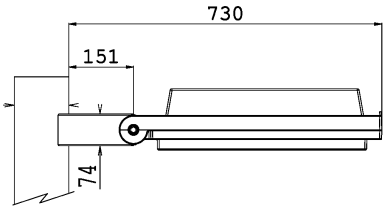
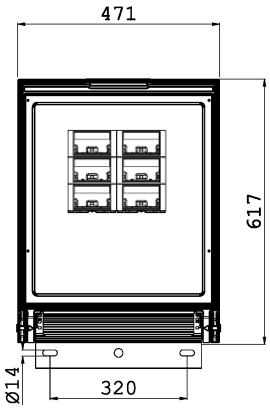
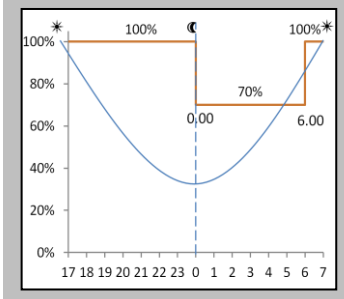
Product Sheet



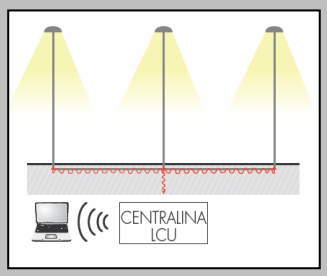


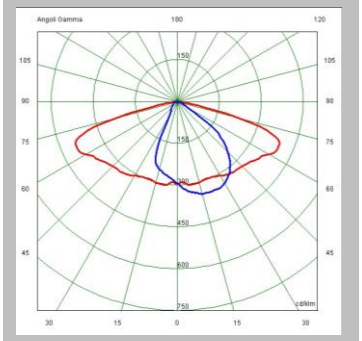
Q5 QUADRO TRIO	
MAIN CHARACTERISTICS	
Applications	Street and urban lighting.
Optic	STU-M/S: Asymmetrical optic for street lighting (urban). STE-M/S: Asymmetrical optic for street lighting (suburban). STW: Asymmetrical optic for wide roads and wet asphalts lighting. S05: Asymmetrical optic for urban and street lighting. Colour temperature: 4000K (3000K, 5700K optional) | CRI ≥ 70 Photobiological Safety Class: EXEMPT GROUP LED source efficiency: 168 lm/W @ 525mA, Tj=85°C, 4000K
Insulation class	II, I
Protection degree	IP66 | IK08 Total
Tilt angle	Adjustable
Mounting	Brackets MT, AD/Q5 , Post-top Ø60mm.
Gear tray	Removable
LED Modules	Removable
Dimensions and weight	See the drawing 16Kg
Exposed surface	Side: 0.10m^2 – Top: 0.29m^2
Operating temperature	-40°C / +25°C
Storage temperature	-40°C / +80°C
Main reference standards	EN 60598-1, EN 60598-2-3, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3
CE IP66 EXEMPT GROUP HIGH PERFORMANCE OPTIC	
ELECTRICAL CHARACTERISTICS	
Rated voltage	220÷240V 50/60Hz
LED current	525mA - 700mA
Power factor	>0,9 (at full load)
Control system	F: Fixed power not dimmable. (Base version) DA: Automatic dimming (virtual midnight) with default profile. DAC: Custom DA profile. PLM: Power Line single point communication system.
Connection	Connector for cables max. section 2.5mm^2
Surge protection	SPD integrated 10kV-10kA, type II, with LED signal and thermo fuse to disconnect load at the end of life.
Optical unit lifetime (Tq=25°C, 700mA)	>100.000hr L90B10 >100.000hr L90, TM-21
MATERIALS	
Fixing	Extruded aluminium EN AW - UNI EN 755
Lower frame and canopy	Die-cast aluminium UNI EN 1706
Heatsink	Extruded aluminium (on each LED module)
Optic	99.85% aluminum with a surface finish in 99.95% with vacuum-sealed deposition. Aluminum grade class A+ (DIN EN 16268)
Screen	Flat tempered glass, 4mm thickness (on each LED module)
Cable gland	Metallic M20x1,5 - IP68
Colour	Graphite (Cod. 01)

DA Profile



PLM





STU-M Optic

All the published photometrical data has been obtained according to EN 13032-1

Product Sheet

LUMINAIRE	LED Current (mA)	OPTICS	RATED LUMINAIRE FLUX[1] (Tq=25°C, 4000K, lm)	RATED LUMINAIRE POWER[1] (Tq=25°C, Vin=230Vac, F / DA / DAC, W)	LUMINAIRE EFFICACY (Tq=25°C, lm/W)	RATED LED FLUX[2] (Tj=85°C, 4000K, lm)	RATED LED POWER[2] (Tj=85°C, W)
Q5 QUADRO 0F2H1 4.5-3M	525	STU-S STU-M S05	5420	44	123	6553	39
Q5 QUADRO 0F2H1 4.5-4M			7010	57	123	8737	53
Q5 QUADRO 0F2H1 4.5-5M			9240	72	128	10922	66
Q5 QUADRO 0F2H1 4.5-6M			10890	85	128	13106	79
Q5 QUADRO 0F2H1 4.7-3M	700	STU-S STU-M S05	6890	58	119	8295	53
Q5 QUADRO 0F2H1 4.7-4M			8810	76	116	11060	71
Q5 QUADRO 0F2H1 4.7-5M			11650	95	123	13825	89
Q5 QUADRO 0F2H1 4.7-6M			13790	114	121	16590	107
Q5 QUADRO 0F3 4.5-3M	525	STE-S STE-M STW	7340	57	129	8852	53
Q5 QUADRO 0F3 4.5-4M			9750	76	128	11803	70
Q5 QUADRO 0F3 4.5-5M			12470	95	131	14753	88
Q5 QUADRO 0F3 4.5-6M			14870	112	133	17704	105
Q5 QUADRO 0F3 4.7-3M	700	STE-S STE-M STW	9230	76	121	11205	71
Q5 QUADRO 0F3 4.7-4M			12300	102	121	14940	95
Q5 QUADRO 0F3 4.7-5M			15630	127	123	18675	119
Q5 QUADRO 0F3 4.7-6M			18660	150	124	22410	142

The tables above describe the flux and output power of the available versions. These parameters are necessary in order to guarantee a correct comparison of the luminaire performance. In particular, the luminaire efficiency (expressed in lm/W) must be calculated as the ratio between the output luminous flux of the luminaire and the power absorbed by the input power supply unit. For the sake of completeness the tables also show the data of the nominal flux and power of the used LED.

Note: 1:Rated data obtained in laboratory | 2:Rated data extrapolated from LED manufacturer datasheet.

Multiplier to obtain flux and power in function of Tq		
Tq (°C)	Flux multiplier	Power multiplier
50	0,94	0,99
40	0,96	-
25	1	1
15	1,02	-
5	1,05	-
0	1,05	1,01

Multiplier to obtain flux and power in function of Tk		
Tk (K)	Flux multiplier	Power multiplier
3000	0,88	1
4000	1	1
5700	1,02	1
CRI	Flux multiplier	Power multiplier
70	1	1
80	0,8	1,01

Note: Valid only for allowed versions (see limits under Operating Temperatures)

The characteristics of the product listed above are subjected to change without notice.
They will have to be confirmed in case of order.
Values indicated in this technical sheet are to be considered rated values subject to a tolerance of +/-5%.

LUMINAIRE	LED Current (mA)	OPTICS	INRUSH CURRENT Duration 50%pk (µs)	INRUSH CURRENT Peak (A)	MCB B-Type 10A / 16A / 25A	MCB C-Type 10A / 16A / 25A	SURGE PROTECTION CL.I (CM / DM, kV)	SURGE PROTECTION CL.II (CM / DM, kV)
Q5 QUADRO 0F2H1 4.5-3M	525	STU-S STU-M S05	230	55	7 / 12 / 20	12 / 20 / 32	10 / 10	9 / 10
Q5 QUADRO 0F2H1 4.5-4M			230	55	7 / 12 / 20	12 / 20 / 32	10 / 10	9 / 10
Q5 QUADRO 0F2H1 4.5-5M			330	40	7 / 12 / 20	12 / 20 / 32	10 / 10	9 / 10
Q5 QUADRO 0F2H1 4.5-6M			330	40	7 / 12 / 20	12 / 20 / 32	10 / 10	9 / 10
Q5 QUADRO 0F2H1 4.7-3M	700	STU-S STU-M S05	230	55	7 / 12 / 20	12 / 20 / 32	10 / 10	9 / 10
Q5 QUADRO 0F2H1 4.7-4M			210	57	7 / 12 / 20	12 / 20 / 32	10 / 10	9 / 10
Q5 QUADRO 0F2H1 4.7-5M			330	62	7 / 12 / 20	12 / 20 / 32	10 / 10	9 / 10
Q5 QUADRO 0F2H1 4.7-6M			330	62	4 / 8 / 14	8 / 14 / 21	10 / 10	9 / 10
Q5 QUADRO 0F3 4.5-3M	525	STE-S STE-M STW	230	55	7 / 12 / 20	12 / 20 / 32	10 / 10	9 / 10
Q5 QUADRO 0F3 4.5-4M			210	57	7 / 12 / 20	12 / 20 / 32	10 / 10	9 / 10
Q5 QUADRO 0F3 4.5-5M			330	40	7 / 12 / 20	12 / 20 / 32	10 / 10	9 / 10
Q5 QUADRO 0F3 4.5-6M			330	62	4 / 8 / 14	8 / 14 / 21	10 / 10	9 / 10
Q5 QUADRO 0F3 4.7-3M	700	STE-S STE-M STW	210	57	7 / 12 / 20	12 / 20 / 32	10 / 10	9 / 10
Q5 QUADRO 0F3 4.7-4M			330	62	4 / 8 / 14	8 / 14 / 21	10 / 10	9 / 10
Q5 QUADRO 0F3 4.7-5M			330	62	4 / 8 / 14	8 / 14 / 21	10 / 10	9 / 10
Q5 QUADRO 0F3 4.7-6M			330	62	4 / 8 / 14	8 / 14 / 21	10 / 10	9 / 10

NOTE 1: The number of luminaires under a three-phase MCB is calculated multiplying by 3 the number in the table. These values are based on data declared by power supply manufacturer and tested on worst case MCB model. An inrush current limiter (i.e. Finder SSR 77.11.x.xxx.8250 (15A) or 77.31.x.xxx.8050 model (30A)) can improve the max.number of luminaire under the MCB
NOTE 2: Power supply manufacturer never did any considerations about 50A or 63A MCB. So we can't declare anything about using of MCB higher than 25A.