



Dutch innovation – made in Europe



Industrial and retail LED lighting **POLARIS**

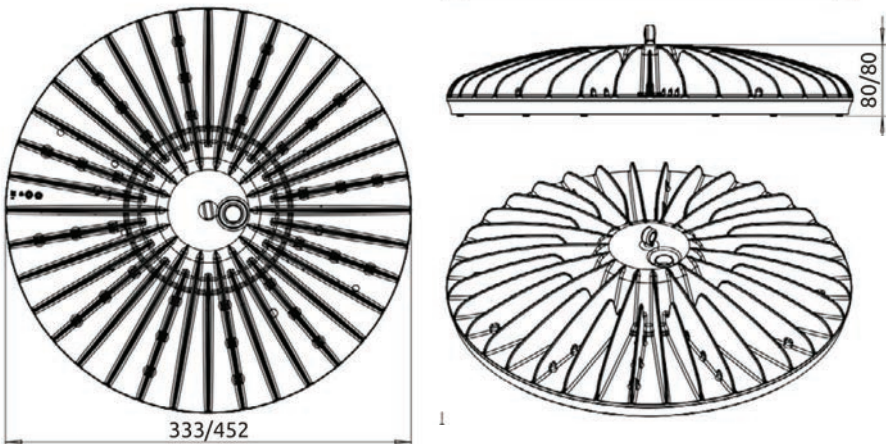
The POLARIS industrial luminaire achieves its market leading performance by combining NASA heat exchange technology, revolutionary intelligent digital electronic driver design and the latest most efficient LED technology.

With a system efficiency of up to 160 lumen per Watt POLARIS leads the market today and will continue to do so. POLARIS provides a true 1:1 replacement for typical SON and HID luminaires, improving light level, quality and reducing energy consumption.

As POLARIS is inrush current free it replaces the old luminaires without any additional changes to the electrical installation as most other LED luminaires do require. A standard B16 circuit breaker can be loaded based on nominal Wattage.

POLARIS also offers 175-275 V DC emergency power standard, DALI central control, switching and occupancy based dimming options, creating even more savings.

Made in the EU Polaris comes with an unique 10 Year Product Warranty*.

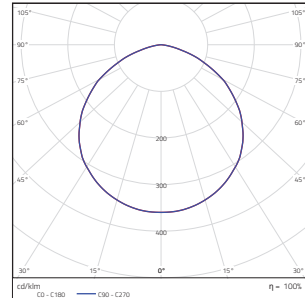


Specifications for models

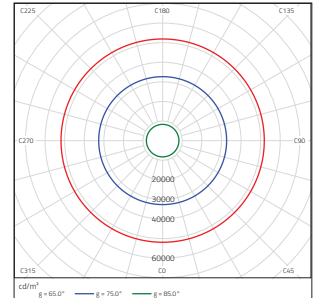
POLARIS High Bay

Electrical	
Driver	Integrated high efficiency, no inrush current
Input voltage	230V AC, 175-275 V DC Emergency System
PF, THD	0,98, <10%
System power	HB: 151 Watt, HBH: 181 Watt
Luminous flux	HB: 24.000 Lumen, HBH: 28.000 Lumen
System efficiency	HB 159 lm/W, HBH 153 lm/W
Max. lights / B16	24 HB, 20 HBH / B16 breaker
Surge protection	6 kV for 10-50 μ s
Lighting	
Beam angle	Without Optics 113°
	With Optics 75°
Light distribution	Symmetric circled
Colour Temperature	5700 Kelvin or 4000 Kelvin
Colour rendering (CRI)	Ra >80
UGR	With optics 19-22 Without optics <25
Performance	
Dimming	DALI standard
Start up time	<0,5 sec
Energy efficiency label	A++
Protection Class	IP 67
Life rating (L_{70})	>100.000 hours
Life rating ($L_{80B_{10}}$)	>50.000 hours at 35°C
Ambient temperature	-30°C to +45°C indoor use
	derate: 50°C to 85°C
Construction	
Dimension	\varnothing 333 mm H 80 mm, (110 mm with mounting eye)
Body construction	Die cast aluminium, patented Thixotropic joining technology
Housing colour	Silver grey, powder coated
Weight	HB: 4,5 kg
Cover	Tempered Glass, IK07 or PMMA, IK08
Mounting	
Light	Mounting eye for one chain / hanger cable
Electrical connector	IP67 connector included (dust and water proof)
Documentation	
Warranty	10-year limited product warranty
Approvals	CE, ENEC, RoHS, D-Class
Files available	LM79, LM80, IES, LDT

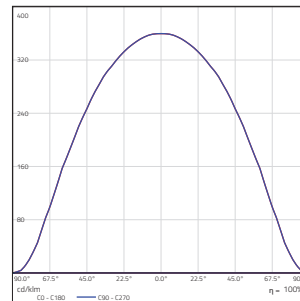
POLARIS HB113



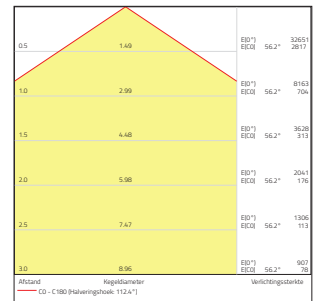
Luminous emittance 1 / Polar LDC



Luminous emittance 1 / Luminance diagram

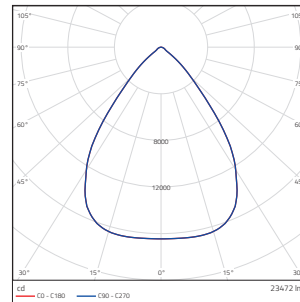


Luminous emittance 1 / Linear LDC

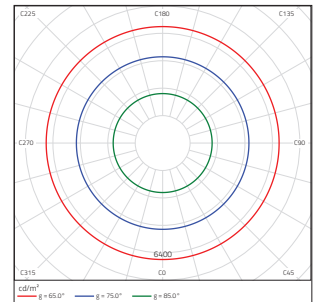


Luminous emittance 1 / Cone diagram

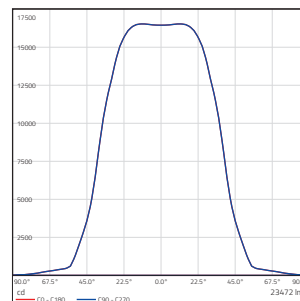
POLARIS HB75



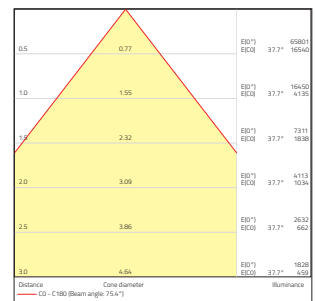
Luminous emittance 1 / Polar LDC



Luminous emittance 1 / Luminance diagram



Luminous emittance 1 / Linear LDC



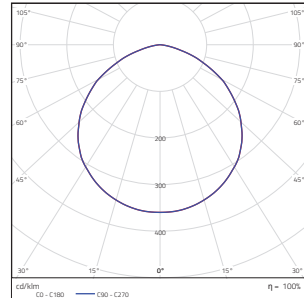
Luminous emittance 1 / Cone diagram

Specifications for models

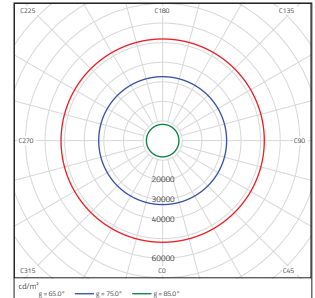
POLARIS Low Bay

Electrical	
Driver	Integrated high efficiency, no inrush current
Input voltage	230V AC, 175-275 V DC Emergency System
PF, THD	0,98, <10%
System power	LB: 76 Watt, LBH: 127 Watt
Luminous flux	LB: 12.000 Lumen, LBH: 18.000 Lumen
System efficiency	LB 158 lm/W. LBH 142 lm/W
Max. lights / B16	48 LB, 29 LBH / B16 breaker
Surge protection	6 kV for 10-50 μ s
Lighting	
Beam angle	Without Optics 113° With Optics 75°
Light distribution	Symmetric circled
Colour Temperature	5700 Kelvin or 4000 Kelvin
Colour rendering (CRI)	Ra >80
UGR	With optics 19-22 Without optics <25
Performance	
Dimming	DALI standard
Start up time	<0,5 sec
Energy efficiency label	A++
Protection Class	IP 67
Life rating (L_{70})	>100.000 hours
Life rating ($L_{80}B_{10}$)	>50.000 hours at 35°C
Ambient temperature	-30°C to +45°C indoor use derate: 50°C to 85°C
Construction	
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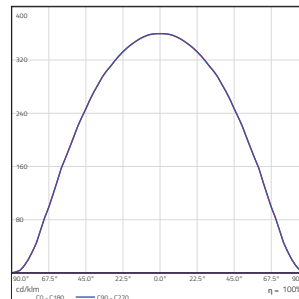
POLARIS LB113



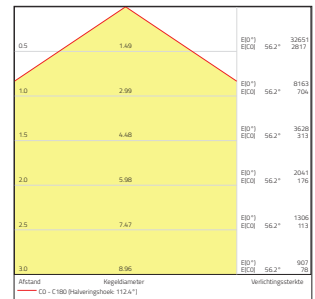
Luminous emittance 1 / Polar LDC



Luminous emittance 1 / Luminance diagram

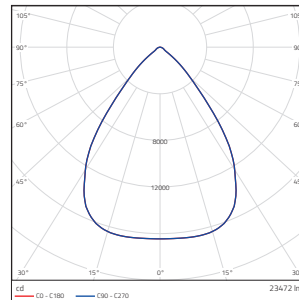


Luminous emittance 1 / Linear LDC

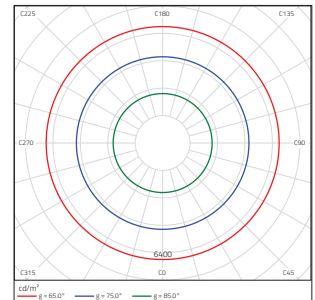


Luminous emittance 1 / Cone diagram

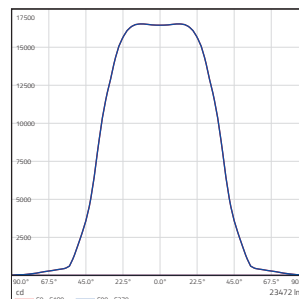
POLARIS LB75



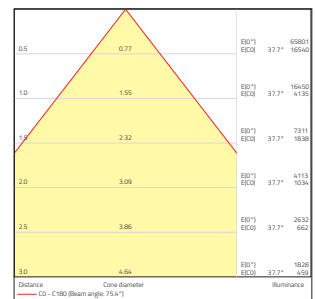
Luminous emittance 1 / Polar LDC



Luminous emittance 1 / Luminance diagram



Luminous emittance 1 / Linear LDC



Luminous emittance 1 / Cone diagram

It is LumoLumen's mission to be the leading supplier of highly efficient, innovative, industrial LED applications

