



PHILIPS

Street master series

Skyline e-Way

High performance lighting solutions for safer highways

Philips Skyline e-Way

Brighter, efficient and future-ready
LED streetlights

innovation ✦ you

The increasing need for well-illuminated highways and expressways

Ever increasing urbanization, growing road networks, higher traffic volumes - both private and commercial have significantly increased the number of expressways and highways in the country. This growing connectivity demands safe and well-illuminated highways.

Better illumination on highways can:



Enhance safety by reducing the incidence of accidents



Enable smoother traffic flow



Enable economic activities



Increase civic pride

The need of the hour is to install more efficient light sources that can reduce energy costs and contribute to the nation's sustainability objectives. Moreover, a higher and uniform light output can enhance on-road safety and also lower the total cost of ownership, by reducing the number of streetlights required.

To meet the requirements of the future smart cities, the lighting infrastructure also needs to be system-ready and upgradable to solar/connected lighting systems.



Philips Skyline e-Way

High performance lighting solution for highways.



Best-in-class energy-efficiency:
System efficacy of 140 lumen/Watt



Impact resistant (IK 10):
Protection against vandalism



Integrated optics:
Choice of 4 optics for varied cross sections



Multiple lumen packs:
Available in 3 lumen packs & 4 optics for varied street sizes and applications



Ingress Protection (IP 66):
Higher protection against the intrusion of foreign bodies and moisture



System ready:
Can be upgraded to Interact. Lighting assets can be monitored and controlled remotely



Life class:
75k hours L70B50 at Ta 35

Street Lighting for
green and smart cities
of the future.



Benefits

Optimal illumination
with high longitudinal
uniformity** to avoid
zebra effects

Wide application coverage:
To suit different areas in and
outside the city, you can choose
between different sizes, a wide
choice of lumen packages
(ranging from 40k to 45k lumens)

**Uniform light
distribution:**
Flexibility of the end
user to choose optics
range suiting different
road cross section
with high color
consistency

Higher efficacy:
Just keep savings
on operational
cost

**Superior
illumination**

Longevity

**Low total cost
of ownership:**
Lesser number of
luminaires needed,
hence results in lower
operational, installation
and replacement expenses

**Future proof and
system ready:**
Interact city ready

**Designed for
Indian weather
conditions**

Highest road safety:
Because of superior &
robust luminaire housing

Ease of maintenance:
Top openable and
easy access to the
gear compartment

**Longitudinal Uniformity (UL) – UL is the ratio of the minimum to the maximum luminance along a line or lines parallel to the run of the road. It is a critical criterion relating to comfort and its objective is to prevent the annoying repeated pattern of high and low luminance along the road surface.

For roads with higher traffic speed, Skyline e-Way offers enhanced lighting solutions. This increases the efficiency of the entire eco-system, thus imparting greater comfort and safety.

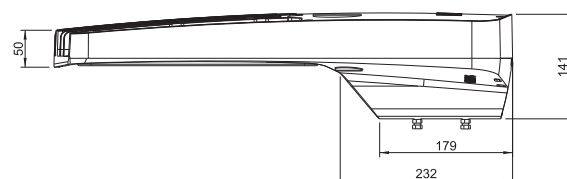
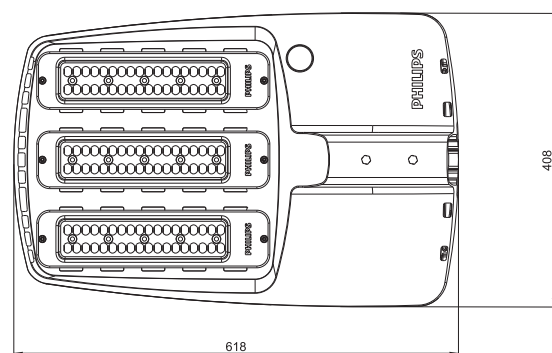


Product specifications

Parameters	Specifications
System lumen	40K, 45K
CCT	5700K (3000K/4000K-available on request)
CRI/SDCM	70 , <5
Electrical insulation	Class -1
IP/IK	66 / 10
Serviceability	Class B
Mounting	Pole mount (48mm-60mm dia)
Efficacy	140 lm/W
Surge	4KV internal and 10KV external
LED	Single package of ceramic-based high power LED
Housing material/finishing	Pressure die cast housing with LM6 alloy
THD	≤10% (at full load)
Wattage	300W, 330W (nominal)
Optics	SLC, SLD, SLG, SLH
Life Class	L70B50 @ 75K hrs.@ 35 degree ambient
Control	1-10V, Coded mains, cellular, RF
Weight	8.8 KG
Driver protections	440V (P2P) protection for 8 hrs., High cut off @ 325±15V
	Auto restart
Dimensions/Weight	L-620 mm, W-408 mm , H-141 mm, 8.8 Kg (nominal)
Operating voltage	120-277V
Quality standards	Meets EMI/EMC/CISPER 15 as per EN55015
Above all specs verified as per IS	

Dimensions and ordering details

919515814735	BRP370 LED455 CW SLC S1 PSU GR
919515814736	BRP370 LED455 CW SLD S1 PSU GR
919515814737	BRP370 LED455 CW SLG S1 PSU GR
919515814738	BRP370 LED455 CW SLH S1 PSU GR
919515814739	BRP370 LED414 CW SLC S1 PSU GR
919515814740	BRP370 LED414 CW SLD S1 PSU GR
919515814741	BRP370 LED414 CW SLG S1 PSU GR
919515814742	BRP370 LED414 CW SLH S1 PSU GR
919515814747	BRP370 LED455 CW SLC S1 PSU GR SPD
919515814748	BRP370 LED455 CW SLD S1 PSU GR SPD
919515814749	BRP370 LED455 CW SLG S1 PSU GR SPD
919515814750	BRP370 LED455 CW SLH S1 PSU GR SPD
919515814751	BRP370 LED414 CW SLC S1 PSU GR SPD
919515814752	BRP370 LED414 CW SLD S1 PSU GR SPD
919515814753	BRP370 LED414 CW SLG S1 PSU GR SPD
919515814754	BRP370 LED414 CW SLH S1 PSU GR SPD
919515814759	BRP370 LED455 CW SLC S1 PSU GR SPD CM
919515814760	BRP370 LED455 CW SLD S1 PSU GR SPD CM
919515814761	BRP370 LED455 CW SLG S1 PSU GR SPD CM
919515814762	BRP370 LED455 CW SLH S1 PSU GR SPD CM
919515814763	BRP370 LED414 CW SLC S1 PSU GR SPD CM
919515814764	BRP370 LED414 CW SLD S1 PSU GR SPD CM
919515814765	BRP370 LED414 CW SLG S1 PSU GR SPD CM
919515814766	BRP370 LED414 CW SLH S1 PSU GR SPD CM



All dimensions mentioned are in millimeters

World-class integrated optics design offers the advantage of uniform illumination that also reduces the overall cost of ownership.



Application Guide

Skyline e-Way sets a new benchmark in LED Street Lighting with extraordinary performance and flexible solutions delivering higher ROI. The diverse combination of lumen packs and specially engineered optics offer designer's flexibility to deliver Optimal Lighting Schemes for different road widths.

Skyline e-Way offers a superior spacing/height ratio that delivers a high-performing and energy efficient lighting solution for expressways and national highways.

Skyline e-Way is equipped with four optics

Choice of optics	SLC	SLD	SLG	SLH
				
	Road width upto 14 m		Road width upto 14 m-16 m	Road width upto 16 m

Factors considered for good illumination

U ₁ (min /avg)	U ₂ (min/max)	UL*	Minimum lux	Design Calculations
0.44	0.33	>0.6	40	CIE 140

Typical application cases and comparable benefits of Skyline e-Way

Road width (m)	12	14	16
Pole height (m)	10	12	12
Arrangement	Twin central		
Designed lux	Minimum 40 Lux		
Pole-to-Pole spacing with standard luminaire (m) ~	28	25	28
Pole-to-Pole spacing with Skyline e-Way (m) ~	35	37	37
Comparable benefit	Pole-to-Pole spacing increases by ≈ 25% <hr/> TCO over 5 years reduces by ≈ 16% <hr/> Longitudinal Uniformity achieved is 0.67 (with SLC optics)	Pole-to-Pole spacing increases by ≈ 44% <hr/> TCO over 5 years reduces by ≈ 24% <hr/> Longitudinal Uniformity achieved is 0.66 (with SLG optics)	Pole-to-Pole spacing increases by ≈ 32% <hr/> TCO over 5 years reduces by ≈ 16% <hr/> Longitudinal Uniformity achieved is 0.7 (with SLH optics)

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Philips offers a comprehensive range of high performance products for different applications on highways and expressways.



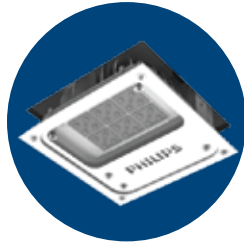
Tango XL

Floodlight comes with a range of lumen output from 34k to 64k. It has 3 optics AWB, FLNB and NB for illumination of all kind of junctions/area requirement



Tango

Comes with choice of 5 optics (NB, SWB, AWB, SMB, AMB). Tango delivers max, 26k lumen o/p & ensures superior illumination for area/flood & junctions



Mini 200

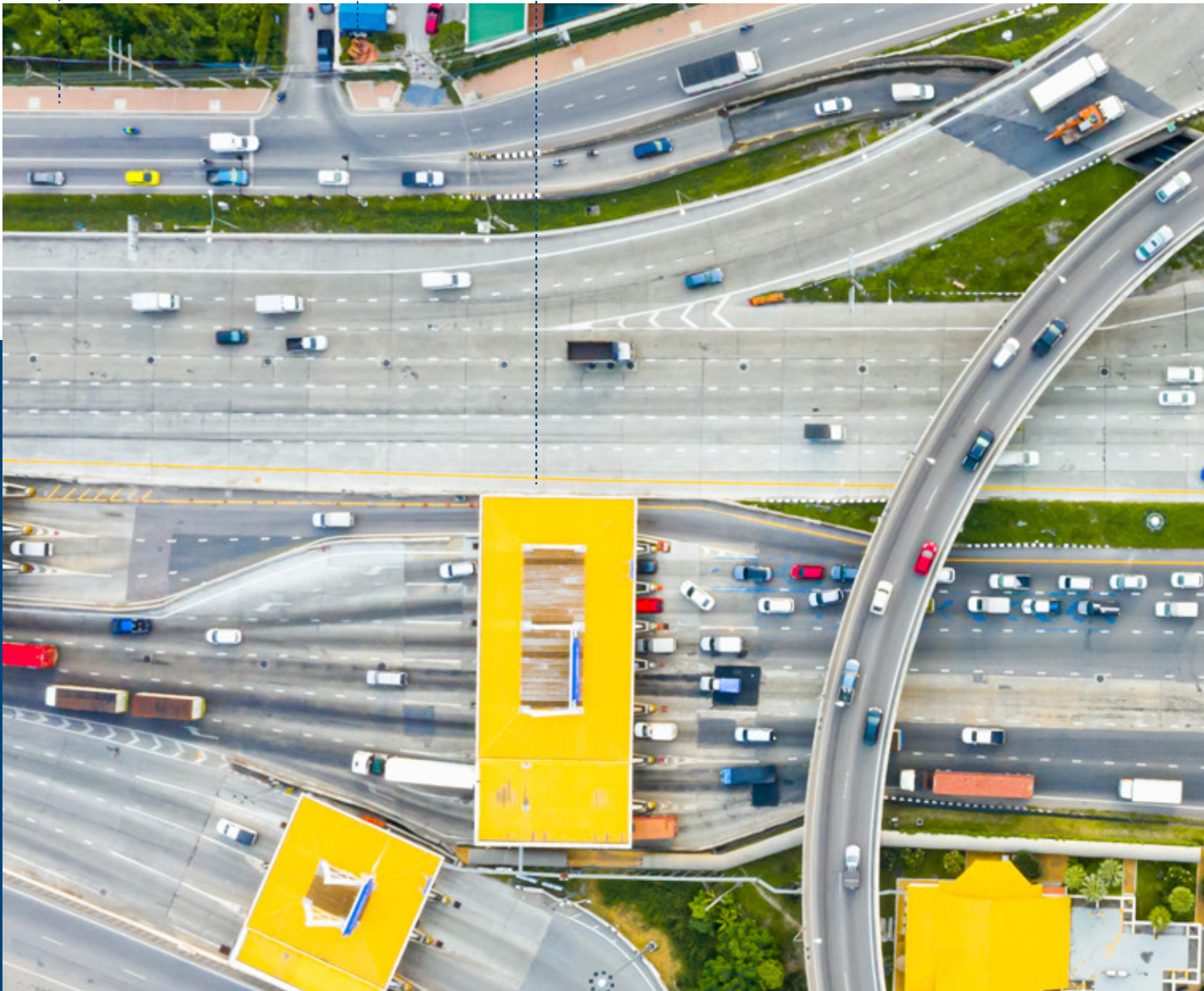
Offers 10K lumen output to light up canopy with uniform lighting



Toll plaza

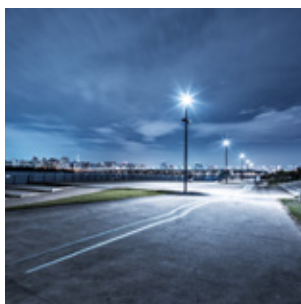


Overpass intersections

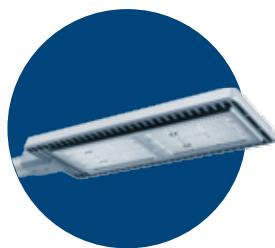




Highways

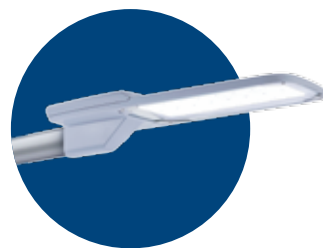


Wide roads



**RoadFlair
Gen4.0**

Solar
streetlight
Can be used to
illuminate streets



**GreenVision
Xceed V2
Gen4.0**

Solar
streetlight
Can be used to
illuminate streets

