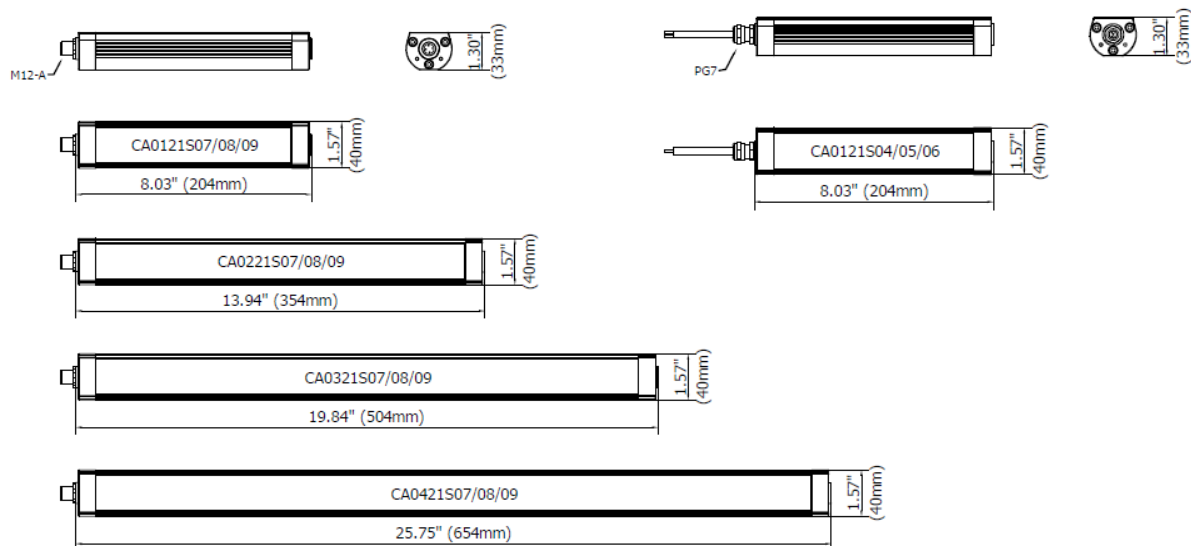




COMPACT-ALPHA is designed for use in different work environments. It is a compact construction combining state-of-the-art LED technology with a sturdy, anodized aluminum housing that is highly resistant to liquids and debris. Suitable in any workplace where the space is limited, and it requires high-performance and intense lighting. COMPACT-ALPHA offers four standard dimensions and multiple customized size preferences thanks to the engineered modular aluminum housing and optimized PCBs. The standard 10-foot cord or M12 Connector provides flexible, secure, and fast accessibility to 24 VDC with no additional supply unit. The conventional mounting side bracket CAFX01 precisely adjusts the light direction to 70° toward the work area and provides secure clamping and flexible installation of the luminaires on redeveloping machines.

- Housing made of anodized aluminum
- Outer diameter 1.57in (40mm)
- 4 sizes to meet every need
- Operating temperature from -04°F (-20°C) to +113°F (+ 45°C)
- Three optics: 30° concentrate - 90° Wide - 110° Diffuse
- LED lifespan: (L 70) > 60 000 h
- Light color 5000 K - CRI 85
- 24 Vdc via M12 or 10ft. (3m) Cable
- Pre-assembled 16.40ft (5m) power cord
- PWM Interface Via M12 Connector A-coding 4 pin
- Installation with CAFX01 side-mounting brackets
- Approval: cURus in compliance with UL2018 / CSA / CE / RoHS
- IP67-IP69 Protection Rate

1. DIMENSIONS



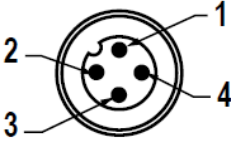
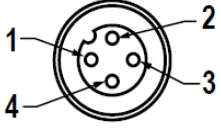
2. MECHANICAL FEATURES

Model	CA012IS04 CA012IS05 CA012IS06	CA012IS07 CA012IS08 CA012IS09	CA022IS04 CA022IS05 CA022IS06	CA022IS07 CA022IS08 CA022IS09	CA032IS04 CA032IS05 CA032IS06	CA032IS07 CA032IS08 CA032IS09	CA042IS04 CA042IS05 CA042IS06	CA042IS07 CA042IS08 CA042IS09
Housing	Anodized extruded aluminum							
Side Enclosers	Anodized aluminum							
Surface finishing	10 microns aluminum oxidation							
Front Glass	Extra clear tempered 0.16 in (4 mm) thick frosted glass IK06							
Weight	1.15 lb (0.55kg)	0.82 lb (0.40kg)	1.65 lb (0.75kg)	1.30 lb (0.60kg)	2.20 lb (1.00kg)	1.85 lb (0.85kg)	2.87 lb (1.30kg)	2.38 lb (1.10kg)
Protection Index	IP67-IP69	IP67	IP67-IP69	IP67	IP67-IP69	IP67	IP67-IP69	IP67
	Compatible with NEMA Type 12							
Impact Resistance	1.00 N m/s							
Operating Temperature	04°F (-20°C) to +113°F (+ 45°C)							
Installation	CAFX01 / Magnet B05							

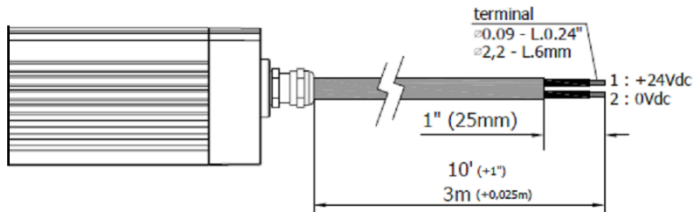
3. ELECTRICAL FEATURES

Model	CA012IS04	CA012IS07	CA022IS04	CA022IS07	CA032IS04	CA032IS07	CA042IS04	CA042IS07
	CA012IS05	CA012IS08	CA022IS05	CA022IS08	CA032IS05	CA032IS08	CA042IS05	CA042IS08
	CA012IS06	CA012IS09	CA022IS06	CA022IS09	CA032IS06	CA032IS09	CA042IS06	CA042IS09
Power Input		6 W	12 W		18 W		24 W	
Power Supply		24 Vdc						
Current		0.25 A @ 24 Vdc	0.50 A @ 24 Vdc		0.75 A @ 24 Vdc		1 A @ 24 Vdc	
Device Power Protection		Full protection against reverse polarity						
Electrical Connection	Cable	M12	Cable	M12	Cable	M12	Cable	M12
Electrical Class		Class III (SELV)						
Efficiency		D (Integrated LED module) compliant with UE Law No. 2019/2015						

3.1. CONNECTION* with M12-4P Male A Coding

Male	Female	Pin	Connection
		1	+24 Vdc
		2	Not Connected
		3	0 Vdc
		4	Not Connected

3.2 CONNECTION* with 10 ft. (3m) Cable, Standard length

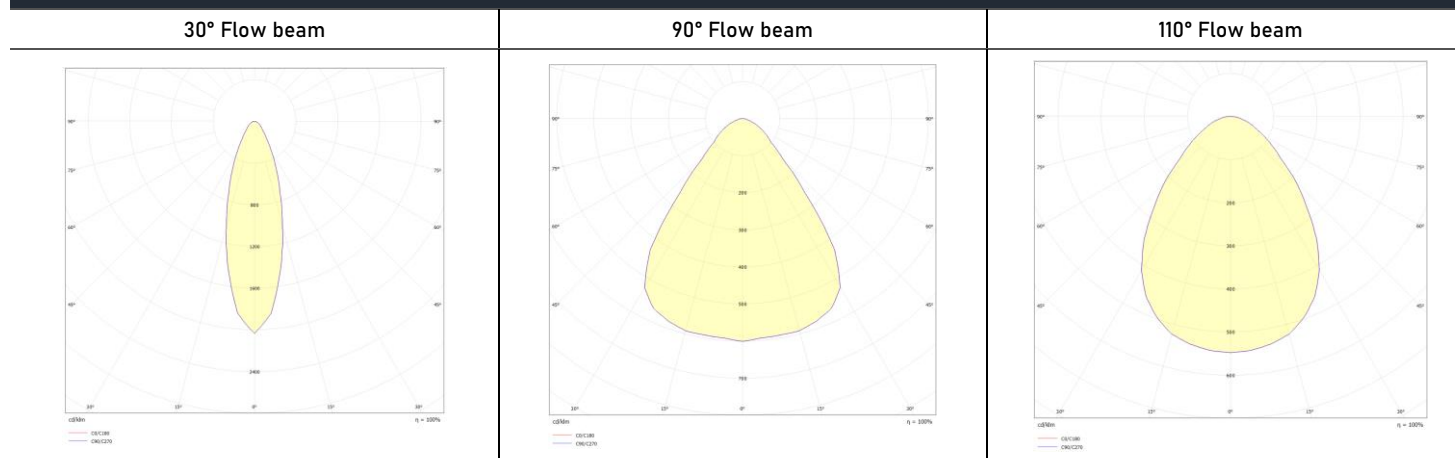
PVC 2 x 18 AWG (0.75 mm²) L= 10 ft. (3 m)	Conductor	Connection
	1 Black	+24 Vdc
	2 Black	0

4. OPTICAL FEATURES

Model	N° and Type of LEDs	LED Lifespan	Light Color	CRI	Light Beam Angle	Luminous Flux	Efficiency
CA0121S04	15 Mid Power LED	60 000 h L70 **	5000 K	85	30°	650 lm	108 lm/W
CA0121S05	15 Mid Power LED	60 000 h L70 **	5000 K	85	90°	600 lm	100 lm/W
CA0121S06	15 Mid Power LED	60 000 h L70 **	5000 K	85	110°	550 lm	92 lm/W
CA0121S07	15 Mid Power LED	60 000 h L70 **	5000 K	85	30°	650 lm	108 lm/W
CA0121S08	15 Mid Power LED	60 000 h L70 **	5000 K	85	90°	600 lm	100 lm/W
CA0121S09	15 Mid Power LED	60 000 h L70 **	5000 K	85	110°	550 lm	92 lm/W
CA0221S04	30 Mid Power LED	60 000 h L70 **	5000 K	85	30°	1300 lm	108 lm/W
CA0221S05	30 Mid Power LED	60 000 h L70 **	5000 K	85	90°	1200 lm	100 lm/W
CA0221S06	30 Mid Power LED	60 000 h L70 **	5000 K	85	110°	1100 lm	92 lm/W
CA0221S07	30 Mid Power LED	60 000 h L70 **	5000 K	85	30°	1300 lm	108 lm/W
CA0221S08	30 Mid Power LED	60 000 h L70 **	5000 K	85	90°	1200 lm	100 lm/W
CA0221S09	30 Mid Power LED	60 000 h L70 **	5000 K	85	110°	1100 lm	92 lm/W
CA0321S04	45 Mid Power LED	60 000 h L70 **	5000 K	85	30°	1950 lm	108 lm/W
CA0321S05	45 Mid Power LED	60 000 h L70 **	5000 K	85	90°	1800 lm	100 lm/W
CA0321S06	45 Mid Power LED	60 000 h L70 **	5000 K	85	110°	1650 lm	92 lm/W
CA0321S07	45 Mid Power LED	60 000 h L70 **	5000 K	85	30°	1950 lm	108 lm/W
CA0321S08	45 Mid Power LED	60 000 h L70 **	5000 K	85	90°	1800 lm	100 lm/W
CA0321S09	45 Mid Power LED	60 000 h L70 **	5000 K	85	110°	1650 lm	92 lm/W
CA0421S04	60 Mid Power LED	60 000 h L70 **	5000 K	85	30°	2600 lm	108 lm/W
CA0421S05	60 Mid Power LED	60 000 h L70 **	5000 K	85	90°	2400 lm	100 lm/W
CA0421S06	60 Mid Power LED	60 000 h L70 **	5000 K	85	110°	2200 lm	92 lm/W
CA0421S07	60 Mid Power LED	60 000 h L70 **	5000 K	85	30°	2600 lm	108 lm/W
CA0421S08	60 Mid Power LED	60 000 h L70 **	5000 K	85	90°	2400 lm	100 lm/W
CA0421S09	60 Mid Power LED	60 000 h L70 **	5000 K	85	110°	2200 lm	92 lm/W

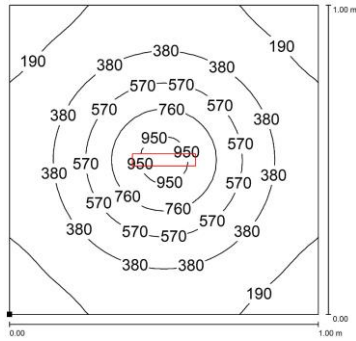
** Flow beam reduced by less than 30% after 60,000 hours

4.1 PHOTOMETRIC DIAGRAMS

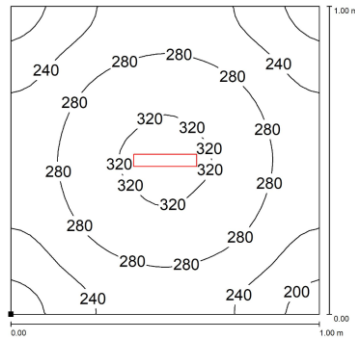


4.2 PHOTOMETRIC DIAGRAMS

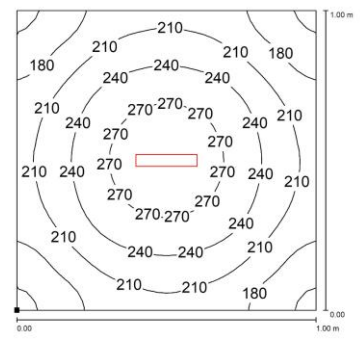
CA012IS04 / CA012IS07



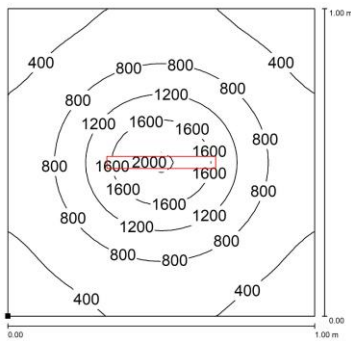
CA012IS05 / CA012IS08



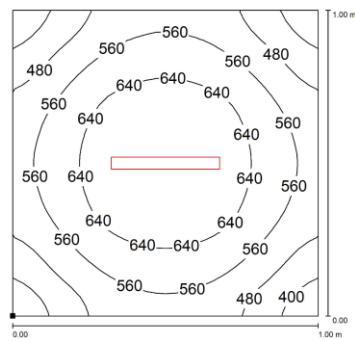
CA012IS06 / CA012IS09



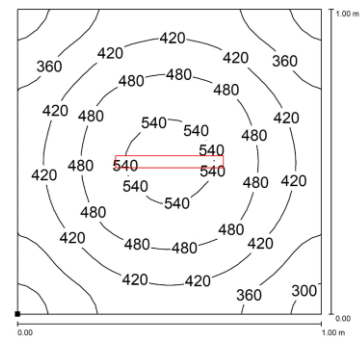
CA022IS04 / CA022IS07



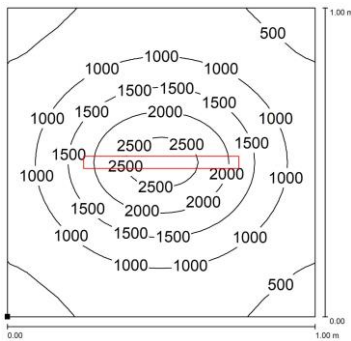
CA022IS05 / CA022IS08



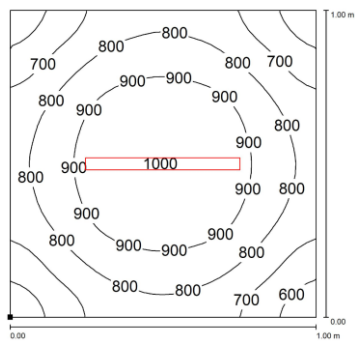
CA022IS06 / CA022IS09



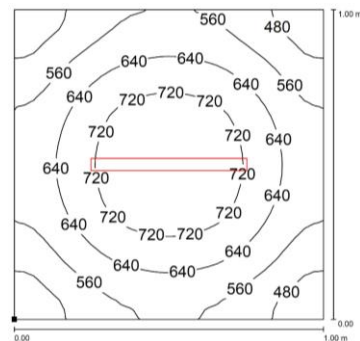
CA032IS04 / CA032IS07



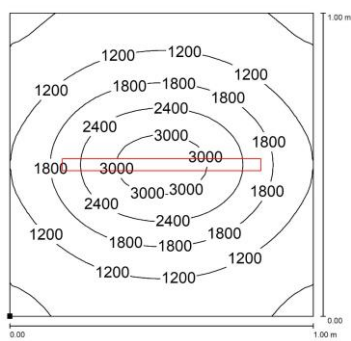
CA032IS05 / CA032IS08



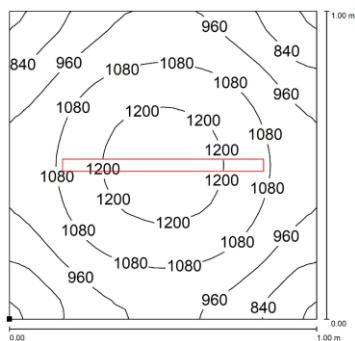
CA032IS06 / CA032IS09



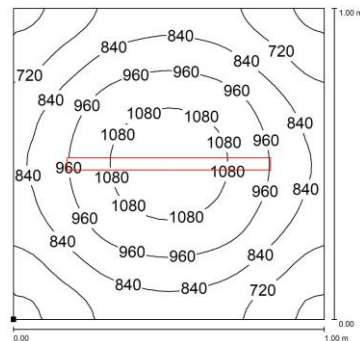
CA042IS04 / CA042IS07



CA042IS05 / CA042IS08



CA042IS06 / CA042IS09



Distance graphic: 1m

5. PLUG-IN M12 Cable Connector

Product pictures	Description	Code product
	Pre-assembled M12 4Pin, female, A Coding, CABLE 5mt, UL	M12AFC5

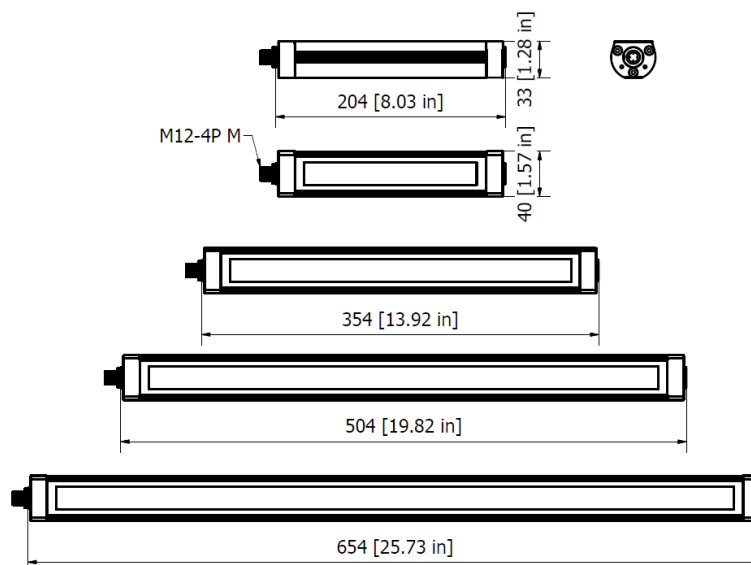
5.1 MOUNTING OPTIONS

Product pictures	Description	Code product
	Robust, versatile, and vibration-resistant, it is a 70° angle adjustment bracket. Made of stainless steel, it is the perfect solution when you need to adjust the direction of the flow beam in high-vibrating applications.	CAFX01
	Strong magnetic disc made of neodymium and high grip. Use along with CAFX01 brackets when you need to move the light frequently and to different positions. Suitable to use in high-vibrating applications.	B05

6. ORDER CODES

Model	Description
CA012IS04	COMPACT-ALPHA, 8.03"(204mm), 30°, 6W, 24 Vdc, CABLE 10ft (3mt)
CA012IS05	COMPACT-ALPHA, 8.03"(204mm), 90°, 6W, 24 Vdc, CABLE 10ft (3mt)
CA012IS06	COMPACT-ALPHA, 8.03"(204mm), 110°, 6W, 24 Vdc, CABLE 10ft (3mt)
CA012IS07	COMPACT-ALPHA, 8.03"(204mm), 30°, 6W, 24 Vdc, M12-A 4P Male
CA012IS08	COMPACT-ALPHA, 8.03"(204mm), 90°, 6W, 24 Vdc, M12-A 4P Male
CA012IS09	COMPACT-ALPHA, 8.03"(204mm), 110°, 6W, 24 Vdc, M12-A 4P Male
CA022IS04	COMPACT-ALPHA, 13.94"(354 mm), 30°, 12W, 24 Vdc, CABLE 10ft (3mt)
CA022IS05	COMPACT-ALPHA, 13.94"(354 mm), 90°, 12W, 24 Vdc, CABLE 10ft (3mt)
CA022IS06	COMPACT-ALPHA, 13.94"(354 mm), 110°, 12W, 24 Vdc, CABLE 10ft (3mt)
CA022IS07	COMPACT-ALPHA, 13.94"(354 mm), 30°, 12W, 24 Vdc, M12-A 4P Male
CA022IS08	COMPACT-ALPHA, 13.94"(354 mm), 90°, 12W, 24 Vdc, M12-A 4P Male
CA022IS09	COMPACT-ALPHA, 13.94"(504 mm), 110°, 12W, 24 Vdc, M12-A 4P Male
CA032IS04	COMPACT-ALPHA, 19.84"(504 mm), 30°, 18W, 24 Vdc, CABLE 10ft (3mt)
CA032IS05	COMPACT-ALPHA, 19.84"(504 mm), 90°, 18W, 24 Vdc, CABLE 10ft (3mt)
CA032IS06	COMPACT-ALPHA, 19.84"(504 mm), 110°, 18W, 24 Vdc, CABLE 10ft (3mt)
CA032IS07	COMPACT-ALPHA, 19.84"(504 mm), 30°, 18W, 24 Vdc, M12-A 4P Male
CA032IS08	COMPACT-ALPHA, 19.84"(504 mm), 90°, 18W, 24 Vdc, M12-A 4P Male
CA032IS09	COMPACT-ALPHA, 19.84"(504 mm), 110°, 18W, 24 Vdc, M12-A 4P Male
CA042IS04	COMPACT-ALPHA, 25.74"(654 mm), 30°, 24W, 24 Vdc, CABLE 10ft (3mt)
CA042IS05	COMPACT-ALPHA, 25.74"(654 mm), 90°, 24W, 24 Vdc, CABLE 10ft (3mt)
CA042IS06	COMPACT-ALPHA, 25.74"(654 mm), 110°, 24W, 24 Vdc, CABLE 10ft (3mt)
CA042IS07	COMPACT-ALPHA, 25.74"(654 mm), 30°, 24W, 24 Vdc, M12-A 4P Male
CA042IS08	COMPACT-ALPHA, 25.74"(654 mm), 90°, 24W, 24 Vdc, M12-A 4P Male
CA042IS09	COMPACT-ALPHA, 25.74"(654 mm), 110°, 24W, 24 Vdc, M12-A 4P Male
CAFX01	COMPACT-ALPHA, KIT STAINLESS STEEL SIDE BRACKETS 70°
B05	MAGNETIC BASE WITH SCREW M5 Ø30X9mm
M12AFC5	Pre-assembled M12 4Pin, female, A Coding, CABLE 5mt, UL

7. MODEL PWM interface DIMENSIONS



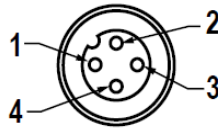
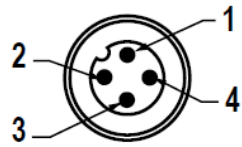
8. MECHANICAL FEATURES PWM models

Model	CA012IS11 CA012IS12 CA012IS13	CA022IS11 CA022IS12 CA022IS13	CA032IS11 CA032IS12 CA032IS13	CA042IS11 CA042IS12 CA042IS13
Casing Material	Anodized extruded aluminum			
Side Enclosers	Anodized aluminum			
Surface Treatment	10 microns aluminum oxidation			
Front Glass	Extra clear tempered 4 mm (0.16 in) thick glass IK06			
Weight	0.55kg (1.15 lb)	0.75kg (1.65 lb)	1.00kg (2.20 lb)	1.30kg (2.87 lb)
Protection Index	IP67 Compatible with NEMA Type 12			
Impact Resistance	1.00 N m/s			
Operating Temperature	04°F (-20°C) to +113°F (+ 45°C)			
Installation	CAFX01 / Magnet B05			

9. ELECTRICAL FEATURES

Model	CA012IS11 CA012IS12 CA012IS13	CA022IS11 CA022IS12 CA022IS13	CA032IS11 CA032IS12 CA032IS13	CA042IS11 CA042IS12 CA042IS13
Power Input	6 W	12 W	18 W	24 W
Power Supply	24 Vdc			
Current	0.25 A @ 24 Vdc	0.50 A @ 24 Vdc	0.75 A @ 24 Vdc	1 A @ 24 Vdc
Device Power Protection	Full protection against reverse polarity			
Electrical Connection	M12	M12	M12	M12
Insulation Class	Class III (SELV)			
Efficiency Class	D (Integrated LED module) compliant with UE Law No. 2019/2015			

9.1 CONNECTION* with M12-4P Male A Coding



Pin	Connection
1	+24 Vdc
2	PWM
3	0 Vdc
4	Not Connected

*if PWM signal is not used, connect pin 2 to GND

9.2 OPTICAL FEATURES

Model	N° and Type of LEDs	LED Lifespan	Light Color	CRI	Light Beam Angle	Luminous Flux	Efficiency
CA012IS11	21 Mid-Power LED	60 000 h L70 **	5000 K	80	30°	~ 650 lm	~ 108 lm/W
CA012IS12	21 Mid-Power LED	60 000 h L70 **	5000 K	80	90°	~ 575 lm	~ 96 lm/W
CA012IS13	21 Mid-Power LED	60 000 h L70 **	5000 K	80	110°	~ 525 lm	~ 87 lm/W
CA022IS11	42 Mid-Power LED	60 000 h L70 **	5000 K	80	30°	~ 1300 lm	~ 108 lm/W
CA022IS12	42 Mid-Power LED	60 000 h L70 **	5000 K	80	90°	~ 1150 lm	~ 96 lm/W
CA022IS13	42 Mid-Power LED	60 000 h L70 **	5000 K	80	110°	~ 1050 lm	~ 87 lm/W
CA032IS11	63 Mid-Power LED	60 000 h L70 **	5000 K	80	30°	~ 1950 lm	~ 108 lm/W
CA032IS12	63 Mid-Power LED	60 000 h L70 **	5000 K	80	90°	~ 1750 lm	~ 96 lm/W
CA032IS13	63 Mid-Power LED	60 000 h L70 **	5000 K	80	110°	~ 1575 lm	~ 87 lm/W
CA042IS11	84 Mid-Power LED	60 000 h L70 **	5000 K	80	30°	~ 2600 lm	~ 108 lm/W
CA042IS12	84 Mid-Power LED	60 000 h L70 **	5000 K	80	90°	~ 2300 lm	~ 96 lm/W
CA042IS13	84 Mid-Power LED	60 000 h L70 **	5000 K	80	110°	~ 2100 lm	~ 87 lm/W

** Flow beam reduced by less than 30% after 60,000 hours

9.3 ORDER CODES

Model	Description
CA012IS11	COMPACT-ALPHA, 8.03"(204mm), 30°, 6W, 24 Vdc, M12-A 4P Male, Dim
CA012IS12	COMPACT-ALPHA, 8.03"(204mm), 90°, 6W, 24 Vdc, M12-A 4P Male, Dim
CA012IS13	COMPACT-ALPHA, 8.03"(204mm), 110°, 6W, 24 Vdc, M12-A 4P Male, Dim
CA022IS11	COMPACT-ALPHA, 13.94"(354 mm), 30°, 12W, 24 Vdc, M12-A 4P Male, Dim
CA022IS12	COMPACT-ALPHA, 13.94"(354 mm), 90°, 12W, 24 Vdc, M12-A 4P Male, Dim
CA022IS13	COMPACT-ALPHA, 13.94"(504 mm), 110°, 12W, 24 Vdc, M12-A 4P Male, Dim
CA032IS11	COMPACT-ALPHA, 19.84"(504 mm), 30°, 18W, 24 Vdc, M12-A 4P Male, Dim
CA032IS12	COMPACT-ALPHA, 19.84"(504 mm), 90°, 18W, 24 Vdc, M12-A 4P Male, Dim
CA032IS13	COMPACT-ALPHA, 19.84"(504 mm), 110°, 18W, 24 Vdc, M12-A 4P Male, Dim
CA042IS11	COMPACT-ALPHA, 25.74"(654 mm), 30°, 24W, 24 Vdc, M12-A 4P Male, Dim
CA042IS12	COMPACT-ALPHA, 25.74"(654 mm), 90°, 24W, 24 Vdc, M12-A 4P Male, Dim
CA042IS13	COMPACT-ALPHA, 25.74"(654 mm), 110°, 24W, 24 Vdc, M12-A 4P Male, Dim
CAFX01	COMPACT-ALPHA, KIT STAINLESS STEEL SIDE BRACKETS 70°
B05	MAGNETIC BASE WITH SCREW M5 Ø30X9mm
M12AFC5	Pre-assembled M12 4Pin, female, A Coding, CABLE 5mt, UL