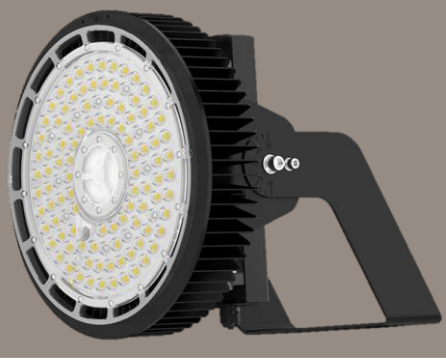
JASPER STADIUM LIGHT

OUTDOOR PRODUCTS

Outdoor stadium light



The Jasper Series LED luminaire is designed to show off your stadium and athletic field lighting needs. It offers a high efficacy of up to 150 LPW with multiple CCT and beam angle variations at both 120-277V, and 347-480V. Its bracket mount, optional visor, and laser positioning tool will allow you to be able to focus the light to maximize your space. It is designed to outshine its competitors which is why it is the perfect luminaire for your outdoor sporty location.

Project: _____

Qty: _____

Notes: _____

OPERATING & ELECTRICAL

Input voltage 100-277Vac, 347-480Vac

Power factor 0.9

Total harmonic distortion (THD) <20%

Dimming 0-10V external dimming down to 10%

PERFORMANCE

Lumens per Watt 145-150 LPW at 70CRI

Power 320, 480, 600W

Beam angle 25˚, 45˚, 90˚

MECHANICAL & HOUSING

Housing Cold forged pure aluminum for excellent thermal management and dissipation essential for long lasting, rigid structure and LED driver.

Lens UV resistant, polycarbonate lens ensures high efficiency light output for a clean, evenly illuminated surface with minimal glare. High transmittance lens allowing for a smooth, diffused light pattern.

Finish Powder coat finish for the toughest outdoor conditions. Available in black color option.

Power Supply Factory wired electronic LED driver

LED Board Light emitted source

APPLICATION CONDITION

Ambient temperature range -40 to 50°C

Protection LED fixture IP66 rated

COMPATIBLE MOUNTING

Mounting U-bracket

WARRANTY

System warranty 5 years

Lumen maintenance Rated for 70% initial lumen output at 100,000 hours of operation, operated at 25˚C ambient temperature; per guidelines published by the Illuminating Engineering Society (IES). (L70 at 100,000 hours)

ORDERING GUIDE

EXAMPLE: AE-IL-JP320W-IV-40-64-25-N-BK

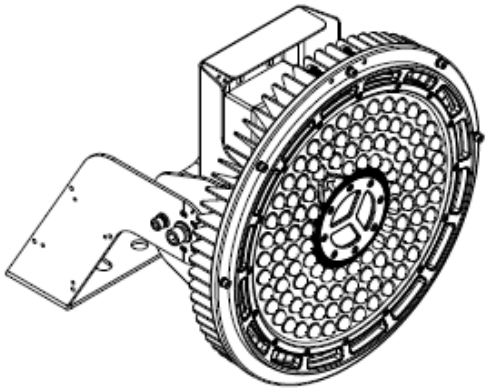
AE-IL-JP	320W	-IV	-40	-64	-25		-N	BK
FIXTURE FAMILY	POWER	VOLTAGE	CCT	LED CODE	BEAM ANGLE	DIMMING	CRI	FINISH
AE-IL-JP Aeralux Jasper Stadium Light Series LED stadium light fixture	**320W** 320 watts: 46400 lumens	**-IV** 120-277Vac input voltage range	**-40** 4000K CCT	**-64** LED code 64	**-25** 25˚ beam angle	**[LEAVE BLANK]** 0-10V external dimming	**-N** Normal 70 CRI	**-BK** Black powder coat finish
	480W 480 watts: 69600 lumens	**-HV** 347-480Vac input voltage range	**-50** 5000K CCT	**-77** LED code 77	**-45** 45˚ beam angle			
	600W 600 watts: 84000 lumens			**-98** LED code 98	**-90** 90˚ beam angle			

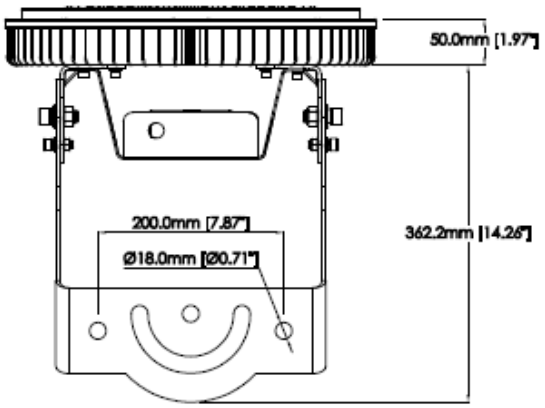
*Lumens displayed normalized at 4000K

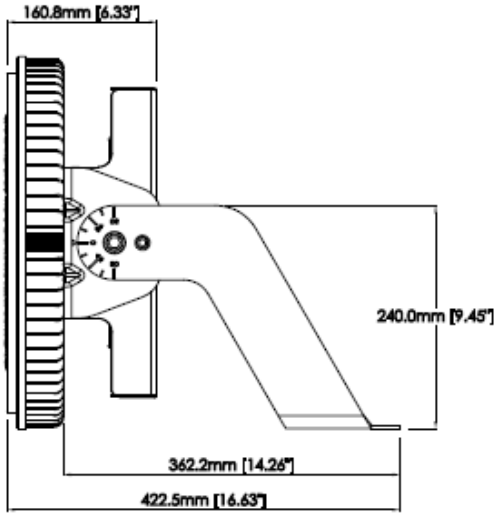
IP 66

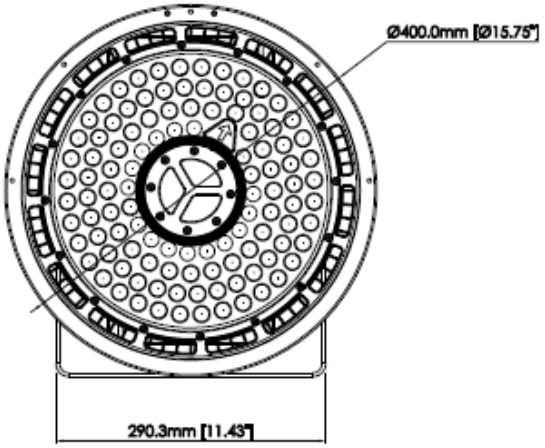
PRODUCT DIMENSIONS

AE-IL-JP320W



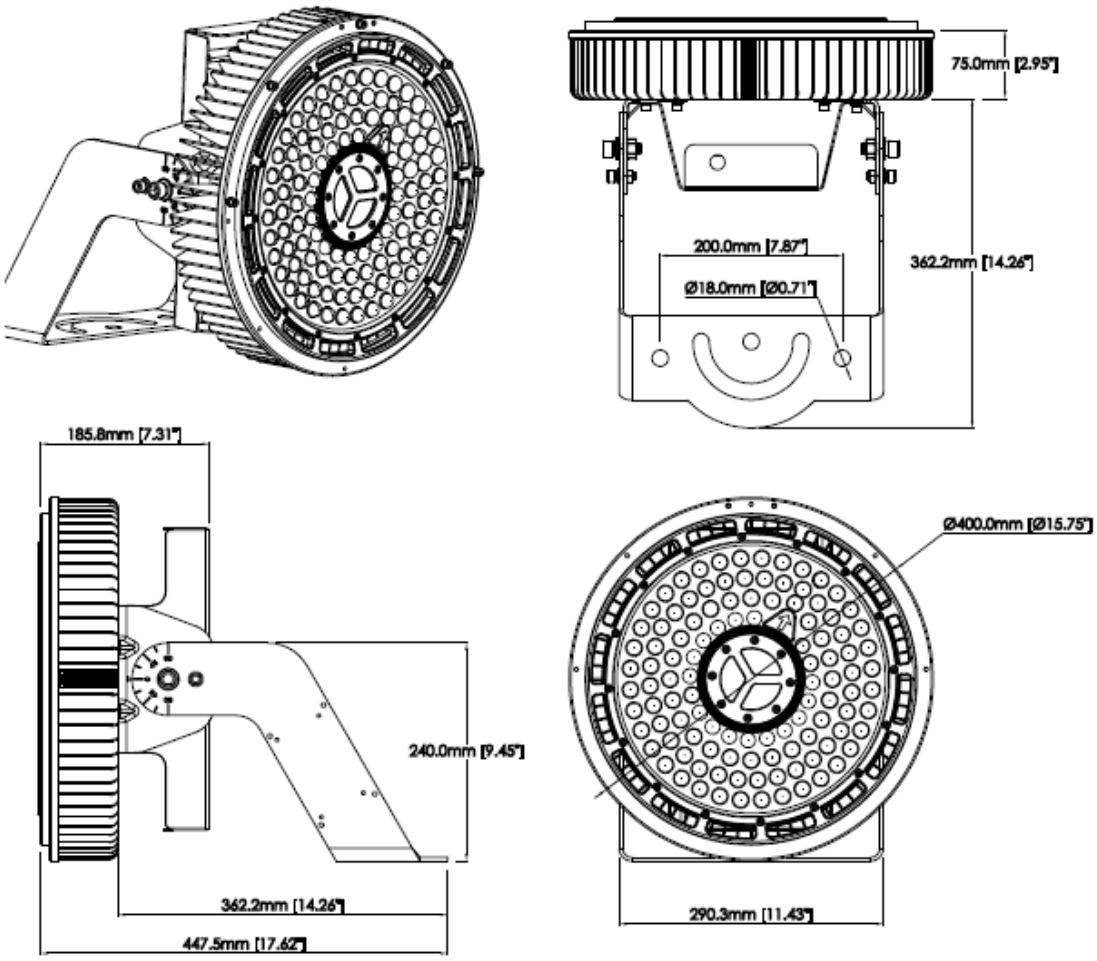






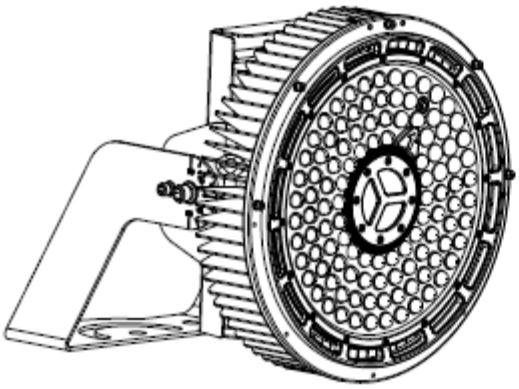
PRODUCT DIMENSIONS

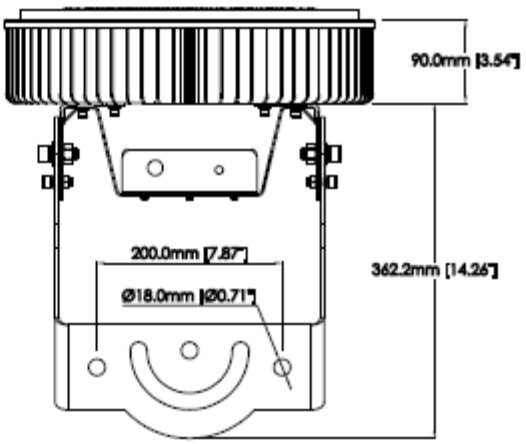
AE-IL-JP480W

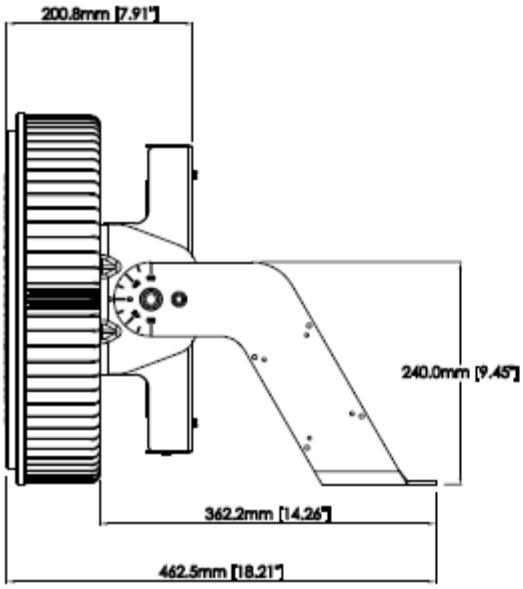


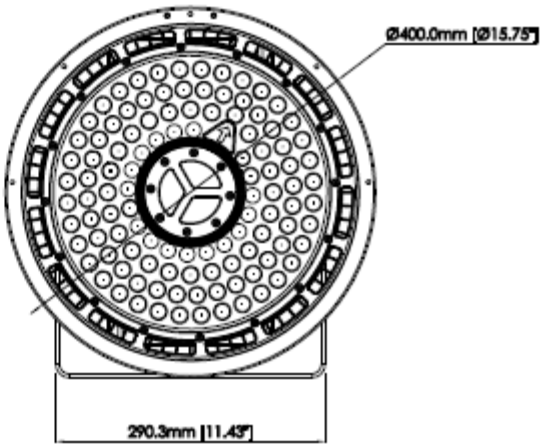
PRODUCT DIMENSIONS

AE-IL-JP600W









LUMEN ESTIMATE

Lumen output varies based on CCT and CRI. An estimate of lumen output of the various CCT/CRI combinations, use correction factors as per table below:

Lumen estimate adjustment factors

CCT	2700K	3000K	3500K	4000K
NORMAL (70CRI)	0.91	0.94	0.97	1

PHOTOMETRIC DATA

AE-IL-JP320W-IV-50-64-25-NXX

Coefficients of utilization

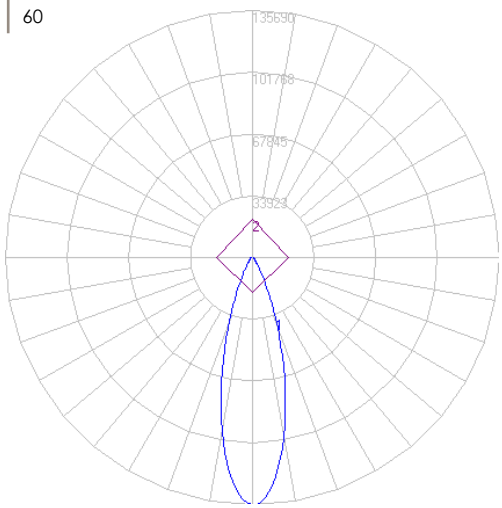
Ceiling		80%				70%		50%		30%		0%
Wall		70%	50%	30%	10%	50%	10%	50%	10%	50%	10%	0
RCR		Zonal Cavity Method – Effective floor reflectance = 20%										
Room Cavity Ratio		119	119	119	119	116	116	111	111	106	106	99
	1	113	110	108	106	108	104	104	100	100	97	93
	2	108	103	99	96	101	95	98	92	95	90	87
	3	103	97	92	88	95	88	93	86	90	85	82
	4	99	92	86	82	90	82	88	81	86	80	77
	5	95	87	81	77	86	77	84	76	82	76	74
	6	91	83	77	73	82	73	80	73	79	72	70
	7	87	79	74	70	78	70	77	69	76	69	67
	8	84	76	70	67	75	67	74	66	73	66	64
	9	81	73	67	64	72	64	71	64	70	63	62
	10	78	70	65	61	69	61	69	61	68	61	60

Luminance data

Angle	0°	45°	90°
45°	51850	52388	52926
55°	43263	43815	44367
65°	40551	41359	42167
75°	40918	42203	43489
85°	45118	47986	50855

Zonal lumen

Zone	Lumens	Zone	Lumens
0-10	10989.53	90-100	63.64
10-20	18015.26	100-110	15.22
20-30	9405.18	110-120	9.07
30-40	3518.17	120-130	12.31
40-50	2005.49	130-140	27.02
50-60	1561.62	140-150	52.55
60-70	1212.82	150-160	73
70-80	818.8	160-170	61.78
80-90	333.05	170-180	23.01



PHOTOMETRIC DATA

AE-IL-JP320W-IV-50-64-50-NXX

Coefficients of utilization

Ceiling		80%				70%		50%		30%		0%
Wall		70%	50%	30%	10%	50%	10%	50%	10%	50%	10%	0
RCR		Zonal Cavity Method – Effective floor reflectance = 20%										
Room Cavity Ratio		119	119	119	119	116	116	111	111	106	106	99
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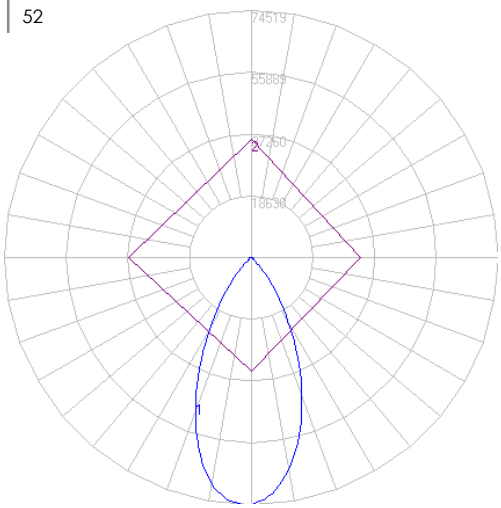
	2	107	102	98	95	101	94	97	92	94	90	86
	3	102	96	91	87	94	86	91	84	89	83	80
	4	97	90	84	80	88	79	86	78	84	77	75
	5	92	84	78	74	83	74	81	73	80	72	70
	6	88	79	73	69	78	69	77	68	75	68	66
	7	84	75	69	65	74	65	73	64	72	64	62
	8	80	71	65	61	70	61	69	60	68	60	58
	9	76	67	61	57	67	57	66	57	65	57	55
	10	73	64	58	54	63	54	62	54	62	54	52

Luminance data

Angle	0°	45°	90°
45°	46016	49768	53520
55°	23268	24136	25005
65°	25146	25387	25629
75°	20433	21346	22258
85°	50756	53102	55448

Zonal lumen

Zone	Lumens	Zone	Lumens
0-10	6758.86	90-100	24.68
10-20	16100.81	100-110	11.07
20-30	15916.67	110-120	8.73
30-40	9082.9	120-130	19.8
40-50	2320.9	130-140	43.38
50-60	854.79	140-150	65.59
60-70	713.95	150-160	73.35
70-80	438.42	160-170	60.28
80-90	322.33	170-180	24



PHOTOMETRIC DATA

AE-IL-JP320W-IV-50-64-90-NXX

Coefficients of utilization

Ceiling		80%				70%		50%		30%		0%
Wall		70%	50%	30%	10%	50%	10%	50%	10%	50%	10%	0
RCR		Zonal Cavity Method – Effective floor reflectance = 20%										
Room Cavity Ratio		119	119	119	119	116	116	111	111	106	106	99
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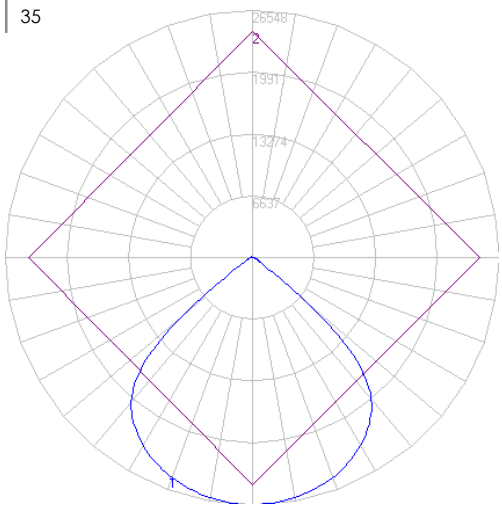
	5	85	74	67	61	73	61	71	60	69	60	57
	6	79	68	60	55	67	55	65	54	64	54	52
	7	74	62	55	49	61	49	60	49	59	49	47
	8	69	57	50	45	57	45	55	44	54	44	42
	9	65	53	46	41	52	41	51	40	50	40	38
	10	61	49	42	37	48	37	47	37	47	37	35

Luminance data

Angle	0°	45°	90°
45°	336838	334764	332689
55°	52076	52271	52466
65°	22850	22987	23124
75°	18543	18941	19340
85°	14910	14749	14588

Zonal lumen

Zone	Lumens	Zone	Lumens
0-10	2512.68	90-100	10.53
10-20	7266.48	100-110	9.91
20-30	11210.84	110-120	21.81
30-40	13677.07	120-130	39.34
40-50	12187	130-140	52.46
50-60	3020.94	140-150	55.52
60-70	708.95	150-160	51.27
70-80	371.57	160-170	36
80-90	108.05	170-180	13.01



ACCESSORIES

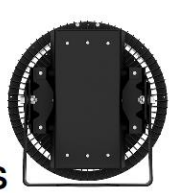
Ordered separately, field installed

VISOR AE-IL-JP-VS	Visor
LASER AE-IL-JP-LASER	Laser positioning kit
SURGE PROTECTOR AE-IL-JP-SP-10	10kV surge protector
JUNCTION BOX AE-IL-JP-JCBX	Die-cast aluminum junction box for SPD and wiring

JASPER STADIUM LIGHT

OUTDOOR PRODUCTS

Outdoor stadium light



PREMIUM MATERIALS
Constructed from cold forged aluminum enhancing thermal heat dissipation providing long lasting LED and driver function.

ACCESSORIES
Select additional visor and laser positioning kit attachments to complete your fixture setup.

VALUE-ENGINEERED DESIGN
Heat-sink is integrated into the fixture's housing allows for no additional components necessary for thermal heat management while ensuring a durable housing.

SIMPLE MOUNTING
Easy to install U-bracket mounting.

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