

Light-Structure System™

LED Light Source

5 Easy Pieces™

Complete System from
Foundation to Poletop



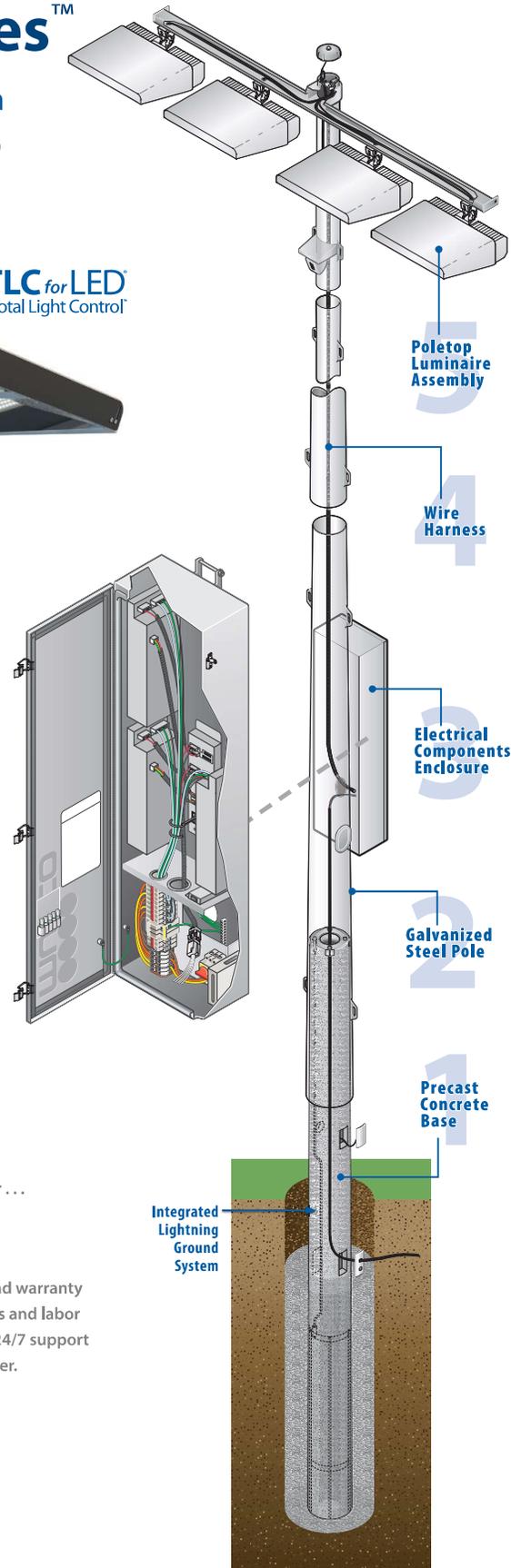
TLC for LED
Total Light Control



All components designed to work together . . .
factory built, wired, aimed, and tested
to assure reliable, trouble-free operation

Covered by a 25-year product assurance and warranty
program with guaranteed light levels, parts and labor
for maintenance, system monitoring, and 24/7 support
from our Control-Link Central™ service center.

For your
BUDGET,
for the
ENVIRONMENT.



Superior light control and long term reliability

- Alignment
- Thermal Management
- LED Optic
- Housing Internal Environment

Heat Sink

- Unique convective air cooling design
- High thermal conductivity, corrosion resistant construction
- Machined mounting surface for maximum heat transfer of the diode assembly
- Maintains low LED junction temperature during high wattage operation

Knuckle Assembly and Connection Plate

- Factory aimed to within 0.2 degree accuracy
- Maintains alignment in up to 150 mph winds
- Internal wiring protected from elements
- Completes integration of lighting to structural and electrical components

Lens

- Permanently sealed to keep optics away from harmful environmental elements
- Vented and filtered to adapt to environment
- Impact-resistant, tempered glass for strength

Diode Assembly

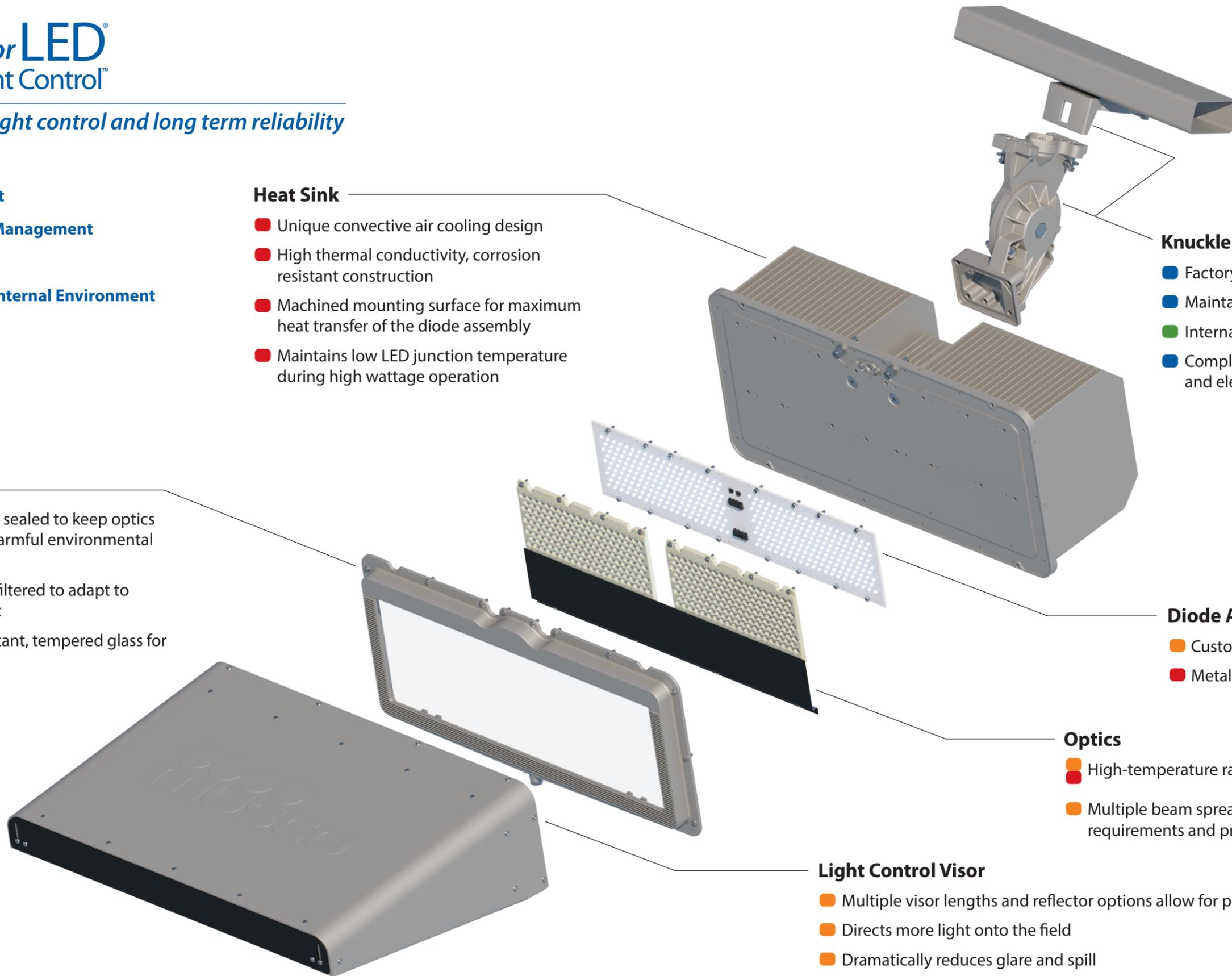
- Custom high-power diode package
- Metal core printed circuit board

Optics

- High-temperature rated materials for long life
- Multiple beam spreads to meet custom project requirements and provide maximum light control

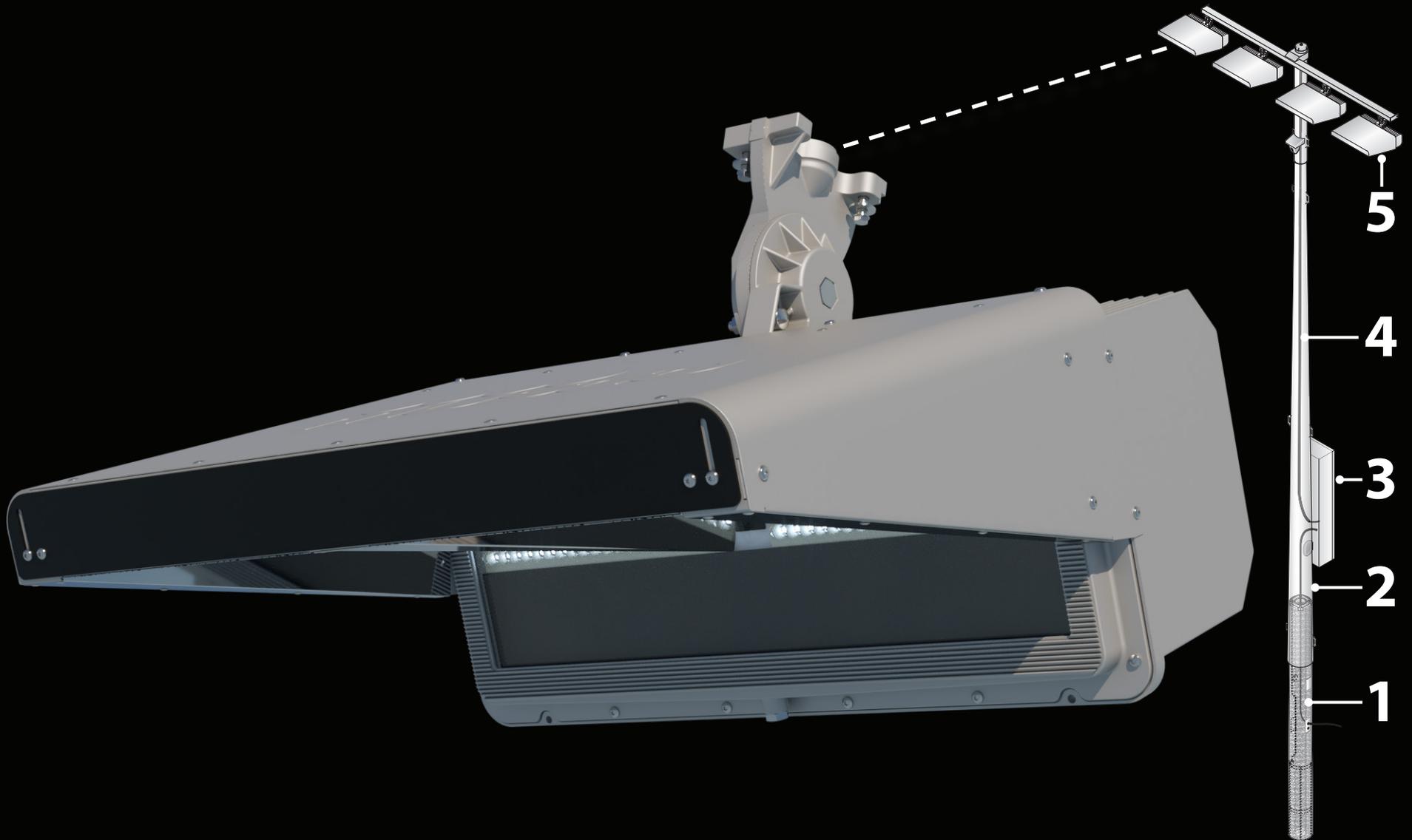
Light Control Visor

- Multiple visor lengths and reflector options allow for precise light control
- Directs more light onto the field
- Dramatically reduces glare and spill
- Enhances on-field playability



TLC-LED-1500

Total Light Control™ - TLC-LED-1500



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5 Easy Pieces™

Luminaire Data

Weight (luminaire)	67 lb (30 kg)
UL listing number	E338094
UL listed for USA / Canada	UL1598 CSA-C22.2 No.250.0
CE Declaration	LVD, EMC, RoHS
Ingress protection, luminaire	IP65
Impact rating	IK07
Material and finish	Aluminum, powder-coat painted
Wind speed rating (aiming only)	150 mi/h (67 m/s)
UL, IEC ambient temperature rating, luminaire	50°C (122°F)

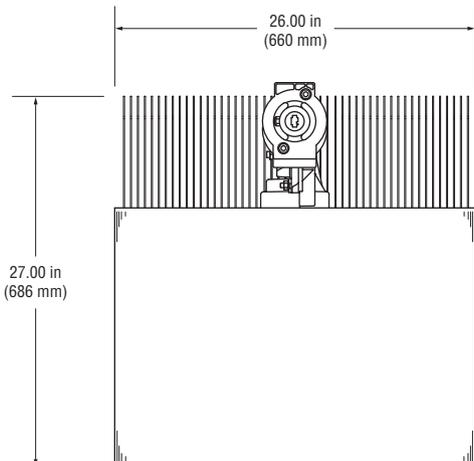
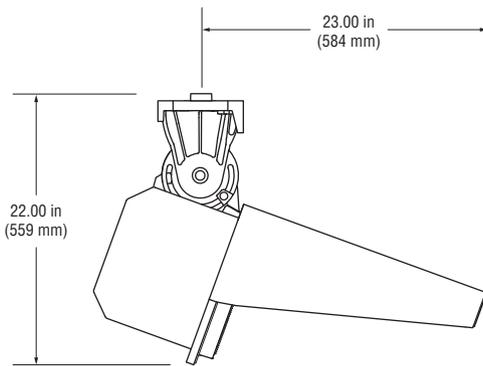
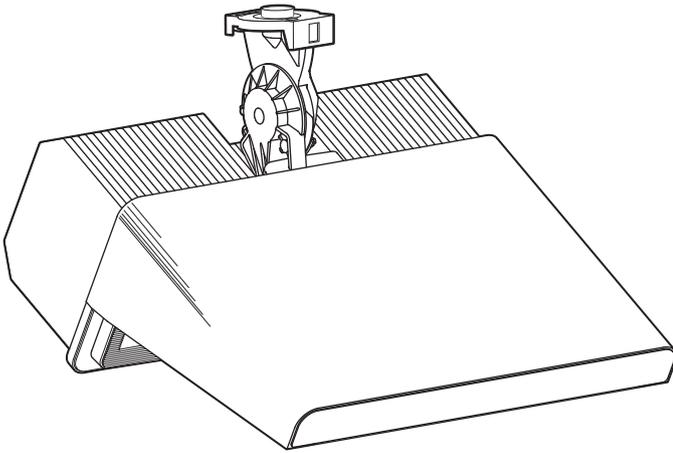
Photometric Characteristics

Projected lumen maintenance per IES TM-21-11

L90 (20k)	>120,000 h
L80 (20k)	>120,000 h
L70 (20k)	>120,000 h
Lumens ¹	160,000
CIE correlated color temperature	5700 K
Color rendering index (CRI)	75 typ, 70 min
LED binning tolerance	7-step MacAdam Ellipse

Footnotes:

1) Incorporates appropriate dirt depreciation factor for life of luminaire.

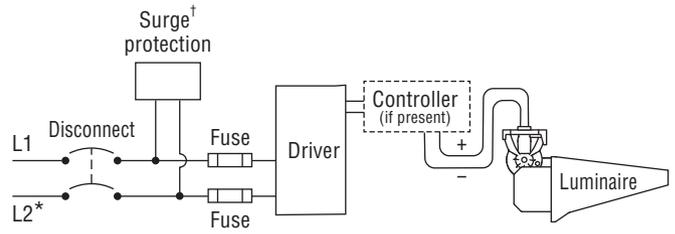


Driver Data

Electrical Data

Rated wattage ¹	
Per driver	1430 W
Per luminaire	1430 W
Number of luminaires per driver	1
Starting (inrush) current	<40 A, 256 μs
Fuse rating	15 A
UL, IEC ambient temperature rating, electrical components enclosure	50°C (122°F)
Ingress protection, electrical components enclosure	IP54
Efficiency	95%
Dimming mode	optional
Range, energy consumption	12 – 100%
Range, light output	17 – 100%
Flicker	<2%
Total harmonic distortion (THD) at full output	<20%

Typical Wiring



* If L2 (com) is neutral then not switched or fused.
 † Not present if indoor installation.

	200 Vac 50/60 Hz	208 Vac 60 Hz	220 Vac 50/60 Hz	230 Vac 50 Hz	240 Vac 50/60 Hz	277 Vac 60 Hz	347 Vac 60 Hz	380 Vac 50/60 Hz	400 Vac 50 Hz	415 Vac 50 Hz	480 Vac 60 Hz
Max operating current per luminaire²	8.86 A	8.52 A	8.06 A	7.71 A	7.39 A	6.40 A	5.11 A	4.67 A	4.43 A	4.27 A	3.70 A

Footnotes:

- 1) Rated wattage is the power consumption, including driver efficiency losses, at stabilized operation in 25°C ambient temperature environment.
- 2) Operating current includes allowance for 0.90 minimum power factor, operating temperature, and LED light source manufacturing tolerances.

Notes

1. Use thermal magnetic HID-rated or D-curve circuit breakers.
2. See *Musco Control System Summary* for circuit information.

