

ATLAS™ SERIES

LINEAR INDUSTRIAL & INDOOR SPORTS LIGHTING SYSTEM

DESIGNED IN ACCORDANCE WITH APPLICABLE IES RECOMMENDED PRACTICES

Intended for use as a Basis of Design lighting system for industrial, commercial, and indoor sports applications requiring linear, directional illumination and flexible optical control.

PROJECT SUBMITTAL	
PROJECT NAME	
TYPE / DESIGNATION	
CATALOG NUMBER	
SUBMITTED BY	DATE
NOTES / REMARKS	

70W | 100W | 150W | 200W | 240W | 300W | 400W

SYSTEM CONFIGURATIONS



ETL LISTED • DLC PREMIUM • IP20/IP65 • BAA COMPLIANT

SYSTEM ENGINEERING

Lighting system performance is achieved through modular linear LED bar assemblies with adjustable optical orientation, enabling directional light control for aisle, open-area, and application-specific layouts through coordinated fixture orientation and spacing.

KEY SYSTEM ATTRIBUTES

- Modular LED bar system with adjustable optical orientation
- Aisle-optimized optical distributions for rack lighting
- Extruded aluminum thermal structure for heat dissipation
- Linear form factor for directional light control
- Control-ready interface for sensor integration

SYSTEM OVERVIEW & PERFORMANCE SUMMARY

SYSTEM OVERVIEW

The Atlas™ Series is a modular linear LED lighting system engineered for warehouses, logistics facilities, and large interior environments requiring directional light control and uniform illumination.

The luminaire utilizes an extruded aluminum housing with integrated thermal management and modular LED bar assemblies to provide structural rigidity and stable thermal performance.

Adjustable LED bar orientation allows the optical distribution to be tailored for aisle lighting, open-area coverage, or indoor sports environments.

Lighting layouts using Atlas luminaires are verified through photometric simulation to confirm illumination levels, spacing, and uniformity.

SYSTEM PERFORMANCE IS ACHIEVED THROUGH COORDINATED DESIGN OF OPTICAL DISTRIBUTION, FIXTURE ORIENTATION, MOUNTING HEIGHT, AND SPACING.

DESIGNED FOR FULL COMPLIANCE WITH ANSI / IES RECOMMENDED PRACTICES.

Duvon sports lighting systems are designed as integrated lighting systems rather than individual luminaires.

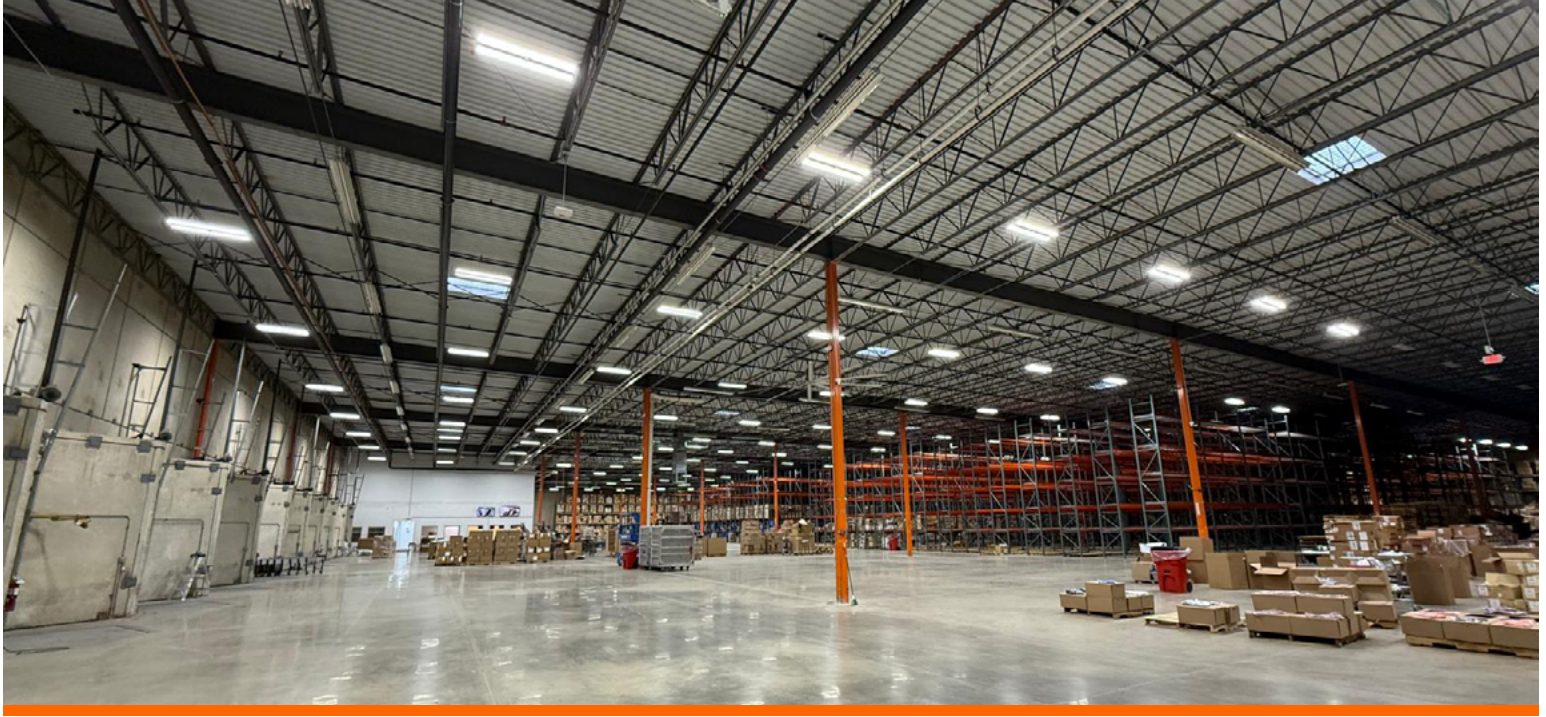
TESTING & COMPLIANCE

Photometric Testing: IES LM-79
LED Reliability: IES LM-80
Lifetime Projection: TM-21
Electrical Safety: UL 1598

SYSTEM PERFORMANCE SUMMARY

ATTRIBUTE	PERFORMANCE
Typical System Efficacy	140-150 lm/W
Rated Life	L70 ≥ 100,000 hours
Input Voltage	100-277 V std. (277-480 V opt.)
Operating Temperature	-40°F to +122°F
Ingress Protection	IP20 std. (IP65 opt.)
Surge Protection	3 kV integrated
Warranty	5-years

APPLICATIONS & DESIGN SUPPORT



PRIMARY APPLICATIONS

-  **HIGH-PERFORMANCE INDUSTRIAL & LOGISTICS FACILITIES**
High-bay warehouse storage and distribution centers, automated logistics and fulfillment facilities, manufacturing and production floors, cold storage and large industrial interiors.
-  **INDOOR SPORTS & RECREATION FACILITIES**
School and university gymnasiums, indoor basketball and volleyball courts, indoor soccer and multi-sport training centers, fitness and athletic training facilities.
-  **COMMERCIAL & INSTITUTIONAL INTERIORS**
Retail showrooms and commercial spaces, large interior workspaces and assembly halls.

TYPICAL MOUNTING CONDITIONS

Typical mounting heights: 15–35 ft. Final mounting height, fixture spacing, fixture orientation, and optical configuration shall be determined through project-specific lighting design.

ENGINEERING & DESIGN SUPPORT

Duvon provides lighting system design assistance including luminaire selection, optical configuration, and orientation strategy.

Engineering services include:

- AGi32 photometric layouts
- Fixture spacing calculations
- Mounting height evaluation
- Orientation and aiming recommendations
- Uniformity analysis

LIGHTING PERFORMANCE

REFERENCE STANDARD

Lighting designs utilizing Atlas luminaires are developed in accordance with applicable IES recommended practices, including:

- ANSI/IES RP-7 (Industrial Lighting)
- ANSI/IES RP-1 (Commercial Interiors)
- ANSI/IES RP-6 (Indoor sports applications, where applicable)

APPLICATION	IES RECOMMENDED AVG	DESIGN TARGET (PROJECT-DEPENDENT)
Industrial / Warehouse	10–30 fc	≤ 3.0:1
Logistics / Fulfillment	20–40 fc	≤ 2.5:1
Manufacturing (General)	30–50 fc	≤ 2.0:1
Manufacturing (Precision)	50–100 fc	≤ 1.5:1
Gymnasium (Recreational – Class IV)	40–60 fc	≤ 3.0:1
Training (Class III)	30–50 fc	≤ 2.5:1

Illumination and uniformity values represent design targets and shall be verified through project-specific photometric calculations.

TYPICAL SPACING GUIDANCE

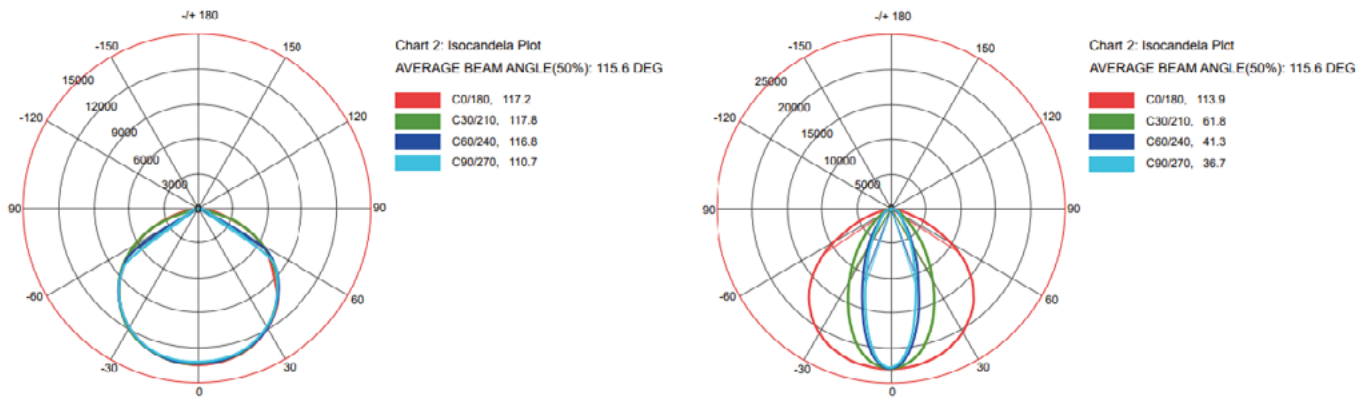
Fixture spacing in high-bay lighting systems is commonly evaluated using the spacing-to-mounting-height ratio (S/MH).

For wide distribution optics, typical S/MH ratios range between 1.2 and 1.5, depending on lumen output, optical distribution, and target illumination levels.

MOUNTING HEIGHT	TYPICAL FIXTURE SPACING	TYPICAL APPLICATION
15 ft	15–20 ft	Retail environments and gymnasiums
20 ft	20–25 ft	Standard warehouse lighting layouts
25 ft	25–32 ft	High-bay warehouses using mid-power luminaires
30 ft and above	30–40 ft	Distribution centers and logistics facilities

Actual fixture spacing depends on optical distribution, target illuminance levels, and facility geometry. Final fixture layout and uniformity should be verified using AGI32 photometric analysis.

OPTICAL DISTRIBUTIONS



OPTICAL TYPE	DISTRIBUTION	TYPICAL APPLICATION
Wide Distribution	120° lens optic	Open industrial spaces
Aisle Distribution	Asymmetric optic	Rack aisle illumination
Diffused Distribution	Diffuser optic	Reduced glare environments

OPTICAL DESIGN

Atlas luminaires utilize modular optical systems integrated into adjustable LED bar assemblies.

Wide-distribution optics provide uniform horizontal illumination across open spaces.

Aisle optics concentrate light along rack corridors to improve vertical illumination while reducing light spill between aisles.

Diffused optics reduce direct glare in environments where luminaires are viewed from below, such as gymnasiums.

Optical configuration and LED bar orientation shall be selected based on application requirements.

ELECTRICAL & MECHANICAL SPECIFICATIONS

LUMEN OUTPUT

MODEL	WATTS	LUMEN OUTPUT
ATLAS-70	70 W	9,800 lm
ATLAS-100	100 W	14,000 lm
ATLAS-150	150 W	21,000 lm
ATLAS-200	200 W	28,000 lm
ATLAS-240	240 W	33,600 lm
ATLAS-300	300 W	42,000 lm
ATLAS-400	400 W	56,000 lm

TYPICAL SYSTEM EFFICACY

140–150 lm/W

Depending on wattage, CCT, and driver configuration.

AVAILABLE CCT OPTIONS

4000K | 5000K

INPUT CURRENT (AMPERAGE)

VOLTAGE	70W	100W	150W	200W	240W	300W	400W
120V	0.58 A	0.83 A	1.25 A	1.67 A	2.00 A	2.50 A	3.33 A
208V	0.34 A	0.48 A	0.72 A	0.96 A	1.15 A	1.44 A	1.92 A
240V	0.29 A	0.42 A	0.63 A	0.83 A	1.00 A	1.25 A	1.67 A
277V	0.25 A	0.36 A	0.54 A	0.72 A	0.87 A	0.87 A	1.44 A
480V	0.15 A	0.21 A	0.31 A	0.42 A	0.50 A	0.50 A	0.83 A

Input current values are nominal. Final branch circuit sizing shall be verified in accordance with NEC and project requirements.

ELECTRICAL CHARACTERISTICS

ATTRIBUTE	SPECIFICATION
Input Voltage	100–277 V std. (277–480 V opt.)
Driver Type	Constant Current LED Driver
Surge Protection	3 kV integrated
Dimming	0–10 V compatible
Rated Life	L70 ≥ 100,000 hours
CRI	80 std. (90 opt.)

MECHANICAL CONSTRUCTION

COMPONENT	SPECIFICATION
Housing	Extruded aluminum heat-sink
Finish	White TGIC polyester powder-coat

MOUNTING OPTIONS

Hook Mount (Standard)

Integrated hook mounting point supplied with stainless steel suspension chains for ceiling suspension installations.

U-Bracket Mount (Optional)

Heavy-duty adjustable steel U-bracket mounting system for rigid mounting to structural members or mounting frames.

Surface Bracket Mount (Optional)

Rigid mounting bracket for direct attachment to structural surfaces where suspension mounting is not preferred.

ADJUSTABLE OPTICAL MODULES

Each LED bar module may be individually adjusted to modify the distribution angle, allowing optimization for aisle lighting, open-area coverage, or sports environments.

MECHANICAL DATA

2 FT MODELS	LENGTH	WIDTH	WEIGHT
ATLAS-70	23.6 in	8.15 in	8.0 lbs
ATLAS-100	23.6 in	8.15 in	8.6 lbs
ATLAS-150	23.6 in	8.15 in	9.8 lbs
ATLAS-200	23.6 in	8.15 in	10.1 lbs
4 FT MODELS	LENGTH	WIDTH	WEIGHT
ATLAS-100	47.24 in	8.15 in	13.8 lbs
ATLAS-150	47.24 in	8.15 in	15.0 lbs
ATLAS-200	47.24 in	8.15 in	15.9 lbs
ATLAS-240	47.24 in	8.15 in	14.8 lbs
ATLAS-300	47.24 in	8.15 in	16.7 lbs
ATLAS-400	47.24 (x2) in	12.28 in	25.7 lbs

Atlas height (all models): 1.6 in

NOTES

Fixture dimensions are based on the extruded aluminum housing platform used across the Atlas™ Series. Weight variation reflects driver configuration, LED module count, and mounting hardware.

SYSTEM CONTROLS

Atlas luminaires include a pre-wired interface for integration with lighting control systems.

Compatible devices include:

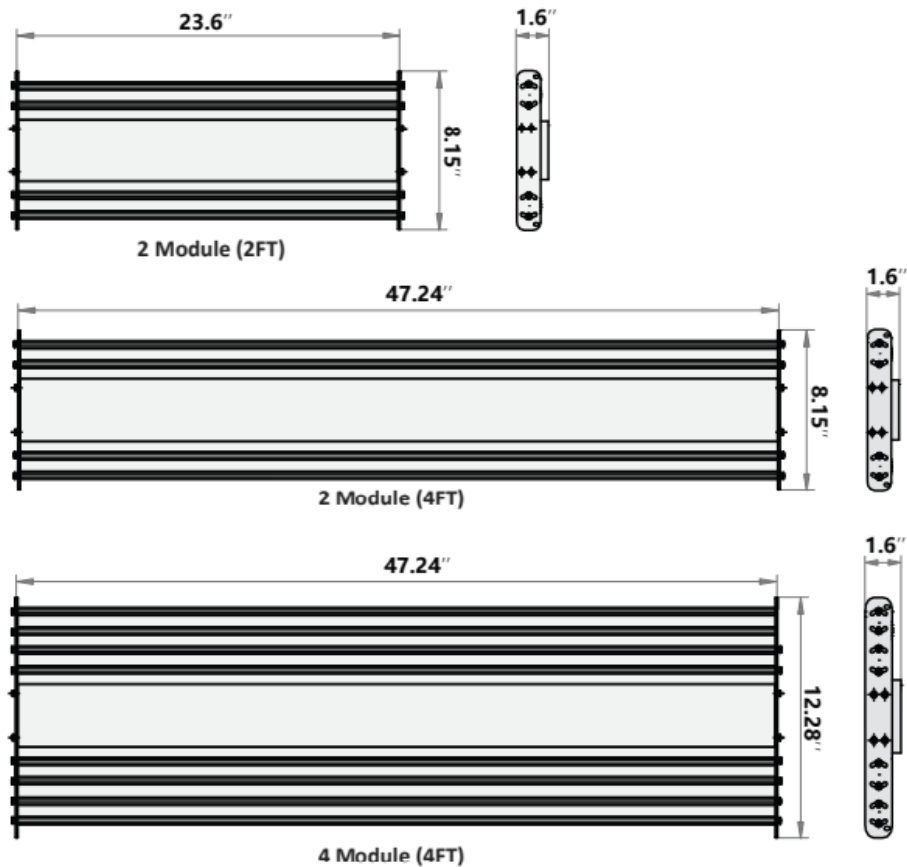
- Occupancy sensors
- Daylight sensors
- Wireless lighting controls
- Building management systems

Control features may include:

- On/off control
- Scheduled operation
- Dimming (0-10 V)
- Energy monitoring

Control configuration is determined by project requirements.

DIMENSIONAL DATA



ORDERING INFORMATION & SUBMITTAL SCHEDULE

MODEL SELECTION BUILDER

MODEL	WATTS	CCT	CRI	OPTIC	VOLTAGE	MOUNT	OPTIONS
ATLAS	70	40K	80	A	STD	HK	MS
	100						
	150						
	200						
	240						
	300						
	400						
		50K	90	B	HV	UB	SC
				C		SB	

Bold values indicate standard configuration.

CATALOG NUMBER EXAMPLE ATLAS-200-50K-80-A-STD-HK-MS

CONFIGURATION CODES

CCT

40K = 4000K

50K = 5000K

OPTICS

A = WIDE DISTRIBUTION

B = AISLE DISTRIBUTION

C = DIFFUSED DISTRIBUTION

VOLTAGE

STD = 100-277V

HV = 277-480V

MOUNT

HK = HOOK MOUNT

UB = U-BRACKET

SB = SURFACE BRACKET

OPTIONS

MS = MOTION SENSOR

SC = SMART CONTROL INTERFACE

FIXTURE SCHEDULE		
TYPE	CATALOG NUMBER	QTY

Final configuration shall be verified against project-specific electrical and photometric requirements.

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ATLAS™ SERIES
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE