

ARCEOS™ ARS SERIES

SURFACE/CEILING/GARAGE

Cat.#	
Job	Type



HUBBELL
Outdoor Lighting

Approvals

SPECIFICATIONS

Intended Use:

Ceiling applications from eight to eighteen feet for surface, box or pendant mount. Applications include parking garage, walkway or building canopies, corridors, tunnels, large stairwells and other interior applications with ambient 40°C. A wide range of lumen packages and optical distributions are available making the ARS Series luminaire both versatile and functional.

Construction:

- Die cast aluminum housing features vertical fins for two directional air flow that maximizes heat dissipation and ensures long electrical component life and luminaire performance
- LED light engines and electrical compartment are thermally isolated with an air gap for optimum component performance and long life
- One piece molded silicone gasket ensures weather proof seal around each individual LED; Stamped stainless steel bezel provides mechanical compression to seal the optical assembly; 18L and 24L luminaires include finish (color) matching blanking bezel
- IP65 luminaire rating
- Vandal resistant polycarbonate and low bright-ness acrylic shield accessories available

LED/Optics:

- Light engine is hexagonal LED module containing 6 high output LEDs with PMMA acrylic lenses that create precise photometric performance
- Choice of multiple light outputs based on quantity of hexagonal LED arrays: 3 = 18 LEDs, 4 = 24 LEDs or 6 = 36 LEDs hexagonal LED modules, lumen range 4,000-9,700
- Four distribution types: Type V Square (5M), Type V Rectangular (5R), Type V Wide (5W) or Type IV (4)
- Type V Rectangular (5R) lenses provides low brightness "drive aisle optics" solution for low mounting height applications when the lens is oriented perpendicular to the flow of traffic
- Variety of color temperatures offered: 3000K (70CRI), 4000K (70CRI) or 5000K (70 CRI) CCT
- Each hexagonal light engine comes with a connector for easy replacement

Electrical:

- 120V-277V 50/60Hz, 42-86 Watts 700mA configurations. Drivers RoHS compliant and IP66
- 0-10V dimming drivers. Up to 113 lumens per watt. Designed and certified for 40°C ambient temperatures
- Thermal management protection device shuts driver/LED systems off when temperatures are too high. Operating temperature range -30°C/-22°F -40°C/104°F
- Surge protection – 20KA; Turns fixture off at end of life; Includes LED for end of life indication (see surge suppressor page 3)

Controls/Options:

- Occupancy Sensors, photocells controls available for on/off or dimming operation
- wiSCAPE in fixture wireless control module, features dimming, switching motion sensor
- Up light option available in 24L and 36L configurations

Installation:

Quick disconnect plate mounts over standard junction box and allows for simplified fixture installation. A 3/4" hub provides pendant stem mounting making the fixture adaptable to a variety of applications. Each mounting can be accomplished while maintaining a watertight seal. Four 1/2" conduit hubs allow side access as required. A pattern indicator on the mounting plate allows the installer to properly orient the fixture without energizing the light engines.

Listings:

Listed to UL 1598 for use in wet locations, 40° C ambient environments; Meets DesignLights Consortium (DLC) qualifications 4K & 5K models only. Consult DLC website for more details: <http://www.designlights.org/QPL>; IP65

Warranty:

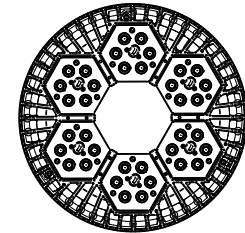
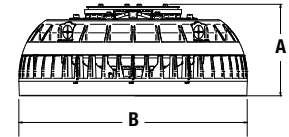
Five year limited warranty (for more information visit: <http://www.hubbellighting.com/resources/warranty/>)

PRODUCT IMAGE(S)



Shown with motion control option

DIMENSIONS



A	B	Weight:
5.68"	14.00"	18 lbs
(144.22 mm)	(355.6 mm)	8.16 kg

CARTON DIMENSIONS

Length	Width	Height
15.88"	15.88"	7.5"

CERTIFICATIONS/LISTINGS



IP65



*3000K and warmer CCTs only

ORDERING INFORMATION ORDERING EXAMPLE: ARS-36L5K-070-5M-1-DB-PC

ARS - [] - [] - [] - [] - [] - [] - []

SERIES	NUMBER OF LEDS	LED COLOR	DRIVE CURRENT	IES DISTRIBUTION	VOLTAGE ²	FINISH	FINISH	OPTIONS
ARS Arceos™ surface/ceiling/garage luminaire	18L 18 LEDs 24L 24 LEDs 36L 36 LEDs	3K 3000K 4K 4000K 5K 5000K	070 700mA 083 ¹ 833mA 105 ¹ 1050mA	5M Type V Square 5R Type V Rectangle 5W Type V Wide 4 Type IV	U 120V-277V 1 120V 2 208V 3 240V 4 277V F ⁶ 347V 5 ⁶ 480V	DB Bronze BL Black WH White PS Platinum Silver GR Gray	FG Forest Green (premium color) RD Red (premium color) CC Custom Colors (Consult factory)	F ² Fusing (voltage specified and determined by voltage field) UD Up light option, available in 24L and 36L only 700mA configuration only LMB Less mounting bracket (must order mounting bracket accessory) CS Comfort Shield SPC Vandal Shield

CONTROL OPTIONS

- WIR wiSCAPE, In-fixture wireless control module
- WIRSC wiSCAPE, In-fixture wireless control module w/ occupancy sensor

CONTROL OPTIONS

- PC² Photocontrol (must specify voltage not available in 480V)
- SCP-8F^{3,5} High/low control - wide lens for up to 8' mounting heights
- SCP-20F^{3,5} High/low control - for up to 20' mounting heights user programmable settings

¹ 833mA only available in 18L, 1050mA only available with 24L, 120-277V only

² Specify voltage for voltage specific options

³ 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings; Must order minimum of one SCP-REMOTE to program dimming settings

⁴ One per LED module e.g. 3 – 18L, 4 – 24L, and 6 – 36L luminaires (see page 3)

⁵ PC option not applicable, included in sensor. For SCP, PC function turns on to lower setting until motion is detected

⁶ 24L and 36L 700mA configuration only, not available with UD or WIRSC options

See page 2 and 3 for Accessories.



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Due to our continued efforts to improve our products, product specifications are subject to change without notice.



ACCESSORIES/REPLACEMENT PARTS - Order Separately

Catalog Number	Description
ARS-SPC ⁴	Vandal shield (1 per LED module)
ARS-BS-XX ²	Bird shield
ARS-CS ⁴	Comfort shield - Reduces source brightness and improving P95 acrylic with nominal 10% lumen reduction (1 per LED module)
ARS-MB-XX ²	ARS mounting bracket for pre-installation of mounting bracket (accessory for LMB option)
SCP-REMOTE ²	Remote control for SCP option; order at least on per project to program and control (not applicable for 347/480V)
SWUSB ^{3**}	SiteSync interface software loaded on USB flash drive for use with owner supplied PC (Windows based only). Includes SiteSync license, software and USB radio bridge node.
SWTAB ^{3**}	Windows tablet and SiteSync interface software. Includes tablet with preloaded software, SiteSync license and USB radio bridge node.
SWBRG ²	SiteSync USB radio bridge node only. Order if a replacement is required or if an extra bridge node is requested.
93052458	20KA surge protection with an end of life LED indicator

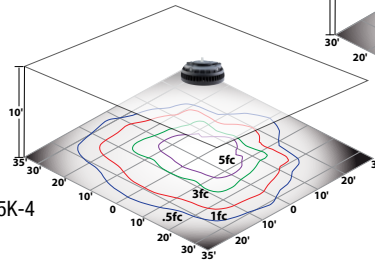
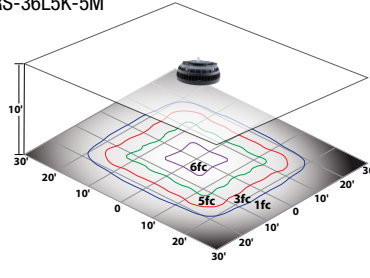
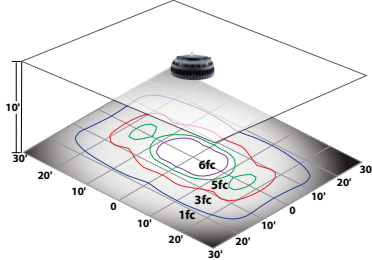
^{XX} = Color Options: DB, BL, WH, PS and GR
^{**} When ordering with SiteSync, one of the following interface options must be chosen ordered separately. Each option contains the SiteSync License, GUI and Bridge Node.
^{***} When ordering SiteSync at least one of these two interface options must be ordered per project.
⁺ If needed, an additional Bridge Node can be ordered.

PHOTOMETRICS

Type V Rectangle
 Drive Aisle Optic
 ARS-36L5K-5R

Type V Square – ARS-36L5K-5M

Type V Wide – ARS-36L5K-5W



Type IV – ARS-36L5K-4

PERFORMANCE DATA

# LED'S	DRIVE CURRENT (MILLIAMPS)	SYSTEM WATTS	DISTRIBUTION TYPE	5K (5000K nominal, 70 CRI)					4K (4000K nominal, 70 CRI)					3K (3000K nominal, 70 CRI)				
				LUMENS	LPW ¹	B	U	G	LUMENS	LPW ¹	B	U	G	LUMENS	LPW ¹	B	U	G
18	700mA	42	5M	4551	109	2	0	1	4376	105	2	0	1	4026	97	2	0	0
			5R	4727	113	2	0	2	4511	108	2	0	2	4150	100	2	0	2
			5W	4517	108	3	0	1	4182	100	3	0	2	3847	92	3	0	1
	833mA	54	5M	5401	100	2	0	1	5024	93	2	0	1	4622	85	2	0	1
			5R	5541	102	3	0	3	5179	96	2	0	2	4765	88	2	0	2
24	700mA	56	5M	6068	109	2	0	1	5835	105	3	0	1	5368	97	2	0	1
			5R	6303	113	3	0	3	6015	108	3	0	3	5534	100	3	0	3
			5W	6022	108	3	0	2	5576	100	3	2	3	5130	92	3	0	1
	1050mA	85	5M	7888	93	3	0	1	7586	89	3	0	1	6979	82	3	0	1
			5R	8194	97	3	0	3	7820	92	3	0	3	7194	85	3	0	3
36	700mA	86	5M	9391	109	3	0	1	8695	101	3	0	1	7999	93	3	0	1
			5R	9741	113	3	0	3	8962	104	3	0	3	8245	96	3	0	3
			5W	9100	105	4	0	2	8427	98	3	0	2	7753	90	3	0	2

¹Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

ELECTRICAL DATA

# OF LEDS	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (w)	CURRENT (Amps)
18	1	700	120	41.7	0.35
			277		0.15
	1	833	120	54.2	0.45
			277		0.20
24	2	700	120	55.6	0.46
			277		0.20
			347		0.16
	1	1050	120	84.8	0.71
			277		0.31
			480		0.12
36	3	700	120	86.3	0.72
			277		0.31
			347		0.25
			480		0.18

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

AMBIENT TEMPERATURE	LUMEN MULTIPLIER
0° C	1.02
10° C	1.01
20° C	1.00
25° C	1.00
30° C	1.00
40° C	0.99

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

PROJECTED LUMEN MAINTENANCE

AMBIENT TEMP.	0	25,000	50,000	TM-21-11 60,000	100,000	Calculated L70 (HOURS)
10°C / 50°F	1.01	1.00	0.99	0.99	0.97	>1,085,000
25°C / 77°F	1.00	0.99	0.98	0.98	0.96	>1,085,000
40°C / 104°F	0.97	0.96	0.96	0.95	0.94	>782,000

¹ Projected per IESNA TM-21-11 Data references the extrapolated performance projections for the **ARS-36LU-5K** base model in a 40°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.

VERSATILE CONFIGURATIONS



ARS-18LU

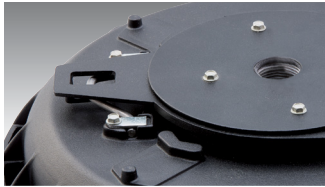


ARS-24LU



ARS-36LU

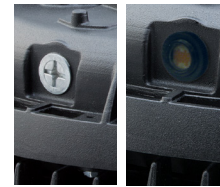
MOUNTING OPTIONS & ACCESSORIES



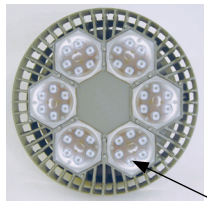
Specially designed internal hook and hinge allows easy access to wiring and internal components for easy installation



Pendant mount with 3/4" wiring hub; Bird shield accessory available; J-Box mounting slots and wire way accommodate 3 1/2" and 4" J-Box designs

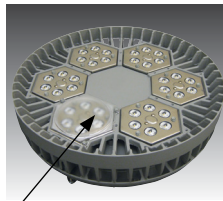


Four - 1/2" wiring hubs for surface conduit wiring and photocell option



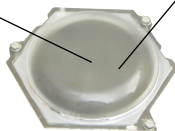
ARS-SPC - Clear vandal shield installs over each hexagonal LED bezel with 3 provided screws, specify quantity when ordering:

- 3 for 18L
- 4 for 24L
- 6 for 36L



ARS-CS - Frosted comfort shield installs over each hexagonal LED bezel with 3 provided screws, improved uniformity and reduced LED brightness, specify quantity when ordering:

- 3 for 18L
- 4 for 24L
- 6 for 36L



Optional up light feature provides approximately 300 lumens of ambient light reducing the "cave effect" in parking garage applications (available in 24L and 36L, 700mA versions only)

SURGE PROTECTION

- Field replaceable surge protection device (SPD) provides 20KA and 10KV protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3
- The SPD is designed with a clamping voltage of 1600V at 20KA using industry standard 8/20µs waveform
- Max surge current = 20,000 Amps (see table)
- LED Indicator – Green LED is unlit at end of life

Pulse Rating (8 x 20 µSec)	
Strikes	Surge
1	20,000 A
2	15,000 A
15	10,000 A
120	3,000 A

	cRUus	CE
I _n	10KA	5KA