



GAGGIONE SAS Headquarter

3, Rue de la Rolland
01460 Montréal la Cluse
France

+33 4 74 76 12 66

@ contact@gaggione.com

📄 www.optic-gaggione.com

Sales Team in GAGGIONE

Thibaud Bourgeat
UK

@ t.bourgeat@gaggione.com

+33 688 03 59 51

Nicolas Golfier
France, Scandinavia, Eastern
and Northern Europe

@ n.golfier@gaggione.com

+33 677 35 50 37

Sonia Andres
France, Italy, Spain

@ s.andres@gaggione.com

+33 607 37 20 28

Laurent Barel
Sales & Marketing Director

@ l.barel@gaggione.com

+33 612 04 41 30

PRODUCT MANAGEMENT & BUSINESS DEVELOPMENT

Joni MÄKI

@ j.maki@gaggione.com

+33 638 24 17 51

International Sales Offices

GAGGIONE Americas

Michael Pietro
12833 Surrey Ct.
Palos Park, IL
60464

@ m.pietro@gaggione.com

+1 224 392 0087

GAGGIONE Canada & USA

Nicolas Pourrain
744 36th Avenue
Montreal, Quebec
H8T3L2

@ n.pourrain@gaggione.com

+1 438 989 5133

GAGGIONE Canada & USA

Stephane Saindon
744 36th Avenue Montreal,
Quebec H8T3L2

@ s.saindon@gaggione.com

+1 514 928 2179

GAGGIONE DACH

Angelika Aigner
Kreuzstrasse 7
83355 Grabenstätt
Germany

@ a.aigner@gaggione.com

+49 8661 983 44 77

GAGGIONE Asia

Zhen Xu
Unit 1808, No. 8, Kuaiji Road,
Jintiandi International building,
Huangpu District,
Shanghai, 200021, China

@ z.xu@gaggione.com

+86 136 5189 6981

GAGGIONE

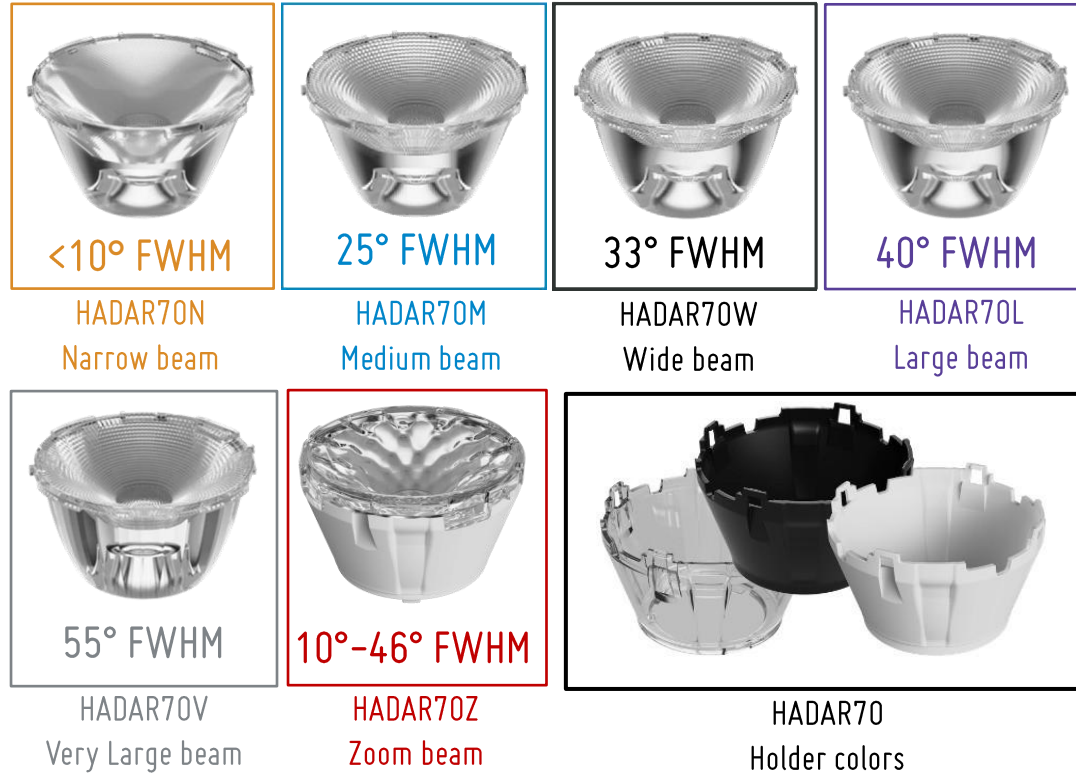
SHAPING YOUR LIGHT



HADAR70W* Window accessories

70 mm
PMMA collimator
HADAR70*
Window accessories
HADAR70W*

HADAR70* Since the success of GAGGIONE's LLC66 premium silicone collimator family, we have developed 70mm PMMA collimator range with variety of snap-on window accessories. HADAR70* has **typical efficiency of 92 %** and supporting even larger COBs (3mm – 23mm LES), with better 3rd party connector support.



HADAR70 holder and 3rd party connector support:

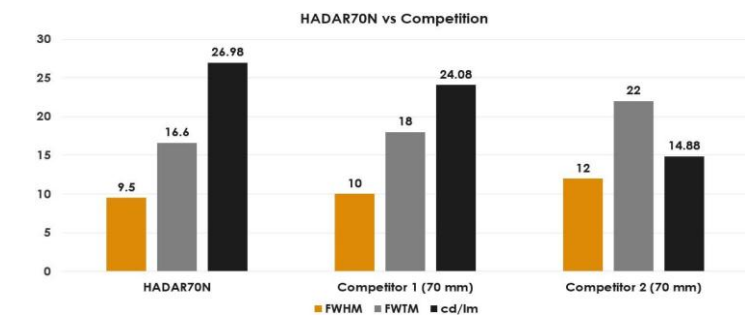
Holder reference	Compatibility
HADAR70H10*	LLH66 & B+W Bayonet50G
HADAR70H10*	LLH66 + B+W 4XX Typ Z1 combined
HADAR70H10*	GALAXY1 & GALAXY2 (patented, colormixing)
HADAR70H40*	BJB 35 mm & B+W Bayonet 35L
HADAR70H41*	BJB 50 mm & B+W Bayonet 50L
HADAR70H90*	HEKLA-G2 & HEKLA-K & B+W Hekla/HeklaXL

*holder colors: 0 is clear, 1 is white, 2 is black



HADAR70* family's measured beams:

HADAR70N	LES 6mm	LES 9mm	LES 14mm	LES 19mm
FWHM (°)	8,9	13,9	18,7	25
FWTM (°)	15,9	23,2	33,8	43,2
Efficacy (cd/lm)	26,7	12,2	6,2	3,5
HADAR70M	LES 6mm	LES 9mm	LES 14mm	LES 19mm
FWHM (°)	24,1	25,9	27,3	31
FWTM (°)	38	42,8	48,6	56,5
Efficacy (cd/lm)	5	4,1	3,2	2,3
HADAR70W	LES 6mm	LES 9mm	LES 14mm	LES 19mm
FWHM (°)	31,9	30,9	32,3	33,7
FWTM (°)	52,3	54,5	59,8	63,5
Efficacy (cd/lm)	2,7	2,5	2,1	1,7
HADAR70L	LES 6mm	LES 9mm	LES 14mm	LES 19mm
FWHM (°)	37,8	37,6	38,2	40,6
FWTM (°)	66,3	66,8	68,2	71,3
Efficacy (cd/lm)	1,9	1,8	1,7	1,5
HADAR70V	LES 6mm	LES 9mm	LES 14mm	LES 19mm
FWHM (°)	52,1	52,9	48,3	49,3
FWTM (°)	86,1	87,9	85,8	88,9
Efficacy (cd/lm)	1	0,9	1	0,9
HADAR70Z	LES 6mm	LES 9mm	LES 14mm	LES 19mm
FWHM (°)	13,3 – 40,5	15,9 – 43,4	19,1 – 44,9	23,8 – 45,9
FWTM (°)	25,3 – 68,3	31,5 – 72,1	40,2 – 76,3	49,9 – 80,2
Efficacy (cd/lm)	10,1 – 1,5	6,7 – 1,3	4,1 – 1,1	2,5 – 1



For full compatibility matrix, please refer to our website www.optic-gaggione.com

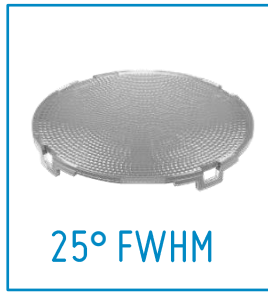
HADAR70W* HADAR70W* window accessories provides ultimate flexibility. Extremely efficient (typical efficiency: >88%) snap-on window accessories are specifically designed to be used with HADAR70N series TIR lens, but you can mix HADAR70WF accessory also with any HADAR70 TIR lens to achieve the exact beam angle you want.



<10° FWHM

HADAR70WF

Frosted beam accessory



25° FWHM

HADAR70WM

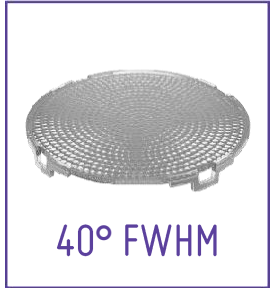
Medium beam accessory



30° FWHM

HADAR70WW

Wide beam accessory



40° FWHM

HADAR70WL

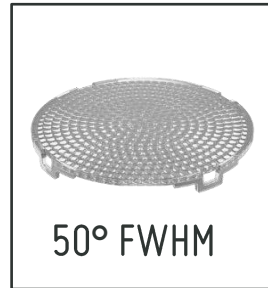
Large beam accessory



50° FWHM

HADAR70WV

Very Large beam accessory



50° FWHM

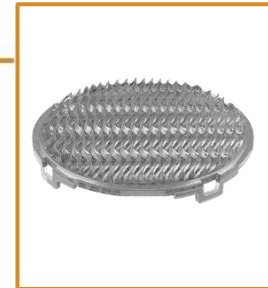
HADAR70WS

Super Wide beam accessory

HADAR70WA Asymmetric Window

HADAR70N main TIR Lens

HADAR70H lens holder



Wall washer

HADAR70WA accessory

Estimated beams with HADAR70N lens + HADAR70W* accessory:

HADAR70WF	LES 3 mm	LES 6 mm	LES 9mm	LES 15mm	LES 19mm
FWHM (°)	6,6	10,4	15	23,7	29,1
FWTM (°)	13,3	19,9	27,1	42,1	52
Efficacy (cd/lm)	38,6	17,7	9,4	3,8	2.5

HADAR70WM	LES 3 mm	LES 6 mm	LES 9mm	LES 15mm	LES 19mm
FWHM (°)	25,7	25,4	25,5	27,7	30,7
FWTM (°)	33,5	36,8	40,9	50,6	58,1
Efficacy (cd/lm)	4,8	4,5	4,1	2,8	2,2

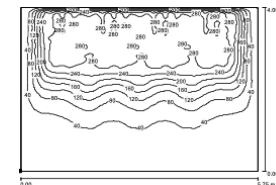
HADAR70WW	LES 3 mm	LES 6 mm	LES 9mm	LES 15mm	LES 19mm
FWHM (°)	30,9	30,9	31,9	33,1	34,9
FWTM (°)	40,9	43,9	48,2	57,4	64,7
Efficacy (cd/lm)	3,4	3,2	2,8	2,2	1,8

HADAR70WL	LES 3 mm	LES 6 mm	LES 9mm	LES 15mm	LES 19mm
FWHM (°)	41,7	42,1	41,9	44,3	44,9
FWTM (°)	52,8	55,7	59,5	69,8	77
Efficacy (cd/lm)	1,9	1,9	1,8	1,4	1,2

HADAR70WV	LES 3 mm	LES 6 mm	LES 9mm	LES 15mm	LES 19mm
FWHM (°)	52,7	52,7	54,3	58	58,5
FWTM (°)	69	71	75,1	86,2	95,1
Efficacy (cd/lm)	1,2	1,2	1,1	0,9	0,8

HADAR70WS	LES 3 mm	LES 6 mm	LES 9mm	LES 15mm	LES 19mm
FWHM (°)	45,7	49,5	51,2	57,3	60,1
FWTM (°)	74,4	78,4	82,1	93,7	107,3
Efficacy (cd/lm)	1,4	1,3	1,2	0,9	0,7

HADAR70WA
Wall washer



- * Dialux simulation, four optics
- * 1000 lumens per LED
- * Distance to the wall 1m
- * Optics spacing 1.25m

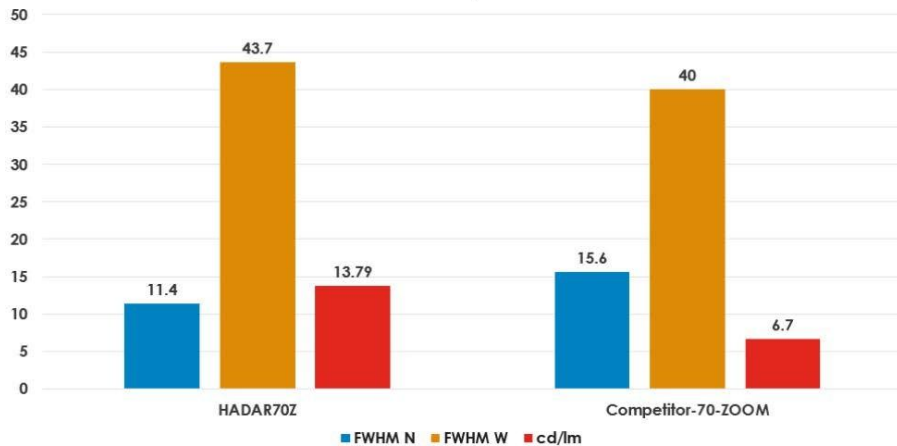
For full compatibility matrix please refer to our website www.optic-gaggione.com

HADAR70Z New innovative HADAR70Z zoom is patent pending optical design providing adjustable 10 – 45° beam. HADAR70Z has industry's highest efficiency of +88% and is only solution in the market where the top lens is directly integrated to the lens holder (rotation stop system). Rotation stop system has free rotation angle of 14° that makes it easy to build fixture around HADAR70Z. HADAR70Z supports COBs and Dim-to-warm solutions from 3mm to 23mm LES. Thanks to excellent optical design, HADAR70Z provides broader beam range, higher efficiency and twice higher efficacy vs competitors.

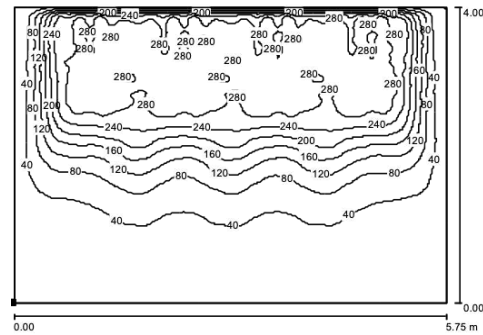
Looking for RGBW zoom? Use HADAR70Z with our patented GALAXY base, that is specifically designed for RGBW color mixing applications.



HADAR70Z VS Competitor-70-ZOOM

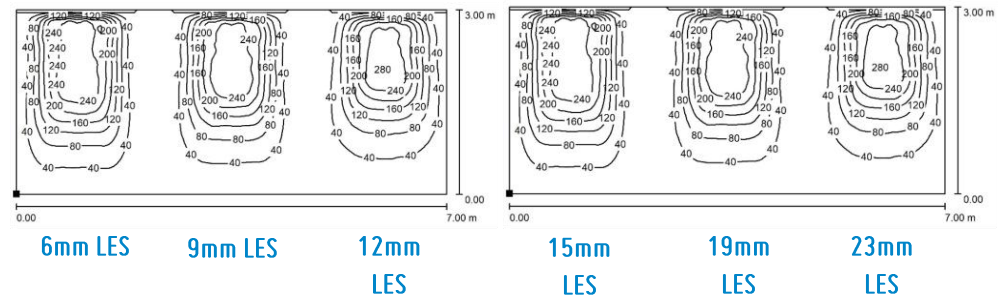


HADAR70WA New highly efficient, improved and patented wall washer window to be used with HADAR70N main TIR lens. We have minimized backlight and reduced surface brightness to provide glare-free experience. HADAR70WA provides very visually pleasing beam, with soft cut-off. Light starts from the roof level and HADAR70WA is compatible with 3 mm – 23 mm LES COBs.



Dialux simulation, four optics
1000 lumens per LED
Distance to the wall 1m
Optics spacing 1.25m

**** Extremely consistent results between different LES sizes. ****



For full compatibility matrix please refer to our website www.optic-gaggione.com