

Test report

Light measurement results

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

Viso LightSpion - Seriennummer: 1435906163
LightSpion – Type C, horizontal
14.01.2026

Measurement Conditions

Tested c-planes
Tested gamma resolution
Input Power
Input RMS Voltage and Current

2 planes – 180°
7.5°
19.9 W
24.0 V – 0.829 A

Tested Light Source

Luminaire
Item No.
Manufacturer
Measured length
Dimension (Lamp w x h) | (Light w x h)
Description

FLEX STRIP CCT-90 1200 2700-6500K 18W 1m 251226
ASDW9024018W
awLed by audiowerk GmbH
1000mm
10mm x 1000mm | 3.5mm x 2.8mm
Charge: 251226

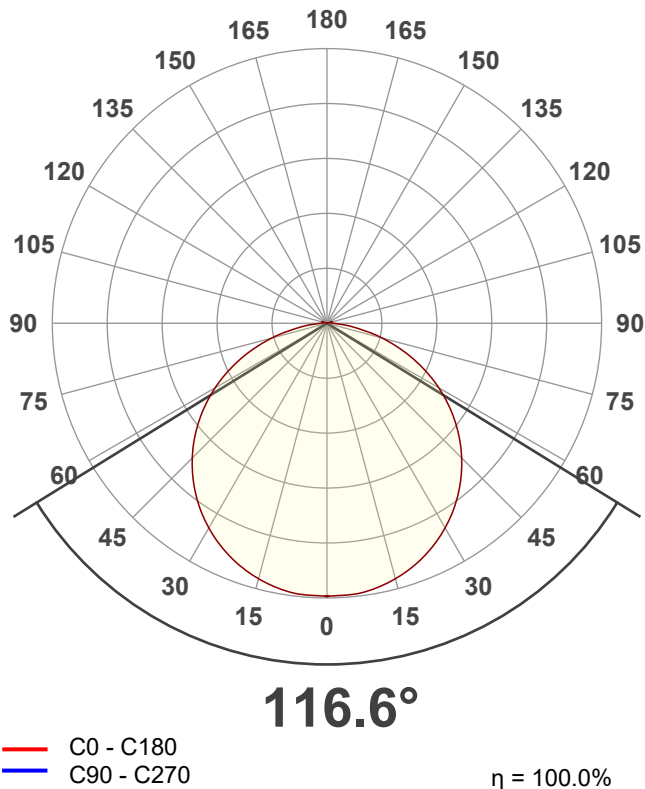
Main Light Measurement Results

Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index
Ecodesign Energy Class

2081 lm – 2.02% / 97.98%
105 lm/W
679 cd
4004 K
CRI 95.9
F

Polar light distribution diagram

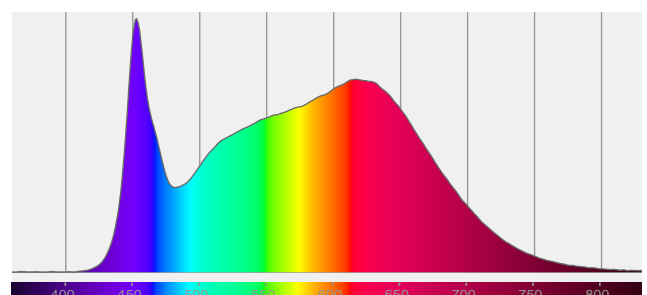
Unit: 0-100% of peak intensity



Product photo



Spectral power distribution



Test report

Light measurement results

Light output 1 - LED CCT-Warmwhite:

Correlated Color Temperature, CCT	2763 °K
Output – Total Lumen	1066 lm
Efficiency	103 lm/W
Color Rendering Index	93 CRI
Input Power	10.40 W
Input RMS Voltage	24.00 V
Input RMS Current	0.43 A

Light output 2 - LED CCT-White:

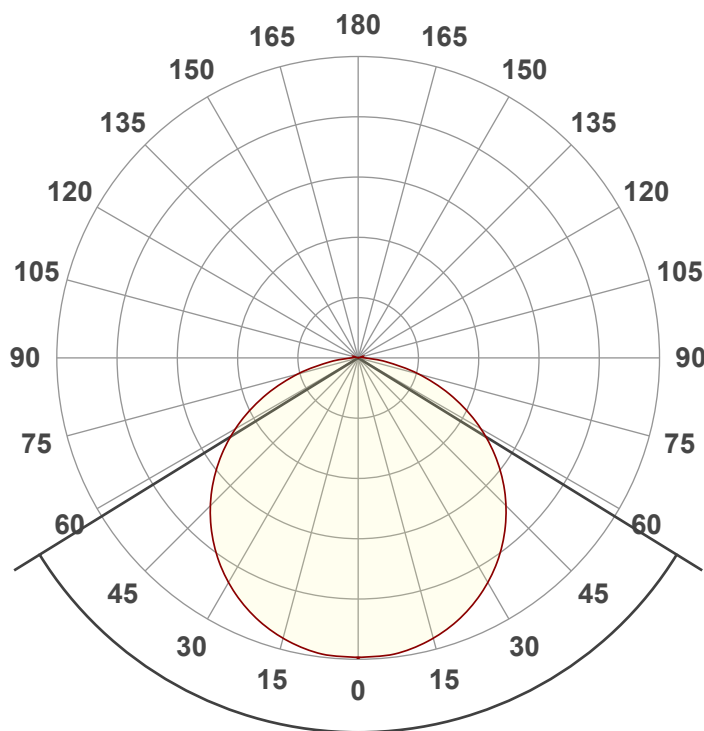
Correlated Color Temperature, CCT	7025 °K
Output – Total Lumen	1039 lm
Efficiency	100 lm/W
Color Rendering Index	94 CRI
Input Power	10.39 W
Input RMS Voltage	24.00 V
Input RMS Current	0.43 A

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Luminous Intensity diagram

Unit: 0-100% of peak intensity



C0-C180
C90-C270

116.6°

Main Values

Output (total Lumen)	2081 lm
Lumen Up% / Down%	2.02% / 97.98%
Peak Intensity	679 cd
Beam Angle (50%-FWHM)	116.60°

EU Ecodesign parameters

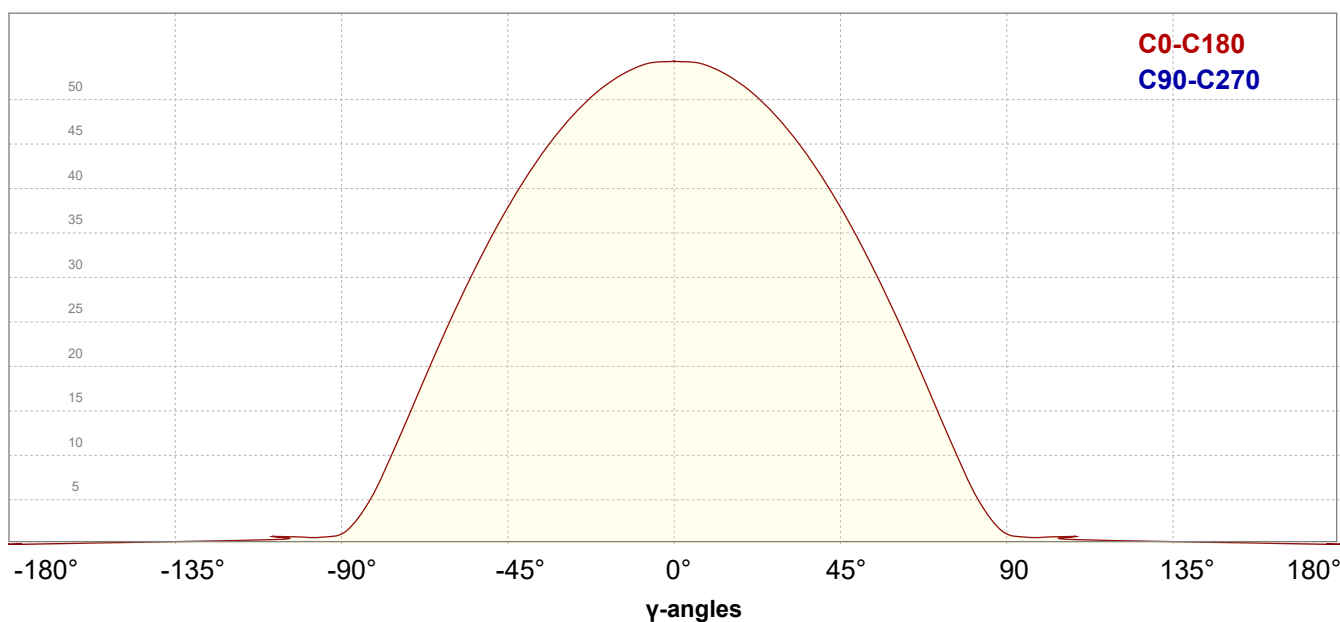
Directionality (DLS or NDLS)	NDLS
Ecodesign Useful Luminous	2081 lm
Ecodesign Energy Class	F

Intensity Ratio

In 120° cone	75.9%
In 90° cone	51.2%

Linear distribution diagram

Intensity [cd]

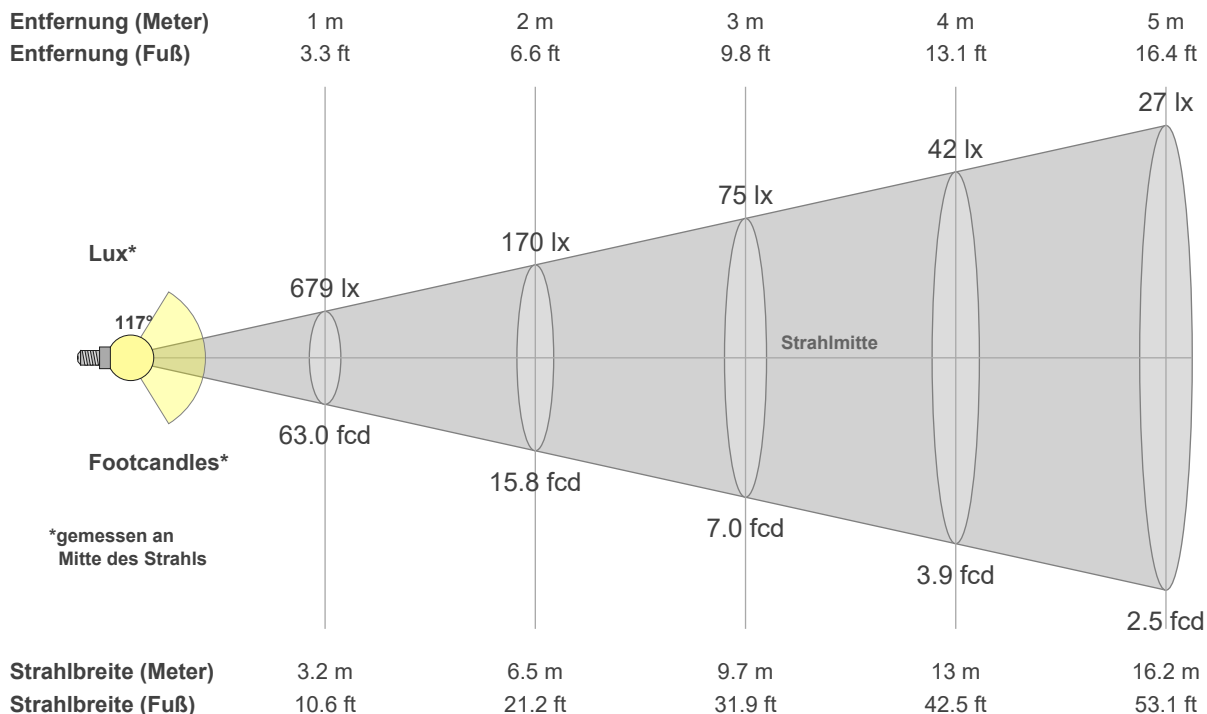


C0-C180
C90-C270

Test report

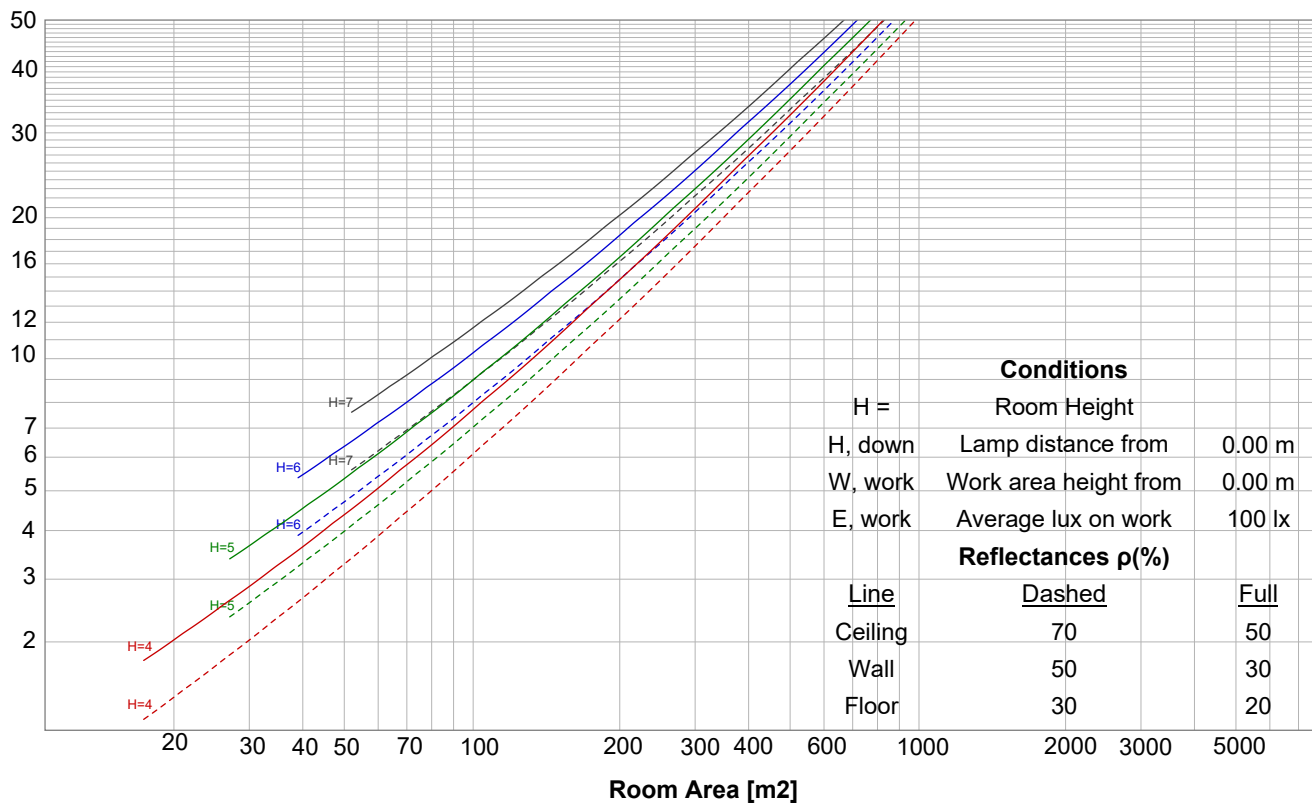
Light measurement results

Beam details



Luminaire budgetary diagram

LAMPS (number of lamps)



Test report

Light measurement results

Intensity details

Beam intensities from 1 – 20 m

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	m
3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6	ft
679	170	75	42	27	19	14	11	8	7	6	5	4	3	3	3	2	2	2	2	lux
63	15.8	7	3.9	2.5	1.8	1.3	1	0.8	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	fc

Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
679	677	669	657	639	615	586	554	516	473	426	376	321	263	203	143	87	44	17	11	cd
100%	100%	99%	97%	94%	91%	86%	82%	76%	70%	63%	55%	47%	39%	30%	21%	13%	7%	2%	2%	of 0°val

Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
679	677	669	657	639	615	586	554	516	473	426	376	321	263	203	143	87	44	17	11	cd
100%	100%	99%	97%	94%	91%	86%	82%	76%	70%	63%	55%	47%	39%	30%	21%	13%	7%	2%	2%	of 0°val

Intensities in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
679	677	669	657	639	615	586	554	516	473	426	376	321	263	203	143	87	44	17	11	cd
100%	100%	99%	97%	94%	91%	86%	82%	76%	70%	63%	55%	47%	39%	30%	21%	13%	7%	2%	2%	of 0°val

Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	γ
679	677	669	657	639	615	586	554	516	473	426	376	321	263	203	143	87	44	17	11	cd
100%	100%	99%	97%	94%	91%	86%	82%	76%	70%	63%	55%	47%	39%	30%	21%	13%	7%	2%	2%	of 0°val

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UGR Table

Corrected, comprehensive UGR table according to 117-1995, S/H ratio=0.25

Reflectances		ρ Ceiling	70	70	50	50	30	70	70	50	50	30
		ρ Walls	50	30	50	30	30	50	30	50	30	30
		ρ Floor	20	20	20	20	20	20	20	20	20	20
Room size			Viewed Crosswise					Viewed Endwise				
H = mounting height above eye level			(Viewing direction orthogonal to lamp length axis)					(Viewing direction parallel to lamp length axis)				
X Y												
2H	2H	28.2	29.4	28.5	29.8	30.0	29.7	30.9	30.0	31.3	31.5	
	3H	29.3	30.6	29.7	30.9	31.1	31.2	32.5	31.7	32.8	33.0	
	4H	29.7	30.9	30.1	31.2	31.5	31.9	33.1	32.3	33.4	33.7	
	6H	30.0	31.1	30.3	31.4	31.8	32.4	33.5	32.8	33.8	34.2	
	8H	30.0	31.1	30.4	31.4	31.8	32.6	33.6	32.9	33.9	34.4	
	12H	30.0	31.0	30.4	31.4	31.9	32.7	33.7	33.1	34.1	34.5	
4H	2H	28.8	30.0	29.2	30.3	30.6	30.0	31.2	30.5	31.5	31.8	
	3H	30.2	31.2	30.6	31.5	32.0	31.8	32.8	32.2	33.2	33.6	
	4H	30.6	31.5	31.1	32.0	32.5	32.5	33.4	32.9	33.8	34.4	
	6H	30.9	31.8	31.4	32.2	32.6	33.0	33.9	33.6	34.3	34.7	
	8H	31.0	31.8	31.5	32.2	32.6	33.2	34.0	33.8	34.4	34.8	
	12H	31.0	31.7	31.5	32.1	32.6	33.4	34.1	33.9	34.5	35.0	
8H	4H	30.9	31.7	31.4	32.1	32.5	32.6	33.4	33.1	33.8	34.2	
	6H	31.3	31.9	31.8	32.4	33.0	33.2	33.9	33.7	34.3	34.9	
	8H	31.4	32.0	31.9	32.5	33.2	33.5	34.0	34.0	34.6	35.2	
	12H	31.5	32.0	32.1	32.5	33.1	33.7	34.2	34.3	34.7	35.3	
12H	4H	30.9	31.5	31.4	32.0	32.5	32.5	33.2	33.0	33.7	34.2	
	6H	31.3	31.9	31.9	32.4	33.1	33.2	33.8	33.8	34.3	35.0	
	8H	31.5	31.9	32.1	32.5	33.1	33.5	34.0	34.1	34.5	35.1	
Variations with the observer position for the luminaire spacings, S:												
S = 1.0H			0.1 / -0.2					0.1 / -0.1				
S = 1.5H			0.3 / -0.5					0.3 / -0.4				
S = 2.0H			0.6 / -0.9					0.9 / -0.9				

UGR-Daten konnten aufgrund fehlender/falscher Symmetrie nicht berechnet werden. Gehen Sie zu Bearbeiten -> Photometrisch ->

Coefficients of utilization

Ceiling reflectance	80				70				50			30			10			0
Wall reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Floor reflectance	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
RCR	(Room Cavity Ratio)				Room values are expressed as percentage of Lumen delivered to the task surface													
0	118.6	118.6	118.6	118.6	115.6	115.6	115.6	115.6	110.0	110.0	110.0	104.9	104.9	104.9	100.2	100.2	100.2	98.0
1	107.9	103.0	98.6	94.6	105.0	100.5	96.5	92.9	95.9	92.6	89.6	91.6	88.9	86.5	87.7	85.5	83.5	81.3
2	97.9	89.5	82.5	76.6	95.1	87.4	81.0	75.5	83.5	78.1	73.4	79.9	75.4	71.4	76.6	72.9	69.5	67.2
3	89.1	78.3	70.0	63.3	86.4	76.6	68.8	62.6	73.3	66.7	61.2	70.2	64.6	59.9	67.4	62.7	58.6	56.3
4	81.4	69.2	60.3	53.4	78.9	67.7	59.4	52.9	64.9	57.7	52.0	62.4	56.1	51.0	59.9	54.6	50.1	47.9
5	74.8	61.7	52.6	45.8	72.5	60.5	51.9	45.5	58.1	50.6	44.8	55.9	49.3	44.1	53.8	48.1	43.4	41.2
6	69.0	55.5	46.4	39.9	66.9	54.4	45.8	39.6	52.4	44.8	39.1	50.5	43.7	38.6	48.7	42.7	38.1	35.9
7	63.9	50.2	41.3	35.1	62.0	49.3	40.9	34.9	47.5	40.0	34.5	45.9	39.1	34.1	44.4	38.3	33.7	31.7
8	59.4	45.7	37.1	31.2	57.7	45.0	36.8	31.1	43.5	36.0	30.8	42.0	35.3	30.4	40.7	34.7	30.1	28.2
9	55.5	41.9	33.6	28.0	53.9	41.3	33.3	27.9	39.9	32.7	27.6	38.7	32.1	27.4	37.6	31.5	27.1	25.3
10	52.0	38.7	30.7	25.4	50.6	38.1	30.4	25.3	36.9	29.9	25.0	35.8	29.4	24.8	34.8	28.9	24.6	22.8

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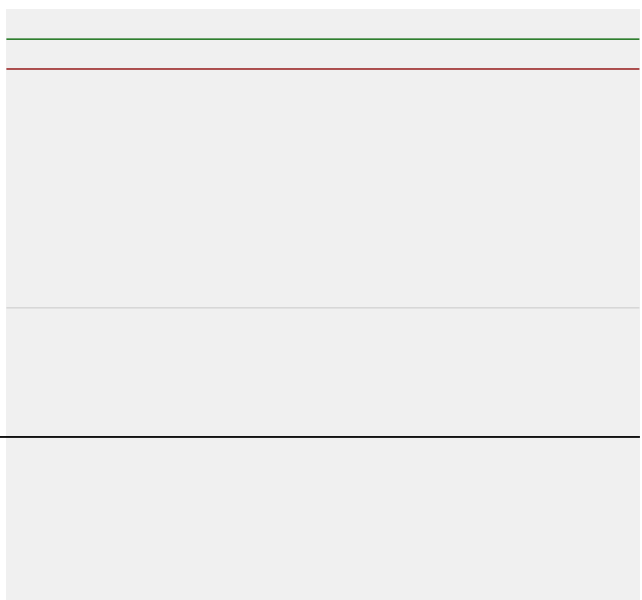
Light measurement results

Power details

Input power

Frequency of input power	0 Hz
Power feed to light source	19.9 W
RMS Input voltage feed V _{RMS}	24.0 V
RMS Input current feed I _{RMS}	0.829 A
Volt-Amp or apparent power = V _{RMS} *I _{RMS}	19.9 VA
Displacement factor of AC power feed	0.0
Power factor of AC current feed	1.0
Total harmonic distortion of the current	0%
Total harmonic distortion of the voltage	0%

Input power curve



Efficiency

Radiated power efficiency 37.6%

Lumen efficiency 105 lm/W

Stabilization details

Warmup Conditions

Stable period	3 Min
Stable change max	3.0%
Minimum time	3 Min

Color Temperature Change

CCT start	3997 K
CCT shift	+7 K
CCT end	4004 K

Warmup Result

Total warmup time	Lampe
Warmup variation	-0.6%

Output Change

Output start	2091 lm
Output change	-10 lm
Output end	2081 lm

Stabilization Curve

