



LUXEON Go takes to the road

Accelerating cross-platform adoption



Fast time-to-market, short development cycles, and simpler supply chain: LUXEON Go off-the-shelf LED headlighting modules accelerate your cross-platform headlamp development. Their compact size and well-defined interfaces reduce system complexity while still offering design flexibility. The first cars equipped with LUXEON Go are now on the road.

FEATURES AND BENEFITS

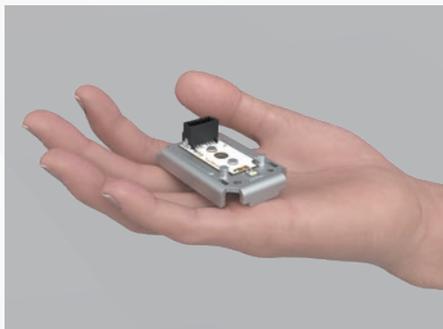
- Off-the-shelf solution with integrated heat management to shorten lead time to market and minimize development effort
- Compact size allows a wide variety of design options
- Tight tolerances for increased optical system performance
- Easy mechanical referencing and assembly during headlamp manufacturing process
- Available in multiple configurations (1x2, 1x3, 1x4, and 1x5) to cover a wide range of desired flux performance levels
- Continuous flux improvement within a given footprint enables even more cost-effective headlamp engineering

PRIMARY APPLICATIONS

- Low beam and high beam
- Cornering light
- Front fog

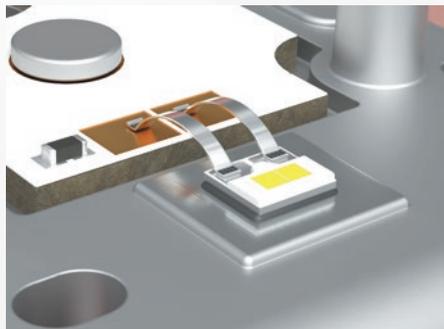
LUXEON Go is now on the road

Key features of LUXEON Go



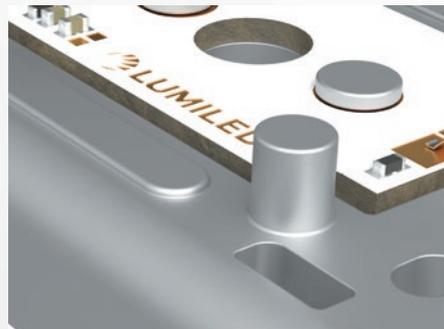
Compact and lightweight:

Fits into a variety of headlamps and creates more styling freedom



Superior thermal performance:

TopContact LED attached directly to the integrated heat sink



High precision:

Tight tolerances enable compact optics

Key customer benefits of LUXEON Go

Off-the-shelf solution:

Reduces engineering workload and shortens time-to-market

Easy assembly:

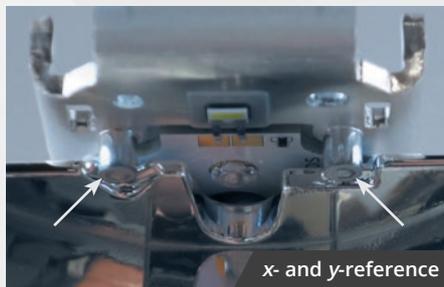
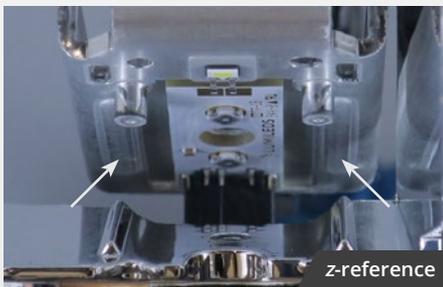
Well-defined mechanical and electrical interfaces streamline production

Simplified supply chain:

Lumileds provides a one-stop shop

Customers' integration examples of LUXEON Go

Reflector interface



Light-shield integration



Attachment



Orientation



Electrical interface

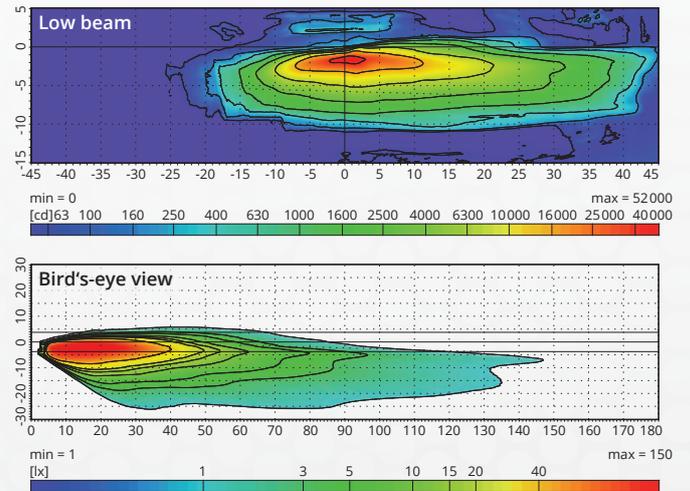


Beam-performance measurements on OEM headlamps

Opel Grandland (ECE beam pattern)



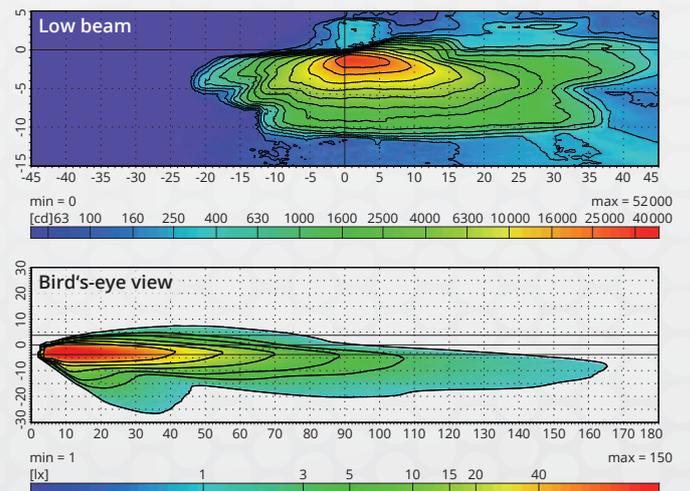
- Low-beam spot: 1 x LUXEON Go 1x2
- Low-beam spread: 1 x LUXEON Go 1x2
- High beam: 1 x LUXEON Go 1x3
- Low-beam performance (single headlamp):
 - 805 lm on the road, $I_{\max} = 51\,700$ cd
 - Beam length: 120 m @1 lx (75 cm mounting height)
 - Excellent beam homogeneity and width ($\pm 34^\circ$)



Ford Fiesta (ECE beam pattern)



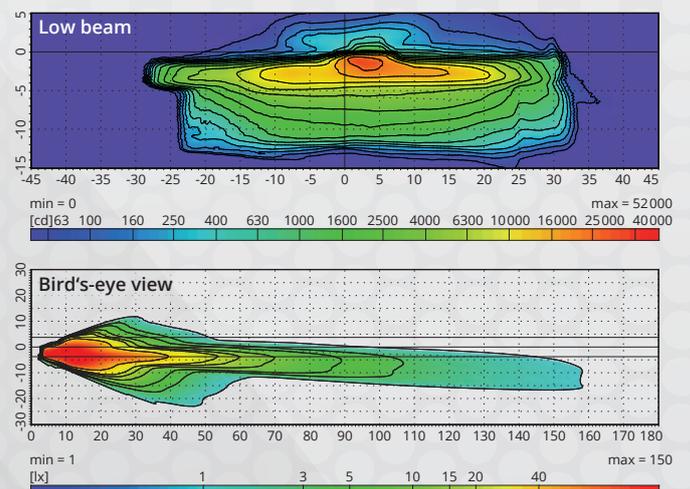
- Low-beam spot: 1 x LUXEON Go 1x2
- Low-beam spread: 1 x LUXEON Go 1x3 flat
- Cornering light: 1 x LUXEON Go 1x2
- High beam: 1 x LUXEON Go 1x3 flat
- Low-beam performance (single headlamp):
 - 756 lm on the road, $I_{\max} = 37\,000$ cd
 - Beam length: 140 m @1 lx (75 cm mounting height)



Ford F150 (SAE beam pattern)



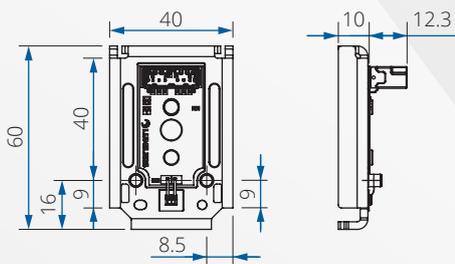
- Low beam: 2 x LUXEON Go 1x3
- High beam: 2 x LUXEON Go 1x3
- Low-beam performance (single headlamp):
 - 824 lm on the road, $I_{\max} = 33\,100$ cd
 - Beam length: 140 m @1 lx (95 cm mounting height)



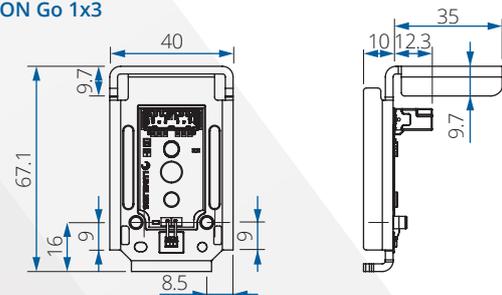
LUXEON Go product portfolio

LED configuration	LED lumen class ($T = 85\text{ }^{\circ}\text{C}$, 20 ms MP, 1 A)	Module	Min. lumen output ($T_a = 50\text{ }^{\circ}\text{C}$, DC operation)	Dimensions	Weight
1x2 	Today: 660 ... 720 lm Tomorrow: 740 ... 800 lm		Today: 600 lm @ 1 A Tomorrow: 700 lm @ 1 A	40 mm × 60 mm × 10 mm	24 g
1x3 	Today: 990 ... 1110 lm Tomorrow: 1110 ... 1250 lm		Today: 880 lm @ 1 A Tomorrow: 1020 lm @ 1 A	40 mm × 67 mm × 10 mm + 35 mm tail	35 g
				47 mm × 75 mm × 11 mm	31 g
1x4 	Today: 1320 ... 1480 lm Tomorrow: 1480 ... 1600 lm		Today: 1100 lm @ 0.9 A Tomorrow: 1270 lm @ 0.9 A	55 mm × 77 mm × 10 mm + 30 mm tail	46 g
			Under development	47 mm × 75 mm × 11 mm	31 g
1x5 	Today: 1630 ... 1850 lm Tomorrow: 1850 ... 2000 lm		Today: 1300 lm @ 0.85 A Tomorrow: 1450 lm @ 0.85 A	55 mm × 77 mm × 10 mm + 30 mm tail	46 g
1x5L 	Today: 1850 ... 2000 lm		Today: 1480 lm @ 0.85 A	55 mm × 77 mm × 10 mm + 30 mm tail	46 g

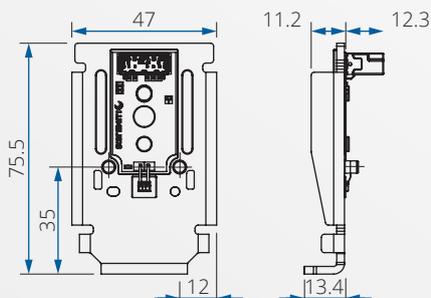
LUXEON Go 1x2



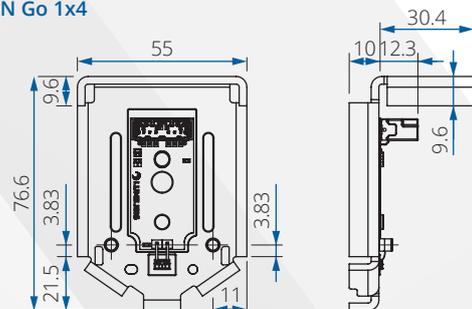
LUXEON Go 1x3



LUXEON Go 1x3 flat



LUXEON Go 1x4



Dimensions in mm

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