# **SORAA** arc<sup>™</sup>

#### SORAA ARC™IS THE SYNTHESIS OF PERFECT LIGHT AND INSPIRED DESIGN.

STUNNING FORM FOLLOWS REMARKABLE FUNCTION IN FIXTURES ENGINEERED AROUND AN ULTRA THIN PROFILE DIE-CAST HEAT SINK. OPTIMIZED FOR SUPERIOR THERMAL MANAGEMENT AND ENDOWED WITH SORAA'S SIGNATURE QUALITY OF LIGHT, THEY FEATURE RICH COLORS, PERFECTLY RENDERED WHITES, AND CLEAN, CRISP BEAMS. FOR A WIDE RANGE OF APPLICATIONS, THIS IS LIGHTING AT THE TOP OF THE CURVE.



DESIGNED FROM THE INSIDE OUT.

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LIGHT SPECIFICATIONS

## MUSEUMS



Soraa Arc features Soraa VIVID Color™ and Soraa Natural White™ rendering both colors and whites naturally and perfectly, ideal for settings and applications that demand accuracy and ultra-clear differentiation.







## RESIDENTIAL



At home, Soraa Arc is lighting that is meant to be seen. In addition to its legendary Soraa VIVID™ color quality, ARC stands on its own, adding to the art and architecture of a beautiful environment.





# DOWNLIGHT, UPLIFTED.



IT'S TIME TO RAISE YOUR EXPECTATIONS. INTRODUCING A NEW ARC IN DOWNLIGHTING FROM SORAA.®

# **SORAA** arc<sup>™</sup> SERIES





DESA 50mm Downlight Square Adjustable (Trim)



DESA 50mm Downlight
Square Adjustable (Trimless)



Snap Trim Square



Wall Wash Square



DERA 50mm Downlight Round Adjustable (Trim)



DERA 50mm Downlight
Round Adjustable (Trimless)



Snap Trim Round



Wall Wash Round



## ACCESSORIES

For spaces that require high precision in lighting design.

#### DOWNLIGHT

50mm 3-in-1 featuring 3.5" (90mm) aperture with 50mm lens in adjustable, fixed, and wall wash



TRACK

# **SORAA** arc™track















Full Spectrum

ıll Natuı trum Whit

CRI

R9 95

No IR

Dimmable

SNAP

# ORDERING GUIDE

Product SKU		
ART50	Soraa Arc Track, 50mm	

ART100 Soraa Arc Track, 100mm

Beam	& Wattage	
10D	10° Narrow Spot - 11W	<b>(3)</b>
15D	15° Narrow Spot - 18W	0
25D	25° Narrow Flood - 18W	
36D	36° Flood - 18W	
09D	9° Narrow Spot - 20W	<b>(3)</b>

09D	9° Narrow Spot - 20W		
25D	25° Narrow Flood - 20W		
36D	36° Flood - 20W		
60D	60° Flood - 20W		

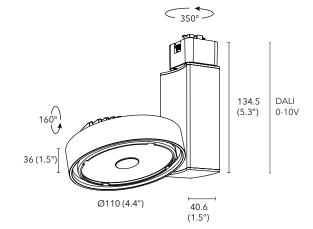
Track Compatibility		
н	H style -120V	927
J	J style - 120V	930
L	L style - 120V	940
G	3 C1N (Global)	
G1	2 C2N (Global)	
GC	3 C1N+Data (Global)	
GS	3 C1N+Data (Stucchi)	
I		

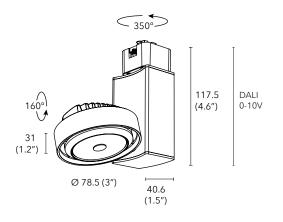
930	2700K 3000K 4000K	U U10
		E ED E10

Dri	ive	r	Fini	sh
U U1	10	120V TRIAC, ELV 120V 0-10V (120 VAC options)		Black White Silver Custom
E ED E1		230V Phase Dim 230V DALI 230V 0-10V (220-240 VAC options)		

	Reg	ion	
ck		North America	
ite	<b>S3</b>	EU/APAC	
er			
tom			









PENDANT

# SORAA arc pendant















Full Spectrum

ıll Natu trum Whi

CRI 95

R9 95

o IR

No UV Dimmable

Region

SNAP Compatible

# ORDERING GUIDE

Product SKU		
ARP50	Soraa Arc Pendant, 50mm	

ARP100	Soraa Ard	Pendant,	100mn
AIXI 100	Jorda Arc	, i ciidaiit,	10011111

Beam 8	k Wattage	
10D	10° Narrow Spot - 11W	0
15D	15° Narrow Spot - 18W	<b>(3)</b>
25D	25° Narrow Flood - 18W	
36D	36° Flood - 18W	
09D	9° Narrow Spot - 20W	<u></u>

09D	9° Narrow Spot - 20W
25D	25° Narrow Flood - 20\
36D	36° Flood - 20W
60D	60° Wide Flood - 20W

ССТ		Drive	r
930	2700K 3000K 4000K	U U10	120V TRIAC, ELV 120V 0-10V (120 VAC options
		Е	230V Phase Dim
		ED	230V DALI
		E10	230V 0-10V (220-240 VAC options)

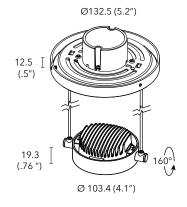
	Мо	unting	Fini	sh
,	SR	Semi Recessed	В	Black
			w	White
s)			S	Silver
			С	Custor

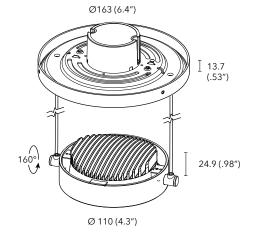
	North America
<b>S3</b>	EU/APAC



Pendant furnished with 1981mm (78")/side of coated electrical cable, fully adjustable lengths.

230V version supplied with remote driver.







ADJUSTABLE

# **SORAA** arc™adjustable



Spectrum

120V TRIAC, ELV

(120 VAC options)

(220-240 VAC

options)









No IR

Finish







GNID ORDERING

#### **Product SKU**

ARA50 Soraa Arc Adjustable, 50mm

**ARA100** Soraa Arc Adjustable, 100mm

#### Beam & Wattage

10° Narrow Spot - 11W 15° Narrow Spot - 18W 💿 25D 25° Narrow Flood - 18W

36D 36° Flood - 18W

9° Narrow Spot - 20W 09D 25D 25° Narrow Flood - 20W

36D 36° Flood - 20W 60D 60° Wide Flood - 20W

#### ССТ

**927** 2700K **U10** 120V 0-10V 930 3000K

**940** 4000K

230V Phase Dim 230V DALI **E10** 230V 0-10V

Driver

#### Mounting

SR Semi Recessed R Recessed

White **S** Silver

North America S3 EU/APAC

Region

Custom

B Black

White Black

230V version supplied with remote driver.

Consult specification sheets for CE installation.



6" Junction box (Not Included)

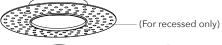








4" Junction box (Not Included)









# DOWNLIGHT









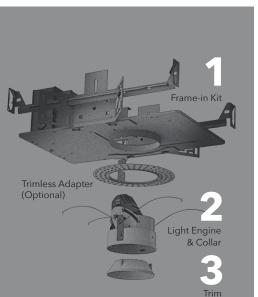












# Step 1 Choose your Installation application

#### Downlight Frame-in Kit (NA) or Driver (EU)

**DFR50** Downlight Frame-in Kit (NA Only) Round **DFS50** Downlight Frame-in Kit (NA Only) Square

DRD50 Downlight Remodel Driver **DD50** Downlight Driver Kit (EU)

#### IC Rating\*

IC Rated

Thermally Protected Non-IC Chicago Plenum

\*New Construction Only

#### Driver

120V TRIAC, ELV 0-10V (120 VAC options)

220-240V Phase Dim

230V DALI

**E10** 230V 0-10V (220-240 VAC options)

#### Step 2 Choose your light experience

Light Engine	Beam & Wattage	ССТ	Mounting*	Collar	Finish	Region	
<b>DERA50</b> Downlight LE Round Adjustable <b>DESA50</b> Downlight LE Square Adjustable	15D       15° Narrow Spot - 18W         25D       25° Narrow Flood - 18W         36D       36° Flood - 18W	<b>927</b> 2700K <b>930</b> 3000K <b>940</b> 4000K	F Frame-In Kit R Remodel *NA Only	T Trim TL Trimless	B Black W White	North America <b>\$3</b> EU/APAC	

#### Step 3 Choose your finished look with a SNAP trim

#### **Snap Trims**

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DTRA50 Round Adjustable Downlight DTSA50 Square Adjustable Downlight

#### Finish

Black White W

Silver

Tangerine Custom

#### Region

North America S3 EU/APAC



White





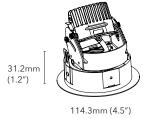
Black



Silver



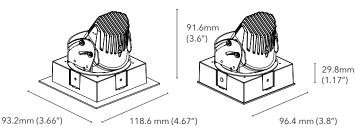
Tangerine



91.6mm (3.6")



96.1mm (3.78")











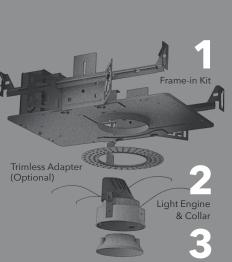












# Trim Ш GNID ORDERING

#### **Step 1** Choose your Installation application

#### Downlight Frame-in Kit (NA) or Driver (EU)

**DFR50** Downlight Frame-in Kit (NA Only) Round **DFS50** Downlight Frame-in Kit (NA Only) Square

DRD50 Downlight Remodel Driver **DD50** Downlight Driver Kit (EU)

#### IC Rating\*

IC Rated

Thermally Protected Non-IC Chicago Plenum

\*New Construction Only

#### Driver

120V TRIAC, ELV 0-10V (120 VAC options)

220-240V Phase Dim

230V DALI

**E10** 230V 0-10V (220-240 VAC options)

#### Step 2 Choose your light experience

Light Engine	Beam & Wattage	ССТ	Mounting*	Collar	Finish	Region
DERF50 Downlight LE Round Fixed DESF50 Downlight LE Square Fixed	15D 15° Narrow Spot - 18W	<b>927</b> 2700K <b>930</b> 3000K <b>940</b> 4000K		T Trim TL Trimless	<b>B</b> Black <b>W</b> White	North America <b>\$3</b> EU/APAC

#### Step 3 Choose your finished look with a SNAP trim

#### **Snap Trims**

DTRF50 Round Fixed Downlight DTSF50 Square To Round Fixed Downlight

#### Finish

В Black White W

S Silver Т Tangerine C

Custom

#### Region

North America S3 EU/APAC



White



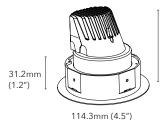




Silver



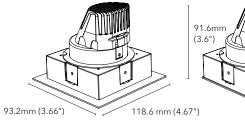
Tangerine



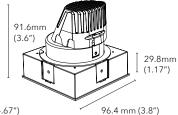
91.6mm (3.6")



96.1mm (3.78")



Black



#### **SORAA** arc\* wall wash 3.5" (90mm) aperture





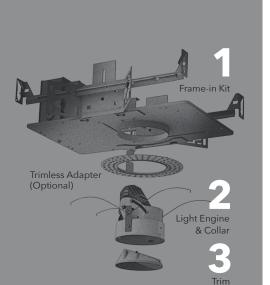












### **Step 1** Choose your Installation application

#### Downlight Frame-in Kit (NA) or Driver (EU)

**DFR50** Downlight Frame-in Kit (NA Only) Round **DFS50** Downlight Frame-in Kit (NA Only) Square

DRD50 Downlight Remodel Driver **DD50** Downlight Driver Kit (EU)

#### IC Rating\*

IC Rated

Thermally Protected Non-IC

Chicago Plenum

\*New Construction Only

#### Driver

120V TRIAC, ELV 0-10V (120 VAC options)

220-240V Phase Dim

230V DALI

**E10** 230V 0-10V (220-240 VAC options)

#### Step 2 Choose your light experience

Light Engine	ССТ	Mounting*	Collar	Finish	Region
<b>DERW50</b> Downlight LE Round Wall Wash <b>DESW50</b> Downlight LE Square Wall Wash	<b>927</b> 2700K <b>930</b> 3000K <b>940</b> 4000K	F Frame-In Kit R Remodel *NA Only	T Trim TL Trimless	B Black W White	North America S3 EU/APAC

#### Step 3 Choose your finished look with a SNAP trim

#### **Snap Trims**

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**DTW50** Round Wall Wash DTSW50 Square Wall Wash

#### Finish

W White

В Black S Silver Tangerine

#### Region

(3.6")

North America S3 EU/APAC





Black

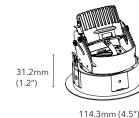




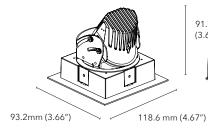
White

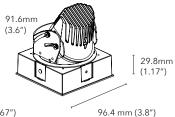
Silver

Tangerine











# **SORAA** snap system™

ARC is universally compatible with the Soraa Snap System™, giving you total control to color and sculpt the perfect light.

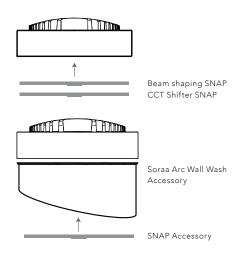
Soraa Arc in 9°, 10°, and 15° beams are designed to work with the Soraa Snap System<sup>™</sup> creating an optimized solution for luminaires and integrated lamp accessories.

Coupled with Soraa's high brightness single source LED technology, Soraa Snap System lighting effects are similar to halogen sources, with the added benefits of low operating temperature, ground-breaking optical design, and method of attachment

The self-centering magnetic system is simple. Place a SNAP accessory directly on an Arc surface and the magnetic force will do the rest

Soraa Snap System can be used in combination with other Soraa Arc accessories, They can be stacked (i.e. beam spreader and a CCT shifter) or when combining beam shaping Snaps with CCT shifters.

SNAP accessories are only compatible with Soraa Arc luminaires, Soraa lamps, and Optical Light Engines, in 9°, 10°, and 15° beam versions. See individual SNAP accessory data for exact diameters. IES files and photometric data for SNAP accessories are available at www.soraa.com.

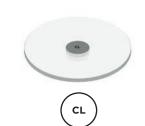


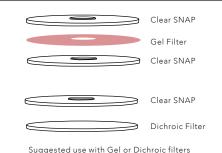
For best results always place CCT shifting Snap on the lamp first

#### Clear

Use together with gel and dichroic filters for total color freedom. Produce the exact mood and effect you want for any environment. Sold in quantities of ten.

Diameter	Part Number	Product Code	Lumen Transmission (1 SNAP)	Lumen Transmission (2 SNAPS)	Thickness	Magnetic Attach Force
50mm	AC-CL-0000-00	02183	93%	87%	2mm	0.45 lb-F
84mm	AC-E-CL-0000-00	02185	93%	87%	3.1mm	





#### Enhance

A color enhancing filter designed to modify the spectrum of Soraa VIVID luminaires and increase the vividness of warm colors (red, orange and pink) and greens. Use Enhance in applications where even richer, more vibrant color is desired.

Diameter	Part Number	Product Code	Lumen Transmission	Whiteness	Thickness	Magnetic Attach Force
50mm	AC-EN-0001-00	03281	75%	130%	2mm	0.45 lb-F
84mm	AC-E-EN-0001-00	03283	75%	130%	2mm	
0 1111111	AC-L-LIN-0001-00	03203	, 5,5	10070		

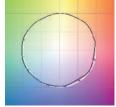
#### Application Notes:

Use with CCTs of 3000K and 2700K.

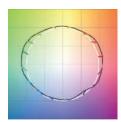
Combine with either a Louver SNAP (for 10° spot applications) or with a Beam Spreader SNAP (for other beam angles) Place Enhance as the first filter when stacking with other SNAP accessories.











With Enhance SNAP Rf:75, Rg:112 Rw (Whiteness): 130

# **SORAA** snap system™

#### Beam Spreader

Use in any application where reducing the number of beam angle SKUs is required. Reduces inventory costs, shortens specification, design, and sales cycles. Provides maximum flexibility up to the time of installation.

Diameter	Beam	Part Number	Product Code	CBCP of 10°, 9° Beam	Fleld Angle	Lumen Transmission	Thickness	Magnetic Attach Force
50mm	17°	AC-GC-1717-00	03263	30%	33°	90%	2mm	0.45 lb-F
	25°	AC-GC-2525-00	00325	29%	40°			
	36°	AC-GC-3636-00	00327	14%	55°			
	60°	AC-GC-6060-00	00329	5%	103°			
84mm	17°	AC-E-GC-1717-00	03265	53%	33°		3.1mm	
	25°	AC-E-GC-2525-00	01145	18%	40°			
	36°	AC-E-GC-3636-00	01147	8%	55°			

90°

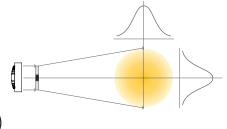
AC-E-GC-6060-00 01149











#### Linear

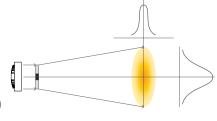
Use in wall washes and illuminating asymmetric objects. Reduces required number of light fixtures and spill illumination of target objects.

Diameter	Beam	Part Number	Product Code	CBCP of 10°, 9° Beam	Fleld Angle Horiz/Vert	Lumen Trans- mission	Thickness	Magnetic Attach Force
50mm	10-25°	AC-GE-1025-00	00331	57%	27°/ 35°	90%	2mm	0.45 lb-F
	10-36°	AC-GE-1036-00	00333	38%	27° / 43°			
	10-60°	AC-GE-1060-00	03259	25%	25° / 70°			
84mm	10-36°	AC-E-GE-1036-00	01595	30%	27° / 43°		3.1mm	
	10-60°	AC-E-GE-1060-00	03261	20%	20° / 70°			









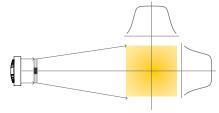
#### Flat Top

Provides even illumination center to edge. Eliminates video camera saturation, for use in applications such as critical video surveillance.

Diameter	Beam	Part Number	Product Code	CBCP of 10° Beam	Fleld Angle Horiz/Vert	Lumen Trans- mission	Thickness	Magnetic Attach Force
50mm	25x25°	AC-FR-2525-00	00335	19%	44° / 44°	90%	2mm	0.45 lb-F
	36x36°	AC-FR-3636-00	00337	14%	46° / 46°			
84mm	36x36°	AC-E-FR-3636-00	01597	14%	46° / 46°			







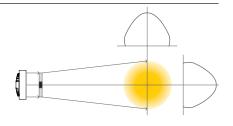
#### Louver

Eliminates high angle glare, making light beams disappear in downlight applications. Reduces angular intensity to 0.1% of peak at 40° full angle. Fits around luminaire face. Can be used in combination with Soraa Arc Accessories.

Diameter	Cutoff Angle	Part Number	Product Code	CBCP of 10° Beam	Thickness	Magnetic Attach Force	
51.1mm 84mm	40° 40°	AC-LU-4040-00 AC-E-LU-4040-00	00339 01151	63% 63%	9mm	0.45 lb-F	







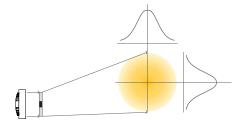
# **SORAA** snap system™

#### Aim

Comprising two lenses, the Aim SNAP bends the beam from 0° to maximum deflection angle of 20° while maintaining uniform and consistent color and shape.

Diameter	Part Number	Product Code	Lumen Transmission	Beam	Maximum Deflection		Magnetic Attach Force	
50mm	AC-AM-0020-00	03255	85%	13°	20°	4mm	0.45 lb-F	
84mm	AC-E-AM-0020-00	03257	85%	13°	20°	6.2mm		







Stacked orientation lines will result in undesirable optical artifacts. Rotate one lens slightly to mitigate.



Wider angle between orientation lines produces less deflection.



Narrower angle between orientation lines produces more deflection.

How Aim Works
Use the orientation lines to adjust beam deflection angle.

#### **CCT Shifter**

Use in hospitality and restaurant applications to simulate warm dimming. Create custom colors for festive occasions or brand identity. A single luminaire SKU can be used for many different color temperatures.

Diameter	сто	Part Number	Product Code	Lumen Transmission	Mired Shift	Thickness	Magnetic Attach Force
50mm	1/4	AC-CC-0001-00	00323	90%	37	2mm	0.45 lb-F
	1/2	AC-CC-0002-00	00321	75%	83		
	3/4	AC-CC-0003-00	00319	60%	120		
84mm	1/4	AC-E-CC-0001-00	01153	90%	37	3.1mm	
	1/2	AC-E-CC-0002-00	01155	75%	83		
	3/4	AC-E-CC-0002-00	01157	60%	120		



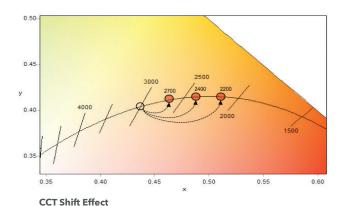








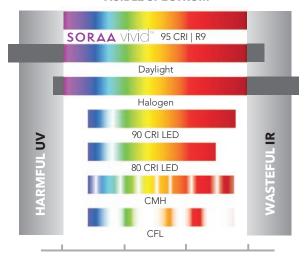
CTO 3/4



Starting CCT	1/4 CTO	1/2 CTO	3/4 CTC
2,700K	2,450K	2,200K	2,000K
3,000K	2,700K	2,400K	2,200K
4,000K	3,500K	3,000K	2,700K

# COLOR & WHITENESS

#### **VISIBLE SPECTRUM**



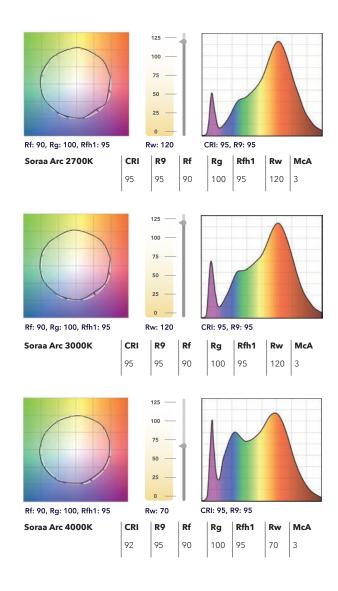
Soraa has engineered the perfect balance between color rendering and white rendering. Soraa's core technology uses a violet LED emitter as the basis for full spectrum light. This allows both Vivid™ color rendering and Natural White™ white rendering, which creates whiteness by exciting fluorescing agents with violet radiation, without the harmful effect of UV.

**Rf:** The TM-30 metric for color fidelity (similarity to colors under natural light), a more accurate version of the CRI Ra. Rf is 100 for natural light.

**Rg:** The TM-30 metric for color gamut (whether colors are more saturated than under natural light). Rg is 100 for natural light.

**Rfh1:** The TM-30 metric for color fidelity for red tones. Rfh1 is a more accurate version of the CRI R9. Rfh1 is 100 for natural light.

**Rw:** The Soraa-developed metric for white fidelity. Rw measures the magnitude of excitation of whitening agents within white materials. Rw is 100 for natural light.



# SORAA arc™I SPECIFICATIONS

#### Soraa VIVID™ LED

Soraa Full Spectrum integral LED Light Engine available in 2700K, 3000K, and 4000K with 95 CRI, Rw 100 (typical) and 95 R9. IR and UV free. 3-step McA SDCM.

#### Soraa Optics

Soraa optic technology with exceptional beam control and smooth uniform light distribution. The 9°, 10°, and 15° beam versions are compatible with Soraa Snap System.

#### **Construction and Finish**

Light engine is made of die cast aluminium, transformer case from extruded aluminum. Durable satin finish. Custom colors available.

#### **Electrical**

120VAC or 220-240VAC fully integral LED electronic constant current driver (included).

Frequency: 50/60Hz Power Factor: 0.93

Wattage: 11W, 18W, 20W

#### **Dimming and Flicker**

Dimmable to <1% Percent Flicker: < 30%

Triac and ELV dimming standard Refer to website for details

#### **Applications**

Suitable for damp or dry locations. For interior use only.

#### Accessories

ARC fixtures are compatible with Soraa Arc accessories and Soraa Snap System simultaneously.\*

\*Excludes Wall Wash Downlight

#### Compliance

cULus Listed. FCC CFR Title 47 Part 15 Class B compliant. CE Compliant.

#### Warranty

Five year warranty. Consult www.soraa.com.

#### **Operating Temperature**

Minimum -40° C, 25° C typical.



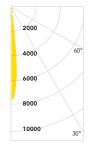




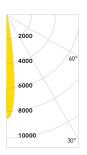




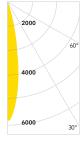
#### **Soraa Arc Photometrics**



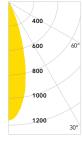
50mm Narrow Spot



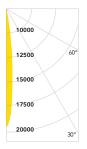
50mm Spot



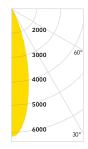
50mm Narrow Flood



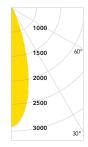
50mm Flood



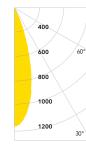
100mm Narrow Spot



100mm Narrow Flood



100mm Flood



100mm Wide Flood

SIMPLY PERFECT LIGHT.





SORAA CORPORATE HEADQUARTERS

6500 Kaiser Dr. Suite 110 Fremont, CA 94555 +1 855 467-6722 SORAA INTERNATIONAL

Unit 38, Ambition Broxbourne Business Centre Pindar Road Hoddesdon EN11 0FJ United Kingdom +44 (0)1992 535053 JAPAN

3-22-4-203 Funado Itabashi-ku Tokyo, 174-0041 Japan +81 (0)3 5948 7440 **GENERAL INFO** 

info@soraa.com international@soraa.com japan@soraa.com techsupport@soraa.com

# **SORAA** arc<sup>™</sup>

visit us: www.soraa.com





