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GAGGIONE

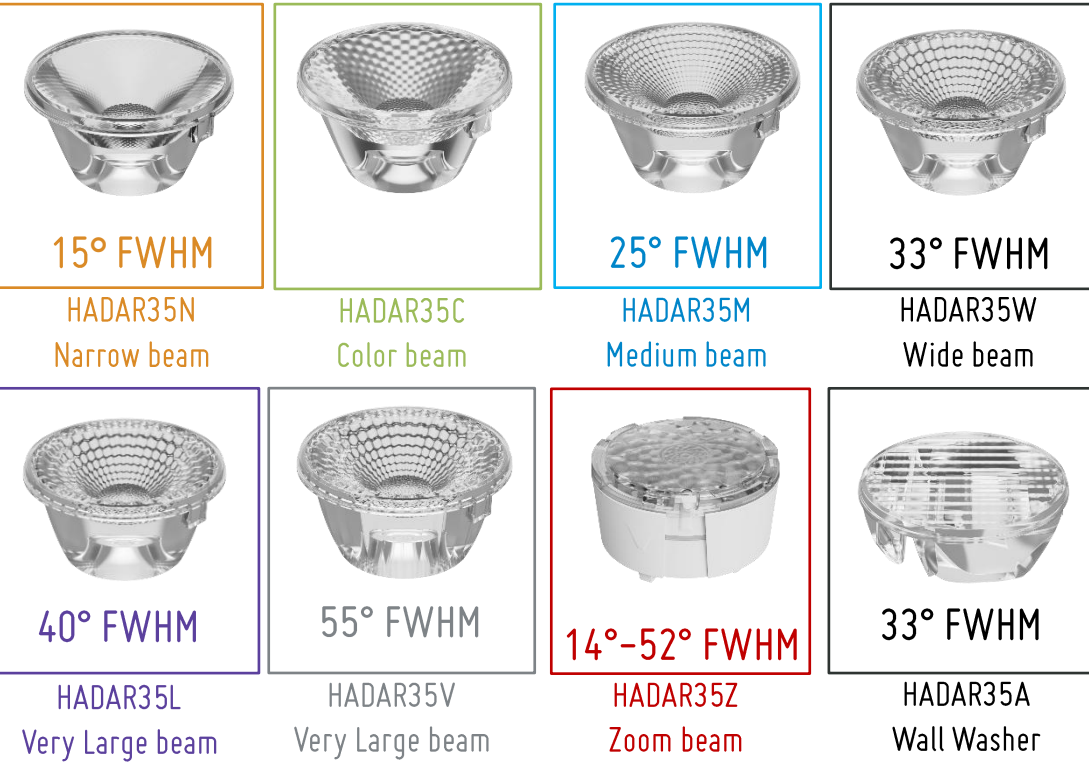
SHAPING YOUR LIGHT



HADAR35*

35 mm
PMMA collimator
HADAR35*

HADAR35* Since the success of HADAR50 and HADAR70 collimator families, we have developed 35mm PMMA collimator range. HADAR35 is optimized for 2.4 – 6.0 mm LES COBs, and compatible with up to 10mm LES COBs.



HADAR35 holder and 3rd party connector support:

Holder reference	Compatibility
HADAR35H40*	BJB 35 mm, B+W B35/20 & B35/25
HADAR35H30*	TE 25 mm, BJB 25 mm, B+W B25/20

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



HADAR35
Holder colors

HADAR35* family's estimated beams:

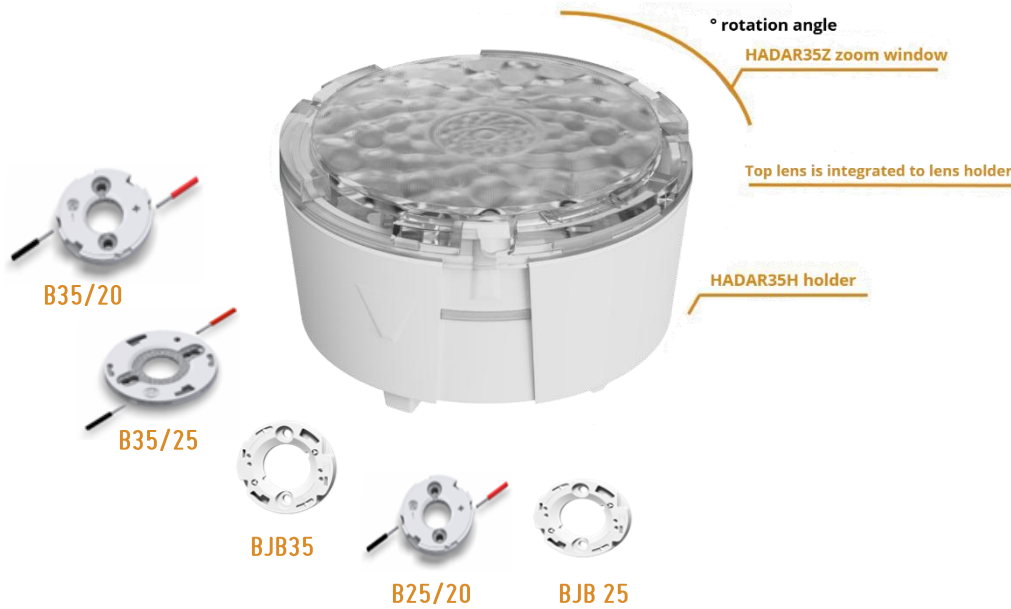
HADAR35N	LES 2,4 mm	LES 3,5 mm	LES 4,2 mm	LES 6 mm
FWHM (°)	8,54	12,17	14,06	20,16
FWTM (°)	15,11	20,80	23,00	32,88
Efficacy (cd/lm)	28,54	15,06	11,78	6,01
HADAR35C	LES 2,4 mm	LES 3,5 mm	LES 4,2 mm	LES 6 mm
FWHM (°)	12,76	14,29	15,66	20,09
FWTM (°)	23,45	27,19	29,43	53,2
Efficacy (cd/lm)	13,84	10,55	8,95	5,4
HADAR35M	LES 2,4 mm	LES 3,5 mm	LES 4,2 mm	LES 6 mm
FWHM (°)	25,48	25,22	25,71	27,30
FWTM (°)	39,56	41,95	43,37	48,64
Efficacy (cd/lm)	4,63	4,32	4,03	3,18
HADAR35W	LES 2,4 mm	LES 3,5 mm	LES 4,2 mm	LES 6 mm
FWHM (°)	34,67	33,32	32,46	31,66
FWTM (°)	51,96	53,42	54,34	54,34
Efficacy (cd/lm)	2,62	2,56	2,54	2,25
HADAR35L	LES 2,4 mm	LES 3,5 mm	LES 4,2 mm	LES 6 mm
FWHM (°)	41,83	41,42	41,50	41,56
FWTM (°)	69,76	69,11	69,44	69,89
Efficacy (cd/lm)	1,48	1,53	1,53	1,49
HADAR35V	LES 2,4 mm	LES 3,5 mm	LES 4,2 mm	LES 6 mm
FWHM (°)	52,39	52,71	52,89	52,53
FWTM (°)	84,46	83,53	83,77	83,58
Efficacy (cd/lm)	1,03	1,03	1,03	1,01
HADAR35Z	LES 2,4 mm	LES 3,5 mm	LES 4,2 mm	LES 6 mm
FWHM (°)	10,91 – 43,77	13,24 – 45,30	14,77 - 45,43	18,98 - 47,90
FWTM (°)	21,95 – 75,31	27,90 – 77,91	30,84 – 78,27	39,32 – 78,27
Efficacy (cd/lm)	13,56 – 1,36	8,94 – 1,24	7,29 – 1,23	4,29 – 1,07
HADAR35A	LES 2,4 mm	LES 3,5 mm	LES 4,2 mm	LES 6 mm
FWHM (°)	asymmetric	asymmetric	asymmetric	asymmetric
FWTM (°)	asymmetric	asymmetric	asymmetric	asymmetric
Efficacy (cd/lm)	1,39	1,23	1,13	0,94

Simulated results

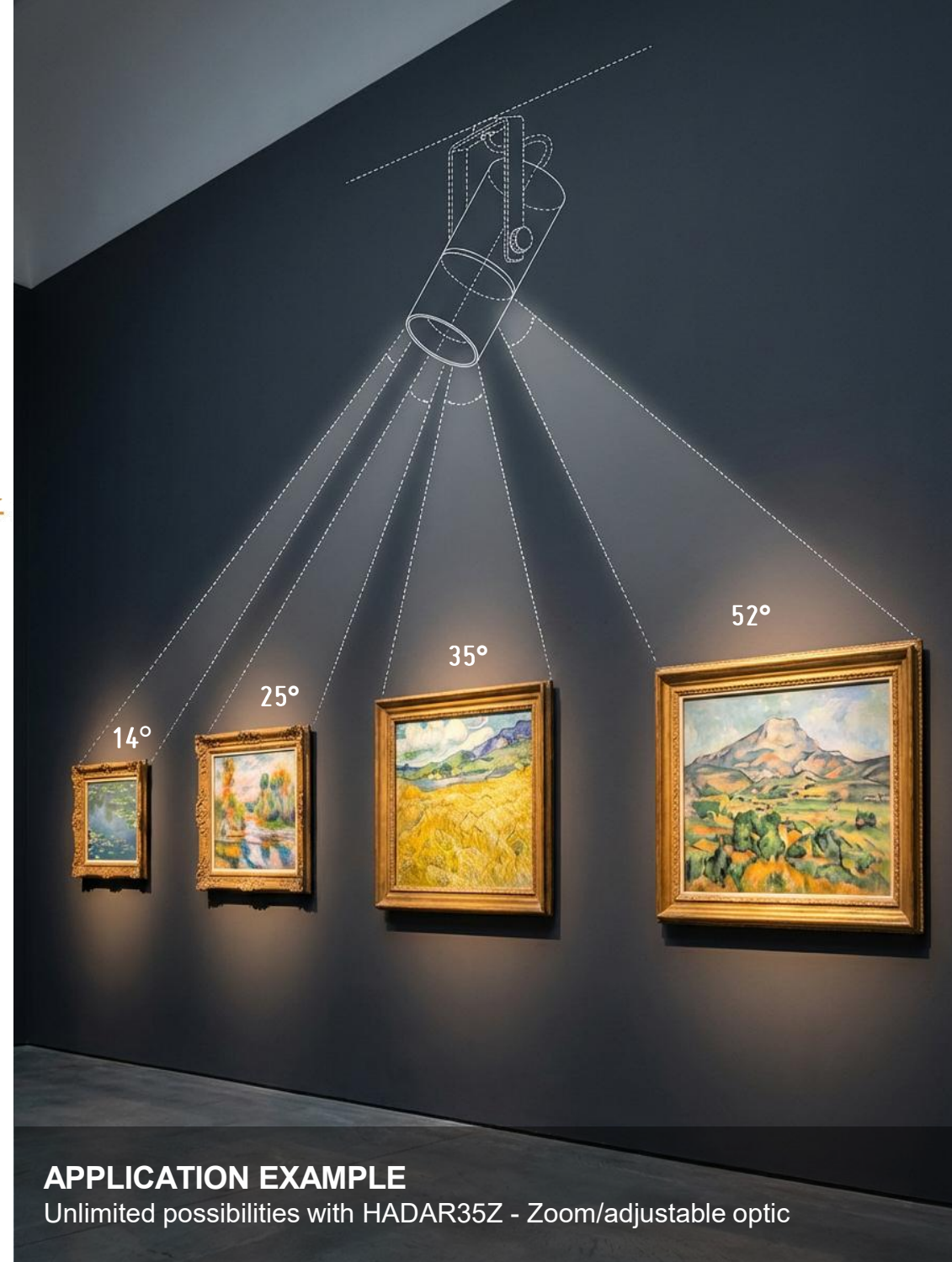
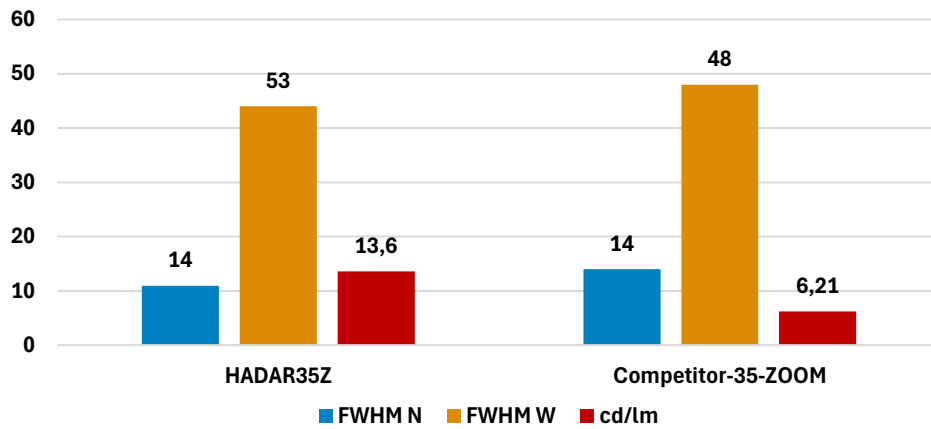
HADAR35Z

New innovative HADAR35Z zoom is patent pending optical design providing adjustable 14 – 52° beam. HADAR35Z has industry's highest efficiency of +88% and is the only solution in the market where the top lens is directly integrated to the lens holder. The rotation stop system automatically stops at the narrowest or widest beam. You can easily adjust the beam anywhere between 14° and 52°.

HADAR35Z supports COBs and Dim-to-warm solutions from 2.4mm to 10mm LES. Thanks to excellent optical design, HADAR35Z provides better color uniformity, higher efficiency and higher efficacy vs competitors.



HADAR35Z VS Competitor-35-Zoom (2.4mm LES)



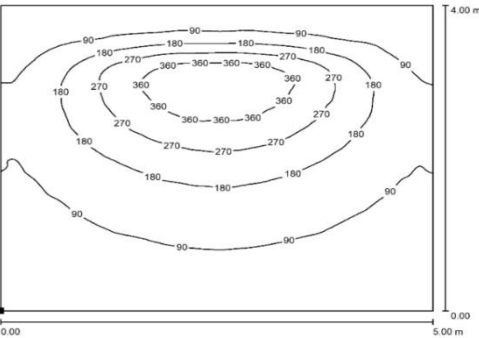
APPLICATION EXAMPLE

Unlimited possibilities with HADAR35Z - Zoom/adjustable optic

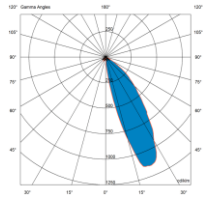
HADAR35A

New highly efficient, low profile wall washer lens has low back, straylight and industry's standard 1:3 light ratio. HADAR35A has low surface brightness and provides UGR of <19 with up to 1500 lumens. We have minimized backlight and reduced surface brightness and softened the cut-off to provide better overlapping of the beams when multiple HADAR35A lenses are installed on the row.

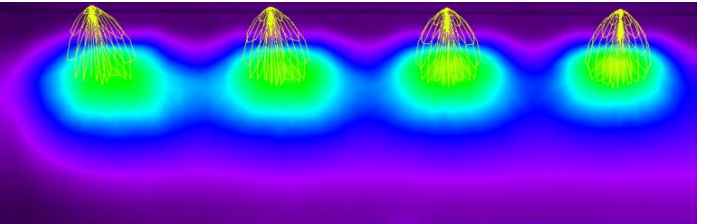
HADAR35A is compatible with 2.4 mm — 6.0 mm LES COBs.



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



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



2.4mm LES 3.5mm LES 4.2mm LES 6mm LES

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



APPLICATION EXAMPLE
HADAR35A with 1:3 installation ratio