

Noctura Series

LED Wall Mount Luminaires – Series B

Rev. Date: V2 04/23/2026

Product Description

The Noctura® LED Wall Mount luminaire minimizes cost of ownership with easy installation, high performance and quality backed by a Cree Lighting 5-year limited warranty. The Noctura Series has a coordinated style across area, flood and wall mount luminaires to provide a consistent daytime appearance across a building site or campus. The rugged yet lightweight aluminum housing and mounting box are designed for easy installation of a variety of junction box styles (4" square, 3" and 4" octagonal, single gang (vertical or horizontal mounts)). Luminaires allow for through-wired or conduit entry from the top, bottom, sides and rear.

Applications: Ideal for both retrofit and new installation: building facade, security and general lighting applications.

Performance Summary

Lumen Output: 7,375/6,525/5,175 or 21,300/18,600/15,000 selectable lumens

Input Power: 51W/43W/33W or 150W/122W/96W

Efficacy: Up to 157 LPW

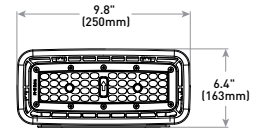
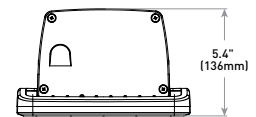
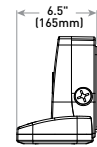
CRI: Minimum 70 CRI

CCT: 4000K

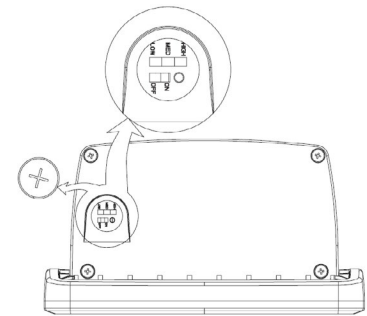
Limited Warranty*: 5 years for luminaire

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

NTWS



Selectable Switch



See page 3 for large lumen package line drawings.

Ordering Information

Example: NTWL-B-S23L-40K7-3M-UL-WM-BZ-P

NTW		B		40K7	3M	UL	WM	BZ	P
Family	Size	Series	Lumen Package	CCT/CRI	Optic	Voltage	Mounting	Finish	Photocell
Noctura® Wall Luminaire	S Small Housing	Series B	Small Housing S7L Selectable Lumen Package (7,375/6,525/5,175 Lumens) - Ships from factory at 7,375 lumens	4000K, 70 CRI	3M Type III Mid	UL Universal 120-277V	WM Wall Mount	BZ Bronze	P Integrated Button Photocell - Ships from factory in on position
	L Large Housing		Large Housing S23L Selectable Lumen Package (21,300/18,600/15,000 Lumens) - Ships from factory at 21,300 lumens						



Website: [creelighting.com](https://www.creelighting.com)

US: (800) 236-6800 Canada: (800) 473-1234

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Product Specifications


CONSTRUCTION & MATERIALS

- Luminaire housing is rugged die cast aluminum with integral, LED driver compartment is specifically designed for LED applications with advanced LED thermal management and driver
- Luminaire mounting box designed for easy installation of a variety of junction box styles: 4" square, 3" and 4" octagonal, single gang, vertical or horizontal mounts
- Luminaire can also be direct mounted to a wall and surface wired
- Direct mount to junction box with knockouts and grommet on back
- S23L housings have knockouts for additional mounting screws to provide added mounting stability (recommended)
- Luminaires allow for through-wired or conduit entry from the top, bottom, sides and rear
- Housing and mounting accessories finished in bronze polyester powder coat paint, 2.5 mil nominal thickness
- Selectable lumen packages include integral switch with three levels of lumen output for maximum flexibility in the field and an on/off switch for integral photocell. Luminaire ships with the lumen output switch set to high and the photocell switch set to on
- Weight:** S7L-4.6 lbs. (2.1kg); S23L - 12.8 lbs. (7.8kg)

ELECTRICAL SYSTEM

- Input Voltage:** 120-277V, 50/60Hz
- Power Factor:** > 0.9 at full load
- Total Harmonic Distortion:** < 20% at full load
- Integral 10kV/5kA surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Designed with 0-10V dimming capabilities. Controls by others
- Maximum 10V Source Current:** 0.12 mA
- Operating Temperature Range:** -30°C - +40°C (-22°F - +104°F)
- Snap connectors make wiring quick and simple

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed (UL1598)
- Suitable for wet locations
- Designed for downlight applications only
- Meets NEMA C82.77 standards
- Drivers and LEDs are UL Recognized in accordance with UL8750
- Enclosure meets IP65 requirements per IEC 60529
- Certified to ANSI C136.31-2018, 3G vibration standards
- ANSI C136.2 10kV/5kA surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- RoHS compliant. Consult factory for additional details
-  **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Electrical Data*						
Lumen Package	Setting*	System Watts	Total Current (A)			
			120V	208V	240V	277V
S7L	High	51	0.44	0.25	0.22	0.19
	Medium	43	0.38	0.23	0.20	0.16
	Low	33	0.30	0.18	0.15	0.13
S23L	High	150	1.27	0.73	0.63	0.55
	Medium	122	1.11	0.62	0.56	0.48
	Low	96	0.89	0.51	0.44	0.38

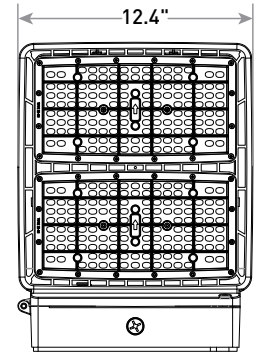
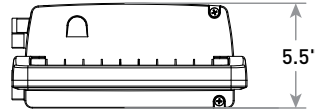
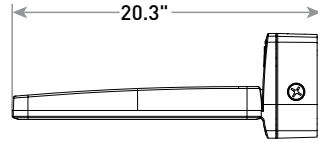
* Selectable lumen packages ship from factory at full lumen output (high setting), and is adjustable to the other lumen outputs in the field with the flip of a switch.

Noctura Series Ambient Adjusted Lumen Maintenance ¹					
Ambient	Initial LMF	25K hr Reported ² LMF	50K hr Reported ² LMF	75K hr Reported ² LMF	100K hr Reported ² LMF
5°C (41°F)	1.04	0.98	0.93	0.88	0.84
10°C (50°F)	1.03	0.97	0.92	0.87	0.83
15°C (59°F)	1.02	0.97	0.91	0.87	0.82
20°C (68°F)	1.01	0.96	0.91	0.86	0.81
25°C (77°F)	1.00	0.95	0.90	0.85	0.80
30°C (86°F)	0.99	0.94	0.89	0.84	0.80
35°C (95°F)	0.98	0.93	0.88	0.83	0.79
40°C (104°F)	0.97	0.92	0.87	0.82	0.78

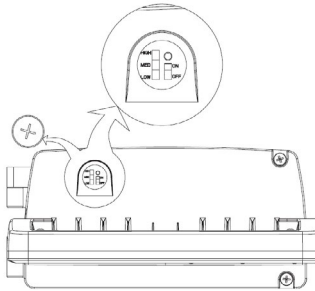
¹ Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the [Temperature Zone Reference Document](#)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

NTWL



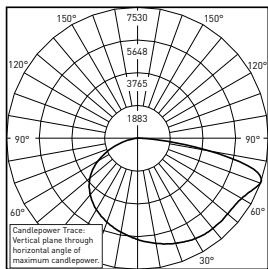
Selectable Switch



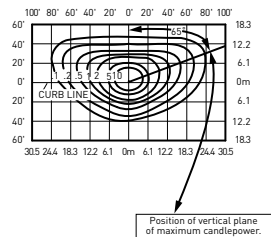
Photometry

All published luminaire photometric testing performed to IES LM-79 standards. To obtain an IES file specific to your project consult: <https://creelighting.com/products/outdoor/wall-mount/noctura-wall>

3M



RESTL Test Report #: PL18973-003A
 NTWL-B-S23L-40K7-3M-UL-xx-xx
Initial Delivered Lumens: 21,620



NTWL-B-S23L-40K7-3M-UL-xx-xx
Mounting Height: 15' (4.6m) A.F.G.
Initial Delivered Lumens: 21,300
 Initial FC at grade

Type III Mid Distribution			
Lumen Package	Setting	4000K (70 CRI)	
		Initial Delivered Lumens*	BUG Ratings** per TM-15-20
S7L	High	7,375	B2 U0 G1
	Medium	6,525	B2 U0 G1
	Low	5,175	B2 U0 G1
S23L	High	21,300	B3 U0 G3
	Medium	18,600	B3 U0 G3
	Low	15,000	B3 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>. Valid with no tilt