



Friedhelm TRAPP GmbH

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His.lux® Universalmodule 4



Technical specifications

LED color temperature	2700K*
Luminous flux	2225 lm
Color rendering	CRI > 85
IP Protection	IP 65
application area	-40°C bis +55°C
Protection Class	I oder II
LED lifetime	>60.000 Std.*

*LED color temperature freely selectable

The His.lux® Universal Module 4 has much hundredfold proven and convinced by the recent years in various projects, unique radiation pattern that corresponds to the gas light that burned earlier in all historic street lamps.

This compact LED kit can in almost every historical light - be integrated and of course in replicas of various manufacturers. With a light output of 36 watt this LED solution easily replace 70 W MVL/HPS lamps.

The construction technical guidelines for the adaptation of a His.lux EBS to a particular type of luminaire are implemented quickly: our suppliers are recorded many historical lamps and lighting model already using CAD, illustrate the examples of how the HIS.lux module is integrated in the body of each lamp types.

These highly efficient LED kits (EBS) are in an accredited light measurement laboratory measured. We will provide upon request the survey data (EULUMDAT, Isolux diagrams, etc.).

We create for Your project also lighting design and complete investment and amortization calculations.



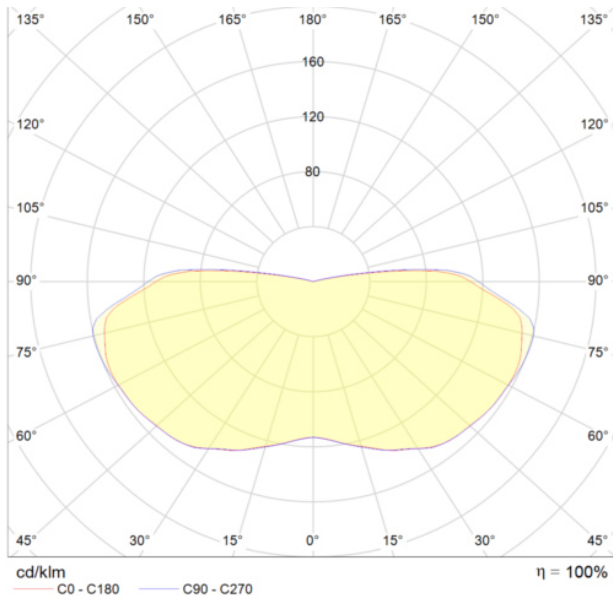
His.lux® Universalmodule 4

His.lux® Universalmodule 4	ON/OFF	E1	E2	D1	R1
Module power in watts typical (at 350mA)	36	6-36	6-36	6-36	6-36
Regulatory capacity of output					
Manually via 10-stage Coding switch		•	•	•	
Manually via 10-stage Coding switch					•
Dimming					
Half-night switching over control voltage 230V dimming is selected manually using 10-stage Coding switch			•	•	
Multiple dimming steps programmable, astronomical dimming					•
0-10V / 1-10V interface	•			•	•
Dali / PWM interface (only if no control line is available)					•
Special functions					
Constant light function (affects against the light loss)					•
Light color typical * other color temperatures on request					
2700K Warm white		•	•	•	•
3000K Warm white		•	•	•	•
3500K Warm white		•	•	•	•
Applied to					
For adjoining owner residential streets		•	•	•	•
For cycling and walking pathes, green areas		•	•	•	•

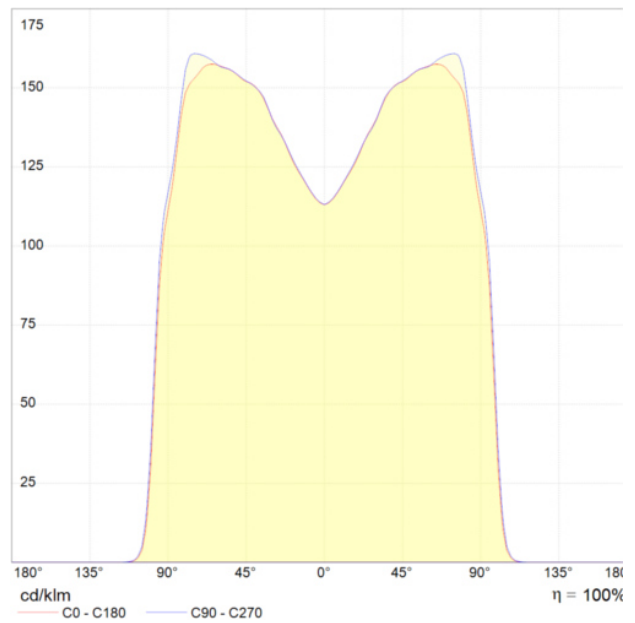


His.lux® Universalmodule 4

Photometric data universal module 4



Polar diagram



Cartesian diagram



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His.lux® Universalmodule 6



Technical specifications

LED color temperature	2700K*
Luminous flux	4800 lm
Color rendering	CRI > 85
IP Protection	IP 65
application area	-40°C bis +55°C
Protection Class	I oder II
LED lifetime	>60.000 Std.*

*LED color temperature freely selectable

The His.lux® Universal Module 6 has much hundredfold proven and convinced by the recent years in various projects, unique radiation pattern that corresponds to the gas light that burned earlier in all historic street lamps.

This compact LED kit can in almost every historical light - be integrated and of course in replicas of various manufacturers. With a light output of 54 watt this LED solution easily replace 70 W MVL/HPS lamps.

The construction technical guidelines for the adaptation of a His.lux EBS to a particular type of luminaire are implemented quickly: our suppliers are recorded many historical lamps and lighting model already using CAD, illustrate the examples of how the HIS.lux module is integrated in the body of each lamp types.

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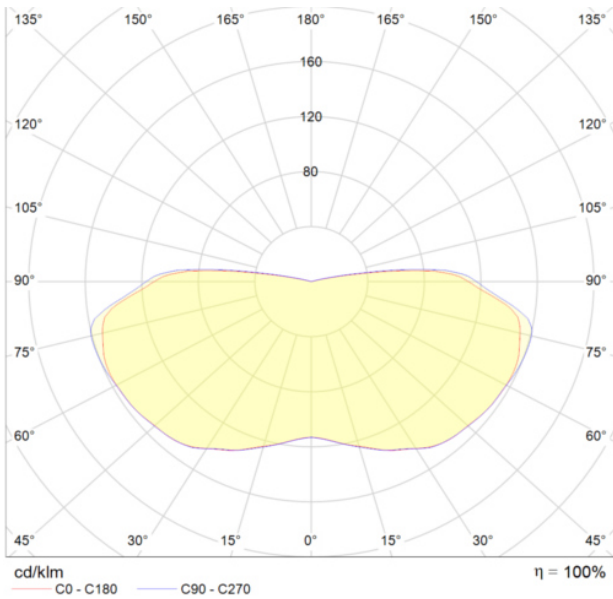
His.lux® Universalmodule 6

His.lux® Universalmodul 6	ON/OFF	E1	E2	D1	R1
Module power in watts typical (at 350mA)	54	8-54	8-54	8-54	8-54
Regulatory capacity of output					
Manually via 10-stage Coding switch		•	•	•	
Programmable via service unit					•
Dimming					
Half-night switching over control voltage 230V dimming is selected manually using 10-stage Coding switch			•	•	
Multiple dimming steps programmable, astronomical dimming					•
0-10V / 1-10V interface	•				•
Dali / PWM interface (only if no control line is available)					•
Special functions					
Constant light function (affects against the light loss)					•
Light color typical * other color temperatures on request					
2700K Warm white		•	•	•	•
3000K Warm white		•	•	•	•
3500K Warm white		•	•	•	•
Applied to					
For adjoining owner residential streets		•	•	•	•
For cycling and walking pathes, green areas		•	•	•	•

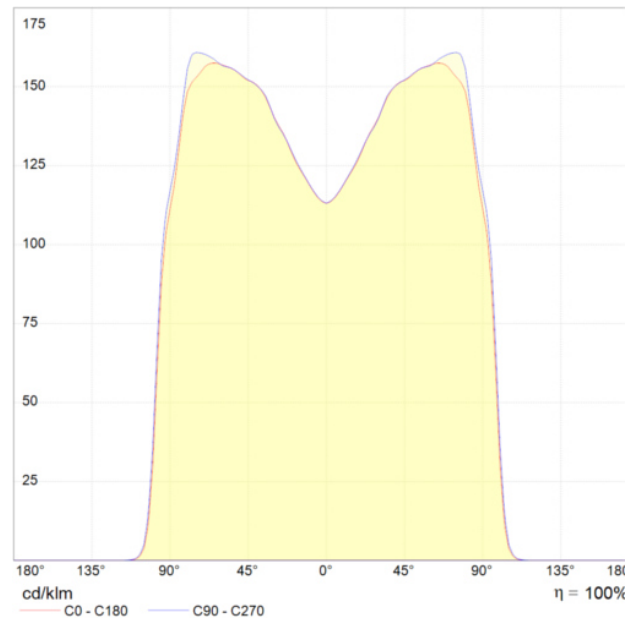


His.lux® Universalmodule 6

Photometric data universal module 6



Polar diagram



Cartesian diagram



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His.lux® Universalmodule 3



Technical specifications

LED color temperature	2700K*
Luminous flux	2400 lm
Color rendering	CRI > 85
IP Protection	IP 65
application area	-40°C bis +55°C
Protection Class	I oder II
LED lifetime	>60.000 Std.*

*LED color temperature freely selectable

The His.lux® Universal Module 3 has much hundredfold proven and convinced by the recent years in various projects, unique radiation pattern that corresponds to the gas light that burned earlier in all historic street lamps.

This compact LED kit can in almost every historical light - be integrated and of course in replicas of various manufacturers. With a light output of 27 watt this LED solution easily replace 70 W MVL/HPS lamps.

The construction technical guidelines for the adaptation of a His.lux EBS to a particular type of luminaire are implemented quickly: our suppliers are recorded many historical lamps and lighting model already using CAD, illustrate the examples of how the HIS.lux module is integrated in the body of each lamp types.

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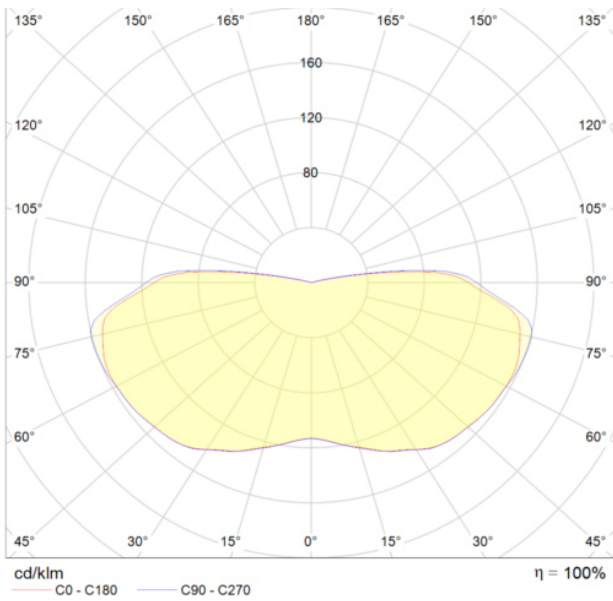
His.lux® Universalmodule 3

His.lux® Universalmodul 3	ON/OFF	E1	E2	R1
Modulleistung in Watt typisch (bei 350mA)	27	4-27	4-27	4-27
Regulierungsmöglichkeit(en) der Leistung				
manuell über 10stufigen Codierschalter		•	•	
programmierbar über Servicegerät				•
Dimmfunktion				
Halbnachtschaltung über Steuerspannung 230V Dimmung erfolgt manuell über 10stufigen Codierschalter			•	
mehrere Dimmstufen programmierbar, astronomisches Dim- men				•
0-10 V / 1-10 V Schnittstelle	•			•
Dali/PWM Schnittstelle				•
Sonderfunktionen				
Konstantlichtfunktion (wirkt dem Lichtverlust entgegen)				•
Lichtfarbe typisch *weitere Farbtemperaturen auf An- frage				
2700K Warm white		•	•	•
3000K Warm white		•	•	•
3500K Warm white		•	•	•
Applied to				
For adjoining owner residential streets		•	•	•
For cycling and walking pathes, green areas		•	•	•

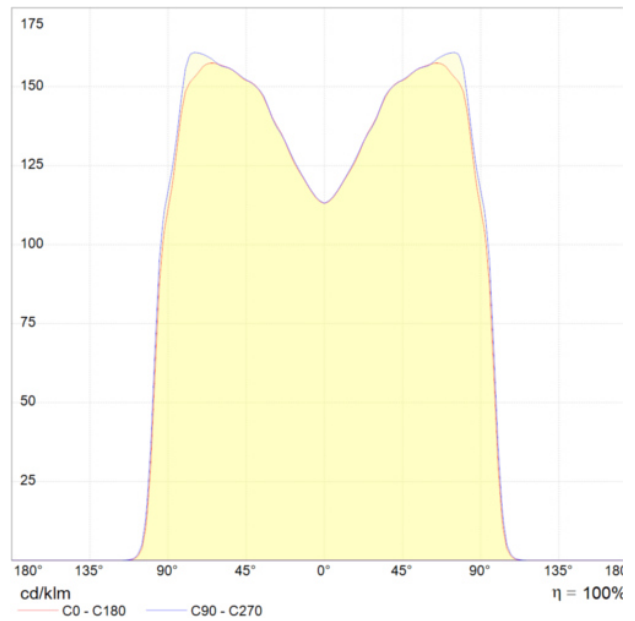


His.lux® Universalmodule 3

Photometric data universal module 3



Polar diagram



Cartesian diagram

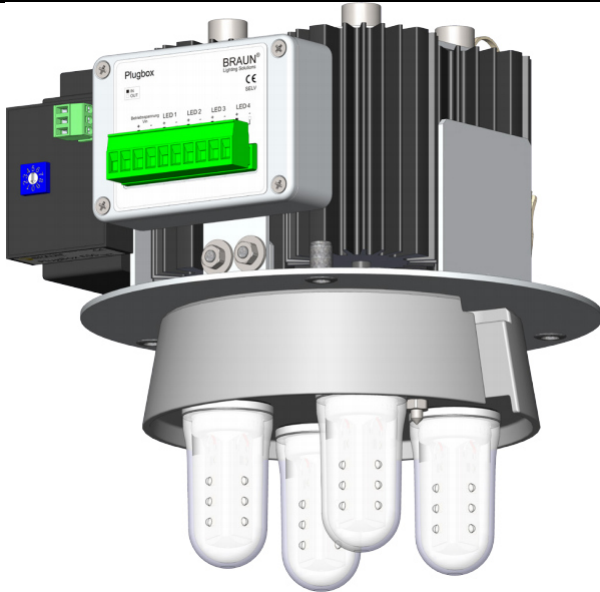


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His.lux® Premiummodule



Technical specifications

Color temperature	2700K *
Luminous flux	2225 lm
Color rendering	CRI > 85
LED-Insulation protection	IP 65
Temperature range	-40 ° C to + 55 ° C
Protection class	I or II
Lifetime	> 60,000 hrs. *

* Color temperatures selectable

The His.lux® Premiummodule has much hundredfold proven and convinced by the recent years in various projects, unique radiation pattern that corresponds to the gas light that burned earlier in all historic street lamps.

This compact LED kit can in almost every historical light - be integrated and of course in replicas of various manufacturers. With a light output of 36 watt this LED solution easily replace 70 W MVL/HPS lamps.

The construction technical guidelines for the adaptation of a His.lux EBS to a particular type of luminaire are implemented quickly: our suppliers are recorded many historical lamps and lighting model already using CAD, illustrate the examples of how the HIS.lux module is integrated in the body of each lamp types.

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We create for Your project also lighting design and complete investment and amortization calculations.



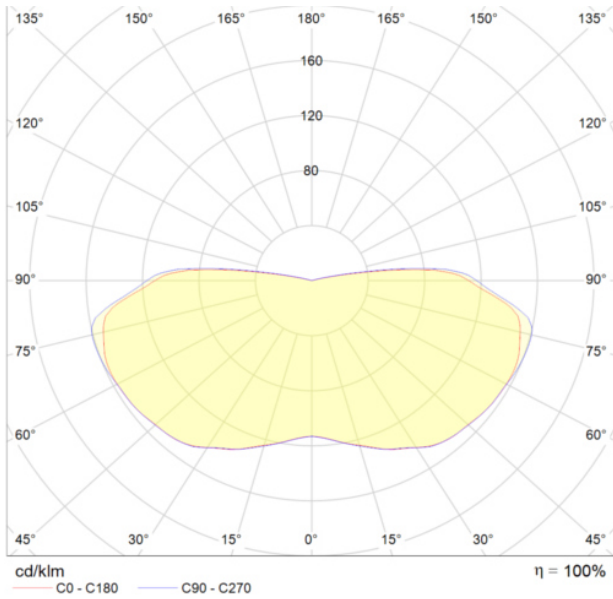
His.lux® Premiummodule

His.lux® Universalmodule 3	ON/OFF	E1	E2	D1	R1
Module power in Watt typical (at 350mA)	36	6-36	6-36	6-36	6-36
Regulatory capacity of output					
Manually via 10-stage Coding switch		•	•	•	
Programmable via service unit					•
Dimming					
Half-night switching over control voltage 230V dimming is selected manually using 10-stage Coding switch			•	•	
Multiple dimming steps programmable, astronomical dimming					•
0-10V / 1-10V interface	•			•	•
Dali / PWM interface (only if no control line is available)					•
Special functions					
Constant light function (affects against the light loss)					•
Light color typical * other color temperatures on request					
2700K Warm white		•	•	•	•
3000K Warm white		•	•	•	•
3500K Warm white		•	•	•	•
Applied to					
For adjoining owner residential streets	•	•	•	•	•
For cycling and walking pathes, green areas	•	•	•	•	•

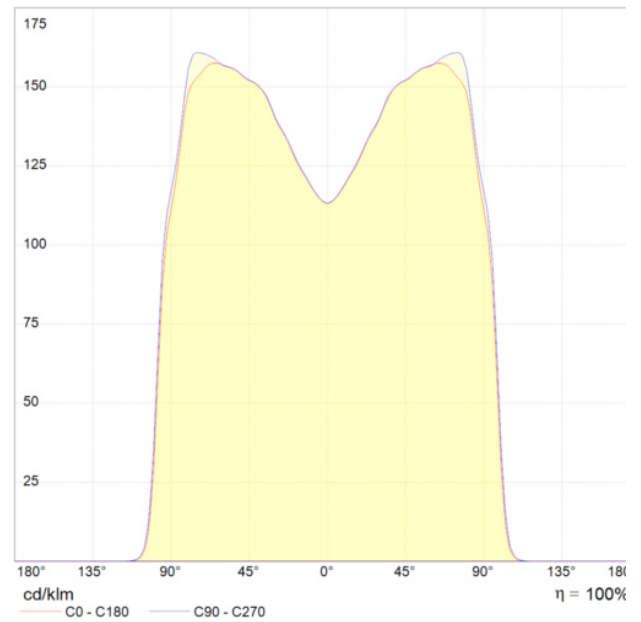


His.lux® Premiummodul

Photometric data Premiummodule



Polar diagram



Cartesian diagram