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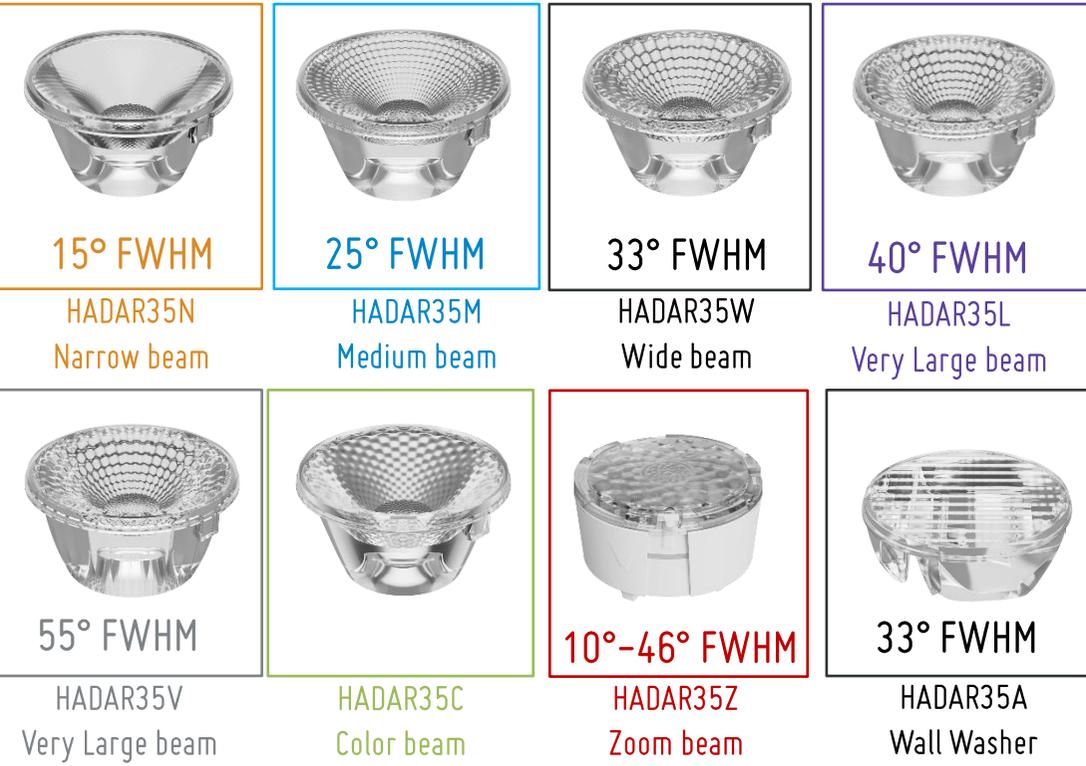
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**HADAR35\***

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
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
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
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

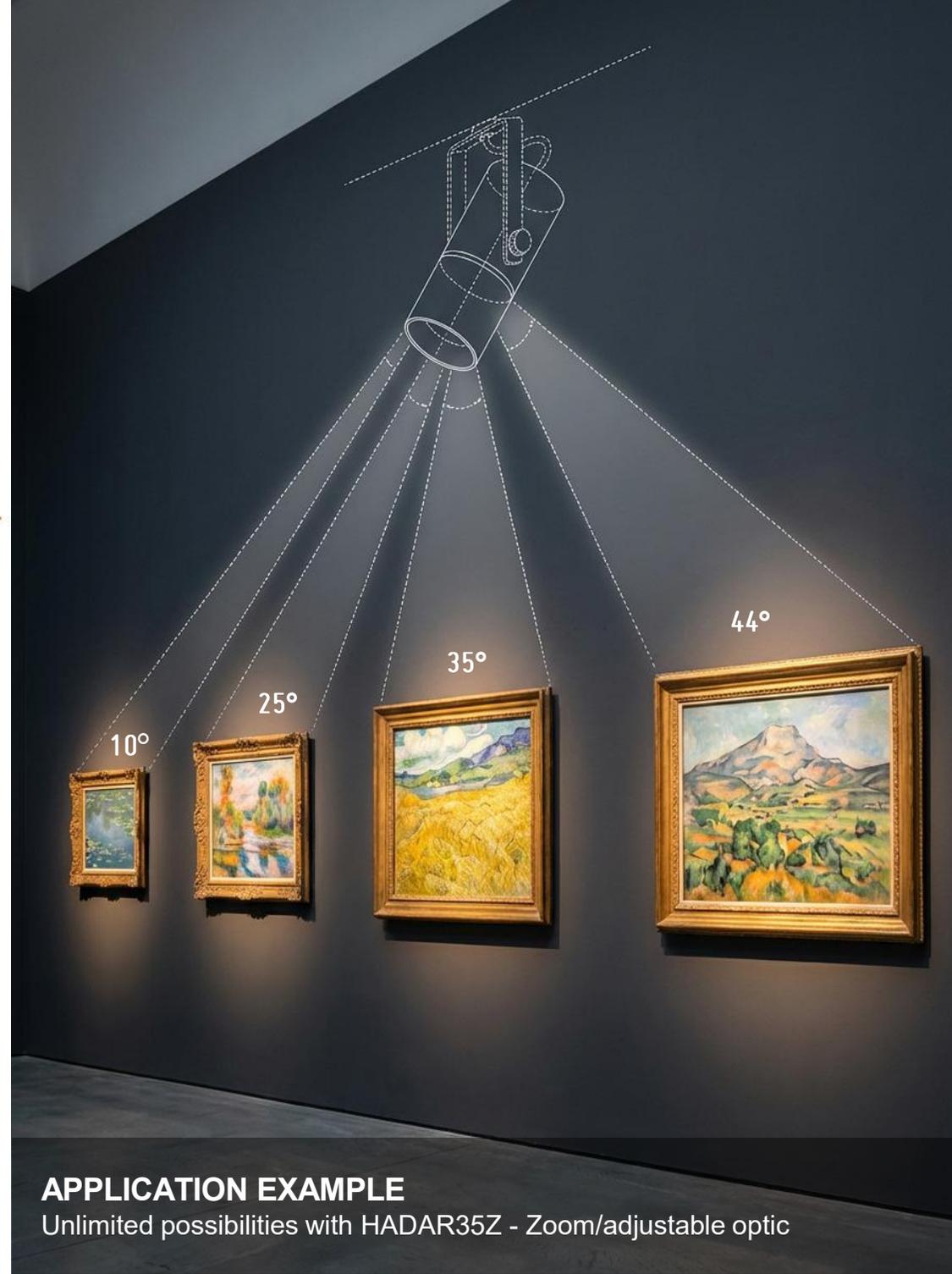
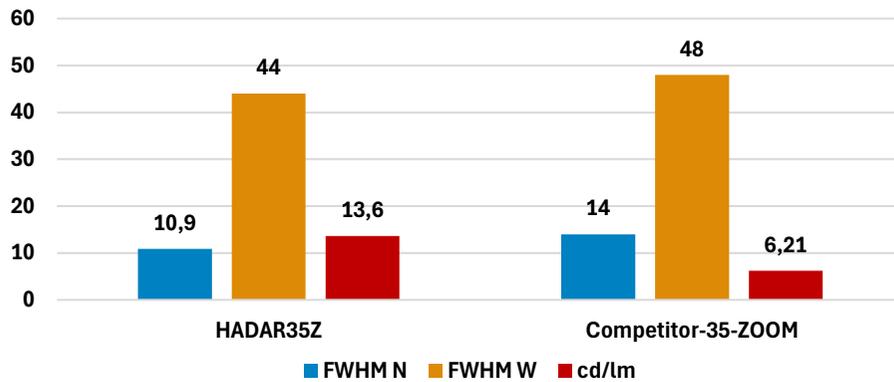
# HADAR35Z

New innovative HADAR35Z zoom is patent pending optical design providing adjustable **10 – 44° 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 (**rotation stop system**). Rotation stop system has **rotation angle of 14° and 7 steps**, the individual steps lock the beam and help you to easily adjust the same beam for each luminaire.

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)



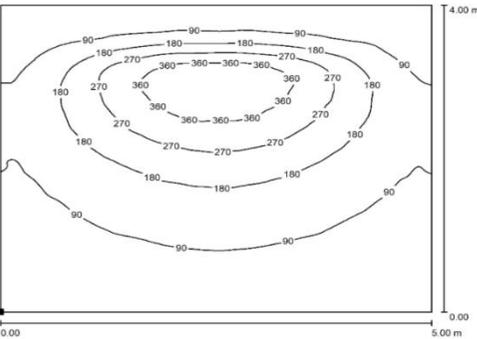
## APPLICATION EXAMPLE

Unlimited possibilities with HADAR35Z - Zoom/adjustable optic

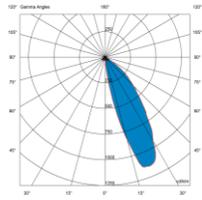
# HADAR35A

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.

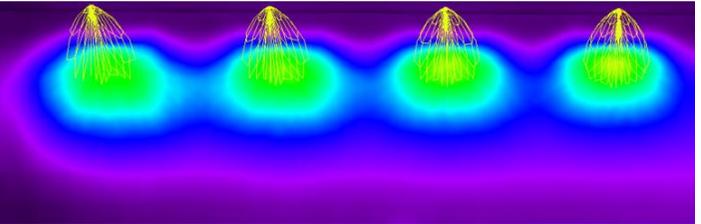
HADAR35A is compatible with 2.4 mm — 6.0 mm LES COBs.



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

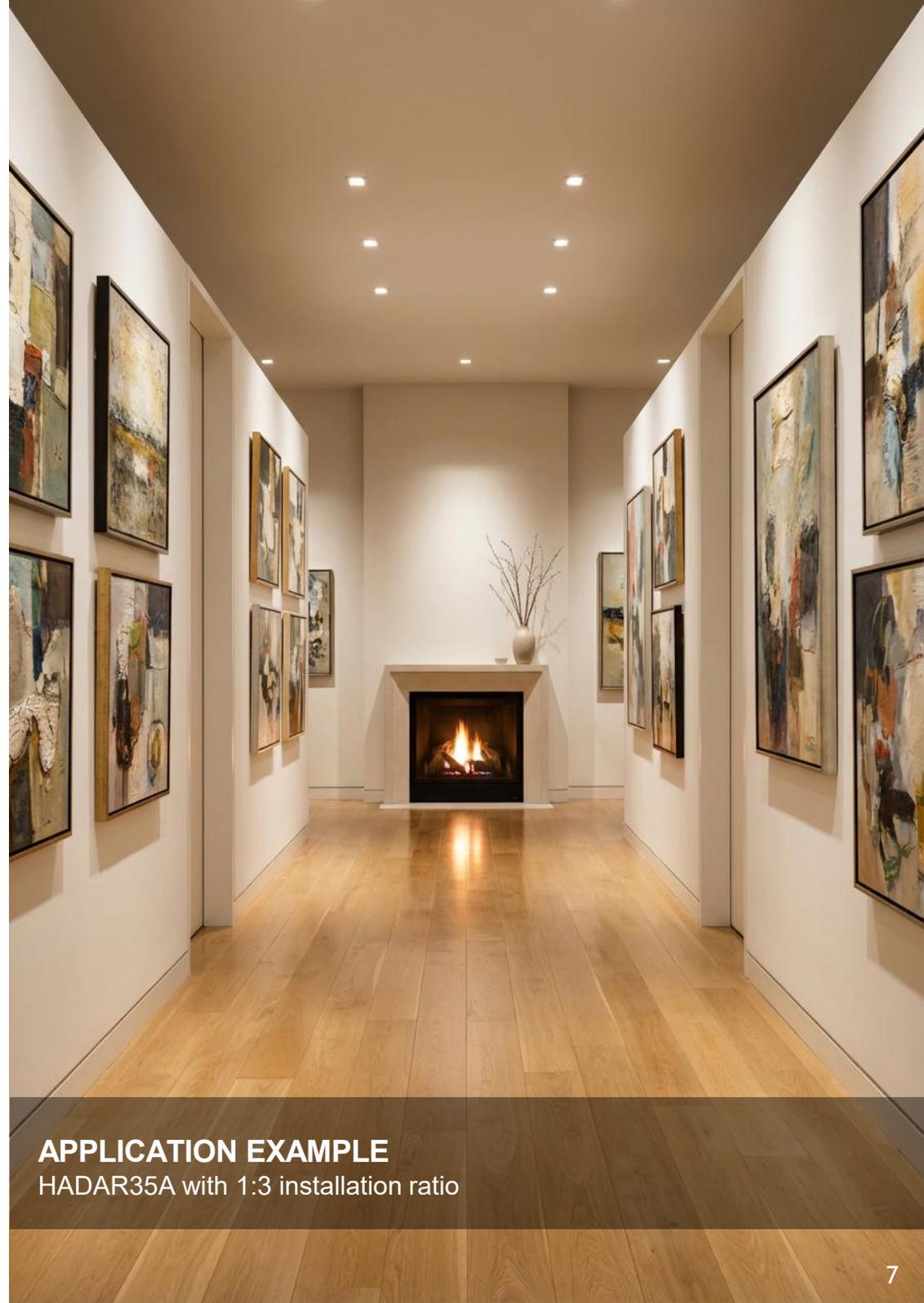


**\*\* Extremely consistent results between different LES sizes. \*\***



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

For full compatibility matrix please refer to our website [www.optic-gaggione.com](http://www.optic-gaggione.com)



**APPLICATION EXAMPLE**  
HADAR35A with 1:3 installation ratio