



# DHR SEARCHLIGHTS

An overview

*Navigation Lights & Shapes*



*Searchlights*



*Sound Signals*



*Nautical Lamps*



# DHR & SEARCHLIGHTS

## An introduction

Den Haan Rotterdam (DHR) is a developer and manufacturer of navigation lights, searchlights and sound signals for the commercial maritime sector, with a global market presence. In the 1960s DHR introduced its first searchlight range, the DHR150 and DHR180 series. Products, which were initially developed for usage in the recreational boating sector.

In the 1990s, DHR expanded its presence by acquiring the Dutch searchlight manufacturer, "ZEEKRO," known for servicing Dutch inland and coastal navigation. This acquisition prompted DHR to diversify its searchlight offerings, transitioning from small sealed beam sourced searchlights only to larger types with high power halogen lamps and silver-coated mirror reflectors, which gave access to the commercial vessel market.

DHR embraced innovation in 2017 with the launch of its first LED searchlight, the 300RCB series, marking a significant technological leap. While the DHR210 and DHR420 series currently feature conventional halogen lamps, the company focuses on modularity, ensuring easy replacement of components.

Understanding the harsh marine environment, DHR adheres to the KISS principle (Keep it Simple, Stupid!) in robustly designing their searchlights. They acknowledge the inevitability of wear and tear at sea and prioritize simplicity for durability.

DHR searchlights are available in both manual and electric versions, offering flexibility to users. This overview aims to provide readers with insights into DHR's spotlight offerings, clarifying key features and specifications. It serves as a guide for users to choose the best-suited solution for their specific applications.



# FULL RANGE OF DHR SEARCHLIGHTS

What can we offer?

	150-series	180-series	230-series	230-series	320-series	320-series	420-series
Voltage	DC 12 / 24 VDC	DC 12 / 24 VDC	DC 24 VDC	AC 115 / 230 VAC	AC 115 / 230 VAC	AC - power 115 / 230 VAC	AC 115 / 230 VAC
Power consumption (Watt)	10 W	20 W	65 W	75 W	150 W	250 W	2.000 W
Light source	Boost LEDs	Boost LEDs	COB LED	COB LED	COB LED	Matrix LED	Tungsten halogen
Luminous flux (lumen)	1.140 lm	2.280 lm	7.000 lm	8.767 lm	13.000 lm	18.000 lm	52.000 lm
Range @ 1 lux	450 m	600 m	740 m	800 m	1.225 m	1.750 m	1.225 m
Beam angle	3° x 2,5°	3° x 2,5°	6° x 6°	6° x 6°	4° x 4°	4° x 5°	4° x 6,5°
Focus	Fixed	Fixed	Fixed	Fixed	Variable up to 20°	Variable up to 20°	Variable up to 20°
Temperature	-25°C up to + 40°C	-25°C up to + 40°C	-25°C up to + 40°C	-25°C up to + 40°C	-25°C up to + 40°C	-25°C up to + 40°C	-40°C up to + 40°C
Control variants	Manual direct Manual wheelhouse Electric control	Manual direct Manual wheelhouse Electric control	Manual direct Manual wheelhouse Electric control	Manual direct Manual wheelhouse Electric control	Manual direct  Electric control	Electric control	Electric control



# REPLACEMENT MATRIX

What if an obsolete item should be replaced?

		150 CB	150 CS	150 DS	150 UC	180 CB	180 CS	180 DS	180 UC	230 CSL	230 DSL	230 RCL	320 DSL	320 RCL	320 RCP	420 RCB	
		LED	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED	LED	Halogen	
150 CB	Halogen	█															
150 CS	Halogen		█														
150 DS	Halogen			█													
150 UC	Halogen				█												
180 CB	Halogen					█											
180 CS	Halogen						█										
180 DS	Halogen							█									
180 UC	Halogen								█								
210 CB	Halogen					█											
210 CS	Halogen						█			█							
210 DS	Halogen							█			█						
210 UC	Halogen								█								
210 RCN	Halogen											█					
220 CB	Halogen					█											
220 CS	Halogen						█			█							
220 DS	Halogen							█			█						
220 UC	Halogen								█								
220 RCN	Halogen											█					
260 CS	Halogen									█							
260 CS	HID	NO DIRECT REPLACEMENT															
260 DS	Halogen										█						
260 DS	HID	NO DIRECT REPLACEMENT															
260 RCN	Halogen											█		█			
260 RCN	HID														█		
300 RCB	LED															█	
350 CS	Halogen									█							
350 DS	Halogen										█		█				
350 RCN	Halogen											█		█			
420 RCB	Halogen															█	



# WHAT CONTROL OPTIONS?

The various types explained

Manual

*DS*

These searchlights are designed for marine applications, specifically mounted on a deck or wheelhouse. They are operated manually by directly manipulating the searchlight head/drum, allowing for precise adjustments in both vertical and horizontal movements, enabling efficient control.

*CB*

The CB-series comprises DHR-searchlights, engineered to be conveniently controlled from within the wheelhouse. Featuring a straightforward lever control equipped with a ball bearing, it proves especially well-suited for smaller boats.

*CS*

The CS-variant is control type engineered for boats and ships experiencing heavy seas and weather. It uses a rotatable push-pull rod to realize a mechanical motion of the searchlight drum.

Electric

*UC*

A compact electric-controlled searchlight tailored for inland navigation vessels and smaller sea-going craft

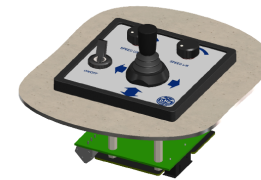
*RC*

A more robust electric control option larger vessels operating in heavy seas and weather.



# WHAT CONTROL OPTIONS?

The various types visualized



UC02

PAN2019-(F / NF)



Manual

Electric



# EXTENDED SEARCHLIGHTS

What standard **extended** lengths can we offer additionally?



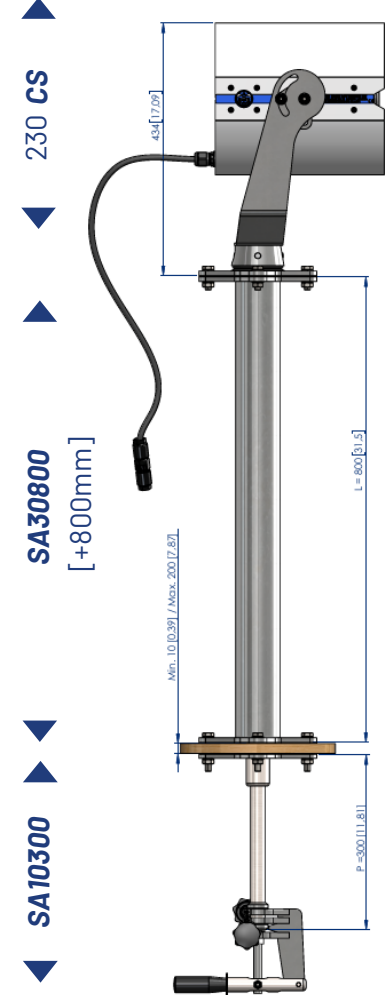
Any other lengths:

- available upon request
- made-to-order (non-stock)

For the small/compact searchlights, the solution can be offered as 1 integrated product

For large searchlights, the complete solution consists of the following sub parts:

- Drum
- Control
- Push-pull rod
- Column / pedestal



Small-sized searchlights

Large-sized searchlights



# WHAT CONTROL OPTIONS?

Visualized on a one-pager

Small-sized / compact

Large-sized

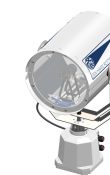
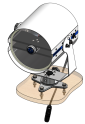
DS

CB

CS

UC

RC



DHR**150**-series

DHR**180**-series

DHR**230**-series

DHR**320**-series

DHR**420**-series





# PERFORMANCE

LUMINOUS FLUX, INTENSITY, COLOUR & DISTANCE

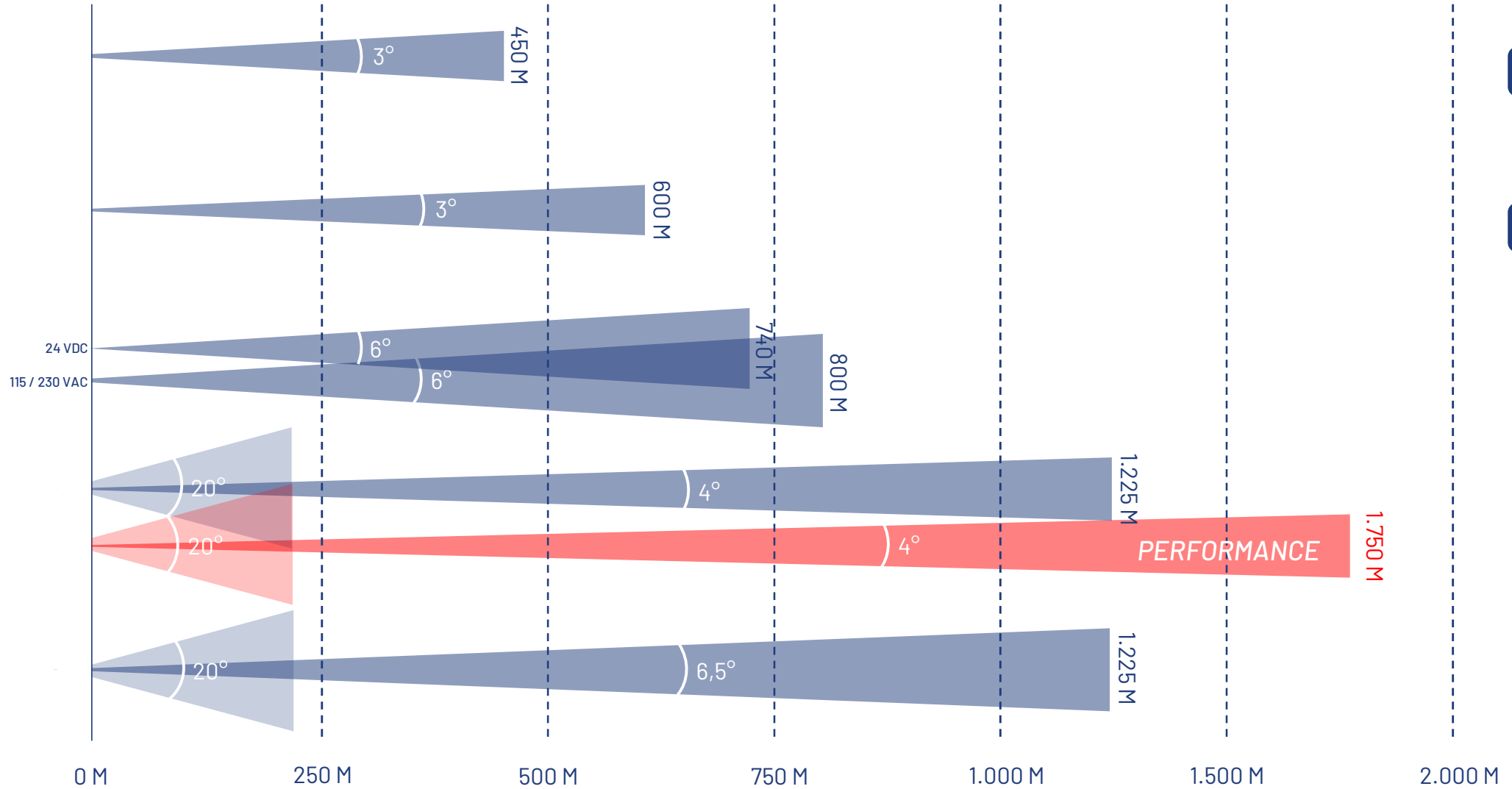
DHR150-series

DHR180-series

DHR230-series

DHR320-series

DHR420-series



6.000 K

6.000 K

5.000 K

6.500 K

5.700 K

3.200 K



# PERFORMANCE

LUMINOUS FLUX, INTENSITY, COLOUR & DISTANCE

DHR320-series  
Standard

13.000 Lumen

20°

4°

1.225 M

6.500 K

DHR320-series  
Performance

19.000 Lumen

20°

4°

PERFORMANCE

1.750 M

5.700 K

**FiFi compliant**

- Distance: **250 m**
- Illuminance: **51 lux**
- Illuminated area: **20 m<sup>2</sup>**

0 M

250 M

500 M

750 M

1.000 M

1.500 M

2.000 M



**DEN HAAN ROTTERDAM B.V. | SINCE 1922**