

# FLIGHT-T54

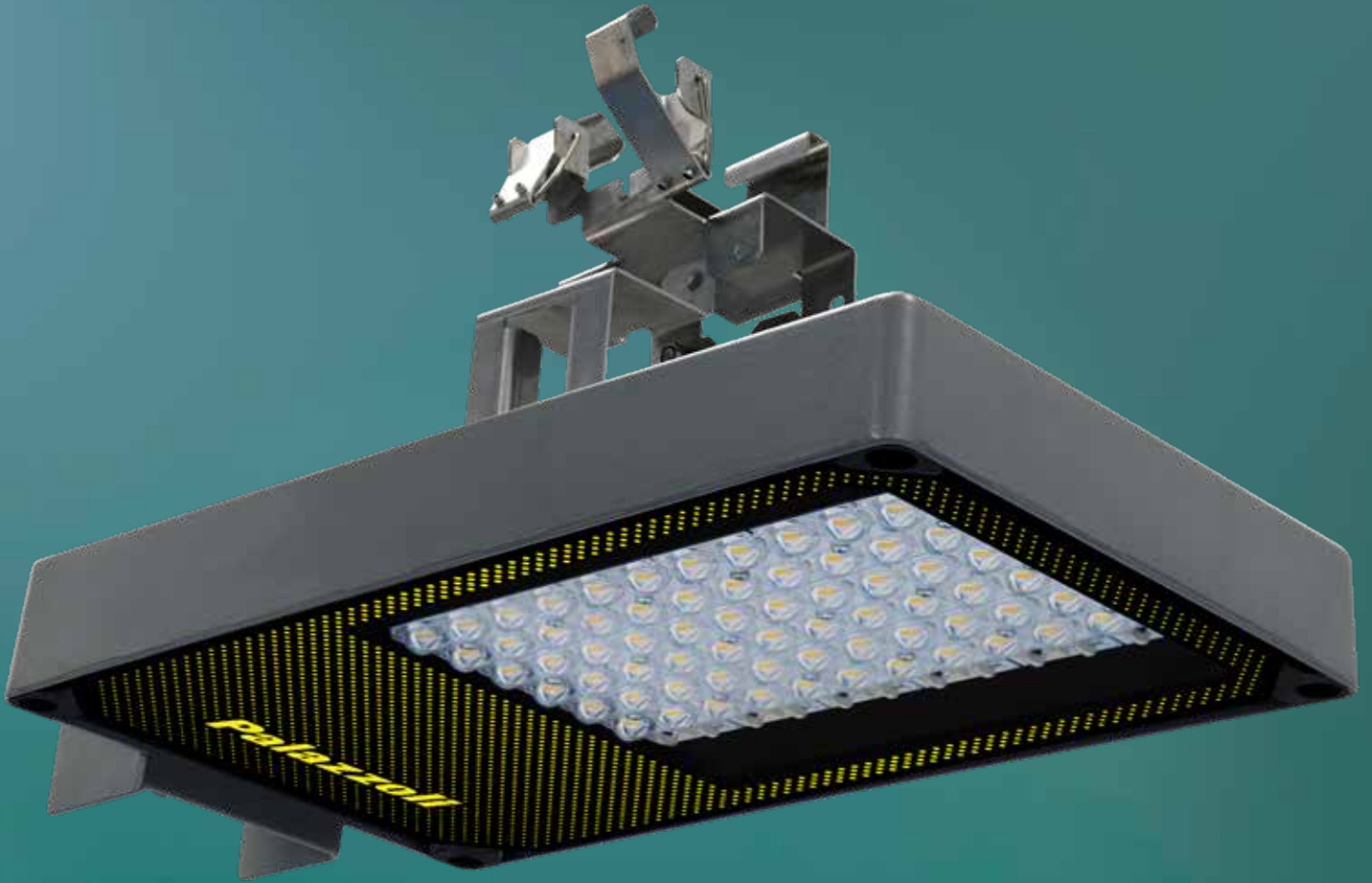
Tunnel lighting  
4600 lm to 30000 lm



LIGHTING

***Palazzoli***  
LUCE D'AUTORE

# FLIGHT-T54



## The series

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New fixtures for tunnel lighting feature a body made through die-casting in EN44300 aluminum alloy, with very low copper content and anti-corrosion treatment to ensure maximum resistance. The electronic assembly of these fixtures is equipped with proprietary LED modules, protected against short circuits, overvoltages, and overtemperatures. The FLIGHT-T54 range is available with reflectors in 99.9% pure aluminum or with PMMA lenses with over 95% transparency. This flexibility allows the range to offer a wide selection of optics. These fixtures come with a diffuser made of 4mm thick extra-clear flat tempered glass, resistant to impacts and UV rays. Regarding installation, FLIGHT-T54 can be equipped with brackets that allow for quick attachment to the channel. Finally, it is important to emphasize that FLIGHT-T54 can be controlled through radio frequency systems, line current, or DALI.



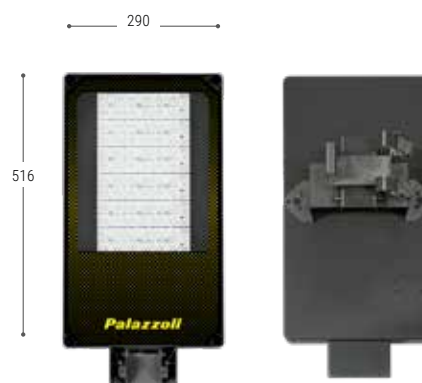
### FLIGHT T-54 S

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### FLIGHT T-54 M

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# The range

**FLIGHT-T54 SIZE S**  
floodlights



**FLIGHT-T54 SIZE M**  
floodlights

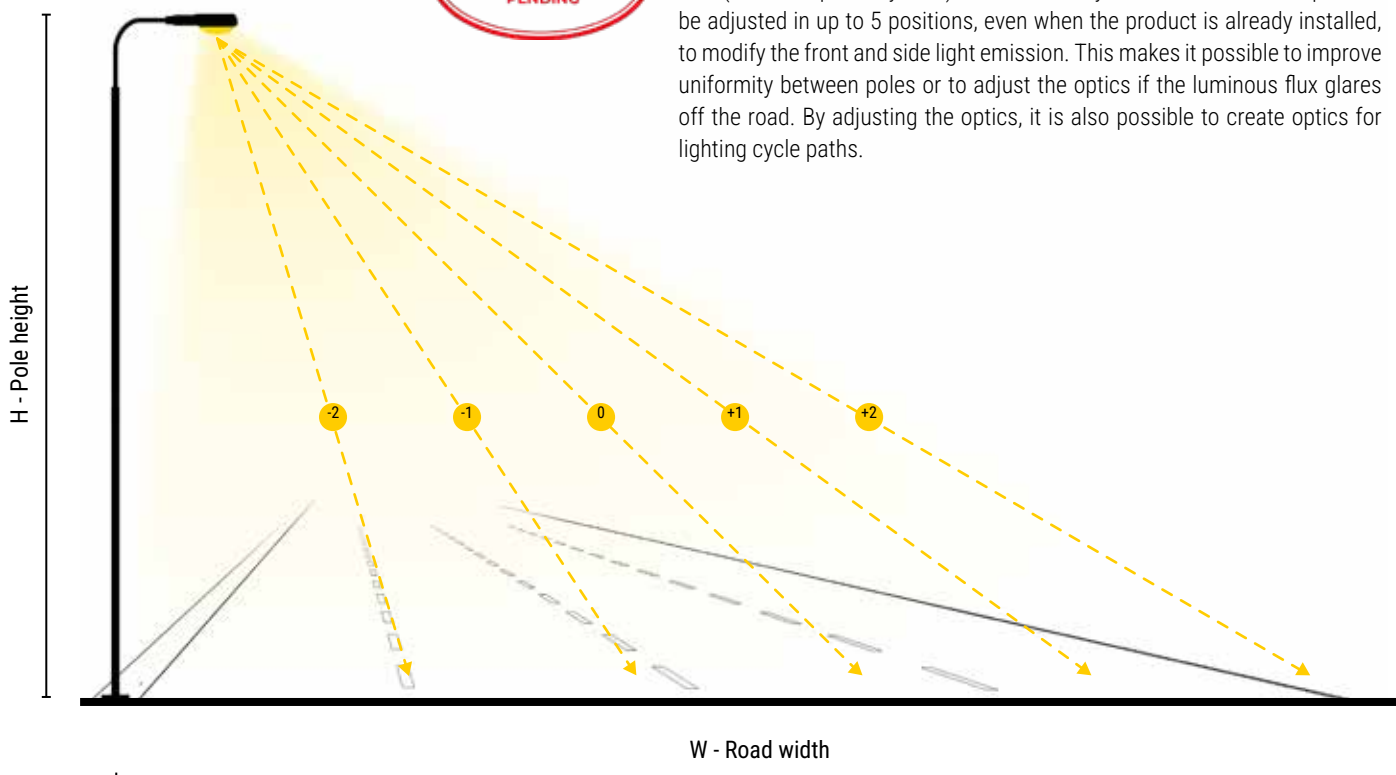


<b>Nominal flux</b>	5520 lm to 12044 lm	17820 lm to 35112 lm
<b>Output flux</b>	4600 lm to 10037 lm	14850 lm to 29260 lm
<b>Power</b>	up to 66 W	up to 220 W
<b>Efficacy</b>	up to 165 lm/W	up to 135 lm/W
<b>Control systems</b>	On - off (dimnable upon request through various standards)	On - off (dimnable upon request through various standards)
<b>Versions</b>	Standard	Standard
<b>Optics</b>	Permanent asymmetrical PA5 Permanent asymmetrical STR-ST Permanent asymmetrical STR-AM	Asymmetric diffusing reinforcement 50° Asymmetric concentrating reinforcement 55° Symmetric reinforcement 65°



## FOS - FLIGHT Optical System

FOS (FLIGHT Optical System) is Palazzoli's system that allows the optics to be adjusted in up to 5 positions, even when the product is already installed, to modify the front and side light emission. This makes it possible to improve uniformity between poles or to adjust the optics if the luminous flux glares off the road. By adjusting the optics, it is also possible to create optics for lighting cycle paths.



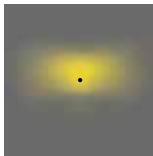
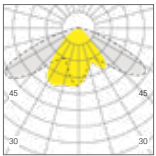
The FLIGHT range with reflectors in pure 99.9% aluminum and PVD coating in silver



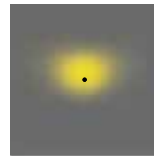
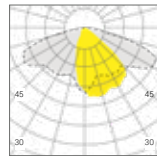
The FLIGHT range with PMMA lenses, anti-aging, UV-resistant, with efficiency >90% and transparency >95%



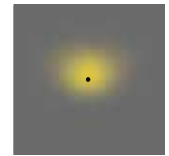
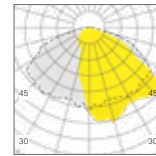
## Optics



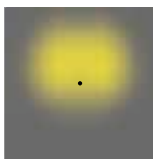
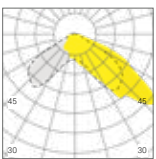
Permanent asymmetrical PA5



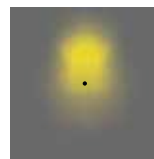
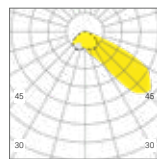
Permanent asymmetrical STR-ST



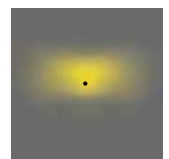
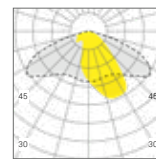
Permanent asymmetrical STR-AM



Asymmetric diffusing reinforcement 50°



Asymmetric concentrating reinforcement 55°



Symmetric reinforcement 65°







# Tunnels

Road and motorway tunnels



# FLIGHT-T54



Body material	<b>Low-copper aluminium alloy EN 44300</b>
Surface treatment	<b>Fluorozirconate passivation</b>
Surface finish	<b>Non-toxic polyester, anti UV, kilnpolymerised coating</b>
Colour	<b>Grey RAL 7011</b>
Diffuser material	<b>Extra clear tempered glass</b>
Protection rating	<b>IP66 as per IEC 60079-0 and 60598-1</b>
Impact resistance	<b>IK08 according to IEC 62262</b>
Corrosion class	<b>C5-M / C4-H (ISO 9223)</b>
Mounting system	<b>Designed to accommodate supports for attachment to the channel</b>
Ambient operating temperature	<b>-30 °C - +40°C</b>
Ambient storage temperature	<b>-40°C - +70°C</b>
Actual efficacy of the device	<b>Up to 165 lm/W</b>
Colour temperature	<b>4000K</b>
Optics features	<b>Size S with 99.9% high-efficiency aluminum reflector Size M with PMMA lenses, anti-aging, UV-resistant, with efficiency &gt; 90%, and transparency &gt; 95%</b>
Colour rendering index values	<b>CRI≥70 according to EN 62717</b>
Colour consistency	<b>MacAdam 4-step</b>
Photobiological risk	<b>RG0-Exempt Group (EN 62471)</b>
Residual flicker	<b>&lt;1%</b>
Luminous flux maintenance	<b>L80 B10 150.000 h Tq=+25°C</b>
Insulation class	<b>II</b>
Supply voltage	<b>220V-240V 50/60Hz</b>
Surge protection	<b>10 kV common mode and differential mode according to EN61000-4-5</b>
Power factor	<b>&gt;0,95</b>
Type of power supply	<b>Plug 16A 2P IP67 IEC EN 60309-1/-2</b>



**WARRANTY**  
2 YEARS OPTIONALLY EXTENDABLE TO 10



## DIRECTIVES

2014/30/UE (EMC)  
2014/35/UE (LVD)  
2011/65/UE (RoHS)  
2012/19/UE (RAEE)  
2009/125/CE (ERP)  
Reg. UE 2019/2020 (EcoDesign)

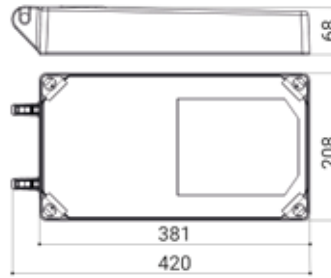
## PRODUCT STANDARDS

EN 55015  
EN 60598-1  
EN 60598-2-1  
EN 60598-2-3  
EN 60598-2-5  
EN 61000-3-2  
EN 61000-3-3  
EN 61547  
EN 62311  
EN 62493  
EN 62471  
IEC TR 62778  
EN 63000

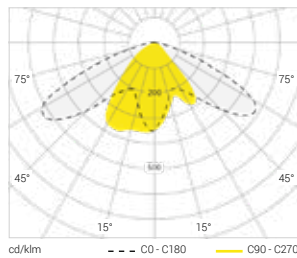
Special versions for remote control of the system can be made.



FLIGHT-T54 | size S



Flicker <1%	Classe II
IP66	IK08



Permanent asymmetrical optics PA5

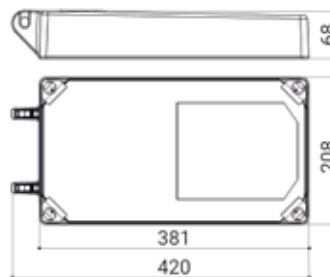
Included: power supply with 16A 2P IP67 plug according to IEC EN 60309-1/-2, with 1.5 mm<sup>2</sup> FTG180M16 cable.  
The stated flux and power values may be subject to a +/- 7% tolerance.

Permanent



No. of LEDs	Power (W)	Nominal flux (lm)Tj=25 °C	Output flux (lm)Tq=25 °C	Diffuser	Efficacy (lm/W)	Version	Weight (kg)	Code
14	38	6790	5658	Glass	150	On-off	5,00	<b>802192</b>
28	28	5520	4600	Glass	165	On-off	5,00	<b>802232</b>
28	44	8290	6908	Glass	156	On-off	5,00	<b>802252</b>
28	66	12044	10037	Glass	153	On-off	5,00	<b>802282</b>

FLIGHT-T54 | size S

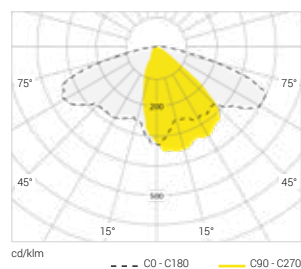


Flicker  
<1%

Class  
II

IP66

IK08



Permanent asymmetrical optics STR-ST

Included: power supply with 16A 2P IP67 plug according to IEC EN 60309-1/-2, with 1.5 mm<sup>2</sup> FTG180M16 cable. FOS see page 4.

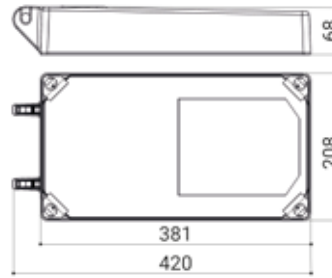
The stated flux and power values may be subject to a +/- 7% tolerance.

Permanent

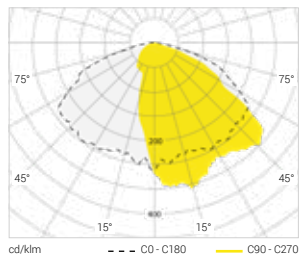


No. of LEDs	Power (W)	Nominal flux (lm) <sub>Tj=25 °C</sub>	Output flux (lm) <sub>Tq=25 °C</sub>	Diffuser	Efficacy (lm/W)	Version	Weight (kg)	Code
14	38	6790	5658	Glass	150	On-off	5,00	<b>802191</b>
28	28	5520	4600	Glass	165	On-off	5,00	<b>802231</b>
28	44	8290	6908	Glass	156	On-off	5,00	<b>802251</b>
28	66	12044	10037	Glass	153	On-off	5,00	<b>802281</b>

FLIGHT-T54 | size S



Flicker <1%	Class II
IP66	IK08



Permanent asymmetrical optics STR-AM

Included: power supply with 16A 2P IP67 plug according to IEC EN 60309-1/-2, with 1.5 mm<sup>2</sup> FTG180M16 cable.  
FOS see page 4.

The stated flux and power values may be subject to a +/- 7% tolerance.

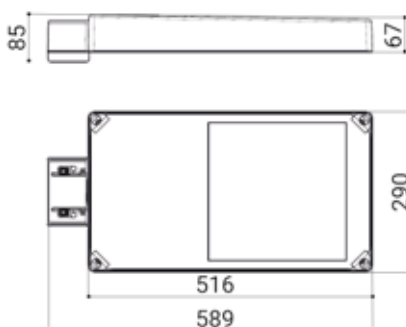
Permanent



No. of LEDs	Power (W)	Nominal flux (lm)Tj=25 °C	Output flux (lm)Tq=25 °C	Diffuser	Efficacy (lm/W)	Version	Weight (kg)	Code
14	38	6790	5658	Glass	150	On-off	5,00	<b>802190</b>
28	28	5520	4600	Glass	165	On-off	5,00	<b>802230</b>
28	44	8290	6908	Glass	156	On-off	5,00	<b>802250</b>
28	66	12044	10037	Glass	153	On-off	5,00	<b>802280</b>



FLIGHT-T54 | size M

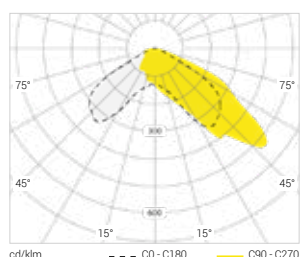


Flicker  
<1%

Class  
II

IP66

IK08



Asymmetric diffusing reinforcement optics 50°

Included: power supply with 16A 2P IP67 plug according to IEC EN 60309-1/-2, with 1.5 mm<sup>2</sup> FTG180M16 cable. PMMA lenses.

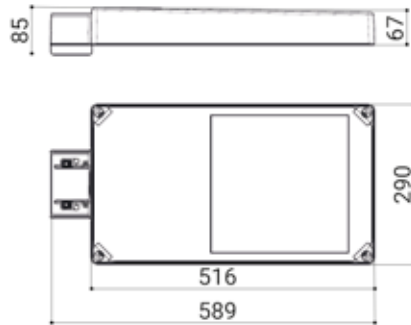
The stated flux and power values may be subject to a +/- 7% tolerance.

Reinforcement

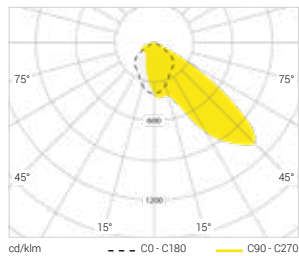


No. of LEDs	Power (W)	Nominal flux (lm)T <sub>j</sub> =25 °C	Output flux (lm)T <sub>q</sub> =25 °C	Diffuser	Efficacy (lm/W)	Version	Weight (kg)	Code
48	110	17820	14850	Glass	135	On-off	7,50	<b>802317</b>
48	146	23652	19710	Glass	135	On-off	7,50	<b>802417</b>
60	183	29426	24522	Glass	134	On-off	7,50	<b>802517</b>
72	220	35112	29260	Glass	133	On-off	7,50	<b>802617</b>

FLIGHT-T54 | size M



Flicker <1%	Class II
IP66	IK08



Asymmetric concentrating reinforcement optics 55°

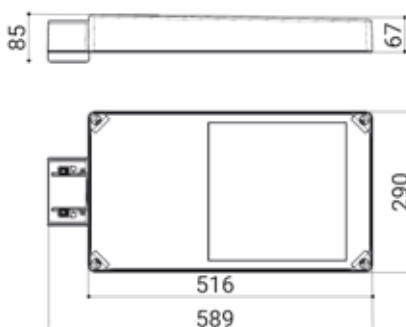
Included: power supply with 16A 2P IP67 plug according to IEC EN 60309-1/-2, with 1.5 mm<sup>2</sup> FTG180M16 cable. PMMA lenses.  
The stated flux and power values may be subject to a +/- 7% tolerance.

Reinforcement



No. of LEDs	Power (W)	Nominal flux (lm)Tj=25 °C	Output flux (lm)Tq=25 °C	Diffuser	Efficacy (lm/W)	Version	Weight (kg)	Code
48	110	17820	14850	Glass	135	On-off	7,50	<b>802315</b>
48	146	23652	19710	Glass	135	On-off	7,50	<b>802415</b>
60	183	29426	24522	Glass	134	On-off	7,50	<b>802515</b>
72	220	35112	29260	Glass	133	On-off	7,50	<b>802615</b>

FLIGHT-T54 | size M

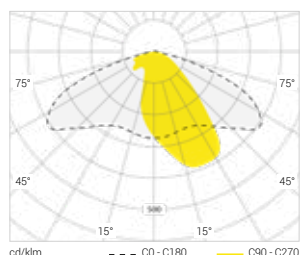


Flicker  
<1%

Class  
II

IP66

IK08



Symmetric reinforcement optics 65°

Included: power supply with 16A 2P IP67 plug according to IEC EN 60309-1/-2, with 1.5 mm<sup>2</sup> FTG180M16 cable. PMMA lenses.  
The stated flux and power values may be subject to a +/- 7% tolerance.

Reinforcement



No. of LEDs	Power (W)	Nominal flux (lm)T <sub>j</sub> =25 °C	Output flux (lm)T <sub>q</sub> =25 °C	Diffuser	Efficacy (lm/W)	Version	Weight (kg)	Code
48	110	17820	14850	Glass	135	On-off	7,50	<b>802314</b>
48	146	23652	19710	Glass	135	On-off	7,50	<b>802414</b>
60	183	29426	24522	Glass	134	On-off	7,50	<b>802514</b>
72	220	35112	29260	Glass	133	On-off	7,50	<b>802614</b>



Accessories FLIGHT-T54



FLIGHT- T54 equipped with double projecting bracket

Bracket for quick fastening to cable tray – size S



Material:  
316L stainless steel

Channel dimensions (mm)	Code
100 x 75	
200 x 75	<b>802900</b>
300 x 75	
100x 100	
200x 100	<b>802901</b>
300x 100	

Bracket for quick fastening to cable tray– size M



Material:  
316L stainless steel

Channel dimensions (mm)	Code
100 x 75	
200 x 75	<b>802903</b>
300 x 75	
100x 100	
200x 100	<b>802904</b>
300x 100	



Customer focused operations

Smart engineering

Top Manufacture

Service excellence



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