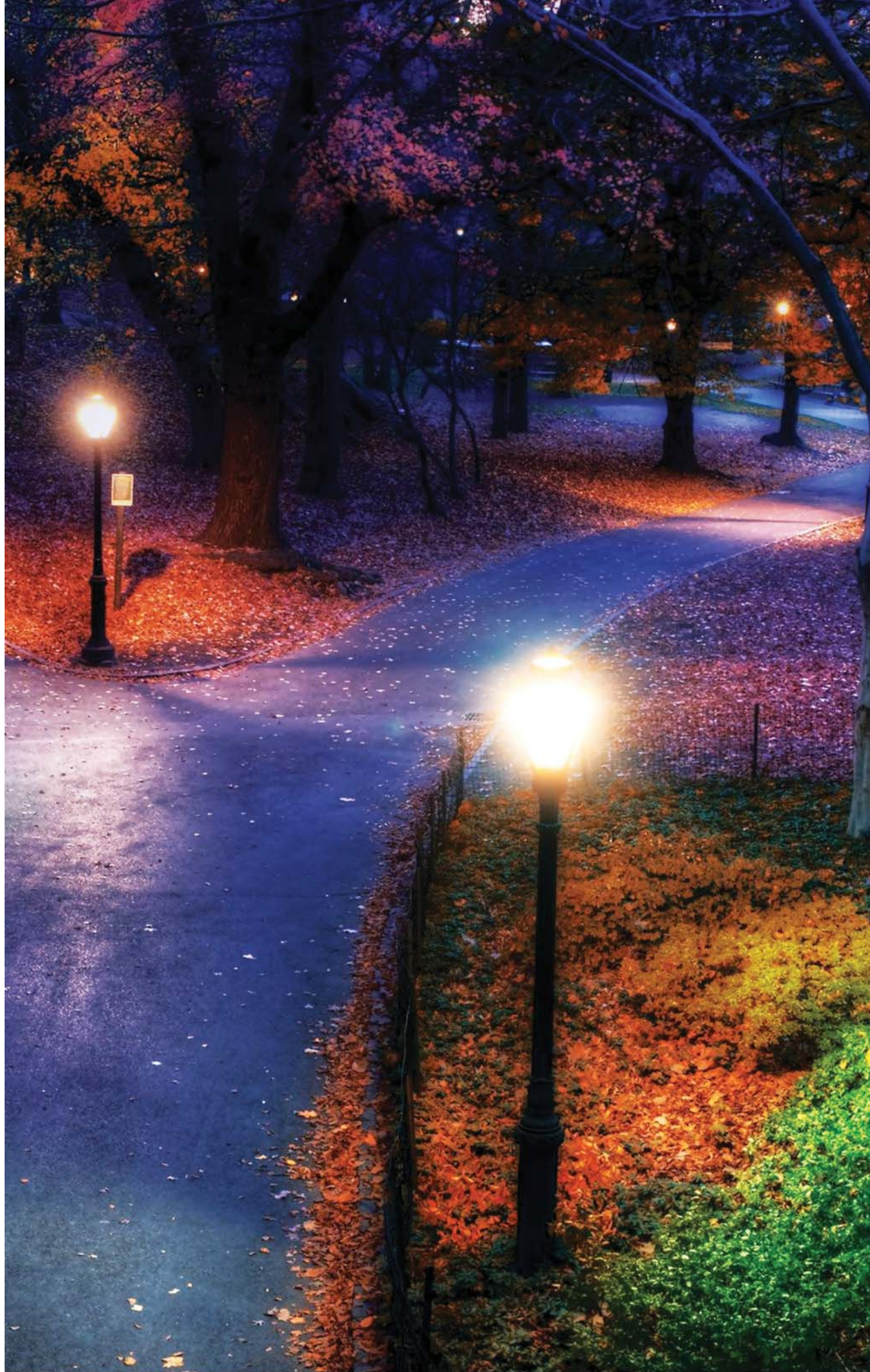


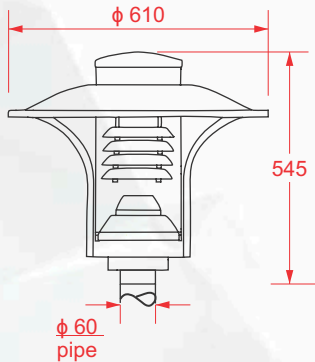


Garden lighting

Almas (G17)



All dimension in mm

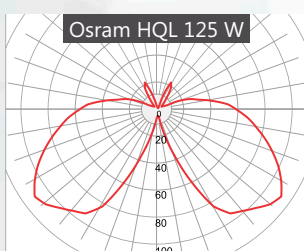


Parameter	Performance
Light source	Energy saving lamps / HQL Lamps
Power range (W)	Up to 125
Input voltage / frequency (v/Hz)	230 / 50
Power factor	0.95
Lamp holder	E27
Bracket holder diameter (mm)	60
Ambient temperature (°C)	35
Maximum weight (kg)	7.5 (125 W HQL)
Installation height (m)	3 - 4
Optical IP	44
Electrical IP	44
Dimension (cm)	Φ61 x 54.5
Area of the surface to be loaded (m²)	0.12
Protection class against electrical shock	Class I
Glass	Poly carbonate
Reflector	Anodized aluminum
Cylindrical reflector	Poly carbonate
Body	Die-cast and pressed aluminum
Coating	Electrostatic powder painting
Operating temperature range (°C)	-20 ~ +50
Operating humidity	95%
Control gear and glass package size (cm)	23 x 23 x 57.5 (± 0.5)
Plate and pole package size (cm)	62 x 62 x 15 (± 0.5)
Complete package size (cm)	62 x 62 x 57 (± 0.5)
Weight (kg)	6.4

Power(W)	Lamp	Capacitor (μF)	Current (A) without capacitor	Current (A) with capacitor	Lamp holder	Weight (kg)
35	NAV	9	0.5	0.2	E27	7.3
50	NAV	10	0.8	0.3	E27	7.4
70	NAV	12	1	0.4	E27	7.6
125	NAV	9	1.2	0.7	E27	7.6

Standards

IEC 60598-1	Luminaires - General requirements
IEC 60598-2-3	Luminaires - particular requirements for road and street lighting
ISIRI 5920-1	Luminaires - General requirements and tests
ISIRI 5920-2-3	Particular Requirements - luminaires for road & street lighting



Available Lamp Type											
High Pressure Sodium (HPS) - Metal halide								Mercury Vapour (HQL)			
35 W	50 W	70 W	100 W	150 W	250 W	400 W	600 W	125 W	250 W	400 W	Can be used but not economical
											Can be used
											Can not be used
											Tubular lamps
											Elliptical lamp
IP44 Electrical 3 - 4 F											



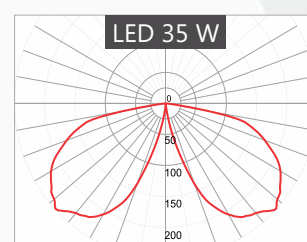
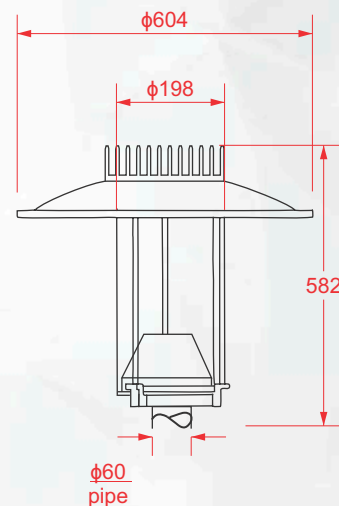
Parameter	Performance
Nominal input voltage (v -AC /Hz)	230 / 50
Input voltage range (v -AC /Hz)	100 ~ 290 / 50 ~ 60
Nominal input current (A)	0.160 @ 230
Power factor	0.95
LED module nominal power (W)	90
LED module operating voltage (v -DC)	48
System input power (W)	35
Power consumption of a single LED (W)	3
Total harmonic distortion(THD)	≤ 15%
Type of LED module	Separate ballast
Structure of LED module	Integrated

Parameter	Performance
Light source	High power LED
Light distribution system	Optical grade street lighting lense 70 x 135
Number of LEDs (pcs)	30
Nominal luminous flux (Lm)	3000
System luminous efficiency (Lm/W)	86
Color temperature (°K)	6500
Photometric code	865/339
Color rendering index (Ini. & Main.)(CRI)	79
Installation height (m)	3 - 4
Lumen maintenance after 1000 hours	98%
Group of maintenance factor in 6000 hr	A

Parameter	Performance
Ingress protection	IP 65
Body	Die-cast aluminum
Cylindrical reflector	Poly carbonate
Coating	Electrostatic powder painting
Operating Temperature range (°C)	-20 ~ +50
Weight (kg)	6.4
Package size(cm)	61 x 61 x 61 (±0.5)

Standards	
IEC 60598-1	Luminaires -particular requirements for road and street lighting
IEC 61000-3-2	Harmonics
IEC 62384	LED control - gear - performance requirements
IES LM-80	LED light source - lumen maintenance
INSO 14878-1	Quality Grade of LED Lamps and Luminaires - General requirements and tests

All dimension in mm

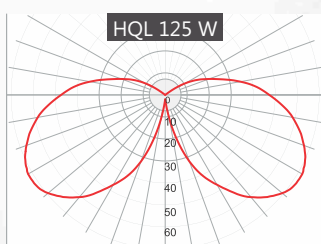
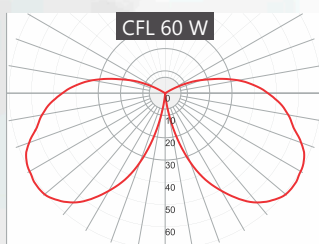




Technical drawing of a lighting fixture. The drawing shows a cross-section of the fixture. The top diameter is labeled $\phi 525$. The total height is labeled 560. The bottom diameter is labeled $\phi 60$ and is identified as a pipe. The fixture has a wide, flared top section, a central section with horizontal slats, and a narrow bottom section.

Power(W)	Lamp	Capacitor (μF)	Current (A) without capacitor	Current (A) with capacitor	Lamp holder	Weight (kg)
35	NAV	9	0.5	0.2	E27	7.3
50	NAV	10	0.8	0.3	E27	7.4
70	NAV	12	1	0.4	E27	7.6
125	NAV	9	1.2	0.7	E27	7.6

IEC 60598-1	Luminaires - General requirements
IEC 60598-2-3	Luminaires - particular requirements for road and street lighting
ISIRI 5920-1	Luminaires - General requirements and tests
ISIRI 5920-2-3	Particular Requirements - luminaires for road & street lighting



Available Lamp Type

High Pressure Sodium
(HPS) - Metal halide

Mercury Vapour
(HQL)

35 W	50 W	70 W	100 W	150 W	250 W	400 W	600 W
							

125 W	250 W	400 W
		

-  Can be used but not economical
-  Can be used
-  Can not be used
-  Tubular lamps
-  Elliptical lamp

IP65
Electrical



Parameter	Performance
Nominal input voltage (v) / frequency (Hz)	230 / 50
Input voltage range (v-AC / Hz)	180 - 290/50 - 60
System input power (W)	35
Power factor	0.95
Nominal input current (A@v)	0.160 @ 230
LED module nominal power (W)	90
LED module nominal voltage (v-DC)	48
Nominal power consumption of single LED	3
Total harmonic distortion (THD)	< 15%
Type of LED module	Separate ballast
Structure of LED module	Integrated

Optical characteristics

Light source	Hi power LED
Nominal luminous flux (Lm)	3000
System luminous efficiency (Lm/W)	85
Number of LED	1
Nominal color tempertaure (Ini. & Main.)(°K)	6500
Color rendering index (Ini. & Main.)(CRI)	80
Chromaticity coordinate	x=0.3165 y=0.3427
Tolerance of chromaticity coordinate	3SDCM
Photometric code	869/339
Lumen manitenance factor	0.98%
Group of maintenance factor	A

Mechanical Characteristics

Parameter	Performance
Ingress protection	IP65
Body material	Aluminum
Glass	Poly carbonate glass Resistant to ultraviolet
Color of product body	Electrostatic powder painting
Weight (kg)	8.6

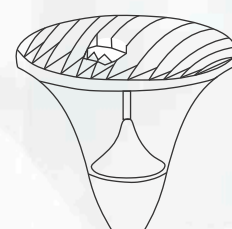
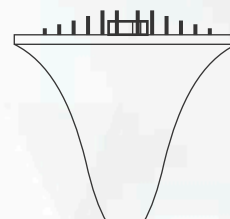
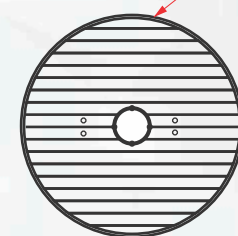
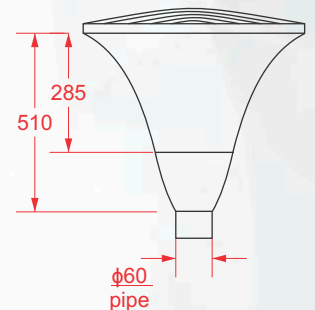
General Characteristics

Performance	
Rated in ambient temperature (25 °C)	50000 (hrs)
Rated in ambient temperature (50 °C)	50000 (hrs)
Max. injection temperature for a single LED	125
Ambient temperature range	-20 ~ +50
Operating humidity	up to 95%

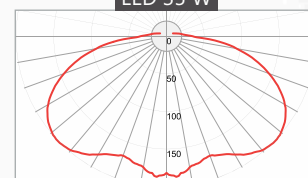
Standards

IEC 60598-1	Luminaries - particular requirements for road and street lighting
IEC 61000-3-2	Harmonics
IEC 62384	LED control - gear performance requirements
IES LM-80	LED light source - lumen maintenance

All dimension in mm



LED 35 W





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