

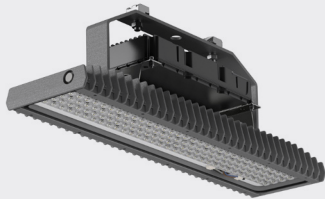
R-System gen4

A-Series

R1 round



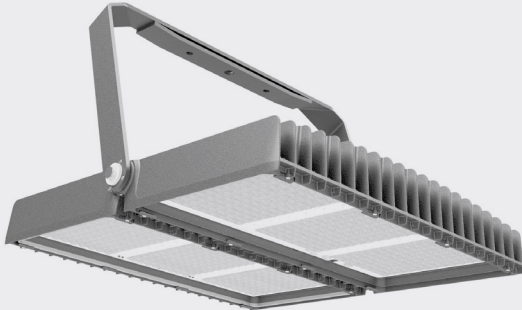
R1



R2



R4



BODY OF LIGHT



SHAPE OF LIGHT



INTELLIGENCE OF LIGHT



Control protocols

ON/OFF	
1-10 V	
DALI 2	
Zhaga Book 18	
Line Switch	
DMX-RDM	

Programming options

CLO Constant Lumen Output

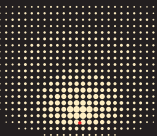
Stand-alone



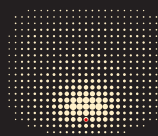
Precision lens optics



AG01
Symmetric Narrow 12°



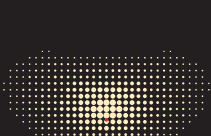
AG02
Symmetric Medium 27°



AG03
Symmetric Flood 48°



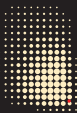
AG04
Symmetric Elliptical
10°x40°



AG07
Symmetric Narrow 17°

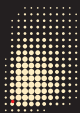
AP05

Asymmetric Extra Forward



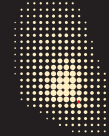
AP07

Asymmetric Extra Forward



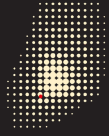
AS07

Asymmetric Side Throw



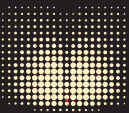
AS08

Asymmetric Side and Forward Throw



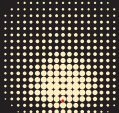
AP04-L

Asymmetric Extra Forward – Left



AP04-R

Asymmetric Extra Forward – Right



AP10-L

Asymmetric Extra Forward – Left



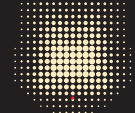
AP10-R

Asymmetric Extra Forward – Right



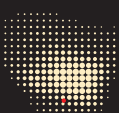
AP04-L/R

Asymmetric Extra Forward
Left/Right



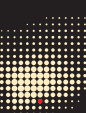
AP10-L/R

Asymmetric Extra Forward
Left/Right



AH02

Symmetric Wide Flood 60°



AS06

Asymmetric Extra Side Throw



AFC01

Asymmetric Extra Forward



AFC02-L

Asymmetric Extra Forward
Left



AFC02-R

Asymmetric Extra Forward
Right



AFC02-L/R

Asymmetric Extra Forward
Left/Right



AF02

Asymmetric Wide Flood



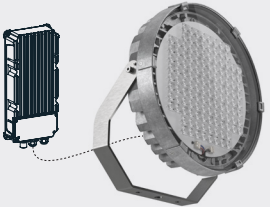
R-System gen4

R1 round 128 LEDs (A-Series)

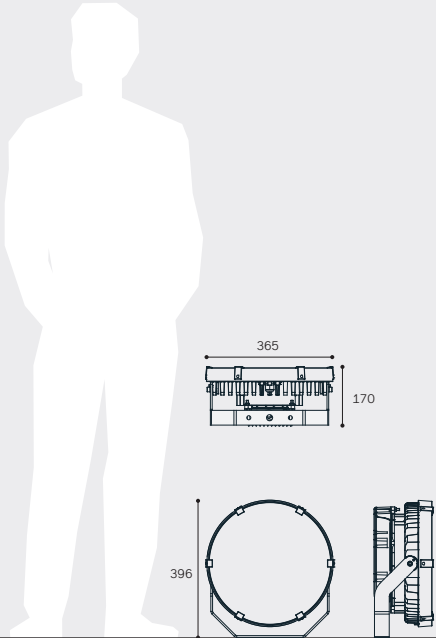
Airports,
Harbor
Logistics centers
Sports facilities

Without powder
coating

R1 with driver installed



R1 with driver remote



[Configurator](#)

CE
IP66 RoHS IK08

Housing

Housing material	Aluminum die-cast
Housing finish	without Polyester powder coating
Glass	EGS safety glass
Mounting options	Wall - Over and under cross arms
Fixing	Stainless steel mounting bracket

Measurements

Model	①	②	Weight [kg]
R1 round	0.03	0.1	8.3
R1 round + Driver	0.057	0.1	12.0
	① Projected windage area [m²]		
	② Lateral windage area [m²]		

Electrical

A-Series

Protection class	I
Voltage [V], [Hz]	220-480, 50 /60
Current max. [mA]	PMMA: 800 mA, PC: 1,100 mA
Power max. [W]	440

Operating conditions

Lifetime	Visit the configurator for specific lifetime options
----------	--

Driver

Control Options	
Programming	Stand-alone Constant Lumen Output (CLO)
Control accessories	Further accessories on request

SHAPE OF LIGHT



INTELLIGENCE OF LIGHT



Precision lens optics



AG01
Symmetric Narrow 11°



AG02
Symmetric Medium 26°



AG03
Symmetric Flood 50°



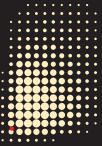
AG04
Symmetric Elliptical 11°- 40°



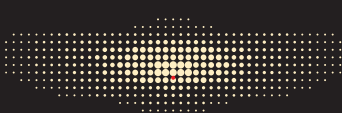
AG07
Symmetric Narrow 17°



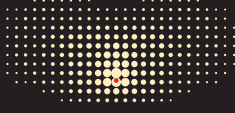
AP04-L
Asymmetric Extra Forward – Left



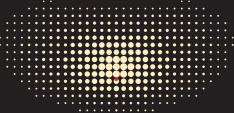
AP04-R
Asymmetric Extra Forward – Right



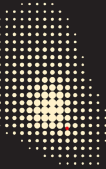
AS06
Asymmetric Extra Side Throw



AS07
Asymmetric Side Throw



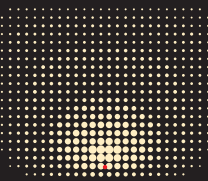
AS08
Asymmetric Side Throw



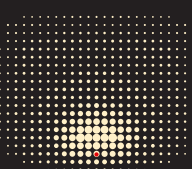
AP10-L
Asymmetric Extra Forward – Left



AP10-R
Asymmetric Extra Forward – Right



AP05
Asymmetric Extra Forward



AP07
Asymmetric Extra Forward



AH02
Symmetric Wide Flood 60°

3.000 K
CRI ≥ 70

4.000 K
CRI ≥ 70

5.700 K
CRI ≥ 70

Performance

Distribution	AG01	AG02	AG03	AG04	AG07	AH02	AP04-L	AP04-R	AP04-L/R	AP10-L	AP10-R	AP10-L/R
Beam angle	11°	26°	50°	11°-40°	17°	60°	-	-	-	-	-	-

Distribution	AP05	AP07	AS06	AS07	AS08
Beam angle	-	-	-	-	-

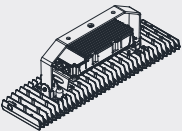
MacAdam ellipses (SDCM)	≤ 5
Nr. of LEDs	128
Lum. flux max. [lm] (4,000 K)	60,600

R-System gen4

R1 128 LED (A-Series)

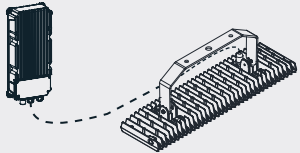
Airports,
Harbor
Logistics centers
Sports facilities

R1 with driver installed



220 V-480 V (IP66)

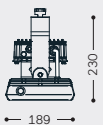
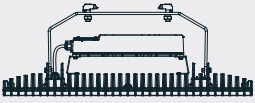
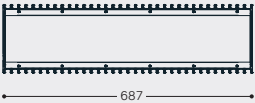
Without powder
coating



R1 with driver remote



220 V-480 V (IP66)



Configurator

CE RoHS IK08

Housing

Housing material	Aluminum die-cast
Housing finish	without Polyester powder coating
Glass	EGS safety glass
Mounting options	Wall - Over and under cross arms
Fixing	Stainless steel mounting bracket

Measurements

Model	Tilt	①	②	Weight [kg] ③
R1 + Driver	0°	0.11	0.03	11.0
R1 + FCO	20°	0.19	0.04	12.4

① Projected windage area [m²]
② Lateral windage area [m²]
③ Weight with bracket and driver (driver 3.4 kg)

Electrical

A-Series

Protection class	I
Voltage [V], [Hz]	220-415, 50/60
Current max. [mA]	PMMA: 1,000 mA, PC: 1,300 mA
Power max. [W]	512

Operating conditions

Lifetime	Visit the configurator for specific lifetime options
----------	--

Driver

Control Options	ON OFF DALI DMX
Programming	Stand-alone Constant Lumen Output (CLO)
Control accessories	Further accessories on request

BODY OF LIGHT



SHAPE OF LIGHT



INTELLIGENCE OF LIGHT



Precision lens optics



AG01
Symmetric Narrow 11°



AG02
Symmetric Medium 26°



AG03
Symmetric Flood 50°



AG04
Symmetric Elliptical 11°-40°



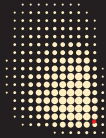
AG07
Symmetric Narrow 17°



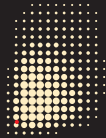
AH02
Symmetric Wide Flood 60°



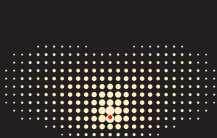
AF02
Asymmetric Wide Flood



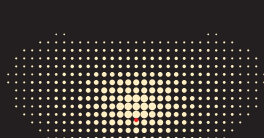
AP04-L
Asymmetric Extra Forward Left



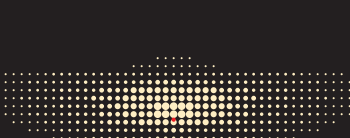
AP04-R
Asymmetric Extra Forward Right



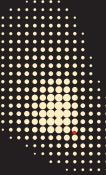
AS07
Asymmetric Side Throw



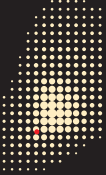
AS08
Asymmetric Side Throw



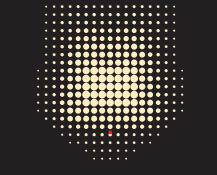
AS06
Asymmetric Extra Side Throw



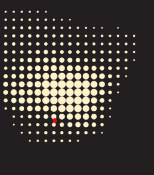
AP10-L
Asymmetric Extra Forward Left



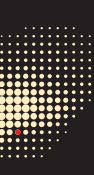
AP10-R
Asymmetric Extra Forward Right



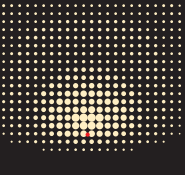
AFC01
Asymmetric Extra Forward



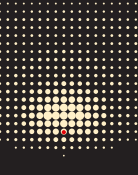
AFC02-L
Asymmetric Extra Forward Left



AFC02-R
Asymmetric Extra Forward Right



AP05
Asymmetric Extra Forward



AP07
Asymmetric Extra Forward



3,000 K*
CRI ≥ 70



4,000 K*
CRI ≥ 70



5,700 K*
CRI ≥ 70

* additional light colors and CRI on request

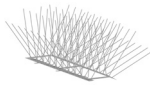
Performance

Distribution	AG01	AG02	AG03	AG04	AG07	AH02	AP04-L	AP04-R	AP04-L/R	AP10-L	AP10-R	AP10-L/R
Beam angle	11°	26°	50°	10°x40°	17°	60°	-	-	-	-	-	-
Full Cut Off (Tilt)	-	-	-	-	-	-	20°	20°	20°	7°	7°	7°

Distribution	AP05	AP07	AS06	AS07	AS08	AFC01	AFC02-L	AFC02-R	AFC02-L/R	AF02
Beam angle	-	-	-	-	-	-	-	-	-	-
Full Cut Off (Tilt)	7°	-	-	-	-	30°	30°	30°	30°	-

MacAdam ellipses (SDCM)	≤ 5
Nr. of LEDs	128
Lum. flux max. [lm] (5,700 K)	73,000

Accessories



Bird Spike



Full-Cut-Off visor



Multipurpose bracket

R-System gen4

R2 240 LED (A-Series)

Airports,
Harbor
Logistics centers
Sports facilities

Without powder
coating

Configurator

CE RoHS IK10

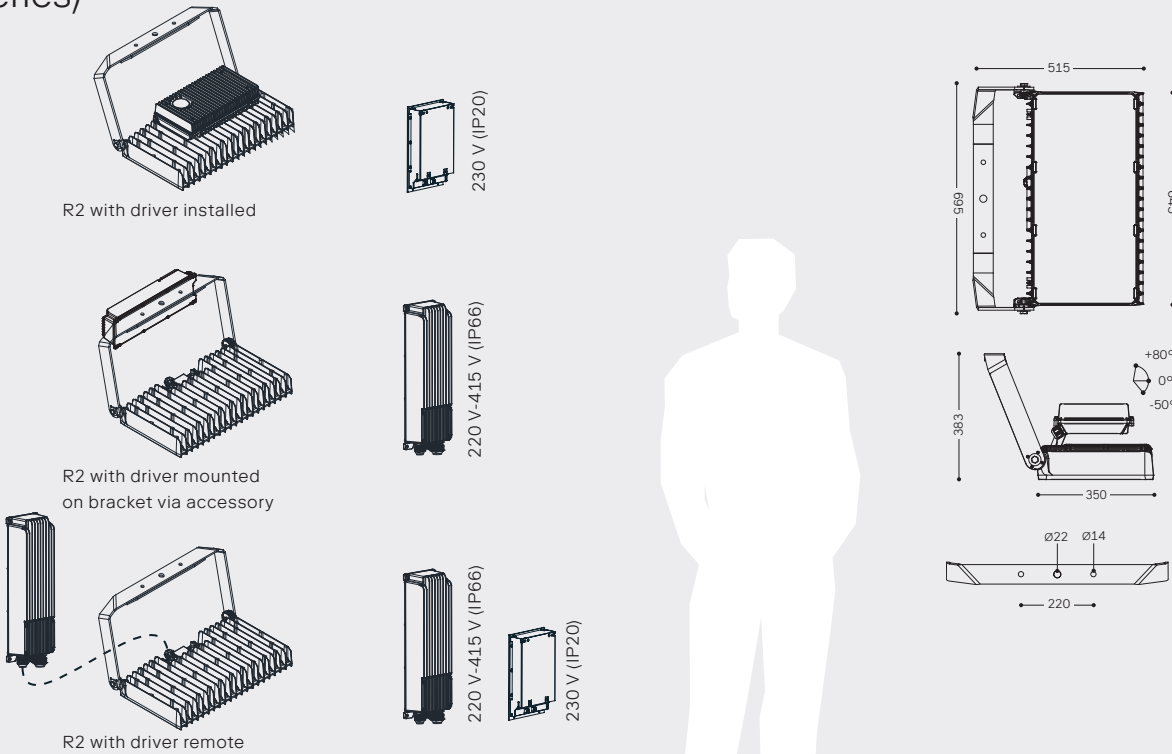
BODY OF LIGHT



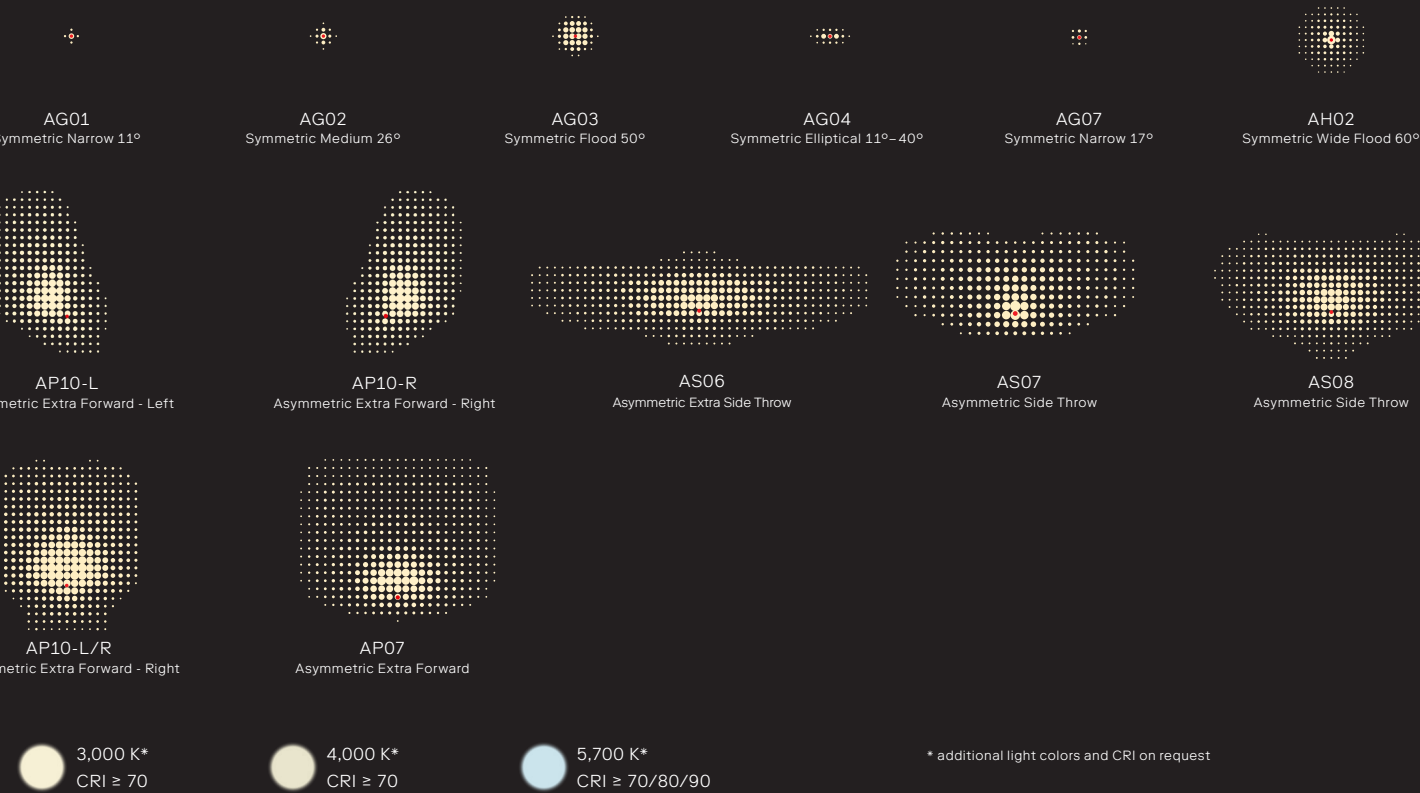
SHAPE OF LIGHT



INTELLIGENCE OF LIGHT



Precision lens optics



Housing

Housing material	Aluminum die-cast
Housing finish	without Polyester powder coating
Glass	EGS safety glass
Mounting options	Wall - Over and under cross arms
Fixing	Mounting bracket made of hot-dip galvanised steel

Measurements

Model	Tilt	↓ ^①	→ ^②	Weight [kg] ③
R2	0°	0.27	0.09	22.0
R2 + Driver installed	0°	0.27	0.13	28.5
R2 + Driver on bracket	0°	0.27	0.18	30.0
R2 + Driver on bracket + FCO	10°	0.34	0.19	31.5

① Projected windage area [m²]
② Lateral windage area [m²]
③ Weight with bracket M

Electrical

A-Series

Protection class	I
Voltage [V], [Hz]	220-415, 50/60
Current max. [mA]	1,200
Power max. [W]	870

Operating conditions

Lifetime	Visit the configurator for specific lifetime options
----------	--

Driver

Control Options	ON OFF DALI 1-10V DMX
Programming	Stand-alone Constant Lumen Output (CLO)
Control accessories	Further accessories on request

On request

Z

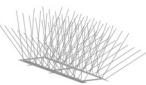
Performance

Distribution	AG01	AG02	AG03	AG04	AG07	AH02	AP10-L	AP10-R	AP10-L/R	AS06	AS07	AS08
Beam angle	11°	26°	50°	10°x40°	17°	60°	-	-	-	-	-	-
Full Cut Off (Tilt)	-	-	-	-	-	-	7°	7°	7°	-	-	-

Distribution	AP07
Beam angle	-
Full Cut Off (Tilt)	-

MacAdam ellipses (SDCM)	≤ 5
Nr. of LEDs	240
Lum. flux max. [lm] (5,700 K)	125,100

Accessories



Bird Spike



Full-Cut-Off visor



Laser Pointer



RedDot



Slide

R-System gen4

R2 336 LED (A-Series)

Airports,
Harbor
Logistics centers
Sports facilities

Without powder
coating

R2 with driver mounted
on bracket via accessory

R2 with driver remote

BODY OF LIGHT



SHAPE OF LIGHT



INTELLIGENCE OF LIGHT



Configurator

CE RoHS IK10

Housing

Housing material	Aluminum die-cast
Housing finish	without Polyester powder coating
Glass	EGS safety glass
Mounting options	Wall - Over and under cross arms
Fixing	Mounting bracket made of hot-dip galvanised steel

Measurements

Model	Tilt	①	②	Weight [kg] ③
R2	0°	0.27	0.09	22.0
R2 + Driver on bracket	0°	0.27	0.18	30.0
R2 + Driver on bracket + FCO	10°	0.34	0.19	31.5

① Projected windage area [m²]
② Lateral windage area [m²]
③ Weight with bracket M

Electrical

A-Series

Protection class	I
Voltage [V], [Hz]	220-415, 50/60
Current max. [mA]	1,200
Power max. [W]	1,200

Operating conditions

Lifetime	Visit the configurator for specific lifetime options
----------	--

Driver

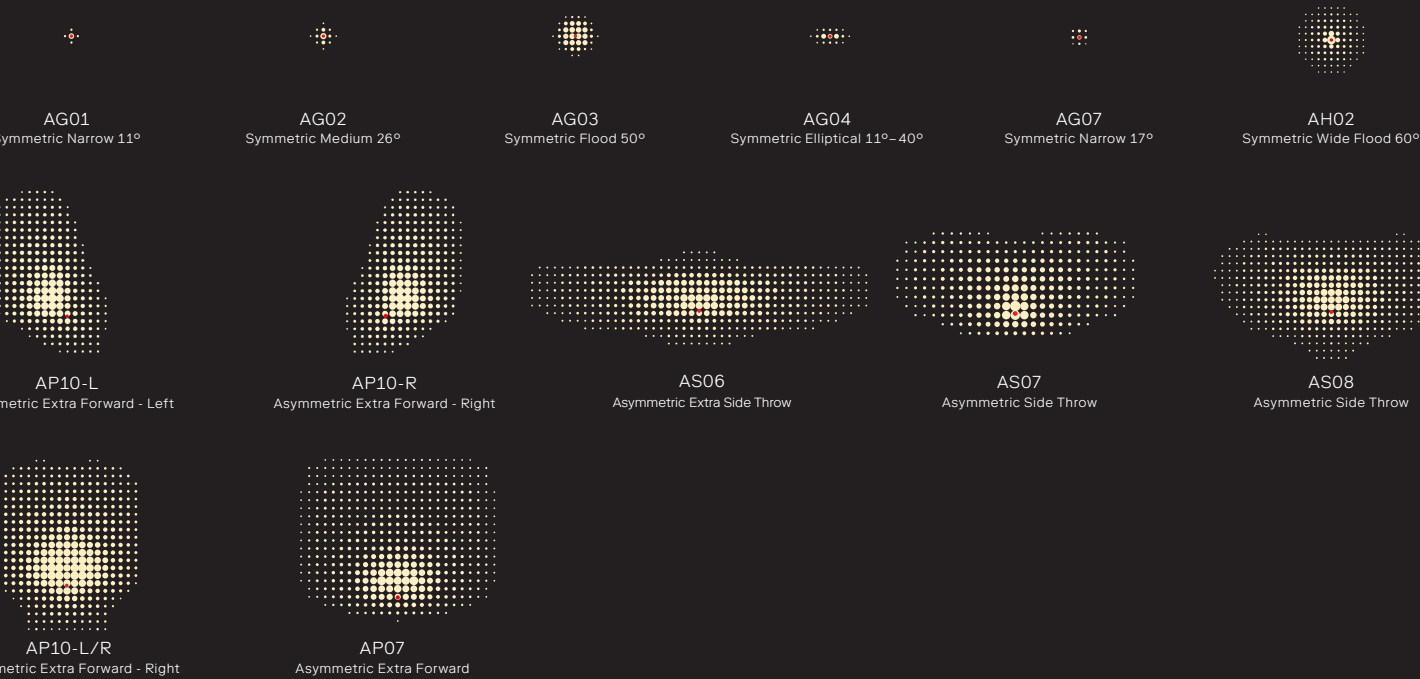
Control Options	ON OFF DALI 0-10V DMX
Programming	Stand-alone Constant Lumen Output (CLO)
Control accessories	Further accessories on request

On request

Z



Precision lens optics
* also available in satiné version



3,000 K* CRI ≥ 70
4,000 K* CRI ≥ 70
5,700 K* CRI ≥ 70/80/90
* additional light colors and CRI on request

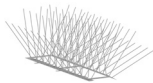
Performance

Distribution	AG01	AG02	AG03	AG04	AG07	AH02	AP10-L	AP10-R	AP10-L/R	AS06	AS07	AS08
Beam angle	11°	26°	50°	10°x40°	17°	60°	-	-	-	-	-	-
Full Cut Off (Tilt)	-	-	-	-	-	-	7°	7°	7°	-	-	-

Distribution	AP07
Beam angle	-
Full Cut Off (Tilt)	-

MacAdam ellipses (SDCM)	≤ 5
Nr. of LEDs	336
Lum. flux max. [lm] (5,700 K)	175,100

Accessories



Bird Spike



Full-Cut-Off visor



Laser Pointer



RedDot



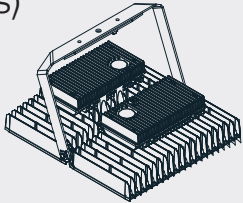
Slide

R-System gen4

R4 480 LED (A-Series)

Airports,
Harbor
Logistics centers
Sports facilities

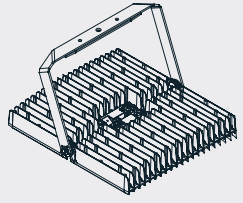
Without powder
coating



R4 with driver installed



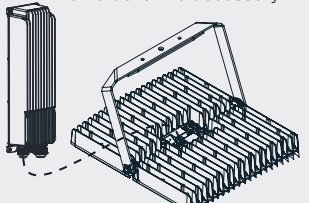
230 V (IP20)



R4 with driver mounted on bracket via accessory



220 V-415 V (IP66)



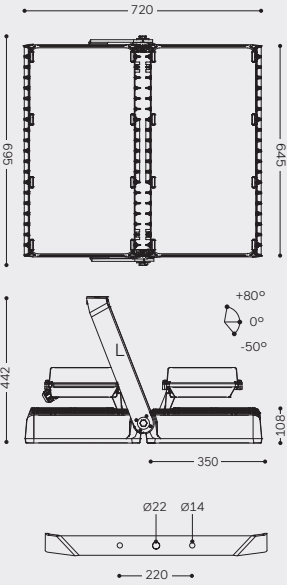
R4 with driver remote



220 V-415 V (IP66)



230 V (IP20)



Configurator

CE RoHS IK10

Housing

Housing material	Aluminum die-cast
Housing finish	without Polyester powder coating
Glass	EGS safety glass
Mounting options	Wall - Over and under cross arms
Fixing	Mounting bracket made of hot-dip galvanised steel

Measurements

Model	Tilt	①	②	Weight [kg] ③
R4	0°	0.54	0.09	36.5
R4 + Driver installed	0°	0.54	0.13	50.0
R4 + Driver on bracket	0°	0.54	0.18	44.5

① Projected windage area [m²]
② Lateral windage area [m²]
③ Weight with bracket L

Electrical

A-Series

Protection class	I
Voltage [V], [Hz]	220-415, 50/60
Current max. [mA]	1,200
Power max. [W]	1,740

Operating conditions

Lifetime	Visit the configurator for specific lifetime options
----------	--

Driver

On request

Control Options	ON OFF DALI 1-10V DMX	Z
Programming	Stand-alone Constant Lumen Output (CLO)	
Control accessories	Further accessories on request	

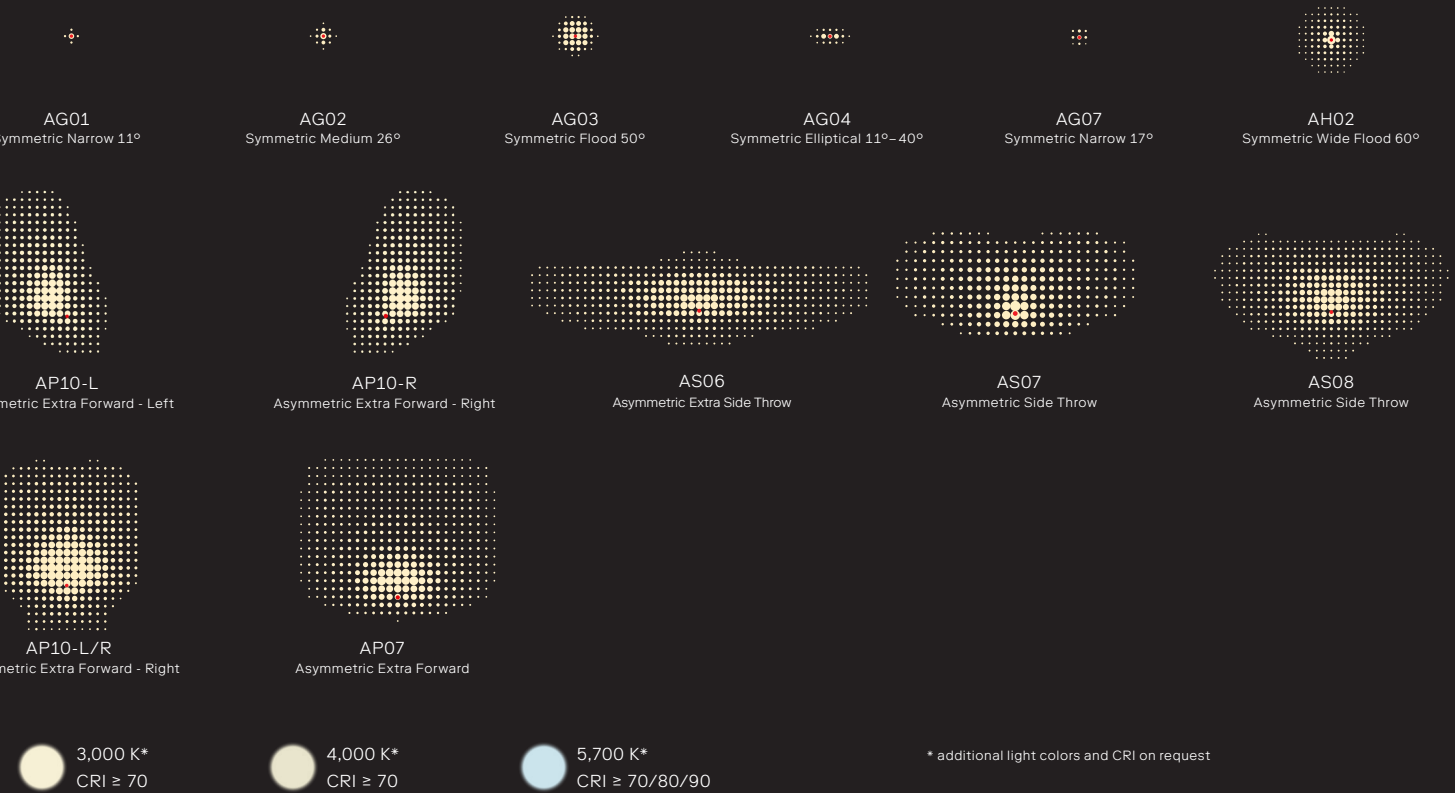
SHAPE OF LIGHT



INTELLIGENCE OF LIGHT



Precision lens optics



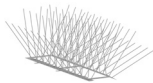
Performance

Distribution	AG01	AG02	AG03	AG04	AH02	AG07	AS06	AS07	AS08	AP10-L	AP10-R	AP10-L/R
Beam angle	11°	26°	50°	10°x40°	60°	17°	-	-	-	-	-	-
Full Cut Off (Tilt)	-	-	-	-	-	-	-	-	-	7°	7°	7°

Distribution	AP07
Beam angle	-
Full Cut Off (Tilt)	-

MacAdam ellipses (SDCM)	≤ 5
Nr. of LEDs	480
Lum. flux max. [lm] (5,700 K)	250,200

Accessories



Bird Spike



Laser Pointer



RedDot



Slide

Performance table

Values 5,700 K														B: on bracket R: remote I: installed
Model	LED	Lens	Material	I min [mA]	I max [mA]	Flux min [lm]	Flux max [lm]	Power min [W]	Power max [W]	Eff. max [l/W]	Eff. min [l/W]	Driver input voltage range	Driver IP rate	Driver mounting type
R1	128	AP1604-L	PMMA	500	1,000	29,900	54,000	198	398	151.3	135.7	220V-480V	66	I / R
		AP1604-R	PMMA	500	1,000	29,900	54,000	198	398	151.3	135.7	220V-480V	66	I / R
		AP1604-L/R	PMMA	500	1,000	29,900	54,000	198	398	151.3	135.7	220V-480V	66	I / R
		AP05	PMMA	500	1,000	29,800	53,800	198	398	150.8	135.2	220V-480V	66	I / R
		AP07	PMMA	500	1,000	28,800	52,000	198	398	145.8	130.7	220V-480V	66	I / R
		AH02	PMMA	500	1,000	31,000	56,100	198	398	157.0	140.8	220V-480V	66	I / R
		AS06	PMMA	500	1,000	28,700	51,900	198	398	145.2	130.2	220V-480V	66	I / R
		AS07	PMMA	500	1,000	30,000	54,300	198	398	152.0	136.3	220V-480V	66	I / R
		AS08	PMMA	500	1,000	29,400	53,200	198	398	148.9	133.5	220V-480V	66	I / R
		AG01.2	PC	500	1,300	33,100	73,000	198	519	167.1	140.7	220V-480V	66	I / R
		AG02.2	PC	500	1,300	31,100	68,700	198	519	157.2	132.3	220V-480V	66	I / R
		AG03.2	PC	500	1,300	28,500	62,900	198	519	144.0	121.2	220V-480V	66	I / R
		AG04.2-H	PC	500	1,300	32,000	70,700	198	519	161.8	136.2	220V-480V	66	I / R
		AG04.2-V	PC	500	1,300	32,000	70,700	198	519	161.8	136.2	220V-480V	66	I / R
		AG07	PC	500	1,300	30,490	66,100	198	519	154.0	127.1	220V-480V	66	I / R
		AP10-L	PC	500	1,300	29,600	65,400	198	519	149.8	126.1	220V-480V	66	I / R
		AP10-R	PC	500	1,300	29,600	65,400	198	519	149.8	126.1	220V-480V	66	I / R
		AP10-L/R	PC	500	1,300	29,600	65,400	198	519	149.8	126.1	220V-480V	66	I / R
		AFC01 (FCO)	PC	500	1,300	27,100	57,000	198	519	137.0	115.2	220V-480V	66	I / R
		AF02	PC	500	1,300	30,500	67,360	198	510	129.5	154.1	220V-480V	66	I / R
		AFC02-L (FCO)	PC	500	1,300	27,700	61,170	198	510	117.6	139.9	220V-480V	66	I / R
		AFC02-R (FCO)	PC	500	1,300	27,700	61,170	198	510	117.6	139.9	220V-480V	66	I / R
R2	240	AG01.2	PC	500	1,200	61,600	125,100	350	870	175.9	144.0	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AG02.2	PC	500	1,200	57,900	117,700	350	870	165.5	135.5	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AG03.2	PC	500	1,200	53,000	107,800	350	870	151.6	124.1	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AG04.2-H	PC	500	1,200	59,600	121,100	350	870	170.4	139.5	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AG04.2-V	PC	500	1,200	59,600	121,100	350	870	170.4	139.5	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AG07	PC	500	1,200	65,620	113,700	350	870	128.1	152.9	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AH02	PMMA	500	800	57,800	86,300	350	570	165.3	151.6	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AP07	PMMA	500	800	47,876	70,514	350	570	130.8	120.0	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AS07	PMMA	500	800	51,900	77,400	350	570	148.2	136.0	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AS08	PMMA	500	800	54,800	81,800	350	570	156.2	143.8	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AP10-L	PC	500	1,200	56,100	113,900	350	870	160.3	131.2	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AP10-R	PC	500	1,200	56,100	113,900	350	870	160.3	131.2	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AP10-L/R	PC	500	1,200	55,000	111,700	350	870	157.2	128.7	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
R2	336	AG01.2	PC	500	1,200	86,200	175,100	490	1,200	175.9	144.0	220V-415V	66	R, B
		AG02.2	PC	500	1,200	81,100	164,700	490	1,200	165.5	135.5	220V-415V	66	R, B
		AG03.2	PC	500	1,200	74,200	150,800	490	1,200	151.6	124.1	220V-415V	66	R, B
		AG04.2-H	PC	500	1,200	83,400	169,500	490	1,200	170.4	139.5	220V-415V	66	R, B
		AG04.2-V	PC	500	1,200	83,400	169,500	490	1,200	170.4	139.5	220V-415V	66	R, B
		AG07	PC	500	1,200	78,350	159,200	490	1,200	130.8	159.8	220V-415V	66	R, B
		AH02	PMMA	500	800	80,950	120,800	490	797	165.3	165.3	220V-415V	66	R, B
		AP07	PMMA	500	800	72,600	108,350	490	797	148.2	136.0	220V-415V	66	R, B
		AS06	PMMA	500	800	74,573	109,835	490	797	159.8	130.8	220V-415V	66	R, B
		AS07	PMMA	500	800	78,350	116,900	490	797	159.9	146.8	220V-415V	66	R, B
		AS08	PMMA	500	800	76,800	114,500	490	797	156.7	143.8	220V-415V	66	R, B
		AP10-L	PC	500	1,200	78,500	159,500	490	1,200	160.3	131.2	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AP10-R	PC	500	1,200	78,500	159,500	490	1,200	153.3	128.2	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AP10-L/R	PC	500	1,200	77,000	156,500	490	1,200	157.2	128.7	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
R4	480	AG01.2	PC	500	1,200	123,100	250,200	700	1,740	175.9	144.0	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AG02.2	PC	500	1,200	115,800	235,300	700	1,740	165.5	135.5	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AG03.2	PC	500	1,200	106,100	215,500	700	1,740	151.6	124.1	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AG04.2-H	PC	500	1,200	119,200	242,200	700	1,740	170.4	139.5	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AG04.2-V	PC	500	1,200	119,200	242,200	700	1,740	170.4	139.5	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AG07	PC	500	1,200	111,930	227,420	700	1,740	130.8	159.8	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AH02	PMMA	500	800	115,650	172,550	700	1,139	165.3	151.6	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AP07	PMMA	500	800	103,700	154,800	700	1,139	148.2	136.0	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AS07	PMMA	500	800	111,900	167,000	700	1,139	159.9	146.8	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AS08	PMMA	500	800	109,700	163,600	700	1,139	156.7	143.8	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AP10-L	PC	500	1,200	112,200	227,900	700	1,740	160.3	131.2	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AP10-R	PC	500	1,200	112,200	227,900	700	1,740	160.3	131.2	220V-240V / 220V-415V	20 / 66	I, R, B / R, B
		AP10-L/R	PC	500	1,200	110,000	223,500	700	1,740	157.2	128.7	220V-240V / 220V-415V	20 / 66	I, R, B / R, B