

ARCEOS™ ARS SERIES

SURFACE/CEILING/GARAGE

Cat.#

Job

Type



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 and 24L luminaires include finish (color) matching blanking bezel
- IP65 luminaire rating
- Vandal resistant polycarbonate and low brightness 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 4,000-8,600
- Three distribution types: Type V Square (5M), Type V Rectangular (5R) 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 (80CRI), 4000K (70CRI) or 5000K (70 CRI) CCT

- Each hexagonal light engine comes with a connector for easy replacement

Electrical:

- 120V-277V 50/60Hz, 54.4W, 57W or 86W 700mA configurations
- Drivers RoHS compliant and IP66
- 0-10V dimming drivers
- Lumens per watt > 92-102
- 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:

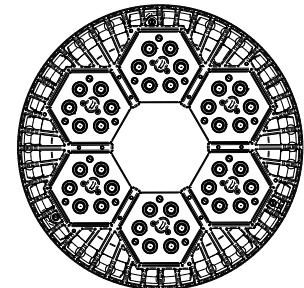
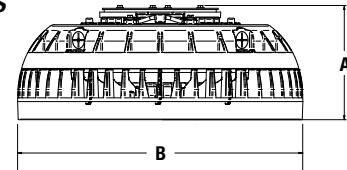
Five year limited warranty (for more information visit: <http://www.hubbellingighting.com/resources/warranty/>)

PRODUCT IMAGE(S)



Shown with motion control option

DIMENSIONS

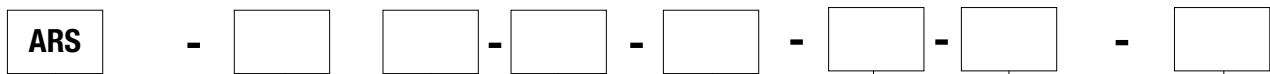


A	B	Weight:
5.68"	14.00"	18 lbs
(144.22 mm)	(355.6 mm)	8.16 kg

CERTIFICATIONS/LISTINGS



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



SERIES	NUMBER OF LEDS	LED COLOR	DRIVE CURRENT	IES DISTRIBUTION	VOLTAGE ²	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' 833mA	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	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) Controls Guide	PC ² Photocontrol (voltage specified and determined by voltage field) F ² Fusing (voltage specified and determined by voltage field) UD Up light option, available in 24L and 36L only (see page 3) WIR wiSCAPE, in-fixture wireless control module

ACCESSORIES - Order separately

MOTION CONTROL OPTIONS

- SCP^{2,3,5} High/low control - for up to 20' mounting heights user programmable settings; Factory default is 10%
- SCPW^{2,3,5} High/low control - wide lens for up to 8' mounting heights

¹ 833 only available in 18L drive current

² Specify voltage for voltage specific options (only 120V-277V available for Fusing)

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

See page 2 and 3 for Accessories.



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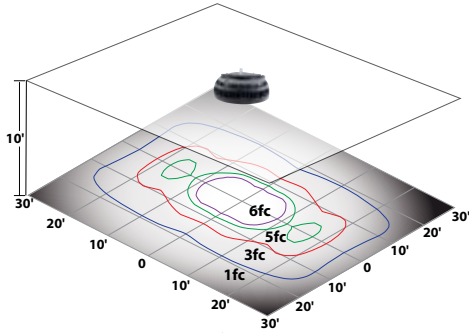
ACCESSORIES/REPLACEMENT PARTS - Order Separately

Catalog Number	Description
ARS-SPC ⁴	Vandal shield (1 per LED module)
ARS-BS-XX [*]	Bird shield
ARS-CS ⁴	Comfort shield - Reduces source brightness and imaging P95 acrylic with nominal 10% lumen reduction (1 per LED module)
SCP-REMOTE ³	Remote control for SCP option; order at least on per project to program and control
93052458	20KA surge protection with an end of life LED indicator

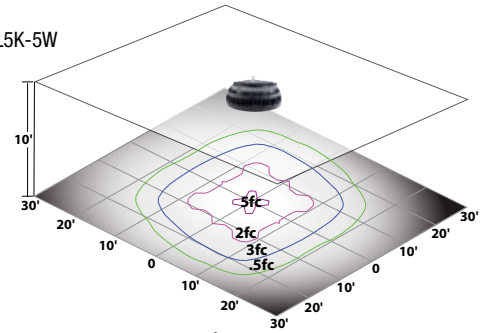
^{*}XX = Color Options: DB, BL, WH, PS and GR

PHOTOMETRICS

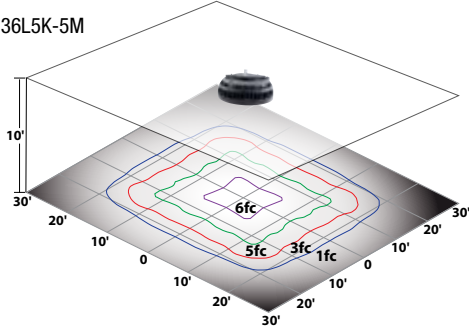
Type V Rectangle
Drive Aisle Optic
ARS-36L5K-5R



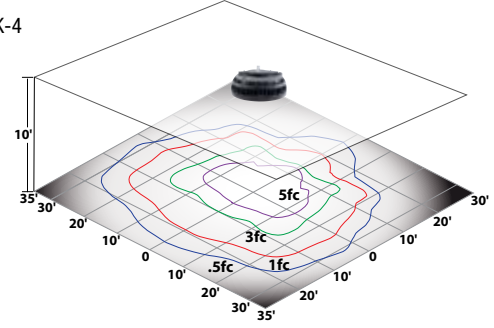
Type V Wide – ARS-36L5K-5W



Type V Square – ARS-36L5K-5M



Type IV – ARS-36L5K-4



PERFORMANCE DATA

# LED'S	DRIVE CURRENT (MILLIAMPS)	SYSTEM WATTS	DISTRIBUTION TYPE	5K (5000K nominal, 67 CRI)					4K (4000K nominal, 70 CRI)				
				LUMENS	LPW ¹	B	U	G	LUMENS	LPW ¹	B	U	G
18	(833 MA)	54.4W	4	4300	79	1	0	2	4,083	75	1	0	2
			5M	4425	81	1	0	2	4,208	77	1	0	2
			5R	4725	87	1	0	2	4,508	83	1	0	2
24	STD. (700 MA)	57W	4	5360	94	1	0	2	4986	87	1	0	2
			5M	5485	96	2	0	1	5012	88	2	0	1
			5R	5800	102	3	0	3	5375	94			
36		86W	4	7966	93	1	0	2	7522	87	1	0	2
			5M	8203	95	3	0	1	7439	87	3	0	1
			5R	8604	100	3	0	3	8030	93			

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.

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.

ELECTRICAL DATA

# OF LEDS	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (w)	CURRENT (Amps)
18	1	(833 MA)	120	54.5	0.50
			277	56.8	0.22
24	2	STD. (700 MA)	120	57	0.48
			277	59	0.24
36	3	(700 MA)	120	86	0.73
			277	89	0.35

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).



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VERSATILE CONFIGURATIONS



ARS-18LU



ARS-24LU



ARS-36LU

MOUNTING OPTIONS & ACCESSORIES



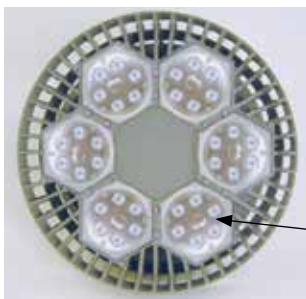
Specially designed internal hook and hinge allows easy access to wiring and internal components for easy installation



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

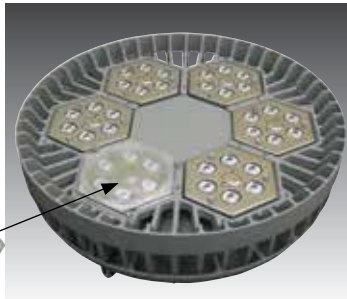


Four - 1/2" wiring hubs for surface conduit wiring and photocell option



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



Up light option provides ambient light reducing the "cave effect" in parking garage applications (available in 24L and 36L 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