21947	21803	21265	21373	22287	21229	21391	21929	22484	150
	25L	27731	27663	27482	26804	26940	28092	26759	26962	27640	28341	198
	30L	30645	30570	30370	29621	29771	31045	29571	29796	30545	31320	206
	35L	35661	35574	35341	34469	34644	36126	34411	34673	35544	36445	248
ODN-3	40L	41596	41494	41223	40206	40409	42138	40138	40443	41460	42511	298
	50L	51408	51282	50947	49690	49941	52078	49606	49983	51240	52539	406
	Oden Array - 5K Lumen Data											
	K Lumens	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Wattage
ODN-1	5L	5093	5081	5048	4923	4948	5160	4915	4952	5077	5206	32
	10L	9973	9949	9884	9640	9689	10103	9624	9697	9941	10193	66
	15L	14960	14923	14826	14460	14533	15155	14436	14545	14911	15289	98
ODN-2	20L	22503	22447	22301	21751	21861	22796	21714	21879	22429	22998	150
	25L	28364	28294	28109	27416	27554	28733	27370	27578	28271	28988	198
	30L	31345	31268	31064	30297	30451	31753	30246	30476	31243	32034	206
	35L	36475	36386	36148	35256	35434	36950	35196	35464	36356	37277	248
ODN-3	40L	42545	42441	42164	41124	41332	43100	41054	41366	42407	43482	298
	50L	52581	52453	52110	50824	51081	53267	50738	51124	52410	53738	406

Motion Sensor Default Setting									
Type	High Mode	Low Mode	Time Delay	Cut off Delay	Sensitivity	Hold Off Set Point	Photocell On/Off	Ramp up Time	Fade Down Time
WSC- Default	10V	1V	5 Min	1 Hour	Max	Disabled	Disabled	Disabled	Disabled
WSC Range	0-10V	0-9.8V	5-30 Min	1-5 Hours	Low, Med, Max	1-250FC	1-250FC	1-60 Dec	1-60 Dec

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	Oden Array - 3K Lumen Per Watt Data											
	K Lumens	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Wattage
ODN-1	5L	137	136	135	132	133	138	132	133	136	140	32
	10L	132	132	131	128	128	134	127	128	132	135	66
	15L	132	132	131	128	128	134	127	128	132	135	98
ODN-2	20L	130	130	129	126	127	132	126	127	130	133	150
	25L	124	124	123	120	120	126	120	121	124	127	198
	30L	132	132	131	128	128	134	127	128	132	135	206
	35L	128	127	126	123	124	129	123	124	127	130	248
ODN-3	40L	124	124	123	120	120	126	120	121	124	127	298
	50L	112	112	111	109	109	114	108	109	112	115	406
	Oden Array - 4K Lumen Per Watt Data											
	K Lumens	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Wattage
ODN-1	5L	154	153	152	149	149	156	148	150	153	157	32
	10L	149	148	147	144	145	151	144	145	148	152	66
	15L	149	148	147	144	145	151	144	145	148	152	98
ODN-2	20L	147	146	145	142	143	149	142	143	146	150	150
	25L	140	139	139	135	136	142	135	136	139	143	198
	30L	149	148	147	144	145	151	144	145	148	152	206
	35L	144	143	143	139	140	146	139	140	143	147	248
ODN-3	40L	140	139	139	135	136	142	135	136	139	143	298
	50L	127	126	126	122	123	128	122	123	126	129	406
	Oden Array - 5K Lumen Per Watt Data											
	K Lumens	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Wattage
ODN-1	5L	157	157	156	152	153	159	152	153	157	161	32
	10L	152	152	151	147	148	154	147	148	152	156	66
	15L	152	152	151	147	148	154	147	148	152	156	98
ODN-2	20L	150	150	149	145	146	152	145	146	150	153	150
	25L	143	143	142	138	139	145	138	139	142	146	198
	30L	152	152	151	147	148	154	147	148	152	156	206
	35L	147	147	146	142	143	149	142	143	147	150	248
ODN-3	40L	143	143	142	138	139	145	138	139	142	146	298
	50L	130	129	128	125	126	131	125	126	129	132	406

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Oden Array - 3K BUG Data																																
K Lumens	T1			T2			T3			T3L			T4			T4A			T4L			T5LR			T5LS			T5SR			Wattage	
	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G		
ODN-1	5L	2	0	2	1	0	1	1	0	1	2	0	2	1	0	1	1	0	1	1	0	2	3	0	2	3	0	1	2	0	1	32
	10L	3	0	3	2	0	2	2	0	2	3	0	3	2	0	2	2	0	2	2	0	2	3	0	2	3	0	2	3	0	1	66
	15L	4	0	4	3	0	3	2	0	2	3	0	3	3	0	3	2	0	2	3	0	3	4	0	3	4	0	2	4	0	2	98
ODN-2	20L	4	0	4	3	0	3	3	0	3	3	0	4	3	0	3	3	0	3	3	0	3	3	0	3	5	0	3	4	0	2	150
	25L	5	0	5	3	0	3	3	0	3	4	0	5	3	0	4	3	0	3	4	0	4	4	0	4	5	0	3	5	0	3	198
	30L	5	0	5	4	0	4	3	0	4	4	0	5	3	0	4	3	0	3	4	0	4	4	0	4	5	0	4	5	0	3	206
ODN-3	35L	5	0	5	4	0	4	3	0	4	4	0	5	4	0	4	4	0	3	4	0	4	4	0	4	5	0	5	5	0	4	248
	40L	5	0	5	4	0	4	4	0	4	4	0	5	4	0	5	4	0	4	4	0	4	4	0	5	5	0	5	5	0	4	298
	50L	5	0	5	4	0	4	4	0	5	4	0	5	4	0	5	4	0	4	4	0	5	5	0	5	5	0	5	5	0	4	406
Oden Array - 4K BUG Data																																
K Lumens	T1			T2			T3			T3L			T4			T4A			T4L			T5LR			T5LS			T5SR			Wattage	
	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G		B
ODN-1	5L	3	0	3	1	0	1	1	0	1	2	0	2	1	0	2	1	0	1	2	0	2	3	0	2	3	0	1	3	0	1	32
	10L	3	0	3	2	0	2	2	0	2	3	0	3	2	0	2	2	0	2	3	0	3	4	0	3	4	0	2	3	0	2	66
	15L	4	0	4	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	4	0	3	4	0	2	98
ODN-2	20L	4	0	4	3	0	3	3	0	3	4	0	4	3	0	3	3	0	3	3	0	4	5	0	4	5	0	3	4	0	2	150
	25L	5	0	5	4	0	4	3	0	4	4	0	5	3	0	4	3	0	3	4	0	4	4	0	4	5	0	4	5	0	3	198
	30L	5	0	5	4	0	4	3	0	4	4	0	5	4	0	4	4	0	3	4	0	4	4	0	4	5	0	5	5	0	4	206
ODN-3	35L	5	0	5	4	0	4	4	0	4	4	0	5	4	0	5	4	0	4	4	0	5	5	0	5	5	0	4	5	0	3	248
	40L	5	0	5	4	0	4	4	0	5	4	0	5	4	0	5	4	0	4	4	0	5	5	0	5	5	0	5	5	0	4	298
	50L	5	0	5	4	0	4	4	0	5	5	0	5	4	0	5	5	0	4	5	0	5	5	0	5	5	0	5	5	0	4	406
Oden Array - 5K BUG Data																																
K Lumens	T1			T2			T3			T3L			T4			T4A			T4L			T5LR			T5LS			T5SR			Wattage	
	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G		B
ODN-1	5L	3	0	3	1	0	1	1	0	1	2	0	2	1	0	2	1	0	1	2	0	2	3	0	2	3	0	1	3	0	1	32
	10L	3	0	3	2	0	2	2	0	2	3	0	3	2	0	2	2	0	2	3	0	3	4	0	3	4	0	2	3	0	2	66
	15L	4	0	4	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	4	0	3	4	0	2	98
ODN-2	20L	4	0	4	3	0	3	3	0	3	4	0	4	3	0	3	3	0	3	3	0	4	5	0	4	5	0	3	4	0	2	150
	25L	5	0	5	4	0	4	3	0	4	4	0	5	3	0	4	3	0	3	4	0	4	4	0	4	5	0	4	5	0	3	198
	30L	5	0	5	4	0	4	3	0	4	4	0	5	4	0	4	4	0	3	4	0	4	4	0	4	5	0	5	5	0	4	206
ODN-3	35L	5	0	5	4	0	4	4	0	4	4	0	5	4	0	5	4	0	4	4	0	5	5	0	5	5	0	4	5	0	3	248
	40L	5	0	5	4	0	4	4	0	5	5	0	5	4	0	5	4	0	4	4	0	5	5	0	5	5	0	5	5	0	4	298
	50L	5	0	5	4	0	4	4	0	5	5	0	5	4	0	5	5	0	4	5	0	5	5	0	5	5	0	5	5	0	4	406