

WS Series

WS4™ Wet Location Linear Vapor Tight — 4'

Rev. Date: V805/23/2023

Product Description

The Cree Lighting WS Series is a versatile IP65/IP66 rated and NSF certified fixture that provides sealed protection against dust and water ingress. Constructed of a one-piece, durable fiberglass housing and available with either diffused acrylic or polycarbonate lenses; the WS Series can be suspended or surface mounted while maintaining its operating range of -25°C - +40°C (-13°F - +104°F).

Applications: Food processing, animal containment, parking garages, garden centers, breezeways, cold-storage and other industrial applications

Performance Summary

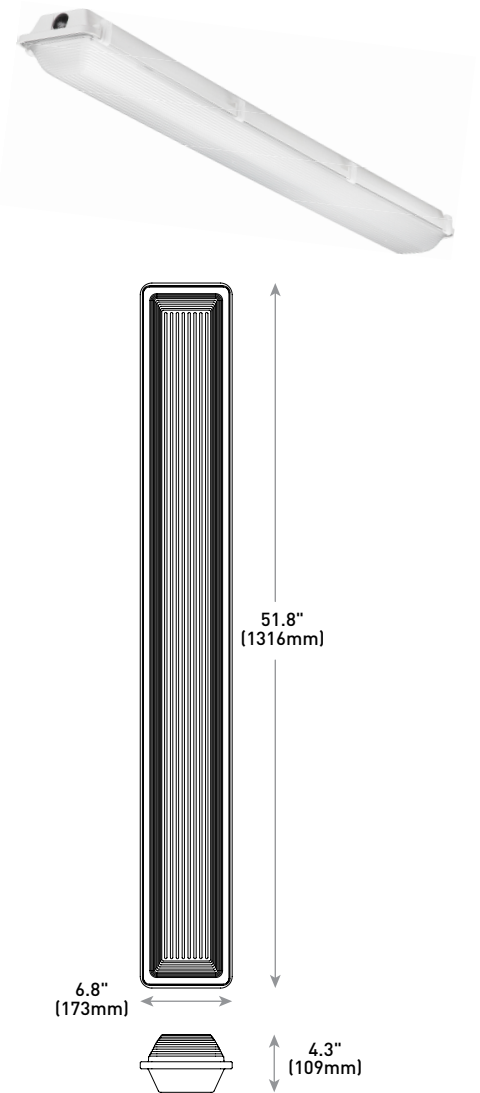
Initial Delivered Lumens: 4,100 or 6,100 lumens
Efficacy: Up to 142 LPW
Input Wattage: 30 or 43 watts
CRI: Minimum 80 CRI
CCT: 3500K, 4000K, 5000K
Input Voltage: 120-277 VAC or 347-480 VAC
Limited Warranty*: 5 years for luminaire; 1 year for luminaire accessories
Mounting: Ceiling, wall, or suspended
Dimming: 0-10V dimming to 10%
Operating Temperature Range: Up to +40°C (104°F)
Assembled in the USA by Cree Lighting from US and imported parts

* See <https://www.creelighting.com/resources/warranties> for warranty terms

Accessories

Field-Installed	
Tamper Proof Kit WS4TPK - Includes 4 tamper proof screws and bit Tamper Proof Kit for Stainless Steel Latches WSSSL4TPK - Includes 4 tamper proof screws and bit	Stainless Steel Safety Cables SC-5C - 5.0' (1.5m) Cable - Two required per luminaire - Non-NSF certified

Luminaire (shown with LRA lens)



Ordering Information

Example: WS4-C-40L-LFA-35K-8-UL

Product	Series	Lumen Package	Lens	CCT	CRI	Voltage	Options
WS4	C	40L 30W, 4,100 lumens 60L 43W, 6,100 lumens	LFA Frosted Acrylic LFP Frosted Polycarbonate LRA Ribbed Acrylic	35K 3500K 40K 4000K 50K 5000K	8 80+ CRI	UL 120-277 Volt UH 347-480 Volt	SSL Stainless Steel Latches



US: [creelighting.com](https://www.creelighting.com) (800) 236-6800
 Canada: [creelighting-canada.com](https://www.creelighting-canada.com) (800) 473-1234

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Product Specifications

CONSTRUCTION & MATERIALS

- Molded one-piece reinforced fiberglass housing
- Two 3/4" IP entry points are provided (one at each end of the housing) for continuous feed
- Includes eight captive white thermoplastic latches standard; stainless steel latches optional
- Suitable for ceiling and wall mount
- Includes two stainless steel mounting brackets and bails for surface or suspended mounting
- Weight:** 11.4 lbs. (5.2kg)

OPTICAL SYSTEM

- Three injection molded lens choices: frosted ribbed acrylic, frosted acrylic, and frosted UV-stabilized polycarbonate
- Polyurethane gasketing is poured in place, providing a continuous, seamless seal

ELECTRICAL SYSTEM

- Input Voltage:** 120-277V or 347-480V, 50/60Hz
- Power Factor:** > 0.9 at full load
- Total Harmonic Distortion:** < 20% at full load
- Operating Temperature Range:** -25°C to +40°C (-13°F to +104°F)
- Integral 6kV/3kA surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current

CONTROLS

- Continuous dimming to 10% with 0-10V DC control protocol standard
- 10V Source Current:** 0.15mA
- Use only lighting controls with neutral connection or controls intended for use with LED fixtures
- Reference [dimming document](#) for additional information

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- IP65 and IP66 rated in accordance with IEC Publication 60598-1
- Intended for covered canopy use
- Requires minimum 90°C supply conductors
- RoHS compliant. Consult factory for additional details
- ANSI C136.2 6kV/3kA surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Assembled in the USA by Cree Lighting from US and imported parts
- Meets Buy American requirements within ARRA
- DLC qualified. Please refer to www.designlights.org/QPL for most current information
- NSF Splash-Zone 2 Certified. Refer to <http://info.nsf.org/Certified/Food/> for additional details
- CA RESIDENTS WARNING:** Cancer and Reproductive Harm - www.p65warnings.ca.gov

Electrical Data*										
Lumen Package	CCT	Delivered Lumens (all lenses)	System Watts 120-480V	Efficacy (LPW)	Total Current (A)					
					120V	208V	240V	277V	347V	480V
40L	All	4,100	30	137	0.25	0.14	0.13	0.11	0.09	0.06
60L	All	6,100	43	142	0.36	0.21	0.18	0.15	0.12	0.09

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/- 10%

WS Series Ambient Adjusted Lumen Maintenance ¹					
Ambient	Initial LMF	25K hr Reported ² LMF	50K hr Reported ² LMF	75K hr Estimated ³ LMF	100K hr Estimated ³ LMF
0°C (32°F)	1.04	0.98	0.92	0.87	0.82
5°C (41°F)	1.03	0.97	0.91	0.86	0.81
10°C (50°F)	1.03	0.97	0.91	0.86	0.81
15°C (59°F)	1.02	0.96	0.91	0.85	0.81
20°C (68°F)	1.01	0.93	0.88	0.83	0.78
25°C (77°F)	1.00	0.93	0.87	0.82	0.77
30°C (86°F)	0.99	0.92	0.87	0.82	0.77
35°C (95°F)	0.98	0.91	0.86	0.81	0.77
40°C (104°F)	0.97	0.91	0.85	0.80	0.76

¹ Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the [Temperature Zone Reference Document](#) for outdoor average nighttime ambient conditions.

² In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.

³ Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

LFP and LFA Lenses (lens only)

