

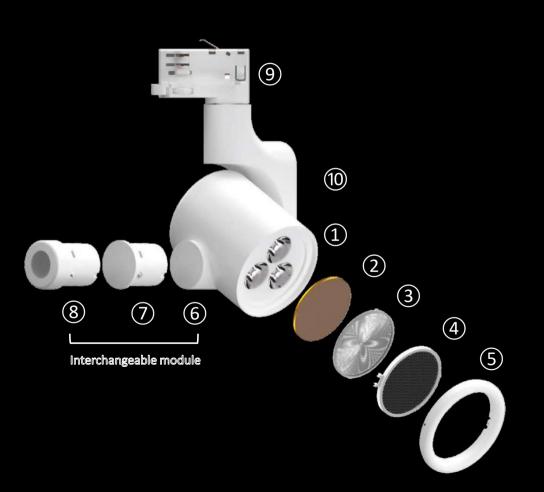


FlexRay-

Precision light for Culture

Overall feature





(1) Beam/ CCT

9°, 4000K, SDCM≤2

2 CCT filter

2700K/3000K/3500K

(3) Beam angle filter

15/20/25/40/50/70/ 20x60/ Wallwash

4 Honeycomb

Minimise UGR

(5) Magnetic Upper Ring

6 0-10V On-board Dimming

Brightness control

(7) ACO Smart

Wireless Control/ Bluetooth

8 Constant Illminance_sensor

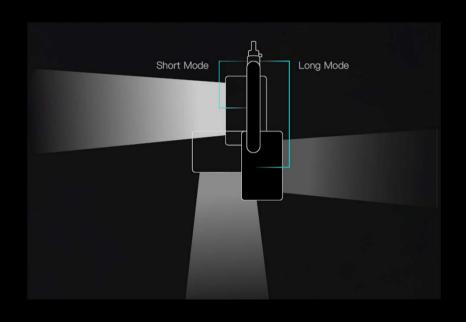
Preset 10 levels

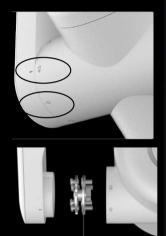
(9) DALI or DMX (optional)

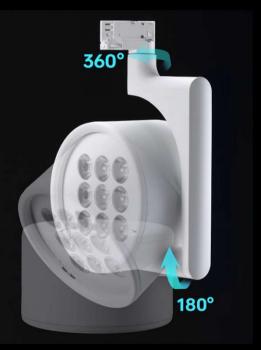
(10) Precision Hinge

Flex in Swivel Direction control









Provide two different lighting distance modes. Precision hinge within the mechanism of the light fixture to maximize the lighting mode of the fixture, while also allowing precise adjustment the direction of the light.

Flex in Swivel





This feature enables lighting designer to hide or arrange the luminaires, depending on the type of the cabinets. It can be well-hidden the cabinets with short model but can be adjusted when needed.

Accent Ambient Ambient/ Accent Task

Surface mounted track inside cabinets







Flex in Control Method















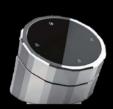




















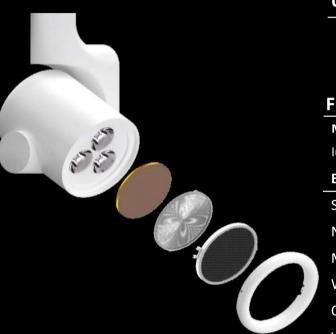


	Constant Illuminance	ACO Smart	ON/ OFF	Preset scenes	CCT Adjustment	Brightness Adjustment
Manual Control	X	Χ	Χ	Χ	Χ	٧
Wall mount panel	X	٧	٧	٧	٧ (*)	٧
Bluetooth Remote	X	٧	٧	٧	٧	٧
Portable Device (APP)	٧	٧	٧	٧	v	٧

(* FlexRay- Zoom- S72-1 with Tunable feature)

Flex in Optical Control





Ultra-Spot: 5°

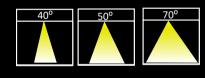
Model#	S70-1	S70-2	S70-3
lum	410lm	1360lm	2570lm



Flexi-beam

Model#	S71-1	S71-2	S71-3
lum	410lm	1360lm	2570lı
Beam		Degree	
Spot		9°	
Narrow		15°, 20°	
Medium	Medium		
Wide		50°, 70°	
Oval		20° x 60°	
Wallwas	h		







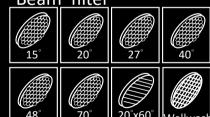
CCT Filters



Honeycomb



Beam filter



Zoom: 12° -68°

Model#	S72-1
lum	550m





S70-3

ACOfusion



Ф190

S70-2

S71-2

Ф135

\$71-1

S72-1

Ф80

9°

S70-1

68°

	Model#	Wattage	Diameter	12°-68°	5°	2700-4000K	filter	filter	Honeycomb
51 0	S70-1	4	Ф80mm		٧		٧		٧
FlexRay- UltraSpot	S70-2	10	Ф135mm		٧		٧		٧
	S70-3	27	Ф190mm		٧		٧		٧
-1 -	S71-1	9	Ф80mm				٧	٧	٧
FlexRay- FlexBeam	S71-2	27	Ф135mm				٧	٧	V
Пехвеатт	S71-3	50	Ф190mm				٧	٧	V
FlexRay- Zoom	S72-1	10	Ф80mm	٧		٧			

FlexRay-Zoom



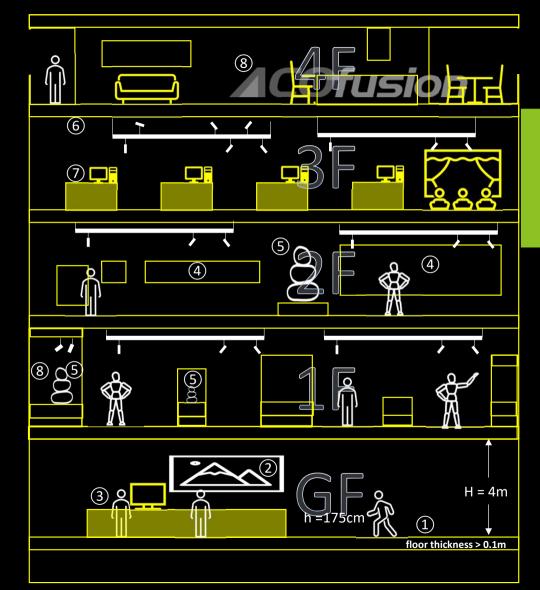


Lower celling building: **H ≤ 4m**

	S70-1	S70-2	S70-3	Vertical surface	Horizontal surface
Ambient		٧	٧	38	136
Accent	٧	٧	٧	2458	(5)
Task		٧	٧		37

- 1 Pathway/ Entrance
- 2 Logo/ Feature
- 3 Reception
- 4 Sign/ Artwork/ Feature

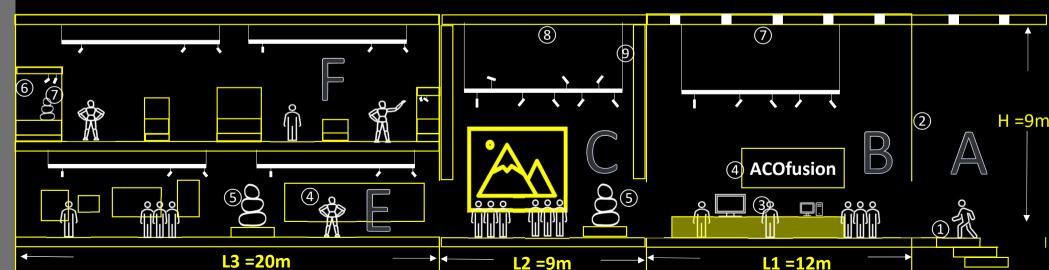
- **5** Focal objects/ cabinets
- 6 Celling –feature/ indirect light
- Working desktop
- 8 Feature wall/ Wallwash



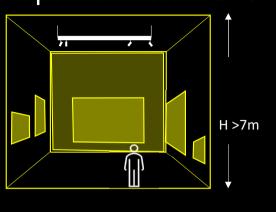
Higher celling building **4m≤ H ≤ 9m**

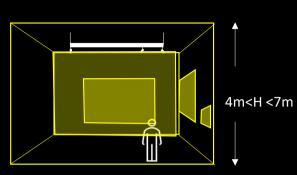
	S70-1	S70-2	S70-3	S71-1	S71-2	S72-1	S72-2	Vertical surface	Horizontal surface
Ambient		٧	٧		٧		٧	269	137
Accent	٧	٧	v	٧	٧	v	٧	24568	135
Task		٧	v		٧				3

- 1 Pathway/ Entrance
- 2 Logo/ Feature
- 3 Reception
- 4 Sign/ Artwork/ Feature
- 5 Focal objects outside cabinets
- Artwork/ Feature
- Focal objects inside cabinets
- 8 Celling architectural feature
- 9 Column architectural feature

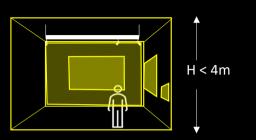


Optimal Distance for Focal objects/ Surfaces









	₩		ш		
Model#	Application	Beam Angle	Optimal Track Distance: Small Objects (m)	Optimal Track Distance: Medium Objects/Groups (m)	Optimal Track Distance : Large Objects/Walls (m)
S70-1, S71-1	Wall Showcase Cabinets (Low)	5°-20°	2-3	3-4	4-5
S71-1	Portable Showcase Cabinets (Low)	30°-60°	1-2	1.5-2.5	2-3
S71-1	Exhibition Area Pathway	30°-60°	1-2	1.5-2.5	2-3
S70-2, S71-2	Wall Showcase Cabinets (Medium)	5°-20°	3-4	4-5	5-6
S71-2	Portable Showcase Cabinets (Medium)	30°-60°	2-3	2.5-3.5	3-4
S71-2	Exhibition Entrance	30°-60°	2-3	2.5-3.5	3-4
S70-3, S71-3	Wall Showcase Cabinets (High)	5°-20°	4-5	5-6+	6-7+
S71-3	Portable Showcase Cabinets (High)	30°-60°	3-4	3.5-4.5	4-5+
	Exhibition Objects	5°-20°	4-5	5-6+	6-7+















FlexRay-UltraSpot

ССТ	Lumen	Wattage	CRI
4000K	150	4W	≥97
4000K	620	10W	≥97
4000K	1340	27W	≥97







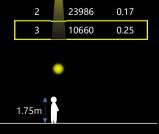


7					
H(m)	E(lx)	Φ(m)			
1	10867	80.0			
2	2717	0.16			
3	1207	0.24			

1.75m

	S S	70-2
H(m)	E(lx)	Φ(m)
1	46257	0.07
2	11564	0.14
3	5140	0.21

[5° S	70-3
H(m)	E(lx)	Φ(m)
1	95944	0.08
2	23986	0.17
3	10660	0.25















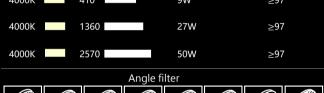
CCT filter

100V 220V

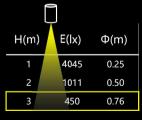
ACOfusion

FlexRay-MultiBeam

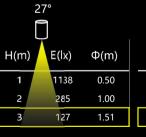








20°



4	0°		1
H(m)	E(lx)	Φ(m)	
1	768	0.61	
2	192	1.23	
3	85	1.84	

S71-1















1.75m

















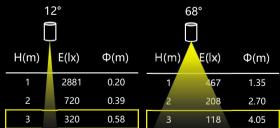


Zoom 12~68°

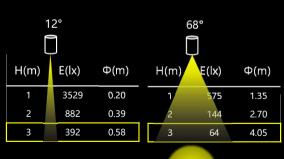
FlexRay-Zoom

ССТ	Lumen	Wattage	CRI	Application
	540			Gallery/ Museum
Tunable	660	10W	≥97	Retail/ Resident



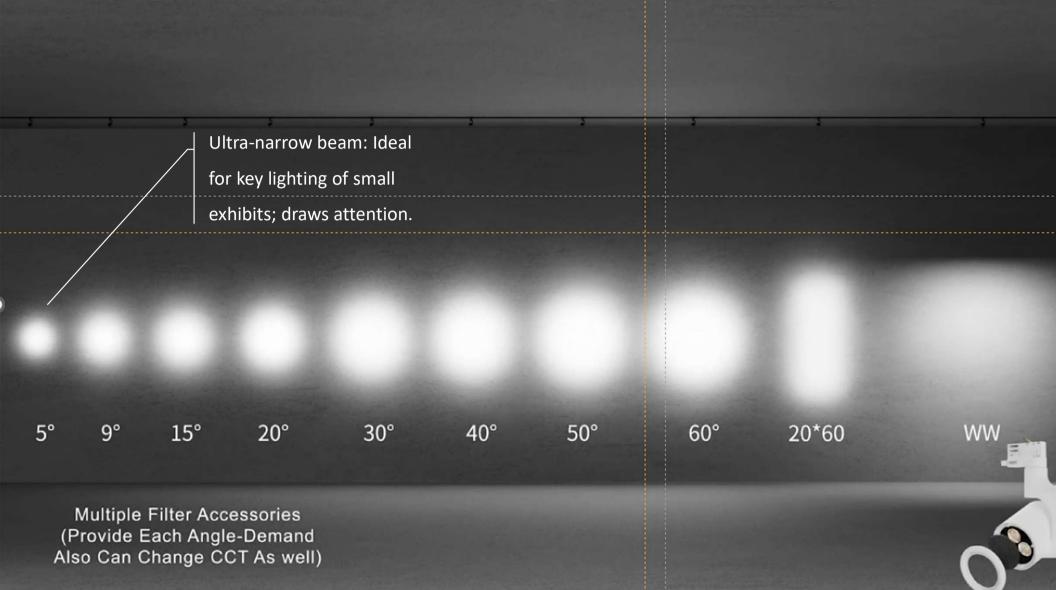




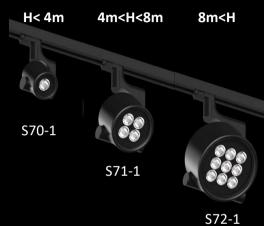




The above data is for 5700K







Apply ultra narrow beam to create dramatic effect from high celling.

Feel the light without seeing where does it come from.

Special lighting



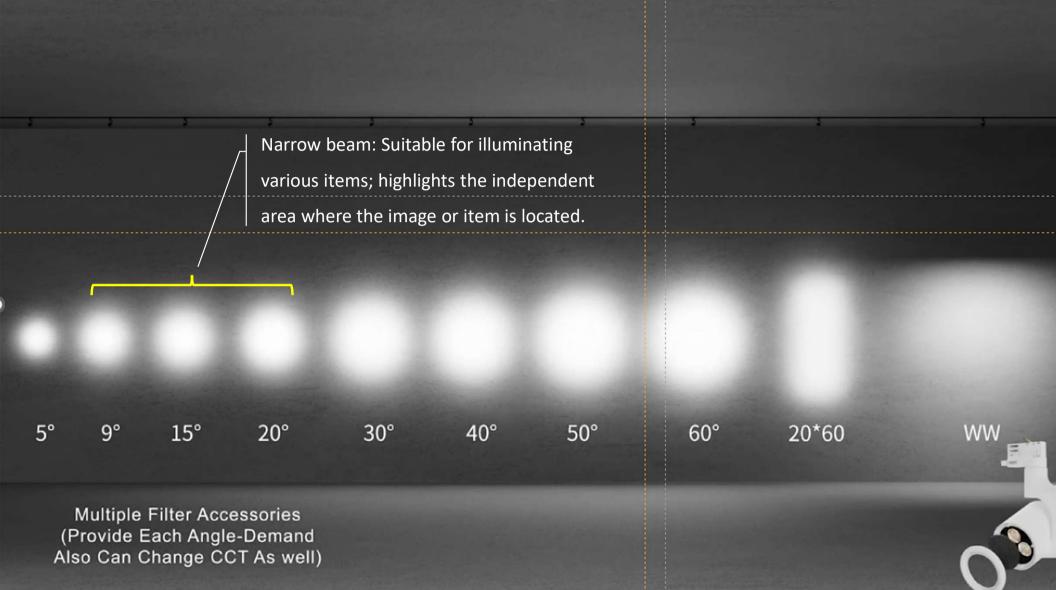
ACOfusion



S72-1

Apply ultra narrow beam to create dramatic effect from high celling.

Feel the light without seeing where does it come from.





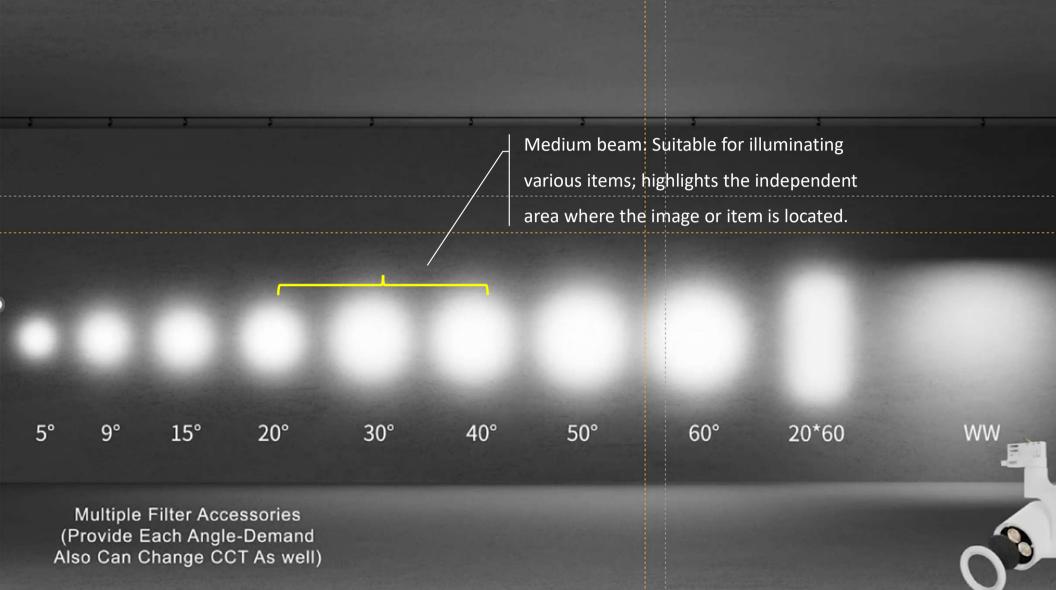


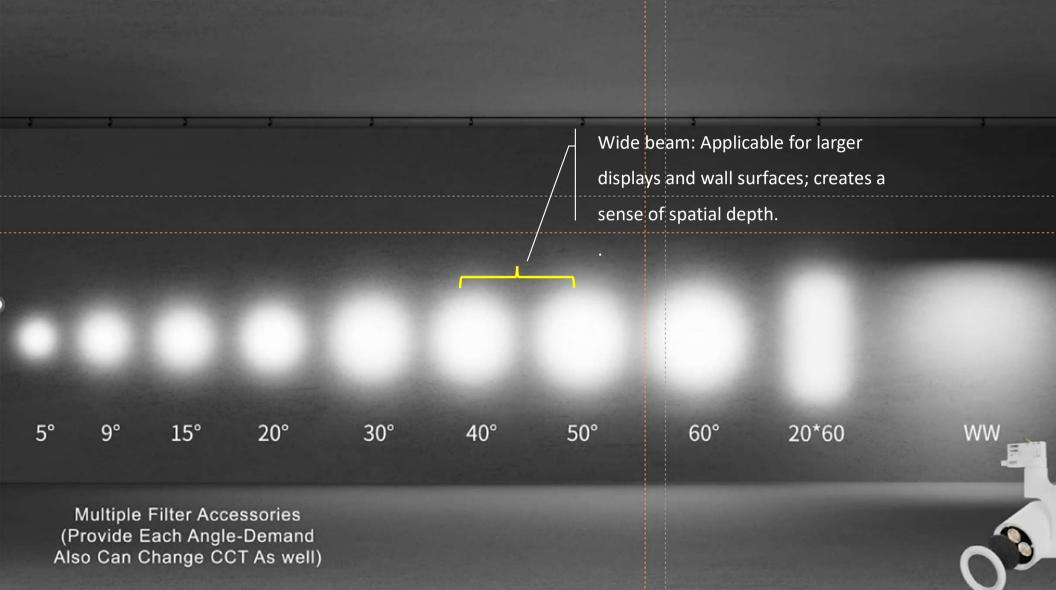
572-1 12°

S72-1, 15°- 68°

68°

To control the beam and focus on exhibited objects without light spiled.









S71-1, 40°

To control the beam and focus on exhibited objects without light spiled.

* S71-1 40 ° can be also suitable depending on the requirements.

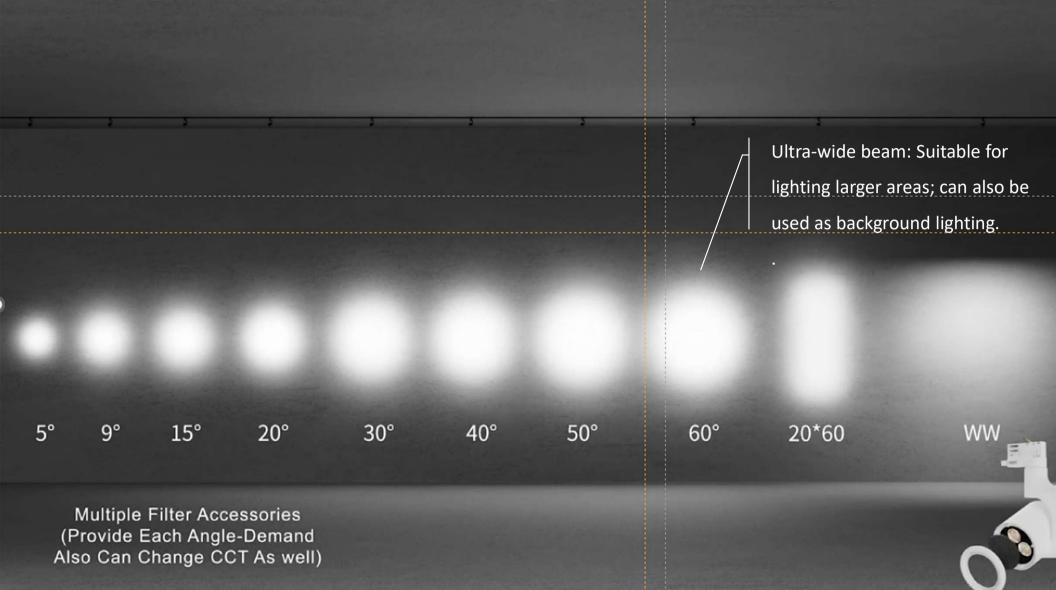


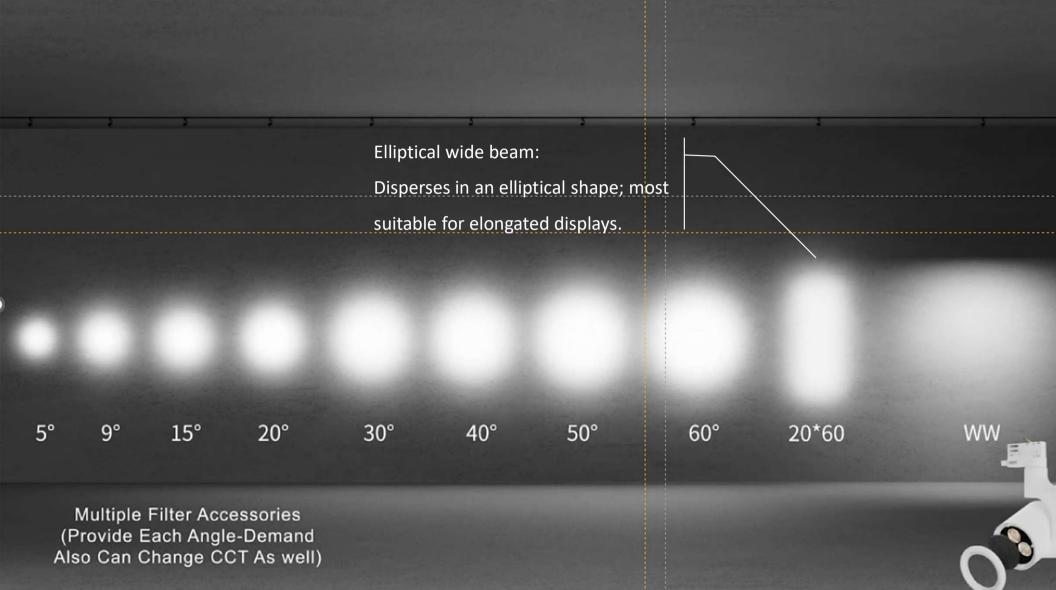


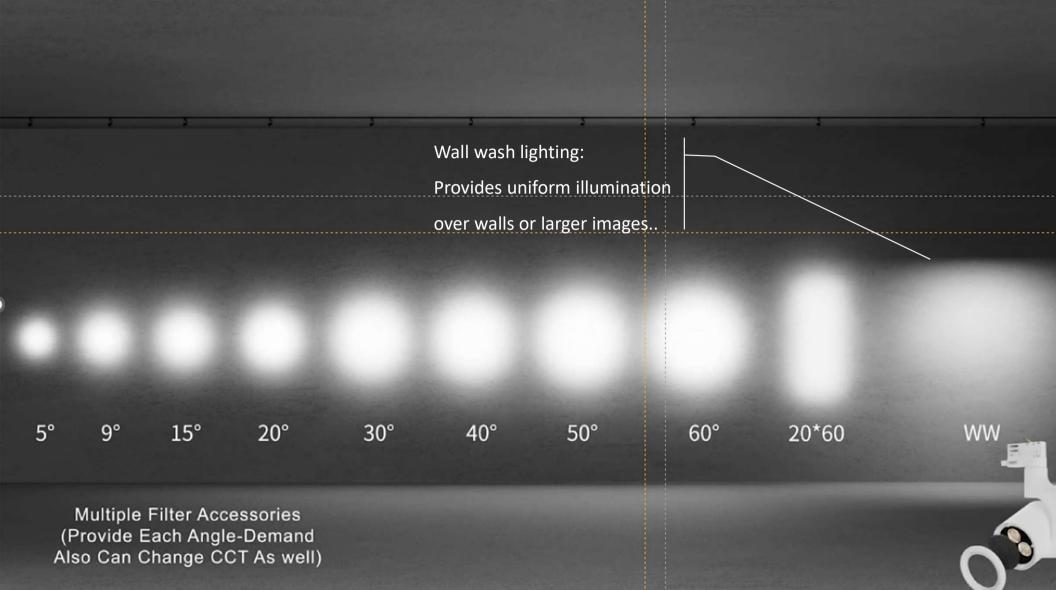
S71-1, 40°

To control the beam and focus on exhibited objects without light spiled.

* S71-1 40 ° can be also suitable depending on the requirements.











S71-1, 15°, 25°, 50°, Wallwash To control the beam and focus on exhibited objects without light spiled.





S71-1, 10°, 15°

To control the beam and focus on exhibited objects without light spiled.

Museum, Hunan China



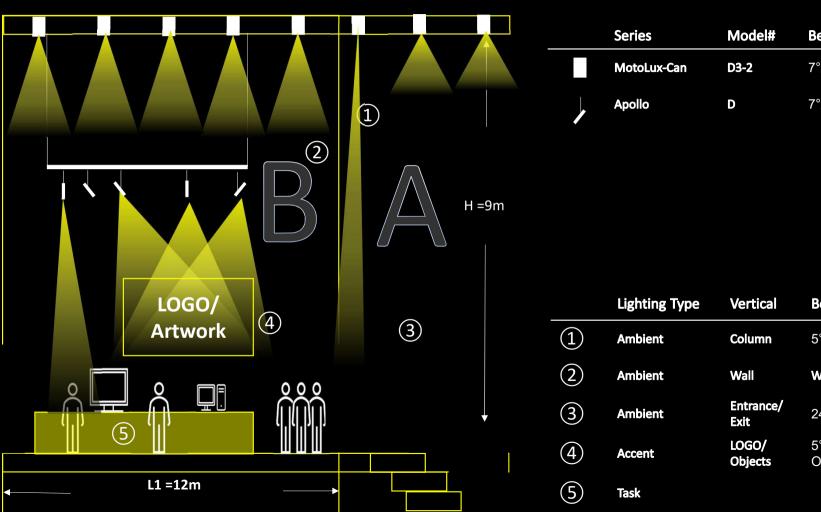


S71-1, Wallwash

To create uniform illumination as a combination of accent and ambient lighting

Museum, Hunan China

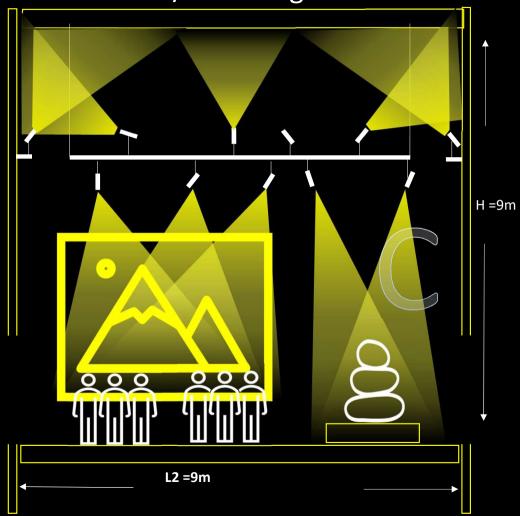
Entrance/ Reception



Series	Model#	Beam	Feature	Beam
MotoLux-Can	D3-2	7°/ 24°	Motorised	45°-70° flood
Apollo	D	7°/ 24°	Motorised	45°-70° flood

	Lighting Type	Vertical	Beam	Horizontal	Beam
1	Ambient	Column	5°-20°	Celling	45°-70° flood
2	Ambient	Wall	Wallwash	Pathway	12°-24°
3	Ambient	Entrance/ Exit	24°-45°	Entrance/ Exit	24°-45°
4	Accent	LOGO/ Objects	5°-40° Oval	Objects	5°-40° Oval
(5)	Task			Reception	15°-24° Oval

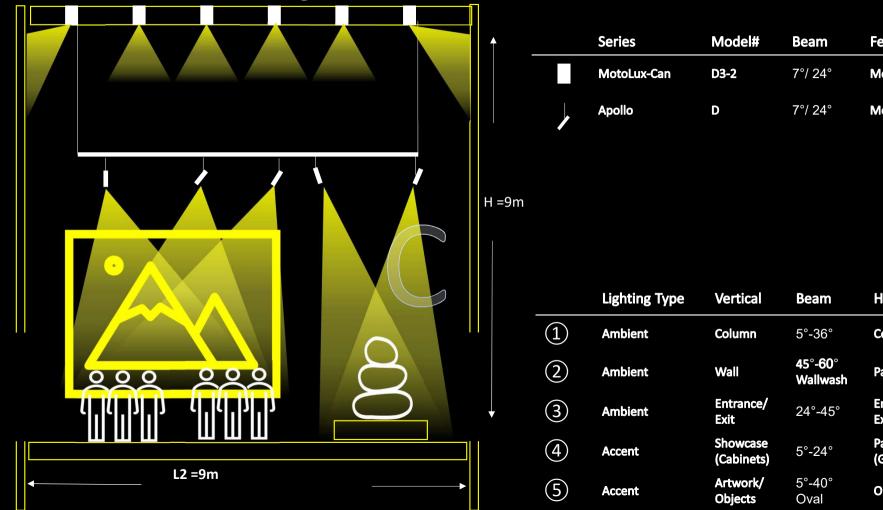
Feature Room/ Ultra-High Room



Series	Model#	Beam	Feature	Beam
MotoLux-Can	D3-2	7°/ 24°	Motorised	45°-70° flood
Apollo	D	7°/ 24°	Motorised	45°-70° flood

	Lighting Type	Vertical	Beam	Horizontal	Beam
1	Ambient	Column	12°-36°	Celling	45°-70°
2	Ambient	Wall	Wallwash	Pathway	12°-24°
3	Ambient	Entrance/ Exit	24°-45°	Entrance/ Exit	24°-45°
4	Accent	Showcase (Cabinets)	5°-24°	Pathway (Guide)	12°-24°
(5)	Accent	Artwork/ Objects	5°-40° Oval	Objects	5°-40° Oval

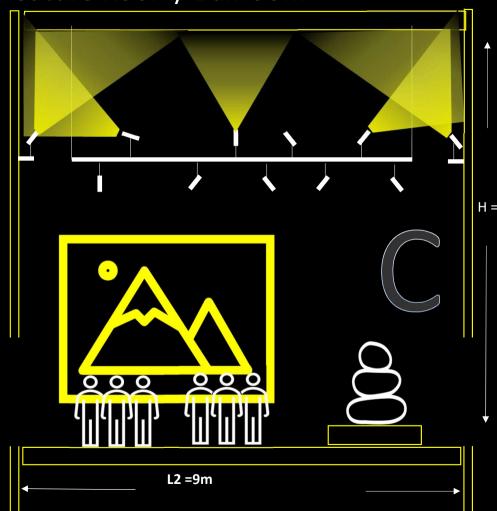
Feature Room/ Ultra-High Room



Series	Model#	Beam	Feature	Beam
MotoLux-Can	D3-2	7°/ 24°	Motorised	45°-70° flood
Apollo	D	7°/ 24°	Motorised	45°-70° flood

	Lighting Type	Vertical	Beam	Horizontal	Beam
1	Ambient	Column	5°-36°	Celling	45°-70°
2	Ambient	Wall	45°-60° Wallwash	Pathway	12°-24°
3	Ambient	Entrance/ Exit	24°-45°	Entrance/ Exit	24°-45°
4	Accent	Showcase (Cabinets)	5°-24°	Pathway (Guide)	12°-24°
(5)	Accent	Artwork/ Objects	5°-40° Oval	Objects	5°-40° Oval

Feature Room/ Ballroom



Series	Model#	Beam	Feature	Beam
MotoLux-Can	D3-2	7°/ 24°	Motorised	45°-70° flood
Apollo	D	7°/ 24°	Motorised	45°-70° flood

H =9m

	Lighting Type	Vertical	Beam	Horizontal	Beam
1	Ambient	Column	12°-36°	Celling	45°-70°
2	Ambient	Wall	Wallwash	Pathway	12°-24°
3	Ambient	Entrance/ Exit	24°-45°	Entrance/ Exit	24°-45°
4	Accent	Showcase (Cabinets)	5°-24°	Pathway (Guide)	12°-24°
(5)	Accent	Artwork	5°-40° Oval	Objects	5°-40° Oval

Flex in Lighting layers create- Accent Lighting





- FlexiRay-Ultra Spot, S70-1, 5° Beam, enables focus on small focal piece or create special visual effect.
- FlexiRay- Multi Beam is available in 10°, 15° 20°, 30°, 40°, 50°, 70°, 20°x 60°, and Asymmetrical wallwash

	Туре	Focal piece	Examples	Beam
1	Accent	Small Object	Jewelry	5°
2	Accent	Medium Object	Sculpture	10°-20°
3	Accent	Large Object	Painting	30°-60°
4	Accent	Extra-Large Object	Textiles	
(5)	Accent	Rectangular Object	Painting	20°x 60°





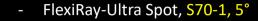
FlexiRay- Multi Beam is available in 10°, 15° 20°, 30°, 40°, 50°, 70°, 20°x 60°, and **Asymmetrical Wallwash**

FlexiRay-Zoom, gives 12°- 55° Beam

	Surface	Contrast Ratio	Contrast	Beam
1	Pathway	1:15		10°-20°
2	Entrance	1:5	Sculpture	20°-40°
3	Large Object	1:3	Painting	40°-60°
4	Feature wall	Painting	Textiles	Wallwash
(5)	Rectangular	1:3	Feature	20°x 60°

Flex in Lighting layers create





FlexiRay- Multi Beam: 10°, 15° 20°, 30°, 40°, 50°, 70°, 20°x 60°, Asymmetrical Wallwash

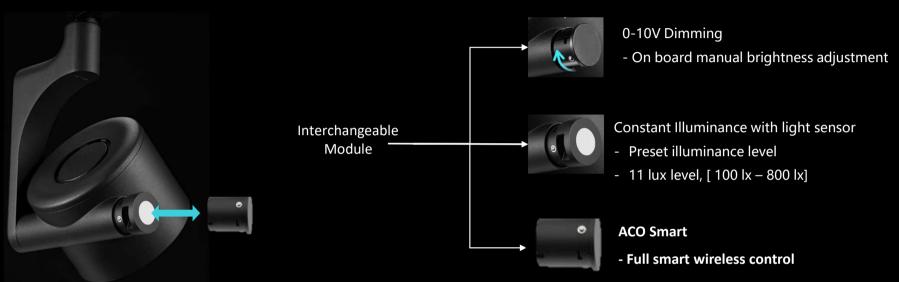
- FlexiRay-Zoom, 12°- 55°



	Туре	Focal piece	Examples	Beam
1)	Accent	Small Object	Small painting	5°
2	Accent	Medium Object	Sculpture	10°-20°
3	Accent	Large Object	Painting	30°-60°
4	Accent	Extra-Large Object	Textiles	
5	Accent	Rectangular Object	Painting	20°x 60°
6	Ambient	Entrance	Brightness	15°-45°
7)	Ambient	Feature Wall		Wallwash

Flex in Control Method

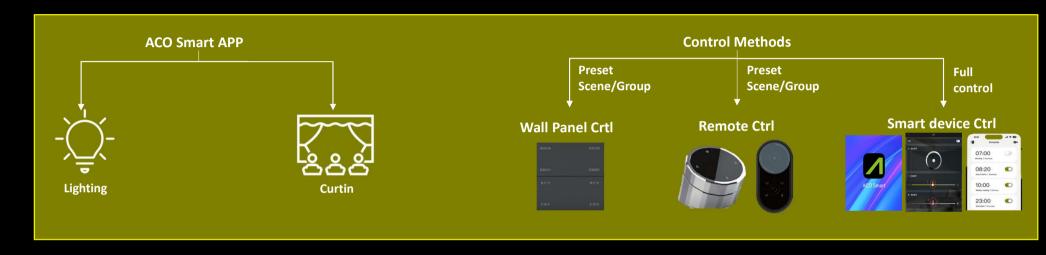


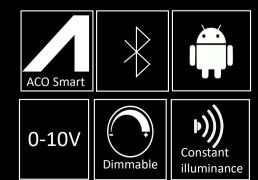


(*FlexRay- Zoom- S70-3 with Tunable feature)

	Interchangeable module			Function			
Control method	0-10V Dimming	Constant Illuminance	ACO Smart	ON/ OFF	Preset scenes	(*)CCT adjust	Brightness adjust
On-board manual	٧	Х	Х	Х	Χ	Х	٧
Wall mount panel	٧	٧	٧	٧	٧	٧	٧
Bluetooth Remote	X	Χ	٧	٧	√	٧	٧
Portable Device (APP)	X	X	٧	٧	√	√	√

General information- ACO Smart













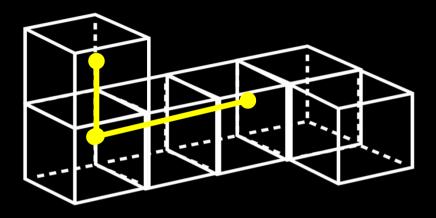








Design and control - ACO Smart



General Information:

- Distance between luminaires (node to node) ≤ 15 m *(need to consider the thickness of between floors or walls)
- 2. Total numbers of control luminaires/ curtain motor ≤ 200
- 3. Each luminaire can be grouped or individual among different scenes, regardless of floors, circuits, rooms, tracks.
- 4. Wireless control can be done by
 - a) Physical devices (Wall mount panel/Portable remote)
 - b) Smart devices (Tablet/Smart phone)

Bluetooth Wall mount control Panel

- 1. 8 preset scenes/ Click control
- Doesn't need to be installed in the same circuit
- 3. Preset scene needs to be set by ACO Smart APP

SAIM	FAIM

Bluetooth portable desktop remote control

- 1. 3 preset scenes/ Rotate/ click control
- 2. Group/ Individual control, CCT and brightness dimming
- 3. Doesn't need to be installed in the same circuit
- 4. Preset scene needs to be set by ACO Smart APP

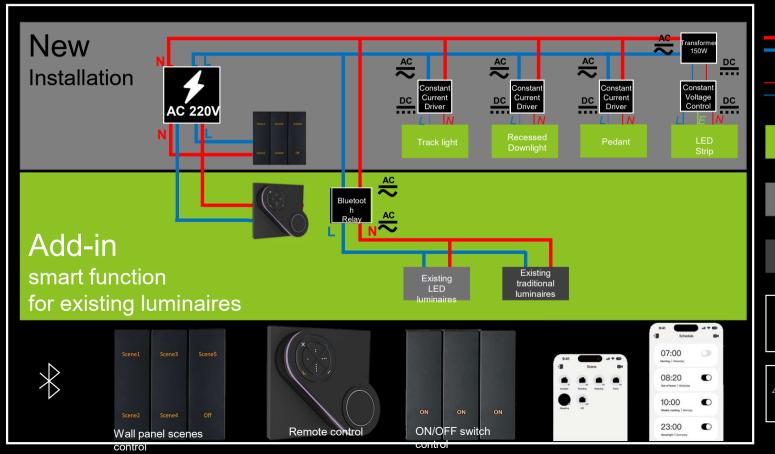


Bluetooth portable remote control

- 1. 4 preset scenes/ Click control
- 2. Group/Individual control, CCT and brightness dimming
- 3. Doesn't need to be installed in the same circuit
- 4. Preset scene needs to be set by ACO Smart APP



ACO Smart lighting framework



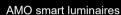




AC Wire: 1.5-2.0mm



DC Wire: 1.0-1.25mm





Existing traditional **luminaires**



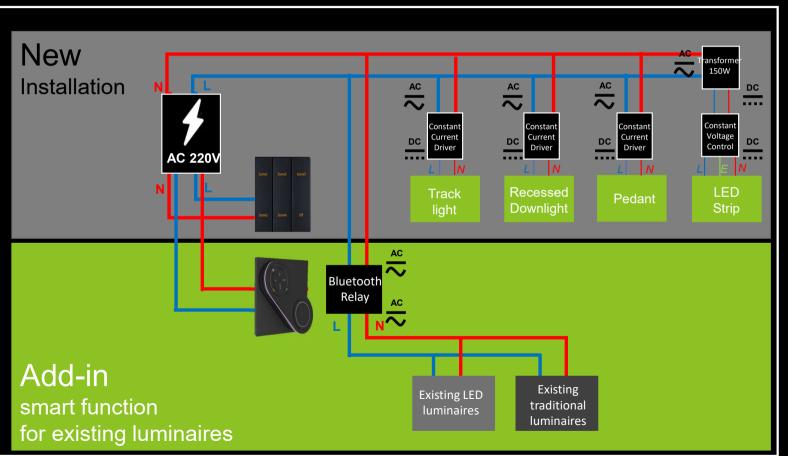
Bluetooth 5.0

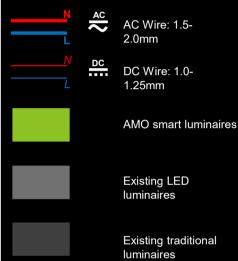


Bluetooth control protocol

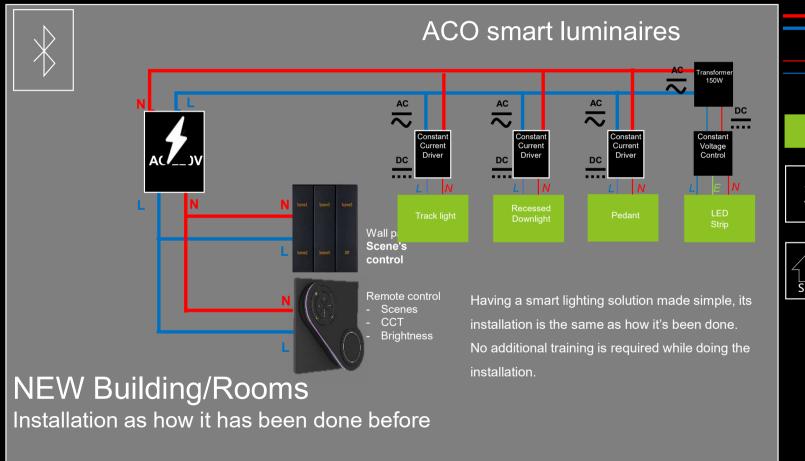
- Smart Phone/ Tablet
- Wall panel control
- Remote control

ACO Smart lighting framework- Existing luminaires replacement





ACO Smart lighting framework- New installation







AC Wire: 1.5-2.0mm



DC Wire: 1.0-1.25mm



AMO smart luminaires



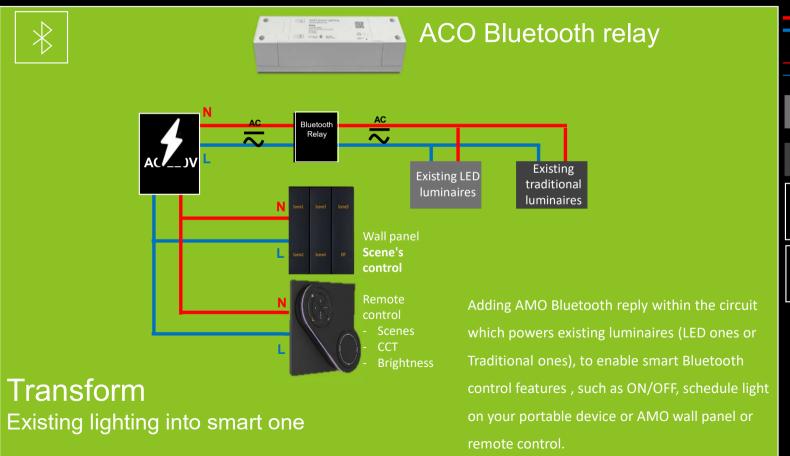
Bluetooth 5.0



Bluetooth control protocol

- Smart Phone/ Tablet
- Wall panel control
- Remote control

ACO Smart lighting framework





AC Wire: 1.5-2.0mm

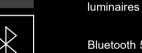


DC Wire: 1.0-



Existing traditional

1.25mm



Bluetooth 5.0



Bluetooth control protocol

- Smart Phone/ Tablet
- Wall panel control
- Remote control