

VersaTEK Small LED Floodlight Series

VTSFL Specification Data Sheet

Luminaire Data

Weight	21.3 lbs [9.7 kg] ('SF', 'SFH', 'SFC' mount)
	23.5 lbs [10.7 kg] ('TR' mount)
	20.9 lbs [9.5 kg] ('YK' mount)
	25.1 lbs [11.4 kg] ('AWM' mount)
	28.6 lbs [13.0 kg] ('AWMSC' mount)
	20.7 lbs [9.4 kg] ('ASPM' mount)
	21.3 lbs [9.7 kg] ('ARPM' mount)



(*VTSFL small housing w/ 'SF' slipfitter mount & optional 'PCR7CR' shown)

Ordering Information

Sample Catalog No.: VTSFL-72A-MV-40K7-N66-DB1-CF-P7-SFH-D4I-PCR7CR-TB-WL1-SP2-SF120

Product*	LED Code	Voltage	Color Temp CRI	Optical Distribution	Finish*	Performance Code*	Mounting Options
VTSFL VersaTEK Small Floodlight	36A 72A 36 or 72 LEDs Gen-A	MV 120-277V HV 347-480V	27K7 2700K, 70CRI 30K7 3000K, 70CRI 40K7 4000K, 70CRI 50K7 5000K, 70CRI 30K8 ¹ 3000K, 80CRI 40K8 ¹ 4000K, 80CRI 50K8 ¹ 5000K, 80CRI	N66 NEMA 6Hx6V Flood S33 NEMA 3Hx3V Spot NSP Narrow Spot RN Rectangular Narrow RM Rectangular Medium RW Rectangular Wide WG Wall Grazer	BK Black DB1 Dark Bronze (RAL8019) WH White GY Gray CF Coastal Finish	P1 P2 P3 P4 P5 P6 P7 P8 P9* P10 *36A is P9 max (see pages 3-4 for details)	SF ² Slipfitter w/ Wire Leads (in UL splice compartment) SFH ³ Slipfitter w/ S/O Cord Exiting Housing Bottom (3-wire S/O cord, 16AWG, 4' exit length) SFC ³ Slipfitter w/ S/O Cord Exiting Center of Fitter re S/O cord, 16AWG, 4' exit length) TR ³ Trunnion Mount (3-wire S/O cord, 16AWG, 4' exit length) YK ³ Yoke Mount (3-wire S/O cord, 16AWG, 4' exit length) AWM Adjustable Wall Mount (compatible w/ 3" & 4" square/octagonal recessed J-boxes) AWMC Adjustable Wall Mount w/ Surface Conduit J-Box ASPM Universal Square Pole Adjustable Arm Mount ARPM Universal Round Pole Adjustable Arm Mount

Driver* & Control Options (*0-10V drivers are standard)	General Options
D4I ^{4,7} DALI D4i Driver TLR4U ^{4,5,7} DALI 4-PIN Twist Lock Receptacle (upper housing receptacle location) TLR4L ^{4,5,7} DALI 4-PIN Twist Lock Receptacle (lower driver door receptacle location) PCR7CR ^{4,9} ANSI 7-wire Control Ready Receptacle SC Shorting Cap (factory installed) LLPC ⁶ Long Life Photocontrol PS ⁷ Field Adjustable Performance Selector PND1 ⁸ Part Night Dimming V1 PND2 ⁸ Part Night Dimming V2 PND3 ⁸ Part Night Dimming V3 LEOLink ILS™ Intelligent Lighting System⁹ * See pg.11 for additional LEOLink ordering & system details * (refer to LEOLink ILS specification sheets for complete specification & ordering information)	AIM45 ¹⁰ Slipfitter Factory Pre-aimed at 45° SS Slipfitter Set Screw (replaces standard slipfitter set bolts) TFL Tamper free latch (driver electrical door) TB ² 3-position Terminal Block SP2 ¹¹ 20kV/10kA Extreme Surge, Fail-to-On LSSP2 20kV/10kA Extreme Surge, Fail-to-Off WL Wattage Label, ANSI C136.15-2015 compliant WL1 Wattage Label, ANSI C136.15-2020 compliant DSC Optional Driver Door Safety Cable PWRD Power Door Option (tool-free removable door w/ serviceable electrical items) SFXXX ¹² Single Fuse ('XXX' = specify voltage 120, 277, 347V) DFXXX ¹² Double Fuse ('XXX' = specify voltage 208, 240, 480V) 5WSO ¹³ 5-wire S/O Cord (16AWG, 4' length w/ dimming leads) SOXXYY ¹⁴ Special S/O AWG & Cord Length in Feet ('XX' = specify AWG 12, 14 or 16) ('YY' = specify S/O cord length 06, 08, 10, 15, 25) BABA Domestic Build Option BABA ¹⁵ Build America, Buy America Act Compliant (meets Oct. 1, 2026 final US assembly, 55% content material requirements)

General Accessories*
Shield Accessories TBS-VTS Top, Bottom Shield LRS-VTS Left, Right Side Shield 4SS-VTS 4-sided Shield BDS-VTS Barn Door Shield VS-VTS Poly Vandal Shield WG-VTS Wire Guard BSK Bird Deterrent Spider Kit Controls Accessories LLPCMVB Long Life Photocontrol MV LLPCHV Long Life Photocontrol HV * Accessories are ordered & shipped separately, not to be included in the luminaire's catalog number. (requires field installation)

1. 80CRI option only available in 3000K, 4000K and 5000K CCTs and may have longer lead times (contact factory).
2. 'TB' Terminal Block is not available for use with the 'SF' Slipfitter mounting option.
3. Mounting option includes 16AWG 3-wire S/O cord with a 4 ft exit length and last 6 in. of insulation removed.
4. For full D4i functionality, 'PCR7CR', 'TLR4U' or 'TLR4L' must be selected with the 'D4I' driver. DALI node or sensor by others. 'D4I' is not compatible with 'NB01P05/10'.
5. 'TLR4U' and 'TLR4L' require the 'D4I' driver option.

6. 'LLPC' requires 'PCR7CR' (included with luminaire, not factory installed).
7. 'PS' enables field-adjustable output from the specified Performance Code and is not compatible with DALI.
8. 'PND' options are MV 120-277V only (contact factory for HV 347-480V availability).
9. 'NB01P05/10' requires 'PCR7CR' and is MV 120-277V only (contact factory for HV). Cellular NEMA 7-PIN Smart Controller, RenAI subscription included, network data plan required (see p.11).
10. 'SF', 'SFC' and 'SFH' ship pre-aimed at 45 degrees when 'AIM45' is specified.

11. Standard 'SP1' surge protection is 10kV/5kA, fail-to-on.
12. For single or double fusing, 'XXX' must specify the required voltage.
13. '5WSO' is only available with 'SFC', 'SFH', 'TR' and 'YK', not with 'PCR7CR', 'PS', 'PND', 'D4I', 'TLR4U' or 'TLR4L'.
14. 'SOXXYY' requires the S/O cord AWG and length and is only available with S/O-cord mounting options.
15. 'BABA' must be specified to meet Oct. 1, 2026 Build America, Buy America Act guidelines. Without the 'BABA' ordering code, product is non-BABA and not eligible for RMA, exchange or refund.



Luminaire Specifications

Housing & Construction

Rugged grade A360 die-cast aluminum housing, glass lens frame and door frame (<0.6% copper). Housing includes integral heatsink fins and (3) pass-thru convective cooling slots between the LED array heatsink and driver compartment for enhanced cooling and maximum thermal management to maximize LED platform and electrical component lifetime. Electrical access door provides access to electrical components via two corrosion resistant stainless-steel tool-free latches (tamper free latch option 'TFL' is available). Door can be removed without the use of tools. Electrical door comes standard with an integral VersaKICK 'kickstand' to quickly and easily prop open the door to allow for frustration free installation or maintenance. Optional 'PWRD' Power Door mounts all serviceable electrical components on the door with tool-free removal for easy field maintenance or replacement. Internal bubble level standard for leveling during install. All exposed hardware and fasteners are corrosion resistant stainless-steel. Entire luminaire is IP66 rated.

Flood & Wall Mounting Options

Trunnion 'TR' and yoke 'YK' mounting options are constructed of formed steel. (3) adjustable slipfitter mounting options 'SF', 'SFC' and 'SFH' are rugged A360 die-cast aluminum and includes safety thru-bolt detail if required. Slipfitter 'AIM45' options ships factory preset to a tilt of 45°. Self-centering design feature also assists with leveling during installation. Designed to install to 1-5/8", 2-3/8" and 3" O.D. tenons (by others). Available in (3) wiring configurations ('SF' includes available wire leads accessed via an integral UL recognized splice compartment, 'SFC' and 'SFH' options include S/O cord exiting the center of the slipfitter or housing bottom). Standard S/O cord configurations ('TR', 'YK', 'SFH', 'SFC') are 16AWG 3-wire with an exit length of 4' and last 6" of weatherproof covering removed. Additional wire gauges and lengths available (see 'Ordering Information' for details). Adjustable wall mount 'AWM' options mount to recessed 3" and 4" square or octagonal recessed J-boxes (by others). Surface conduit wall mount option 'AWMSC' includes (4) 3/4" NPT thru-wire taps with plugs. All wall mount options include an integral bubble level for ease of installation. Universal/retrofit adjustable square 'ASPM', adjustable round 'ARPM' arm mount options can accept bolt spacings from 2.29" to 5.25" and are designed for quick and easy single person installation. Mounting provisions meet 3G vibration per ANSI C136.31-2010 Normal Application, Bridge & Overpass.

Color Specifications

Order Code	Color	RAL #	Pantone Equivalent
GY	Gray	7040	429C
BK	Black	9004	BLACK 6C
DB1	Dark Bronze	8019	412
WH	White	9003	11-0601

Light Emitting Diodes

Hi-flux/Hi-power white 5050 LED optics produce a minimum of 90% of initial lumen output at 86,500 hours of life (at 25°C) and 3535 LED optics at 118,000 hours of life based on IES TM-21. LEDs are tested in accordance with IES LM-80 testing procedures. IES TM-21 lumen maintenance life projection is based on 6X the duration of the LED's IES LM-80 performance data (estimates beyond 6X are extrapolated per TM-21). LED correlated color temperature options of 2700K, 3000K, 4000K, or 5000K @ 70CRI or 80CRI (2700K is 70CRI only). LEDs are 100% mercury and lead free.

Optical Systems

All Micro-lens optical systems are fully sealed to maintain an IP66 rating. All-purpose 5050 LED flood optics include a NEMA 6x6 Wide Flood 'N66' and NEMA 3x3 Spot 'S33'. Performance 3535 LED flood optics include a Narrow Spot 'NSP', Rectangular Narrow 'RN', Rectangular Medium 'RM', Rectangular Wide 'RW', Wall Grazer 'WG'. Please refer to 'Performance Data' on pages 3-4 for specific beam & optical performance details. An IK10 impact resistant glass lens is standard for ease of routine cleaning and improved light loss dirt depreciation over the life of the luminaire. Multiple glare and light trespass shielding options and accessories are available (see 'Ordering Information' for details).

Photometry

Luminaires photometrics are tested by certified independent testing laboratories in accordance with IES LM-79 testing procedures.

Electrical

Rated life of electrical components is 100,000 hours. Standard 0-10V dimmable drivers use an isolated power supply with 6kV integral surge standard. Power supply features a minimum power factor of 0.90 and <20% Total Harmonic Distortion (THD). EMC meets or exceeds FCC CFR Part 15. Optional DALI D4i certified LED drivers also available, which complies with IEC 62386 and ANSI C137.4 and DiA. Optional 3-position terminal block accommodates 6 to 16AWG wire. Standard surge protection (10kV/5kA Surge, Fail-to-On) complies with IEEE/ANSI C62.41 and ANSI C136.2-2015. Optional 'SP2' and 'LSP2' provides (20kV/10kA) extreme level surge protection.

Field Adjustability

Optional Performance Selector 'PS' is an integral 8-step fixed position dial allowing field adjustable lumen and wattage dimming control for added project and design versatility to meet installation specific requirements. The specified Performance Code provides the maximum lumen output. Only compatible with VersaTEK's standard 0-10V drivers. Not compatible with DALI driver option.

General Control Options

ANSI C136.41 7-wire controls ready photocontrol receptacle 'PCR7CR' option available for use with LEOLink nodes or by others. Receptacle has a tool-less rotatable base with a positive lock to not allow over-rotation and possible damage to the receptacle. Optional DALI D4i and Part Night Dimming driver configurations are also available for added controllability and design flexibility. DALI compatible 'TLR4U' and 'TLR4L' 4-PIN twist lock receptacle options available (wireless DALI nodes or DALI sensors are by others).

LEOLink Intelligent Lighting System

ANSI C136.41 7-wire smart wireless controllers allow real-time monitoring and asset management of luminaires with 'NB01P05/10' wireless control nodes installed. RenAI cloud-based application receives system data while applying specific AI models for fault isolation and the resolution of voltage health, outages, knockdowns, energy usage, LED faults and more. Allows for full remote management of the luminaire, including the ability to store and execute customer specific schedules and performance parameters. System communicates via standard 4G/5G IoT networks with a cellular data plan and and RenAI subscription.

Finish

Housing receives a fade and abrasion resistant textured polyester powder coat finish with 3.0 mil nominal thickness. Finish tested to withstand 5000 hours in salt spray exposure per ASTM B117 and Coastal Finish per ASTM G85. Finish tested 500 hours in UV exposure per ASTM G154 and meets ASTM D523 gloss retention.

Listings/Ratings/Labels

Luminaires are UL listed for use in wet locations in the United States and Canada and are rated IP66. Luminaires are qualified to operate at ambient temperatures of -40°C to 50°C. (-40°F to 122°F)

Government Procurement Compliance

BAA - Buy America(n) Act: All LEOTEK luminaires qualify as a "Domestic End Product" per the Buy American Act as governed by FAR and DFARS.

BABA - Build America Buy America: All LEOTEK luminaires ordered with the 'BABA' option code are compliant per the Federal Highway Administration (FHWA).

Quality Control

Every luminaire is assembled in the USA and is performance tested before and after a 2-hour burn-in period.

Warranty

10-year limited warranty is standard on luminaire and components. LEOLink Controllers can be specified with 5-year and 10-year limited warranties. See LEOTEK.com for warranty details, terms and conditions.

Standards

Luminaire complies with:
ANSI: C136.2, C136.3, C136.10, C136.13, C136.15, C136.22, C136.31, C136.35, C136.37, C136.41, C62.41, C78.377, C82.77, UL 1449, UL 1598

Optional Field Adjustable Performance Selector 'PS' ('PS' is only compatible with standard 0-10V drivers, not compatible w/ optional DALI drivers)
 The optional Performance Selector is an integral dial that allows for field adjustable lumen/wattage dimming control for added design versatility. Normal tolerance +/- 8%.

36A (5050LED Optics - N66, S33)*

PS Position	Lumen Output %	P1	P2	P3	P4	P5	P6	P7	P8	P9
Wattage (W)										
8	100%	30	39	49	59	68	77	86	97	106
7	90%	27	35	43	52	61	69	77	85	94
6	80%	24	31	38	47	54	61	68	76	83
5	70%	21	27	33	42	48	54	60	66	72
4	60%	18	23	29	36	41	47	52	57	63
3	50%	15	19	24	31	35	39	44	48	52
2	40%	12	16	19	25	29	32	36	39	42
1	30%	9	12	14	19	22	25	28	30	32

*For 80CRI option use an additional 0.91 lumen multiplier.

72A (5050LED Optics - N66, S33)*

PS Position	Lumen Output %	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
Wattage (W)											
8	100%	74	83	92	101	109	117	126	135	144	155
7	90%	66	74	82	89	100	107	115	123	131	140
6	80%	59	66	73	79	88	95	102	110	116	123
5	70%	52	58	64	70	78	84	90	96	102	107
4	60%	45	50	55	60	68	73	78	83	88	93
3	50%	38	43	46	50	57	61	65	70	74	78
2	40%	31	35	38	41	47	50	53	57	60	63
1	30%	24	27	29	31	36	39	41	44	46	48

*For 80CRI option use an additional 0.91 lumen multiplier.

36A (3535LED Optics - N66, S33)*

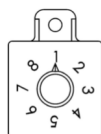
PS Position	Lumen Output %	P1	P2	P3	P4	P5	P6	P7	P8	P9
Wattage (W)										
8	100%	35	42	49	58	66	72	79	86	93
7	90%	31	37	43	51	58	64	70	76	81
6	80%	28	33	38	46	51	57	62	67	72
5	70%	24	29	33	40	46	50	54	59	63
4	60%	21	25	29	35	40	43	47	51	55
3	50%	17	21	24	30	34	37	40	43	46
2	40%	14	17	19	25	28	30	32	35	37
1	30%	11	12	14	19	21	23	25	27	29

*For 80CRI option use an additional 0.91 lumen multiplier.

72A (3535LED Optics - N66, S33)*

PS Position	Lumen Output %	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10
Wattage (W)											
8	100%	50	59	71	82	93	102	110	119	128	137
7	90%	44	52	63	73	82	90	101	109	117	125
6	80%	39	46	56	65	73	80	89	96	104	111
5	70%	34	40	49	57	64	70	79	85	91	97
4	60%	29	35	43	49	55	61	68	74	79	84
3	50%	25	29	36	42	47	51	57	62	66	70
2	40%	20	23	30	34	38	41	47	51	54	58
1	30%	15	17	23	26	29	32	37	39	41	44

*For 80CRI option use an additional 0.91 lumen multiplier.



Optional Field Adjustable
Performance Selector 'PS' Dial

VTSFL-36A IES TM-21 LED Lumen Maintenance (*values *italicized* are per LM-80 data that is extrapolated beyond the TM-21 6X standard)

Reported lumen maintenance life projections are based on 6X the duration of the LED's IES LM-80 tested performance data in accordance per IES TM-21 guidelines.

5050LED Optics Performance Code P1 to P2	IES TM-21 LED Lumen Maintenance					
	0 Hrs	25,000 Hrs	50,000 Hrs	60,000 Hrs	*75,000 Hrs	*100,000 Hrs
VTS 36A @ 25C ambient	100.00%	98.60%	97.89%	97.61%	<i>97.19%</i>	<i>96.49%</i>
VTS 36A @ 50C ambient	100.00%	97.88%	97.73%	96.27%	<i>95.60%</i>	<i>95.47%</i>

5050LED Optics Performance Code P3 to P7	IES TM-21 LED Lumen Maintenance					
	0 Hrs	25,000 Hrs	50,000 Hrs	60,000 Hrs	*75,000 Hrs	*100,000 Hrs
VTS 36A @ 25C ambient	100.00%	96.65%	94.23%	93.27%	<i>91.86%</i>	<i>89.56%</i>
VTS 36A @ 50C ambient	100.00%	95.59%	92.88%	91.82%	<i>90.25%</i>	<i>87.69%</i>

5050LED Optics Performance Code P8 to P9	IES TM-21 LED Lumen Maintenance					
	0 Hrs	25,000 Hrs	50,000 Hrs	60,000 Hrs	*75,000 Hrs	*100,000 Hrs
VTS 36A @ 25C ambient	100.00%	95.85%	93.43%	92.47%	<i>91.06%</i>	<i>88.76%</i>
VTS 36A @ 50C ambient	100.00%	94.52%	90.83%	89.39%	<i>87.28%</i>	<i>83.87%</i>

3535LED Optics Performance Code P1 to P9	IES TM-21 LED Lumen Maintenance					
	0 Hrs	25,000 Hrs	50,000 Hrs	60,000 Hrs	*75,000 Hrs	*100,000 Hrs
VTS 36A @ 25C ambient	100.00%	98.75%	96.32%	95.37%	<i>93.95%</i>	<i>91.64%</i>
VTS 36A @ 50C ambient	100.00%	98.33%	95.41%	94.27%	<i>92.58%</i>	<i>89.83%</i>

VTSFL-72A IES TM-21 LED Lumen Maintenance (*values *italicized* are per LM-80 data that is extrapolated beyond the TM-21 6X standard)

Reported lumen maintenance life projections are based on 6X the duration of the LED's IES LM-80 tested performance data in accordance per IES TM-21 guidelines.

5050LED Optics Performance Code P1 to P2	IES TM-21 LED Lumen Maintenance					
	0 Hrs	25,000 Hrs	50,000 Hrs	60,000 Hrs	*75,000 Hrs	*100,000 Hrs
VTS 72A @ 25C ambient	100.00%	98.60%	97.89%	97.61%	<i>97.19%</i>	<i>96.49%</i>
VTS 72A @ 50C ambient	100.00%	97.88%	96.73%	96.27%	<i>95.60%</i>	<i>94.47%</i>

5050LED Optics Performance Code P3 to P10	IES TM-21 LED Lumen Maintenance					
	0 Hrs	25,000 Hrs	50,000 Hrs	60,000 Hrs	*75,000 Hrs	*100,000 Hrs
VTS 72A @ 25C ambient	100.00%	96.65%	94.23%	93.27%	<i>91.86%</i>	<i>89.56%</i>
VTS 72A @ 50C ambient	100.00%	95.59%	92.88%	91.82%	<i>90.25%</i>	<i>87.69%</i>

3535LED Optics Performance Code P1 to P10	IES TM-21 LED Lumen Maintenance					
	0 Hrs	25,000 Hrs	50,000 Hrs	60,000 Hrs	*75,000 Hrs	*100,000 Hrs
VTS 72A @ 25C ambient	100.00%	98.75%	96.32%	95.37%	<i>93.95%</i>	<i>91.64%</i>
VTS 72A @ 50C ambient	100.00%	98.09%	94.94%	93.71%	<i>91.90%</i>	<i>88.95%</i>

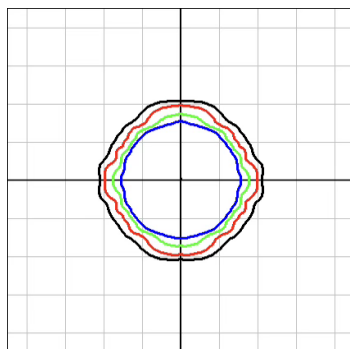
Optical Isofootcandle Plots ('72A P10' Performance Code, 4000K/5000K, 70CRI, 20' Mounting Height MH, Grid Scale = MH or 40' as shown)

Complete non-shielded & shielded photometric IES files are available for download at www.LEOTEK.com or can be found in AGI32's Photometric Instabase.

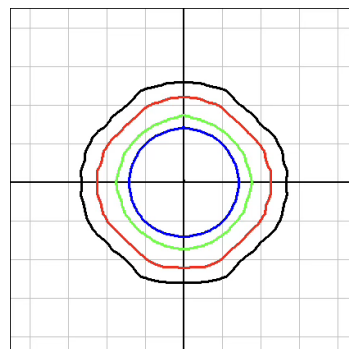
LEGEND

- 0.1 Fc
- 0.2 Fc
- 0.5 Fc
- 1.0 Fc

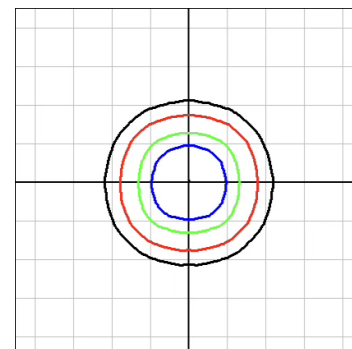
MH = 20' ↑↓



N66

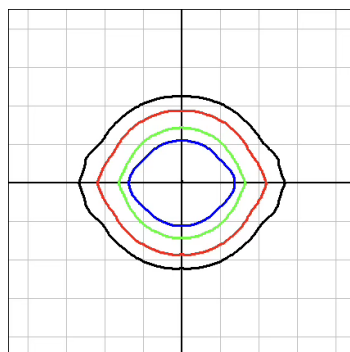


S33

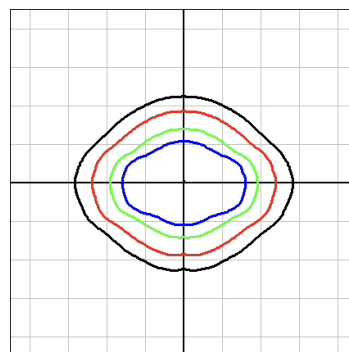


NSP

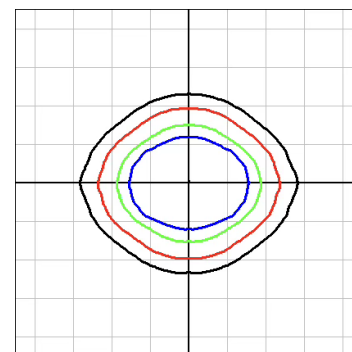
MH = 20' ↑↓



RN

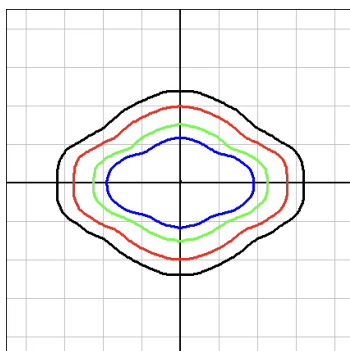


RM



RW

MH = 20' ↑↓

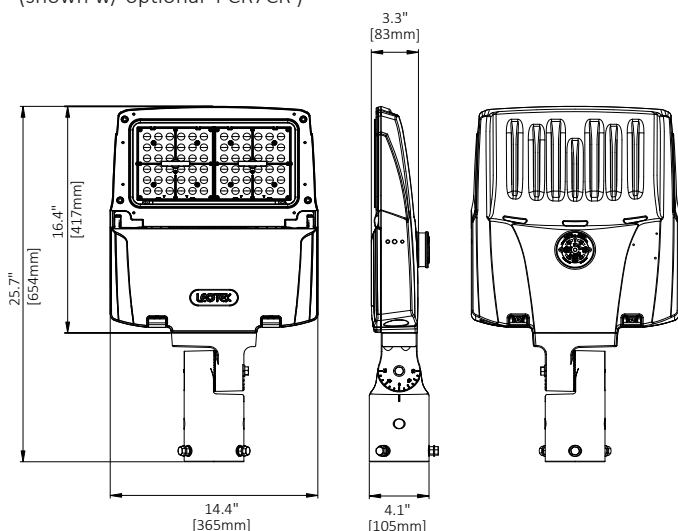


WG

Mounting Option Details & Dimensional Information

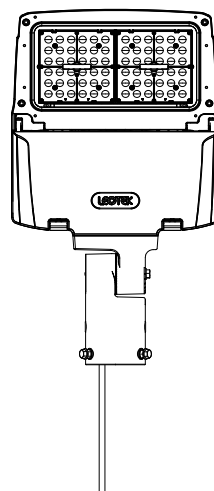
'SF' Slipfitter Mount #1*

(available wire leads in UL splice compartment)
(shown w/ optional 'PCR7CR')



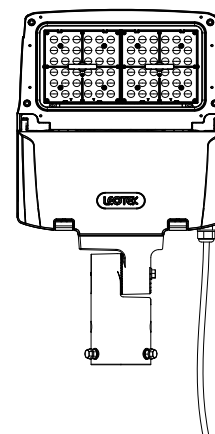
'SFC' Slipfitter #2*

(w/ 3-wire S/O Cord Center Fitter Exit)



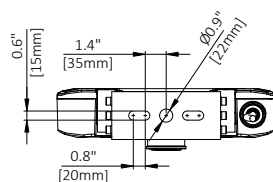
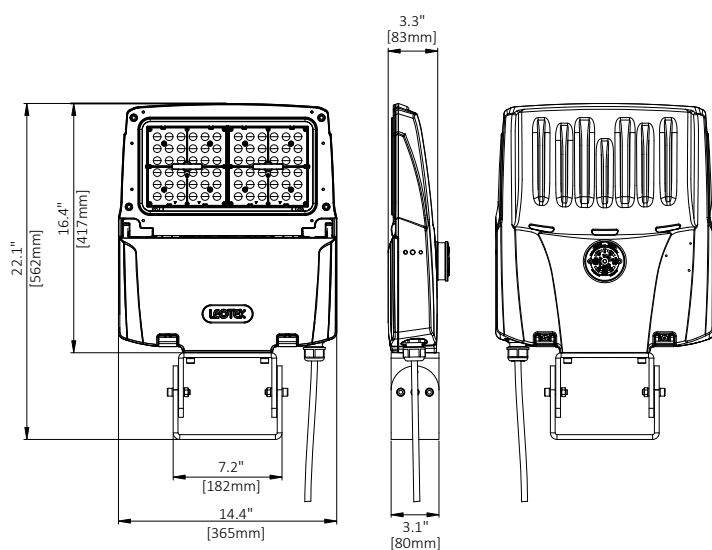
'SFH' Slipfitter #3*

(w/ 3-wire S/O Cord Bottom Housing Exit)



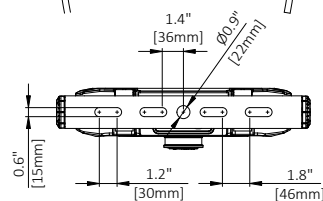
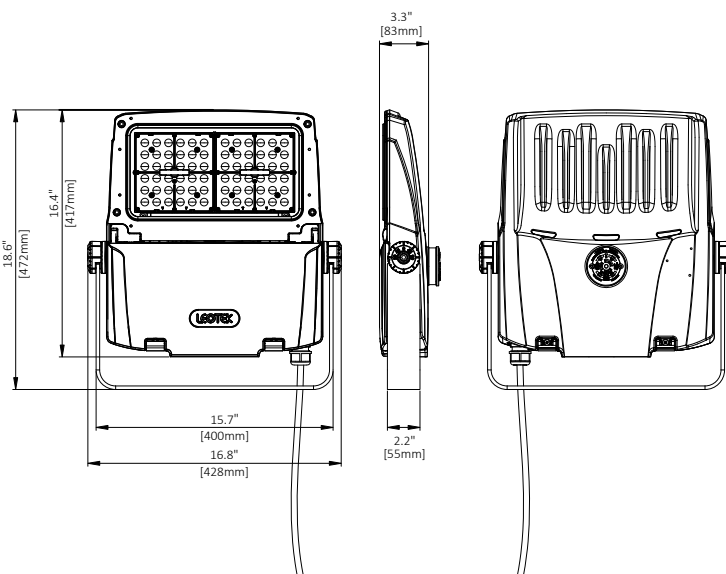
'TR' Trunnion Mount*

(shown w/ optional 'PCR7CR')



'YK' Yoke Mount*

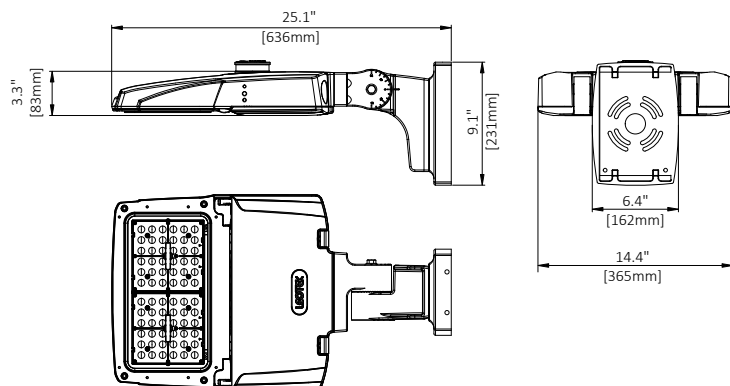
(shown w/ optional 'PCR7CR')



Mounting Option Details & Dimensional Information

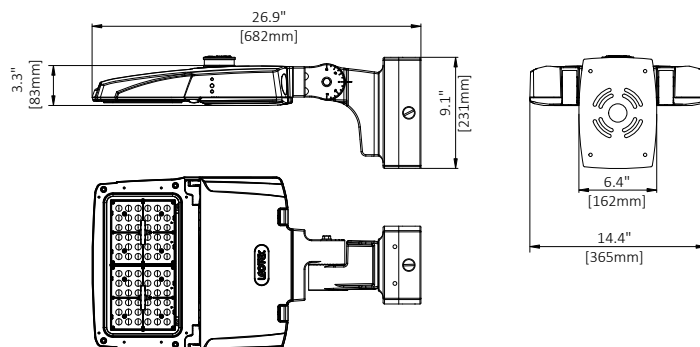
'AWM' Adjustable Wall Mount*

(mounts to recessed J-box, shown w/ optional 'PCR7CR')



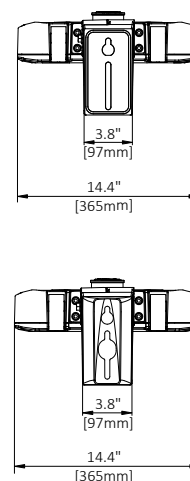
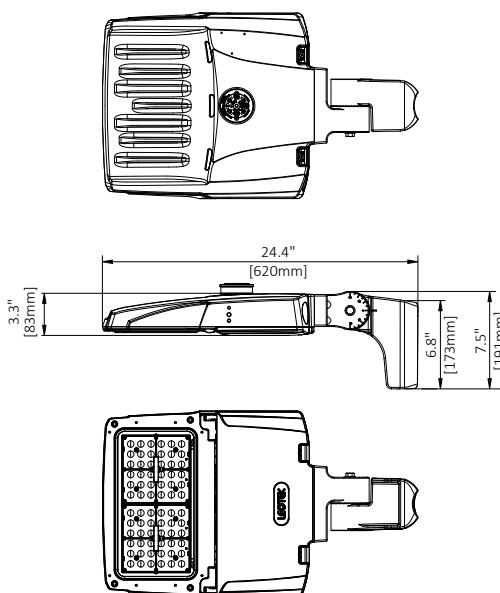
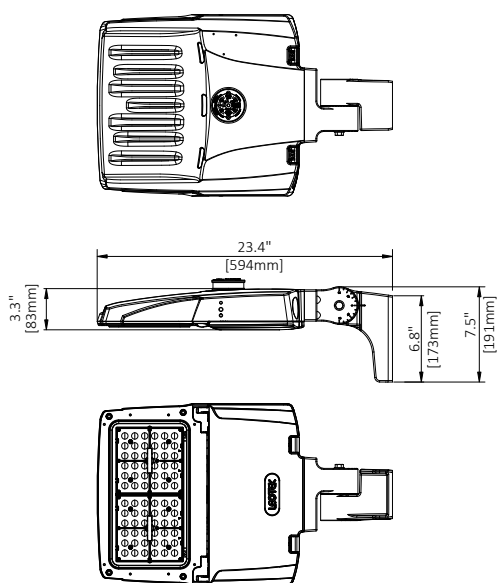
'AWMSC' Adjustable Wall Mount Surface Conduit*

(includes surface mount 3/4" conduit J-box, shown w/ optional 'PCR7CR')



'ASPM' Square & 'ARPM' Adjustable Round Pole Arm Mount*

(quick mount arm can retrofit up to 5.25" max. bolt spacing w/ no drilling required)



Key Additional Miscellaneous Product Features & Design Details

Integral Tool-Free Access Design

Tool-free electrical access & removable hinged door w/ fixed open door prop design for ease of installation or maintenance (compatible w/ most lineman safety gloves)



Slipfitter w/ UL Splice Box

'SF' Slipfitter w/ integral UL recognized splice compartment (w/ available wire lead access & WAGOs for ease of installation)



Self-Centering Design

Slipfitter options are designed with a self-centering & leveling design feature (compatible w/ 1-5/8", 2-3/8" & 3" O.D. tenons)



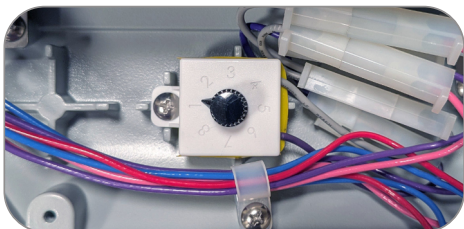
3-Position Terminal Block 'TB' Option

For ease of maintenance & increased safety, improved wire management & robust product life cycle operation (includes line, neutral & ground, accommodates 6 to 16AWG wire)



Performance Selector 'PS' Option

Allows for quick & easy field adjustment of wattage, lumen output and reduced SKU complexity (fixed position dial ensures correct output setting)



Integral VersaKick

VersaKick 'kickstand' props open the door during installation or maintenance (allows for 'frustration free' ease of access)



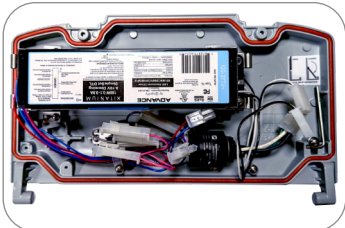
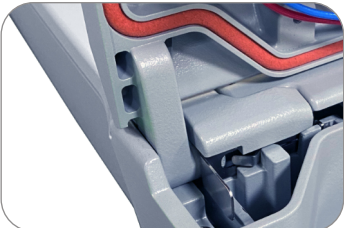
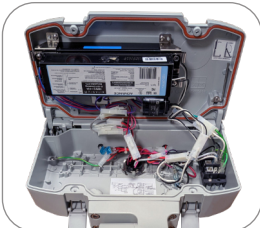
Pass-Thru Convective Cooling

(3) integral cooling slots allows ambient air to flow freely thru the luminaire for enhanced thermal management (maximizes lifetime of electrical components & lumen maintenance)



Tool-Free Removable Power Door Option 'PWRD'

All serviceable electrical components are mounted to a tool-free removable Power Door that can be removed in less than 15 seconds to safely service on the ground or replace in seconds (undo MOLEX connectors, push two spring clips inward to unlock door, slide the door forward & lift to remove)



'4SS-VTS'

4-Sided Shield



'TBS-VTS'

Top or Bottom Shield



'LRS-VTS'

Left or Right Side Shield



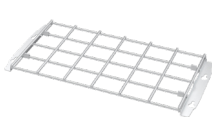
'BDS-VTS'

Barn Door Shield



'WG-VTS'

Wire Guard



'VS-VTS'

Poly Vandal Shield



LEOLink ILS™ Intelligent Lighting System for Tomorrow's Smart & Sustainable Cities

Smart...Scalable...Effortless

LEOLink ILS is the next evolution in street lighting, integrating AI and IoT to transform a city's traditional outdoor lighting infrastructure into a smart, adaptive network. It empowers municipalities and utilities with real-time control, predictive maintenance, and rapid scalability, all with unmatched simplicity.

Integrating LEOTEK's AI-driven centralized management platform (LEOLink RenAI) with intelligent streetlight controllers, LEOLink ILS provides 24x7 visibility into the status and performance of streetlights enabling efficient energy use, real-time fault detection, and predictive maintenance across city-wide lighting networks. Easy "plug-and-play" deployment and scalability support users in achieving operational excellence, public safety, and long-term sustainability. With LEOLink ILS, cities are creating the backbone of a future-ready smart city.

Key Functions

Centralized, Remote Management

Gain complete control of your city's smart lighting infrastructure from a single, intuitive platform.

Instant Response to Anomalies

Automatically identify and respond to abnormal lighting behavior in real-time.

AI-Powered Predictive Maintenance

Detect and address faults before they occur, minimizing downtime and maintenance costs.

Actionable Insights Through Data Visualization

Monitor asset performance and energy trends with clear, interactive dashboards and reports.

Energy Efficiency & Cost Savings

Optimize energy usage with intelligent scheduling and dimming, reducing operational expenses.

LEOLink Controllers Key Features & Benefits

The smartest fit for 7-PIN NEMA fixtures. Engineered to deliver seamless performance, trusted security, and plug-and-play simplicity, all in one powerful, next-generation controller.



Self-Monitoring & Fault Detection

Controllers continuously monitor the luminaire's operational status, identifying power outages, failures, and abnormal energy patterns for fast diagnostics and improved maintenance efficiency.



Ultra-High Connectivity

Dual-mode cellular communication using the world's most reliable and secure carriers ensures a 99.5% connection success rate, delivering reliable continuous data transmission even in challenging environments.



Built-In Surge Protection

Advanced surge protection against lightning and voltage spikes safeguards critical streetlight infrastructure.



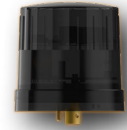
AI-Driven Adaptive Dimming

Participates with LEOLink RenAI to enable intelligent dimming strategies, including human-centric lighting adjustments based on real-time traffic, weather, and pedestrian activity.



Predictive Maintenance & Analytics

Advanced failure analysis and predictive diagnostics move cities from reactive to preventative maintenance strategies that reduce downtime and operational costs.



*LEOLink 'NB01P05/10' Smart Controller

LEOLink RenAI Central Management System Key Features & Benefits

RenAI is an AI-powered, cloud-based Central Management System (CMS) that turns streetlighting into a dynamic, adaptive, and self-optimizing network. Using a native AI foundation, it analyzes both real-time and historical data—surpassing traditional CMS capabilities—to address the complex needs of modern roadway infrastructure. The result: improved energy efficiency, reduced operational costs, and enhanced public safety for utilities and municipalities.



LiSA (LEOTEK intelligent Service Advisor)

LiSA, our AI-powered assistant, is available 24/7 to streamline operations, quickly answering questions, generating charts and tables, and assisting with troubleshooting to lighten your team's workload.



Asset Management

Collect and track roadway infrastructure asset information such as streetlight fixtures, poles and controllers. to drive operational efficiencies across from field maintenance to life cycle management.



Remote Control

Remotely switch lights ON/OFF and adjust brightness via an intuitive user interface.



Fault Detection & Notification

Monitor streetlight health and status in real time to detect and receive instant fault alerts.



Energy Consumption Management

Track usage, identify trends, and forecast energy needs for optimal efficiency.



Data Analysis & Reporting

Access historical insights, visualize data, and generate reports for informed decision-making.



Scheduled Dimming

Automatically adjusts brightness levels based on ambient light and pre-set schedules.



LEOLink Intelligent Lighting System (ILS) Ordering Information* (*add to end of luminaire catalog number to ship controller with the luminaire)

Sample Catalog No. Luminaire w/ Controller: **VTSFL-36A-MV-40K7-N66-GY-CF-P9-SFH-PCR7CR-TB-WL1-SP2-SF120-BABA-NB01P10-R10-D10** (controllers will ship included with the luminaire)

Sample Catalog No. for Controller Only: **NB01P05-R05-D05** (controllers will ship separately from the luminaire)

LEOLink Smart Controllers		RenAI CMS Subscription	Network Data Plan
NB01P05 ¹	LEOLink 7-PIN Controller, 5YR Warranty (120-277V)	R01 RenAI, One Year SaaS Subscription	D01 Data Plan, One Year Subscription
NB01P10 ¹	LEOLink 7-PIN Controller, 10YR Warranty (120-277V)	R05 RenAI, Five Year SaaS Subscription	D05 Data Plan, Five Year Subscription
		R10 RenAI, Ten Year SaaS Subscription	D10 Data Plan, Ten Year Subscription
		R00 ² RenAI, No SaaS Subscription	D00 ² Data Plan, No Subscription

1. For each controller, a RenAI CMS Subscription "RXX" and Network Data Plan "DXX" is required. Please refer to the LEOLink ILS specification sheets and ordering guide for complete ordering and specification details.

2. "R00" and "D00" options require prior approval from LEOTEK. Please contact factory for details.

Motion Sensor (Optional) Specifications*

Integral motion sensor options are available for horizontal site & area and fixed wall mounting options only.

'MSL3', 'MSL7' motion sensors require secondary controls for ON/OFF capability (*ex. time clock or 0-10V by others*). Contact factory for Motion Sensor availability w/ 'PCR7CR' control ready receptacle for use with wireless 7-PIN control node (*by others*).

'MSL3P', 'MSL7P' motion sensors, luminaire includes a PCR7 photocontrol receptacle for use with a twist lock photocontrol for ON/OFF capability.
(*for use with our 'LLPC' or photocontrol by others, PINs 6 & 7 are not wired for controls, not compatible w/ wireless nodes*).

Description

Digital passive infrared luminaire integrated outdoor occupancy sensor provides high/low/off control based on motion detection. Initial setup and subsequent sensor adjustments are made using a handheld configuration tool. PCR option is required for On/Off control using light detection. Available with both MV or HV input voltage options.

Operation

Standard factory setting will dim the luminaire to 50% until motion is sensed and then it will power to 100%. When motion is not detected for five minutes, the luminaire will dim back to 50%. Ramp up and fade down times are adjustable, but initially set to NONE. The percent dimming and time durations may be field adjusted as required using FSIR-100 configuration tool. FSIR-100 user guide available at: www.wattstopper.com.

Optical System

Multi-cell, multi-tier Fresnel lens with a 360 degree view detects unobstructed motion within one mounting height, up to 20 ft. maximum (MSL3) or 40 ft. maximum (MSL7). Consult factory for higher mounting height requirements.

Finish

Sensor exterior ring and lens are white polycarbonate, UV and impact resistant.

Listings/Ratings

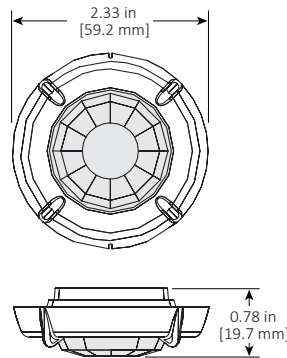
Sensor is TUV, UL and cUL listed, IP66 rated and CE compliant.

Warranty

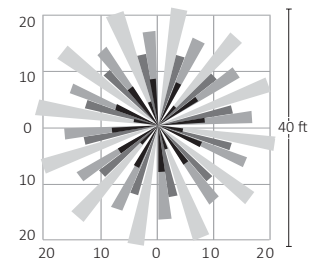
5-year limited warranty on luminaires and components with a motion sensor.

Motion Sensor (Optional) Data

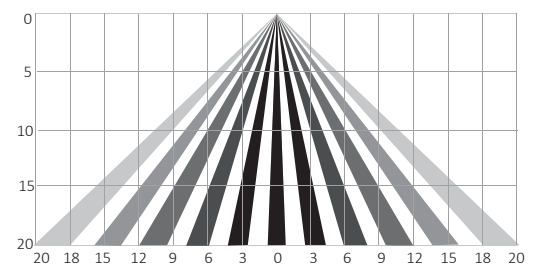
MSL3 Lens Dimensions



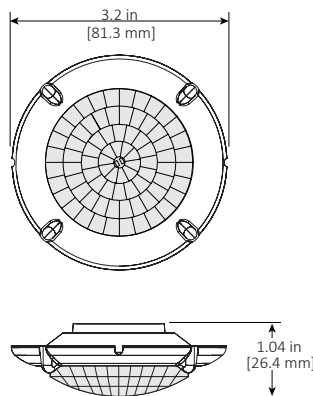
MSL3 Lens Coverage Top View



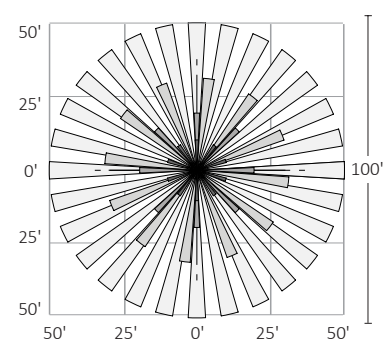
MSL3 Lens Coverage Side View



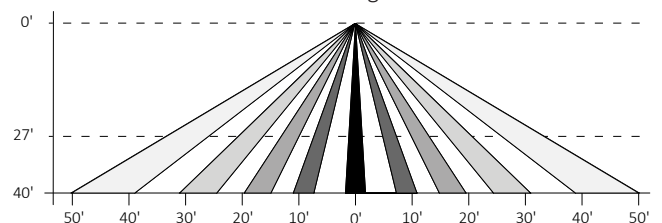
MSL7 Lens Dimensions



L7 Lens Coverage Top View



L7 Lens Coverage Side View



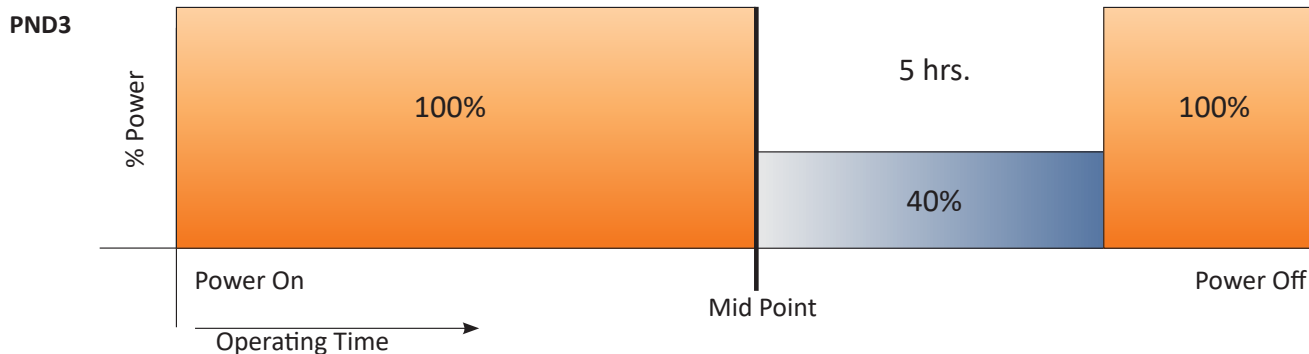
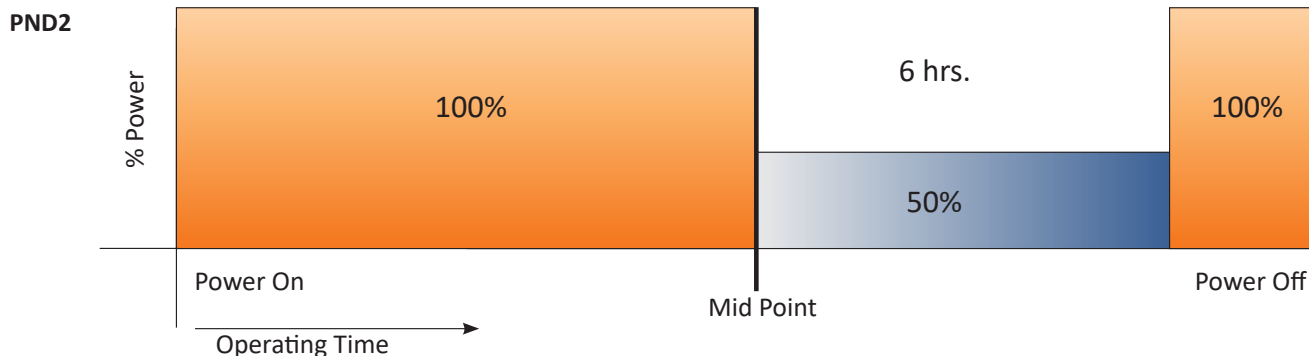
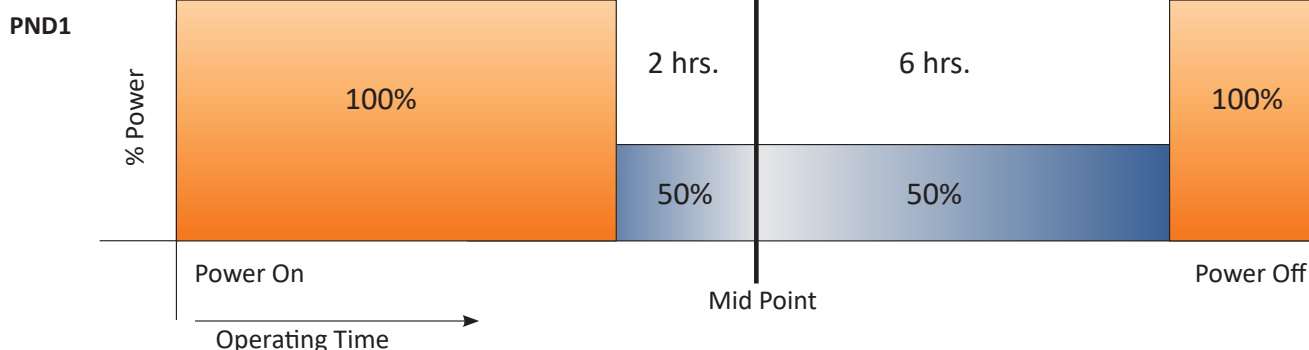
Part-Night Dimming Specifications

Description

Part-Night Dimming (PND) option enables significant energy savings by automatically dimming the luminaire during early morning hours when infrequent use is expected. Factory programmed dimming profiles automatically take into account seasonal changes based on geographical location by continuously monitoring the nighttime midpoint. PND does not provide power on/off control which is provided by external controls (example: time clock or a photocontrol using 'PCR7CR' option). Dimming profile of PND option is not field adjustable.

Operation

Based on the PND profile that is selected, the luminaire dims to the corresponding % power for the corresponding length of time (based on the nighttime mid-point) as shown below. Mid-point is continuously recalculated in the luminaire by monitoring the average length of time between when the light turns on (power on) and turns off (power off) over the previous two days. In effect, this functionality will take two days to initialize after installation before any dimming will occur. Power interruptions are ignored and do not affect the determination of mid-point. Three factory programmed PND profiles are available for selection:



VersaTEK Small LED Flood - Luminaire EPA Values

(*Includes luminaire and mounting options shown. Secondary tenons, brackets or other accessories are not included in the EPA data.)

Luminaire Quantity & Orientation		Effective Projected Area (EPA ft²)								
		Single	2 @ 90	2 @ 180	3 @ 90	3 @ 120	4 @ 90	2 Side by Side	3 Side by Side	4 Side by Side
Mounting Option	Tilt									
SF Slip Fitter	0°	0.82	1.22	1.64	2.04	1.78	2.04	0.79	1.19	1.58
	10°	0.82	1.35	1.64	2.17	2.02	2.17	1.05	1.58	2.10
	20°	0.82	1.62	1.64	2.44	2.52	2.44	1.60	2.40	3.20
	30°	1.09	1.92	1.64	2.74	3.09	2.74	2.19	3.28	4.38
SFC Slip Fitter Center	40°	1.36	2.19	1.64	3.01	3.62	3.01	2.73	4.09	5.45
	45°	1.48	2.31	1.64	3.13	3.86	3.13	2.97	4.45	5.94
	50°	1.59	2.42	1.64	3.24	4.08	3.24	3.19	4.78	6.38
	60°	1.78	2.60	1.78	3.43	4.46	3.43	3.56	5.34	7.12
SFH Slip Fitter Housing	70°	1.92	2.74	1.92	3.56	4.74	3.56	3.83	5.75	7.66
	80°	2.01	2.83	2.01	3.65	4.93	3.65	4.02	6.02	8.03
	90°	2.04	2.86	2.04	3.69	5.00	3.69	4.08	6.12	8.17
	0°	0.54	0.98	1.08	1.52	1.50	1.52	0.87	1.31	1.74
YK Yoke Mount	10°	0.55	1.10	1.10	1.65	1.73	1.65	1.10	1.65	2.20
	20°	0.80	1.38	1.15	1.96	2.23	1.96	1.61	2.41	3.22
	30°	1.08	1.67	1.19	2.27	2.79	2.27	2.16	3.24	4.31
	40°	1.32	1.93	1.32	2.54	3.28	2.54	2.65	3.97	5.30
	45°	1.43	2.04	1.43	2.65	3.50	2.65	2.87	4.30	5.73
	50°	1.53	2.14	1.53	2.75	3.70	2.75	3.07	4.60	6.13
	60°	1.70	2.31	1.70	2.92	4.04	2.92	3.40	5.09	6.79
	70°	1.82	2.43	1.82	3.04	4.28	3.04	3.63	5.45	7.26
	80°	1.89	2.51	1.89	3.13	4.44	3.13	3.78	5.67	7.56
TR Trunnion Mount	90°	1.92	2.54	1.92	3.16	4.51	3.16	3.83	5.75	7.66
	0°	0.65	1.05	1.30	1.70	1.58	1.70	0.79	1.19	1.59
	15°	0.67	1.32	1.30	1.97	2.09	1.97	1.33	2.00	2.67
	30°	1.13	1.78	1.30	2.44	2.98	2.44	2.27	3.40	4.53
	45°	1.54	2.19	1.54	2.84	3.78	2.84	3.08	4.62	6.15
	60°	1.85	2.50	1.85	3.15	4.39	3.15	3.69	5.54	7.38
ASPM & ARPM Adjustable Square & Round Pole Arm Mount	75°	2.04	2.69	2.04	3.34	4.79	3.34	4.08	6.12	8.16
	90°	2.12	2.77	2.12	3.42	4.96	3.42	4.23	6.35	8.47
	0°	0.72	1.25	1.44	1.97	1.94	1.97	1.05	1.58	2.11
	10°	0.72	1.38	1.44	2.10	2.18	2.10	1.33	1.99	2.66
	20°	0.94	1.66	1.44	2.38	2.68	2.38	1.88	2.81	3.75
	30°	1.23	1.95	1.44	2.67	3.25	2.67	2.47	3.70	4.93
	40°	1.50	2.22	1.50	2.94	3.78	2.94	3.00	4.51	6.01
	45°	1.62	2.34	1.62	3.06	4.02	3.06	3.25	4.87	6.49
	50°	1.73	2.45	1.73	3.17	4.24	3.17	3.47	5.20	6.93
	60°	1.92	2.64	1.92	3.36	4.62	3.36	3.84	5.76	7.68
	70°	2.05	2.77	2.05	3.49	4.90	3.49	4.11	6.16	8.22
	80°	2.15	2.86	2.15	3.58	5.09	3.58	4.29	6.44	8.58
	90°	2.18	2.90	2.18	3.62	5.17	3.62	4.35	6.53	8.71

Adjustable Square & Round Pole Arm Mount Drilling Dimensions for New Construction

(for additional details, please consult online installation instructions)

