

NeoBulb Strata Pro 34 (Mixing Warm)- for Street Lighting Application



NeoBulb Strata Pro-34 is a LEDs outdoor lighting device associating four ultra-high-power NeoPac Light Engines coupled with narrow or wide or asymmetric secondary optics. **NeoBulb Strata** offers ultra high brightness in narrow, wide & asymmetric beam patterns for area lighting application. It is available in two different colors such as white & warm white. Available in different wattage, it is perfect for parking lots, public areas and minor roads. It could save substantial energy and reduce CO2 emission as compared to conventional Mercury or High pressure sodium street lanterns.

NeoBulb Strata Series as well as entire NeoBulb product lines are ingeniously engineered LED lighting devices that are designed based on the proprietary NeoPac Universal Platform (NUP). Empowered by this structural LED technological platform, all NeoBulb products can operate at ultra-high power with high luminous flux, low junction temperature (T_j) and have outstanding performance with long predictable reliable life.

■ **Features:**

- Applications: from minor roads to public areas, parking lots
- LEDs Light Source : 2x10W White Emitter + 2x7W Amber LEDs Emitter
- Extra-high-power LED emitters
- High performance optical system
- Excellent thermal management
- Proprietary NeoPac[®] Universal Platform
- Excellent aesthetic design and durable construction
- Narrow or wide or asymmetric beam pattern
- Long useful life (> 50,000 hours)
- Excellent luminaire efficiency > 75~90%
- IP65

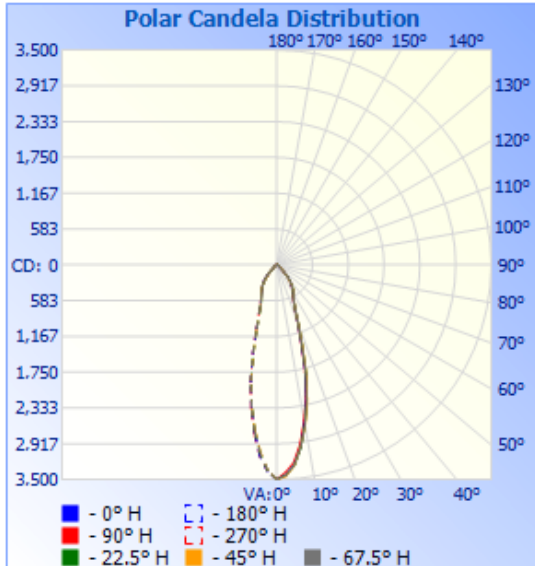


■ Specifications

Items	Narrow Beam	Wide Beam	Asymmetric Beam
Voltage Range	AC 100~ 240 V, 50 ~ 60 Hz	AC 100~ 240 V, 50 ~ 60 Hz	AC 100~ 240 V, 50 ~ 60 Hz
Power Efficiency	82 %	82 %	82 %
LED-Power Consumption	34 W	34 W	34 W
System Power Consumption	41 W	41 W	41 W
LEDs Initial Luminous Flux	1,830 lm (T _j = 25 ° C)	1,830 lm (T _j = 25 ° C)	1,830 lm (T _j = 25 ° C)
LEDs Maintained Luminous Flux	1,650 lm (T _j = 55°C, T _a =25°C)	1,650 lm (T _j = 55°C, T _a =25°C)	1,650 lm (T _j = 55°C, T _a =25°C)
Lighting Fixture Luminous Flux	1,485 lm (T _j = 55°C, T _a =25°C)	1,405 lm (T _j = 55°C, T _a =25°C)	1,320 lm (T _j = 55°C, T _a =25°C)
Luminaire(Luminance) Efficiency	> 90 %	85 %	75 %
Max. Illuminance (E _{max})	> 219 lux (@ 4 m)	> 47 lux (@ 4 m)	> 23 lux (@ 4 m)
Correlated Color Temperature	2700 ~ 4000 K	2700 ~ 4000 K	2700 ~ 4000 K
CRI (Color Rendering Index)	> 65	> 65	> 65
Light Source	NeoPac® Emitter (7 &10 W)	NeoPac® Emitter (7 &10 W)	NeoPac® Emitter (7 &10 W)
Beam Pattern / Beam Angle	Narrow (26°)	Wide (80°)	Asymmetric(135°)
Junction Temperature (T _j)	55°C ± 1°C (T _a = 25°C)	55°C ± 1°C (T _a = 25°C)	55°C ± 1°C (T _a = 25°C)
Sys. Thermal Resistance (R _{ja})	0.9°C / W	0.9°C / W	0.9°C / W
Housing Ambient Temp.	40° C(T _a =25° C)	40° C(T _a =25° C)	40° C(T _a =25° C)
Operating Temp.(Ambient)	- 30°C ~ 40°C	- 30°C ~ 40°C	- 30°C ~ 40°C
Humidity	10 % ~ 90 % RH	10 % ~ 90 % RH	10 % ~ 90 % RH
Storage Temp.	10 ° C ~85°C	10 ° C ~85°C	10°C ~85°C
Useful Life	> 50,000 Hrs	> 50,000 Hrs	> 50,000 Hrs
Case	Mg & Al structure	Mg & Al structure	Mg & Al structure
Dimensions(mm)	499 (L) X 188 (W) X134(H)	499 (L) X 188 (W) X134(H)	499 (L) X 188 (W) X134(H)
Net Weight (Approx.)	6.5 kg	6.5 kg	6.5 kg

■ **Photometric Data**

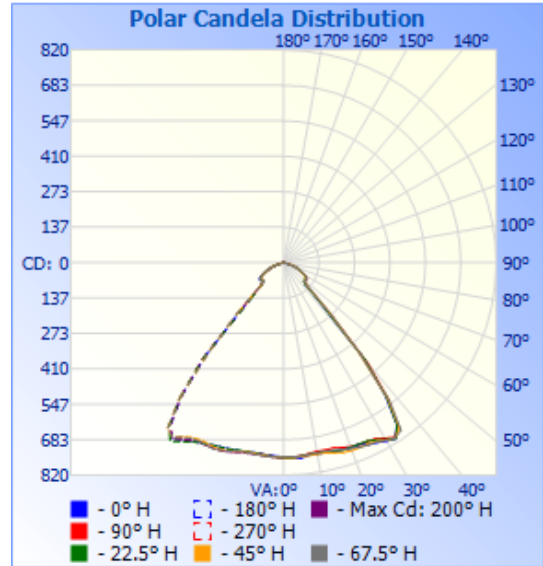
◆ **Narrow Beam Pattern (26°)**



Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	83.6%	1,237.6	76.3	76.6
Beam (50%):	33%	489.1	28.9	29
Total:	99.8%	1,477.4		

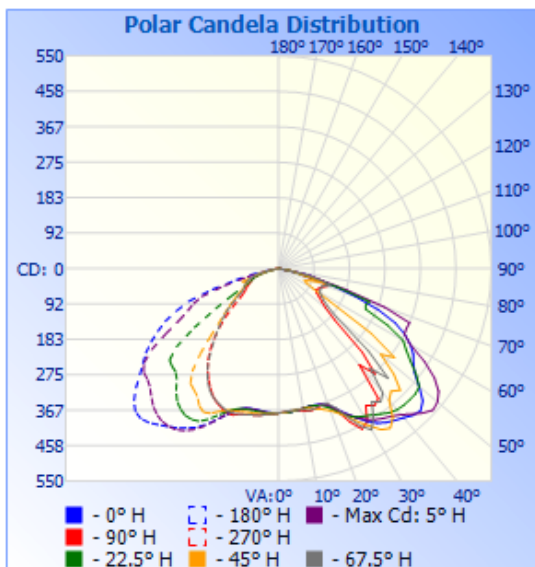
◆ **Wide Beam Pattern (80°)**



Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	95.9%	1,342.1	113	125.2
Beam (50%):	78.6%	1,100.0	51.5	81.1
Total:	100.9%	1,412.4		

◆ **Asymmetric Beam Pattern (135°)**

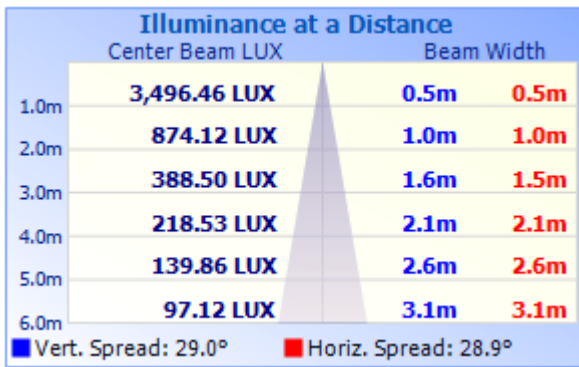


Flood Summary

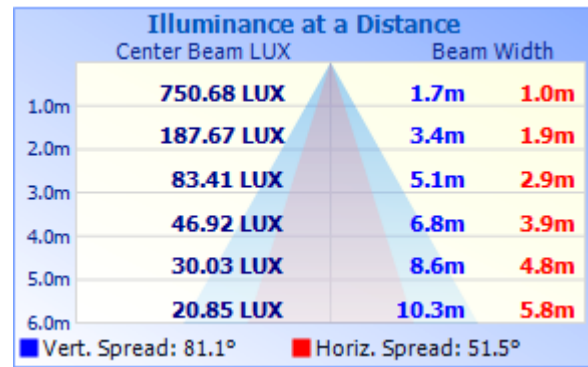
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	98.4%	1,298.7	138.7	157.5
Beam (50%):	76.2%	1,005.4	56	140.5
Total:	99.9%	1,319.3		

■ Illuminance Distribution Vs. Distance

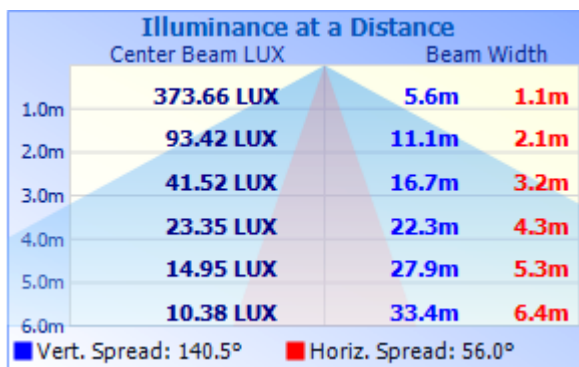
◆ Narrow Beam (Max.) Distribution



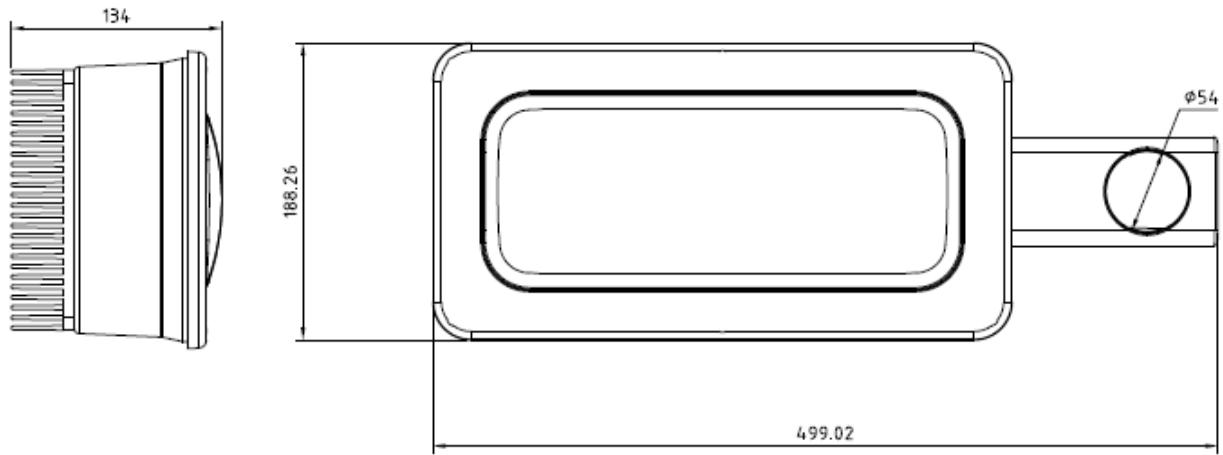
◆ Wide Beam (Max.) Distribution



◆ Asymmetric Beam (Max.) Distribution



■ **Drawings:**



Remark:

1. Deviation +/- 10 % for all listed data.

Dimensional Units: mm

1. Saturation Time in Natural Convection: 2 Hrs.