

QV1 90mm LED LB and HB HL



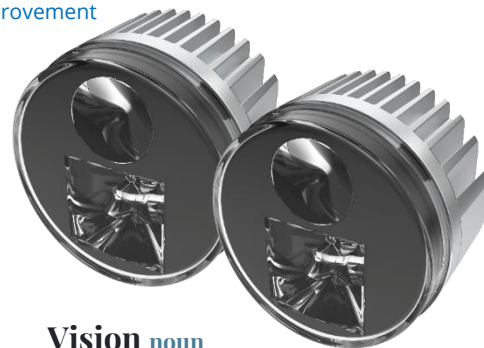
Bringing A Brighter Tomorrow

Product Information

Description	QV1 SAE/DOT 90mm LED LB & HB HL Modules
Part Number	10024251 LB and 10025251 HB
Functions	FMVSS Auto Low Beam or High Beam Patterns
Materials	Lens – Silicone Housing – Aluminum Bezel and Mounting Ring – PC/PMMA
Color	Clear Lens and Black Mounting and Housing
Mounting	Adjustable 3 point or pedestal mounting options available

Quantum adjective

1: LARGE, SIGNIFICANT
a quantum improvement



Vision noun

1: THE ACT OR POWER OF SEEING: SIGHT
The driver's vision improved with light

Features

- **Highly efficient** lighting system providing 2x the light with only half the power
- **Patented technology** provides over 130 degrees of light spread
- **Compact** and **lightweight** design weighing less than 0.75 lb
- **Variable light** output allows for vehicle control of light intensity for power conservation and performance
- Provides **cornering light** naturally when turning and going around sharp corners
- **Robust** silicone and aluminum construction to meet aggressive environmental conditions

Specifications and Performance

Size	90mm dia x 60mm deep	
Weight	0.33kg (0.73 lbs)	
Operating Voltage	10 – 30 VDC	
Power/Current Draw		
LB	18 to 24 Watts (1.5 to 2A @12V, 0.75 to 1A @ 24V)	
HB	18 to 24 Watts (1.5 to 2A @12V, 0.75 to 1A @ 24V)	
Wiring/Connection	Integrated 4 pin sealed Deutsch connector with Power, Ground and LIN control	
Operating Temp	-40C to 65C	
Compliance Rating	FMVSS108, SAE J575 Durability Tests, IP 67 (harmonized pattern available for European markets)	

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Photometric Performance

Effective Lumens

LB variable up to 1500 lumens

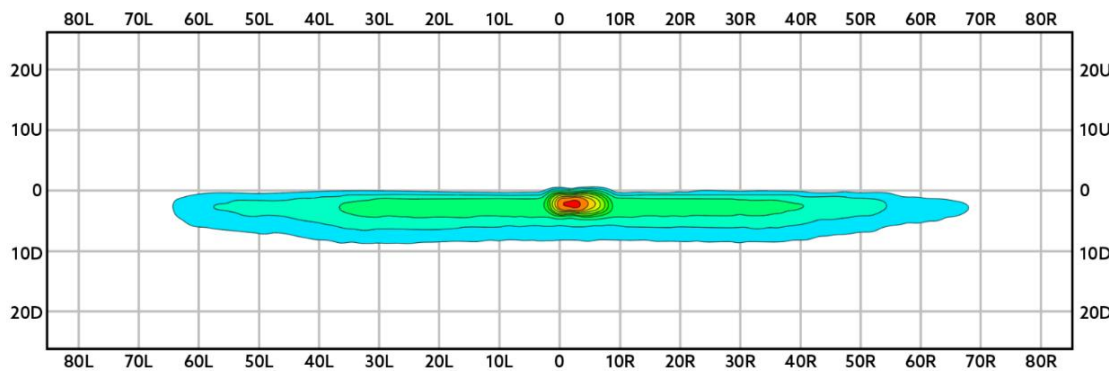
HB variable up to 1500 lumens

Beam Pattern Width 130° of light left to right

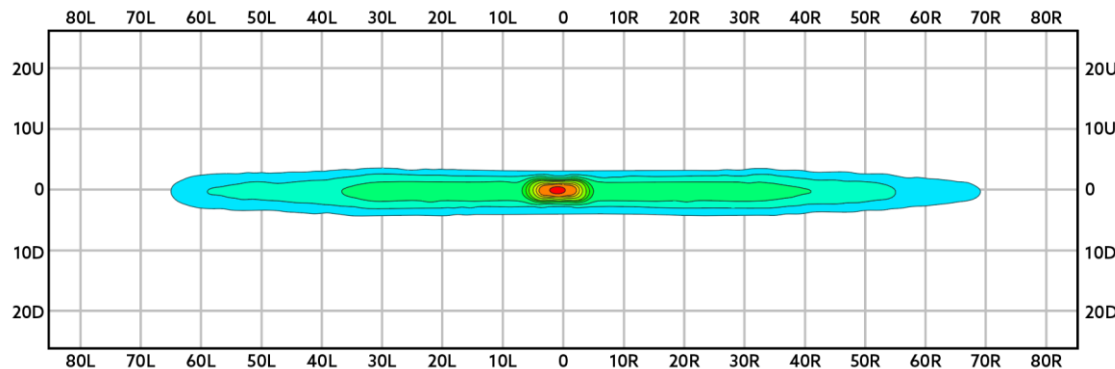
Color Temperature 5700K



FMVSS Low Beam Isocandela Plot



FMVSS High Beam Isocandela Plot



Ansys generated Birdseye Views

FMVSS Low Beam

FMVSS High Beam

