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iFORTE®

PIONEERING A NEW ERA IN OUTDOOR LUMINAIRES WITH LED ENGINES

Traditional boundaries have always existed between indoor and IP-rated outdoor fixtures. IP-rated fixtures were always heavier and bulkier, often featuring less output. They were distinctly different.

Now, with game-changing technologies and a new, totally innovative approach, the IP65-rated iFORTE[®] negates the traditional weight penalty associated with IP-rated fixtures being only an incredible 1.5 kg heavier than the original, award winning, indoor FORTE[®].

Sharing the same form factor, size and appearance, feature set and identical performance of the FORTE[®], the ground-breaking iFORTE[®] enables seamless integration of both fixtures within the same show, even when rigged next to one another!

The ingenious ingress protection system has been specifically designed to allow standard maintenance and preparation procedures to reduce workshop time.

The new iSE-TE[™] TRANSFERABLE ENGINE technology maintains IP65 integrity, again needing no additional tools, with engine transfer capable of being conducted on-site for quick turnaround. Engine choices provide task flexibility.

Building on the tradition of renowned Robe ingenuity, the onboard RAINS[™] (Robe Automatic Ingress Neutralization System) manages humidity, temperature and pressure control. The active monitoring system automatically removes any moisture detected within the fixture.

Constant monitoring ensures peak performance. The patent pending system allows the fixture to run a self-contained pressure test to ensure protection integrity.

Their lightweight magnesium alloy covers, with aluminium alloy substructure, provide a dust-free environment for the optics, eliminating the need for frequent cleaning, routine maintenance, and UV damage to plastic parts.

To maintain consistently high lumen output, even with the rigours of outdoor performance, water, dirt, dust, haze, and smoke are repelled from the front lens with our unique parCoat[™] (particle resistant coating) hydrophobic and oleophobic coatings.

Removing the need for distracting pre-use pan and tilt calibration movement, our patent pending MAPS[™] (Motionless Absolute Positioning System) allows the fixture to fully calibrate while remaining static. Very useful when fixtures are located within confined spaces.

iFORTE® features a power saving mode with POLAR+™ technology, ensuring instant availability, even in extremely cold conditions.

By including NFC (Near-Field Communication) technology, setup, diagnostic and performance features are easily accessible, even without power, via your mobile device using the Robe Com app.

Of course, iFORTE[®] is fully compatible with our industry-leading RoboSpot[™] remote-controlled follow spot system.

iFORTE® will change the way you view and use high performance IP rated luminaires.

ROB







Robe's iSE-TE[™] – TRANSFERABLE ENGINE guides performance lighting into the great outdoors.

Our reputation for innovative design, hard-earned over nearly 30 years, is the result of asking questions, listening to customers, and repeatedly redefining the boundaries of technology.

We have the most forward-thinking engineers and designers in our industry. **TRANSFERABLE ENGINES** addressed the problem that white source LED engines do not last forever and vary in colour consistency over time. We then met the clamour to extend these to task-specific engines, such as the HCF (High Colour Fidelity) variant. Finally, we wanted to extend these engines and all their inherent advantages to our outdoor luminaires.

Exploiting the advantages of **TRANSFERABLE ENGINES** without introducing complicated procedures to handle the challenges of humidity and moisture, an intensive developmental process resulted in the IP65-rated iSE-TE[™] White LED engines for our iSERIES range of outdoor profiles- the iFORTE[®], iESPRITE[®] and iPAINTE[®]. With identical DMX maps and performance, similar weights and form factors, these **TRANSFERABLE ENGINE** equipped IP65 protected fixtures can be seamlessly interchanged with their indoor equivalents and be used together, even on the same truss, without consequence.

The IP65-rated **iSE-TE[™]** engines still enable easy, rapid engine exchange, data harvesting and source selection without compromising their protection, allowing engine changes in the field. To ensure the very best performance and consistency, they are again designed, developed, patented and manufactured within our factory in the Czech Republic.

Every Robe **iSE-TETM TRANSFERABLE ENGINE** has its own, unique, memory. All engine data stays with the engine, meaning when you transfer it to a new fixture, the data travels with it.

All data stored on the **iSE TRANSFERABLE ENGINE** is easily accessible through Near Field Communication (NFC) technology via the ROBE COM app. This provides direct access to the engine information. This includes engine type and serial number; full module installation history; intensity compared to initial performance; hours worked, and much more.







All data is available without powering the engine while sitting on your shelf, giving you the same instant accessibility. Furthermore, when the module is installed in a fixture, the data is available directly from the fixture display.

Our **ise transferable engines** are fast-changing, taking under 5 minutes. They require no special tools, complex procedures or return to workshop or agent. With no alignment or calibration needed you have a rapid "lamp-like" exchange.

Robe **iSE TRANSFERABLE ENGINES** are very economical, costing approximately twice the price of high-performance discharge lamps.

Combined with the advantages of LED, you now have the tools available to maintain a high level of light consistency across your inventory.

Transferable means a new engine at a lower cost, compared to a replacement engine at a far higher price. With no warranty or reduced LED lifetime issues, they carry a four-year 20.000-hour warranty.

Another benefit of the self-referencing engines is their ability, via our unique software, to give you a visual performance reference. Being able to quickly set the outputs to a consistent level, even while the fixtures are up in the rig, will save you a lot of time in the pressurised world of touring.

Robe fixtures utilising the **iSE TRANSFERABLE ENGINES** technology have been deliberately designed with built in capacity to take advantage of possible future LED engine development. This forethought, combined with their ease of transfer, will give you an even greater luminaire longevity.

In line with our stringent Green Policy, when the engines have reached the end of their life, we have the Robe **iSE TRANSFERABLE ENGINES** free return for recycling offer, making them very Eco-friendly.

The **iSE TRANSFERABLE ENGINES** concept pioneers a new era in IP-rated luminaires using white source LED engines. It gives you the ability to cost-effectively maintain a high level of quality light consistency across your inventory while ensuring the highest level of return on your investment.





Even the mighty need the right protection! With unique game-changing patented technology, you can shift the power outside, rain or shine, dust, smoke and haze, with the iFORTE®!

The most powerful member of the Robe iSeries, the IP65-rated iFORTE® combines far-reaching output and feature-rich effects in a fully protected package, capable of handling all the challenges of being outdoors.

iFORTE® negates the traditional weight penalty associated with IP-rated fixtures being only 1.5 kg heavier than the indoor FORTE®. With its class-leading form factor, size and appearance, and all the features and identical performance of the indoor original, iFORTE® enables seamless integration with each other, even on the same truss if desired!

The ingenious ingress protection system has been specifically designed to allow standard maintenance and preparation procedures, such as TRANSFERABLE ENGINE exchange and gobo replacement without any additional tools, as gobo change or maintenance work can be done on-site.

The onboard RAINS™ (Robe Automatic Ingress Neutralization System) manages humidity, temperature and pressure control using an active monitoring system to automatically remove any moisture detected within the fixture and provides constant monitoring

iFORTE® runs an ingenious Self Pressure Test to check internal pressure. This self-test, taking no more than 3 minutes, provides an error message if covers were not replaced correctly or locking screws were incorrectly tightened (Patent pending).

Their lightweight magnesium alloy covers, with aluminium alloy substructure, provide a dust-free environment for the optics, eliminating the need for frequent cleaning, routine maintenance, and UV damage to plastic parts.

To maintain consistently high lumen output, even with the rigours of outdoor performance, water, dirt, dust, haze, and smoke are repelled from the front lens with our unique parCoat™ hydrophobic, oleophobic resistant coating. Furthermore, it allows easy removal of deposits without scratching or damage.

By including NFC (Near-Field Communication) technology, you can access setup, diagnostic and performance features, even when the fixture is not powered, directly from your mobile device using the Robe Com app.

Outdoor fixtures need to operate in extreme cold. iFORTE® contains an innovative POLAR+TM technology - a special standby mode with low power consumption, in which the fixture's sensors and communications channels continue to function. When activated, POLAR+TM automatically maintains an internal temperature level, giving instant operability down to minus 50 degrees centigrade!

iFORTE[®] is available with a choice of patented IP65-rated iSE-TE™ 1.000W White LED TRANSFERABLE ENGINES; HP (High Performance) 6.700 K, 50.000 lm (Integrating sphere) CRI70; HCF (High Colour Fidelity) 6.000 K, 35.000 lm (Integrating sphere) CRI 96.

The identical 11:1 zoom optical system, with a 5.5° to 55° zoom range, provides all the flexibility you require.

Removing the need for distracting pre-use pan and tilt calibration movement, our patented MAPS™ (Motionless Absolute Positioning System) allows the fixture to fully calibrate while remaining static. Very useful when fixtures are located within confined spaces.

Our cutting-edge CMY colour mixing system provides beautifully smooth mixing and transitions. Combined with two colour wheels, CRI 80 and 90 filters (HP Engine), and a variable CTO from 3.000 - 6.700 K give iFORTE® total colour finesse.

With the patented Plano4TM four individual plane framing shutters, two fully indexable rotating gobo wheels, an animation wheel, two independent 6-facet prisms and two MagFrost 1° and 5° frosts, you have all the creative tools you need.

Keeping up with technological advances, we have incorporated Epass™ for maintaining network connectivity, and for television users, Cpulse™ is included for flicker-free management of HD and UHD camera systems together with ChromaTint™ direct green/magenta content control.

The iFORTE® FollowSpot is equipped with a full HD digital camera mounted on the head, again with parCoat™ lens protection. The IP65-rated camera features 32x optical and 32x digital zooms and is suitable for light levels down to 0.05 lux. It connects to the industry-leading RoboSpot™ BaseStation for remote-controlled follow spot operation.

iFORTE® and iFORTE® FS - Robe reliability in all weathers.



Source

- Light source type: iSE-TE[™] 1.000W HP White LED Engine (Patented)
 - HP High Performance Engine for maximum light output and optimal colour characteristics
 - LED Engine output: 82.000 lm
 - Fixture total lumen output:
 - 50.000 lm (integrated sphere) 40.000 lm (goniophotometer)
 - Colour temperature output: 6.700K
 - CRI: 70, remotely selectable filters for CRI 80 and CRI 90 Illuminance: 113.000 lx @ 5 m
- Light source type: iSE-TE[™] 1.000W HCF White LED Engine (Patented)
 - HCF High Colour Fidelity Engine for the best light quality and colour rendition
 - LED Engine output: 55.000 lm
 - Fixture total lumen output: 35.000 lm (integrated sphere)
- 28.000 lm (goniophotometer)
- Colour temperature output: 6.000K CRI: 96, TLCI: 91, TM-30-18 Rf: 90, TM-30-18 Rg: 98
- Illuminance: 78.000 lx @ 5 m
- LED life expectancy: min. 50.000 hours
- Typical lumen maintenance: L70/B50 @ 50.000 hours
- Light source warranty: 4 years or 20.000 hours

Optical System

- Robe's proprietary optical design
- High-efficiency 13-lens zoom optical system, ratio: 11:1 Zoom range: 5° - 55°
- Output lens diameter: 180 mm
- parCoat[™] (particle resistant coating) unique hydrophobic and oleophobic coating helps prevent water, dirt, dust, haze and smoke from adhering to the output lens

Dvnamic Effects and eatures

- Cyan: 0 100% Magenta: 0 - 100%
- Yellow: 0 100%
- Variable CTO: 3.000K 6.700K ChromaTint™ Patented plus / minus green correction function
- Colour Wheel 1: 5 fixed dichroic colours+ white
- Colour Wheel 2: 5 fixed dichroic colours + white Framing shutters: Patented Plano4™ framing shutters
- module with 4 individually positionable blades plus rotation of the complete frame system + - 60°
- Rotating gobo wheel 1: 6 rotating, indexable and replaceable breakup and aerial gobos + open, patented slot & lock system
- Rotating gobo wheel 2: 6 rotating, indexable and replaceable breakup and aerial gobos + open, patented slot & lock system

- Animation wheel: Aluminium animation wheel, used alone or in combination with gobos, rotating in both directions at
- be "stacked" while retaining individual speed and direction control. With variable shape and size it creates unlimited dynamic, multi-level flower and beam effects.
- Prism 1: Independent 6 facet linear prism rotating in both directions at variable speed

- Prism 2: Independent 6 facet circular prism rotating in both

- directions at variable speed
- MagFrost[™] magnetic paddle fast change system providing exchangeable frosts containing as standard a very light 1° for instant softening of the projected gobo or framing shutters, and a medium 5° for even wash, both specifically selected for theatre and TV use
- Hot-Spot: From flat field to 6:1 hot-spot (optional)
- Iris: Motorized, stepless, pulse effects up to 3 Hz
- Motorized zoom and focus
- Electronic strobe effect with variable speed up to 20 Hz, pre-programmed random strobe & pulse effects
- High resolution electronic dimming: 0 100%
 - L3[™] (Low Light Linearity) Imperceptible 18 bit dimming for ultra smooth fade to black
 - Extremely quiet operation suitable for all types of production in Theatre and TV

- variable speed $\mathsf{MLP^{\text{TM}}}$ Patented Multi-Level Prisms allow multiple prisms to

- Cpulse[™] special flicker-free management for HD and UHD cameras, ready for 8K and 16K AirLOC[™] - (Less Optical Cleaning) technology greatly
- reduces the level of airborne particles drawn over the optical elements. This increases the overall performance, light quality and time between routine cleaning and maintenance.
- POLAR+[™] for power saving and instant operation in extremely cold weather conditions

Control and Programming

- Setting & Addressing: ROBE Navigation System 2 (RNS2) Display: QVGA Robe touch screen with battery backup, gravitation sensor for auto screen positioning, operation memory service log with RTC, stand-alone operation with 3 editable programs (each up to 100 steps), built-in analyser for easy fault finding, NFC app controller
- Protocols: USITT DMX-512, RDM, ArtNet, MA Net, MA Net2, SACN REAP™
- Robe Ethernet Access Portal
- Wireless CRMX[™] technology from Lumen Radio Epass[™] Ethernet pass through switch which sustains Ethernet integrity, when the fixture has no power, to automatically maintain network connectivity
- RAINS[™] (Robe Automatic Ingress Neutralization System) manages humidity, temperature and pressure control using an active monitoring system to automatically remove any moisture detected within the fixture and provides constant monitoring to ensure peak performance DMX Protocol modes: 2
- Control channels: 54, 56
- Pan & Tilt resolution: 16 bit
- CMY & CTO: 8 bit
- Colour wheel positioning: 16 bit
- Framing shutters module movement & rotation: 8 bit Rotating gobo wheel positioning: 8 bit
- Gobo indexing & rotation: 16 bit
- Animation wheel: 8 bit
- Animation wheel rotation: 8 bit
- Iris: 16 bit
- Frost: 8 bit
- Zoom: 16 bit
- Focus: 16 bit
- Dimmer: 16 bit (internal 18 bit)

Movement

- Pan movement: 540°
- Tilt movement: 270°
- Movement control: Standard and Speed Controllable speed of Pan & Tilt movement
- EMS[™] Electronic Motion Stabilizer system for Pan & Tilt reducing beam deviation caused by truss movement or vibration (Patented)
- MAPS[™] Motionless absolute positioning system for Pan & Tilt (Patented)
- Automatic Pan & Tilt position correction

<u>Rotating Gobos</u>

- 12x fully rotating, indexable glass gobos on two wheels
- Outside diameter: 30.8 mm
- Image diameter: 25.0 mm
- Thickness: 1.1 mm
- Max. thickness: 3.5 mm High temperature borofloat or better glass
- Patented slot & lock system for easy replacement of gobos

Effect Wheel

- Single animation wheel
- Material: Aluminium
- Diameter: 112 mm
- Can be used alone or in combination with rotating gobos
- Rotating in both directions at variable speed

Camera - iforte fs

- Type: XNZ-L6320A
- Resolution: 1920 x 1080, 16:9 Full HD (1080p) resolution support
- Zoom: 32x optical zoom 32x digital zoom
- Vision: Day & Night (ICR), WDR (120dB), Defog
- Streaming: H.265, H.264, MJPEG Codec, Multiple streaming Minimum illumination: 0.05 lux
- parCoat[™] (particle resistant coating) unique hydrophobic and oleophobic coating helps prevent water, dirt, dust, haze

and smoke from adhering to the output lens

<u>Framing Shutters System</u>

- Patented Plano4[™] framing shutters module Shutters: 4 Blades, each with separate movement and +- 25° rotation control
- Movement: Smooth with variable speed, ultra-fast for creating mid-air effects
- Rotation: +- 60° of the complete framing system

Thermal Specification

- Maximum ambient temperature: 50 °C (122 °F) Maximum surface temperature: 80 °C (176 °F)
- Minimum operating temperature: -50 °C (-58 °F)
- Total heat dissipation: max. 3.200 BTU/h (calculated)

Noise Levels

- Sound pressure level: 22 dB(A) at 1 m (Super quiet mode) 38 dB(A) at 1 m (quiet mode) 42 dB(A) at 1 m (auto mode) 49 dB(A) at 1 m (high mode)
- Sound power level: 30 dB(A) (Super quiet mode) 46 dB(A) (quiet mode)
 - 50 dB(A) (auto mode) 57 dB(A) (High mode)

Electrical Specification

and Connections

- Power supply: Electronic auto-ranging
- Input voltage range: 100-240 V, 50/60 Hz
- Power consumption: max. 1250 W
- Power connector in: IP65 Neutrik powerCON TRUE1 DMX and RDM data in/out: IP65 Locking 5-pin XLR
- connectors
- Ethernet port in: IP65 RJ45 connector
- Ethernet port out: IP65 RJ45 camera video output Ethernet port in/out: RJ45, for Embedded Epass™ switch 10/100 Mbps

<u>Approvals</u>

- CE Compliant
- cETLus Compliant

Mechanical Specification Height: 837 mm (32.96") - head in vertical position

- Width: 480 mm (18.89")
- Depth: 335 mm (13.1") head in vertical position Weight: iFORTE 42.5 kg (93.7 lbs)
- iFORTE FS 43.8 kg (96.5 lbs) Ingress protection rating: IP65

Rigging

- Mounting positions: 0°, 32°, 90°
- Universal operating position
- Mounting points: 5 pairs of 1/4-turn locking points
- 2x Omega adaptors with 1/4-turn quick locks Safety cable attachment point
- Pan & Tilt transport locks

Included Items

User Manual

- Omega Adaptor CL-regular 2 pcs Power cord including powerCON TRUE1 In connector : US:13052277-01
- EU:13052276-01
- Camera for iFORTE® FS



Animation Wheel

The new aluminium animation wheel (Ø 112 mm) can be used alone or in combination with gobos. The animation wheel is rotating in both directions at variable speed.

Optional Accessories

iForte iSE-TE[™] 1.000W HP White LED Engine: 14080081 iForte iSE-TE[™] 1.000W HCF White LED Engine: 14080082

iFORTE® is Registered Trademark of Robe lighting s. r. o.

lighting s. r. o. and protected by one or more pending or

RS

iFORTE® Profile and iFORTE® FS are patented by Robe

- Frost 0.5° (exchange) assembled: 10980581

Frost 10° (exchange) assembled: 10980556

Frost 20° (exchange) assembled: 10980577 Frost 30° (exchange) assembled: 10980572 Hot-Spot lens in gobo holder: 10980557

Doughty Trigger Clamp: 17030386

Safety wire 50 kg: 99011957 Single Top Loader Case: 10120295-02 Dual Top Loader Case: 10120296-02

Foam Shell: 20020439-02

issued patents

Ι egal

Frost 1° (exchange) assembled: 10980564 Frost 3.5° (exchange) assembled: 10981037 Frost 5° (exchange) assembled: 10980565



Framing Shutters Module

iFORTE[®] uses Robe's Plano4[™] patented system of four, fast, smooth moving, shutter blades, which can be individually angled and positioned. The whole module assembly can further rotate +- 60 degrees. Thanks to the unique design, all four blades can be focused at the same time and can be further softened by applying a light 1° frost giving the edges soft diffusion essential in TV and Theatres. Shutters are precisely calibrated in the factory to ensure maximum accuracy and repeatability of programmed framing shapes.



Impressive Aerial and Graphic Effects

iFORTE[®] will excite you with unlimited possibilities for animations and mid–air effects thanks to two gobo wheels with carefully selected break-up and aerial gobos, which can be further combined with a 6-facet circular or 6-facet linear rotating prism or with both, with animation wheel, split colours and a special multi-colour filter.

By using these features, you will achieve eye-catching animations and effects like clouds, rain, water, fire and more abstract morphing images.



Photometric report

Beam angle 5° - Min. zoom - CRI 70



Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

Distance	5 m	10 m	15 m	20 m	30 m	40 m	50 m	Total lumens
High Fan Mode	113713/10564	28428/2641	12635/1174	7107/660	3159/293	1777/165	1137/106	16221
Auto Fan Mode	111735/10381	27934/2595	12415/1153	6983/649	3104/288	1746/162	1117/104	15939
Quiet Fan Mode	80621/7490	20155/1872	8958/832	5039/468	2239/208	1260/117	806/75	11301





Light distribution



Color temperature	ССТ	6368
Color Deviation from Black	Duv	-0.0047
Color Coordinate CIE 1921	x	0.3166
Color Coordinate CIE 1731	У	0.3177
Color Coordinate	u	0.2049
	v	0.3085

Color rendering index	CRI	70
Red component	CRI R9	-20
Color fidelity	TM30 Rf	68
Color gamut	TM30 Rg	95
Television consistency Index	TLCI	41



Photometric report

Beam angle 5° - Min. zoom - CRI 80



Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

Distance	5 m	10 m	15 m	20 m	30 m	40 m	50 m	Total lumens
High Fan Mode	89955/8357	22489/2089	9995/929	5622/522	2499/232	1406/131	900/84	12832
Auto Fan Mode	88391/8212	22098/2053	9821/912	5524/513	2455/228	1381/128	884/82	12609
Quiet Fan Mode	63777/5925	15944/1481	7086/658	3986/370	1772/165	997/93	638/59	8940





Light distribution



Color temperature	ССТ	6357
Color Deviation from Black	Duv	-0.0045
Color Coordinate CIE 1921	x	0.3167
	У	0.3182
Color Coordinata	u	0.2048
Color Coordinate	v	0.3087

Color rendering index	CRI	78
Red component	CRI R9	10
Color fidelity	TM30 Rf	75
Color gamut	TM30 Rg	101
Television consistency Index	TLCI	58



Photometric report

Beam angle 5° - Min. zoom - CRI 90



Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

Distance	5 m	10 m	15 m	20 m	30 m	40 m	50 m	Total lumens
High Fan Mode	79854/7419	19964/1855	8873/824	4991/464	2218/206	1248/116	799/74	11391
Auto Fan Mode	78465/7290	19616/1822	8718/810	4904/456	2180/202	1226/114	785/73	11193
Quiet Fan Mode	56615/5260	14154/1315	6291/584	3538/329	1573/146	885/82	566/53	7936





Light distribution



Color temperature	ССТ	5990
Color Deviation from Black	Duv	0.0028
Color Coordinate CIE 1931	x	0.3219
Color Coordinate CIE 1731	У	0.3371
Color Coordinate	u	0.2011
Color Coordinate	v	0.3160

Color rendering index	CRI	83
Red component	CRI R9	33
Color fidelity	TM30 Rf	82
Color gamut	TM30 Rg	102
Television consistency Index	TLCI	74



Photometric report

Field angle 55° - Max. zoom - CRI 70



Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

Distance	5 m	10 m	15 m	20 m	30 m	40 m	50 m	Total lumens
High Fan Mode	2326/216.1	581.5/54	258.4/24	145.4/13.5	64.6/6	36.3/3.4	23.3/2.2	40444
Auto Fan Mode	2298/213.5	574.5/53.4	255.3/23.7	143.6/13.3	63.8/5.9	35.9/3.3	23/2.1	39957
Quiet Fan Mode	1453/135	363.3/33.7	161.4/15	90.8/8.4	40.4/3.7	22.7/2.1	14.5/1.3	24960





Light distribution



Color temperature	ССТ	6382
Color Deviation from Black	Duv	-0.0054
Color Coordinate CIE 1931	x	0.3165
Color Coordinate CIE 1731	У	0.3163
Color Coordinato	u	0.2054
	v	0.3080

Color rendering index	CRI	70
Red component	CRI R9	-20
Color fidelity	TM30 Rf	67
Color gamut	TM30 Rg	95
Television consistency Index	TLCI	40



Photometric report

Field angle 55° - Max. zoom - CRI 80



Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

Distance	5 m	10 m	15 m	20 m	30 m	40 m	50 m	Total lumens
High Fan Mode	1800/167.2	450/41.8	200/18.6	112.5/10.5	50/4.6	28.1/2.6	18/1.7	31305
Auto Fan Mode	1779/165.3	444.8/41.3	197.7/18.4	111.2/10.3	49.4/4.6	27.8/2.6	17.8/1.7	30940
Quiet Fan Mode	1125/104.5	281.3/26.1	125/11.6	70.3/6.5	31.3/2.9	17.6/1.6	11.3/1	19338





Light distribution



Color temperature	ССТ	6590
Color Deviation from Black	Duv	-0.0085
Color Coordinate CIE 1931	x	0.3142
	У	0.3086
Color Coordinate	u	0.2069
Color Coordinate	v	0.3048

Color rendering index	CRI	79
Red component	CRI R9	13
Color fidelity	TM30 Rf	74
Color gamut	TM30 Rg	102
Television consistency Index	TLCI	55



Photometric report

Field angle 55° - Max. zoom - CRI 90



Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

Distance	5 m	10 m	15 m	20 m	30 m	40 m	50 m	Total lumens
High Fan Mode	1556/144.6	389/36.1	172.9/16.1	97.3/9	43.2/4	24.3/2.3	15.6/1.4	27060
Auto Fan Mode	1538/142.9	384.5/35.7	170.9/15.9	96.1/8.9	42.7/4	24/2.2	15.4/1.4	26747
Quiet Fan Mode	972/90.3	243/22.6	108/10	60.8/5.6	27/2.5	15.2/1.4	9.7/0.9	16708





Light distribution



Color temperature	ССТ	6195
Color Deviation from Black	Duv	-0.0046
Color Coordinate CIE 1931	x	0.3193
	У	0.3206
Color Coordinate	u	0.2057
Color Coordinate	v	0.3098

Color rendering index	CRI	85
Red component	CRI R9	42
Color fidelity	TM30 Rf	81
Color gamut	TM30 Rg	105
Television consistency Index	TLCI	70



iFORTE HCF

Photometric report

Beam angle 5° - Min. zoom



Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

Distance	5 m	10 m	15 m	20 m	30 m	40 m	50 m	Total lumens
High Fan Mode	78200/7265	19550/1816	8689/807	4888/454	2172/202	1222/114	782/73	11471
Auto Fan Mode	76840/7139	19210/1785	8538/793	4803/446	2134/198	1201/112	768/71	11353
Quiet Fan Mode	56425/5242	14106/1311	6269/582	3527/328	1567/146	882/82	564/52	8337





Light distribution



Color temperature	ССТ	5654
Color Deviation from Black	Duv	0.0011
Color Coordinate CIE 1931	x	0.3290
Color Coordinate CIE 1731	У	0.3402
Color Coordinate	u	0.2048
Color Coordinate	v	0.3177

Color rendering index	CRI	96
Red component	CRI R9	87
Color fidelity	TM30 Rf	92
Color gamut	TM30 Rg	99
Television consistency Index	TLCI	96



iFORTE HCF

Photometric report

Beam angle 55° - Max. zoom



Center beam intensity [lx]/[fcd]; Total lumen output [lm] measured by goniophotometer

Distance	5 m	10 m	15 m	20 m	30 m	40 m	50 m	Total lumens
High Fan Mode	1714/159	429/40	190/18	107/10	48/4.4	27/2.5	17/1.6	27613
Auto Fan Mode	1693/157	423/39	188/17	106/10	47/4.4	26/2.5	17/1.6	27330
Quiet Fan Mode	1083/101	271/25	120/11	68/6	30/2.8	17/1.6	11/1	17481





Light distribution



Color temperature	ССТ	5668
Color Deviation from Black	Duv	0.0023
Color Coordinate CIE 1931	x	0.3286
Color Coordinate CIE 1731	У	0.3423
Color Coordinata	u	0.2038
Color Coordinate	v	0.3184

Color rendering index	CRI	96
Red component	CRI R9	87
Color fidelity	TM30 Rf	92
Color gamut	TM30 Rg	99
Television consistency Index	TLCI	97



iFORTE[®]























IFORTE FS







3

















<u>Hot-Spot</u>

iFORTE[®] produces a beautifully even, flat field of light. Whilst ideal for most applications, the perfect field makes it difficult to achieve smooth, continuous washes of light when the beam edges of multiple fixtures are overlapped.

By introducing our unique, patented, 6:1 ratio Hot-Spot lens, we can alter the field characteristics creating a centre weighted, peaked beam. With the addition of the frost filter, you can now effortlessly achieve silky smooth washes. This exclusive lens further enhances the feature rich iFORTE[®], making it the most versatile outdoor fixture available.









Flat field beams with Frost





Hot-Spot beams without Frost





Hot-Spot beams with Frost





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