

Hyperion Series

100W Fresnel, PC, Profile

(ver. 2023/02)



SOURCE

- 100W LED COB
- Source life expectancy: > 50.000 h
- Note: for Luminous flux and Colour rendering refer to the table at the end of this document

SOFTWARE FUNCTIONS

- ESD: 8 or 16bit extra soft dimming
- 2 selectable dimmer curves
- Adjustable delay in turning on and off
- PWM LED 500Hz-20KHz
- Led boost
- Storage and factory recovery
- Upgradable Firmware via DMX/USB tool

CONTROL

- Protocols: DMX512, RDM (DALI optional)
- Local potentiometer
- Reversible graphics display with standby-shutdown function

	DMX Channels
WHITE	1 / 2 / 3 ch

THERMAL MANAGEMENT

- Wide ventilation slots for better LED cooling with selectable fan speed in: "standard", "silent" and "auto" or DMX regulated
- High efficiency heat pipe cooling system
- No heat load from LED engine towards electronic and vice-versa avoiding the risk of failure due to overheating
- Ta max 40°C

OPTICS

- Fresnel, PC:
- 120mm High-quality glass lens optics (PC)
 - 110mm High-quality glass lens optics (Fresnel, Profile)
 - Gobo size: M or B (Profile)
 - Focus: manual
 - Note: for Beam angles refer to the table at the end of this document

ELECTRICAL

- Power supply: 100-240 V – 50/60 Hz
- Power consumption: 100 W
- PF>0.94/230VAC PF>0.98/115VAC at full load

HOUSING

- Highly resistant body in extruded aluminum
- Finishing: Black
- IP 20

OPTIONS

- Pole Operated Yokes
- ARC Motorized Yokes DMX 512

CONNECTION

- Power connector: Chassis PowerCON In/Out
- Additional cable: 2m H05RN-F cable with powerCON female cable connector
- DMX: XLR 5-pole In/Out panel connectors

DIMENSIONS

FN	3.5 Kg	29*22*31 cm
PC	3.5 Kg	29*22*31 cm
PR (ZS)	6.2 Kg	40*34*54 cm
PR (ZW)	6.0 Kg	40*34*45 cm

COMPLIANCE

- CE
- EN 60598-1; EN 60598-2-17
- SSL Licensing Program
- Manufactured in Italy with Quality System ISO 9001:2015

DMX chart

		WHITE		
		1CH	2CH	3CH
		8 BIT	8 BIT	16 BIT
1 ch	DIMMER		DIMMER	DIMMER
2 ch			STROBO	DIMMER FINE
3 ch				STROBO

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Model	Type	(measure at)	CRI	TLCI	TM-30	Lumen	Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam	Peak CD	
FN HY LED 100	WW	3000K	97			6.223	12°	1.073	0,8	477	1,3	268	1,7	172	2,1	119	2,5	17.160	
							75°	280	6,1	124	9,1	70	12,2	45	15,2	31	18,2	4.480	
	NW	4000K	97			6.572	12°	1.133	0,8	503	1,3	283	1,7	181	2,1	126	2,5	18.121	
							75°	296	6,1	131	9,1	74	12,2	47	15,2	33	18,2	4.731	
	CW	5600K	97				7.667	12°	1.321	0,8	587	1,3	330	1,7	211	2,1	147	2,5	21.141
								75°	345	6,1	153	9,1	86	12,2	55	15,2	38	18,2	5.519
								4 m		6 m		8 m		10 m		12 m			

Model	Type	(measure at)	CRI	TLCI	TM-30	Lumen	Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam	Peak CD
PC HY LED 100	WW	3000K	97	97	94	6.208	15°	1.044	1,0	464	1,6	261	2,1	167	2,6	116	3,1	16.700
							75°	274	6,1	122	9,1	68	12,2	44	15,2	30	18,2	4.380
	NW	4000K	97	97	94	6.556	15°	1.102	1,0	490	1,6	276	2,1	176	2,6	122	3,1	17.636
							75°	289	6,1	128	9,1	72	12,2	46	15,2	32	18,2	4.625
	CW	5600K	97	97	94	7.648	15°	1.286	1,0	572	1,6	321	2,1	206	2,6	143	3,1	20.575
							75°	337	6,1	150	9,1	84	12,2	54	15,2	37	18,2	5.396
								4 m		6 m		8 m		10 m		12 m		

Model	Type	(measure at)	CRI	TLCI	TM-30	Lumen	Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam	Peak CD
PR HY LED 100 ZS	WW	3000K	97	97	94	2.347	20°	1.740	1,4	773	2,1	435	2,8	278	3,5	193	4,2	27.840
							38°	978	2,7	434	4,1	244	5,5	156	6,8	109	8,2	15.640
	NW	4000K	97	97	94	2.479	20°	1.740	1,4	773	2,1	435	2,8	278	3,5	193	4,2	27.840
							38°	978	2,7	434	4,1	244	5,5	156	6,8	109	8,2	15.640
	CW	5600K	97	97	94	2.892	20°	2.030	1,4	902	2,1	507	2,8	325	3,5	226	4,2	32.480
							38°	1.140	2,7	507	4,1	285	5,5	182	6,8	127	8,2	18.246
								4 m		6 m		8 m		10 m		12 m		

Model	Type	(measure at)	CRI	TLCI	TM-30	Lumen	Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam	Peak CD
PR HY LED 100 ZW	WW	3000K	97	97	94	3.063	35°	1.255	2,5	558	3,8	314	5,0	201	6,3	139	7,5	20.080
							50°	705	3,7	313	5,6	176	7,4	113	9,3	78	11,1	11.280
	NW	4000K	97	97	94	3.235	35°	1.325	2,5	589	3,8	331	5,0	212	6,3	147	7,5	21.205
							50°	745	3,7	331	5,6	186	7,4	119	9,3	83	11,1	11.912
	CW	5600K	97	97	94	3.774	35°	1.633	2,5	726	3,8	408	5,0	261	6,3	181	7,5	26.125
							50°	917	3,7	408	5,6	229	7,4	147	9,3	102	11,1	14.676
								4 m		6 m		8 m		10 m		12 m		



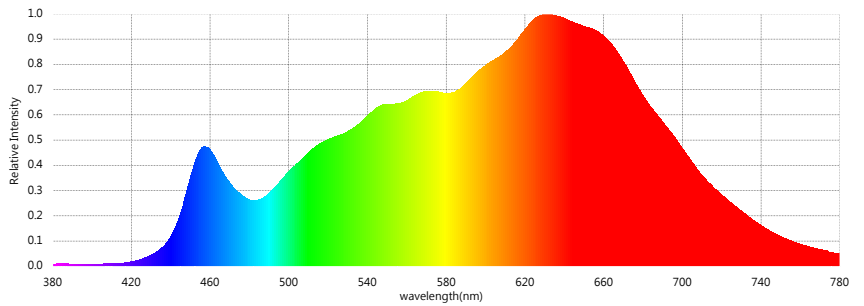
Product information and test conditions

Name	FN LED C100 WW		
Time	2021-02-09 23:09:22(Time-zone GMT+8)		
Manufacturer	Spotlight		
User	Spotlight (palup@spotlight.it)		
Temperature(°C)	16	Humidity(%)	61
		Distance(m)	

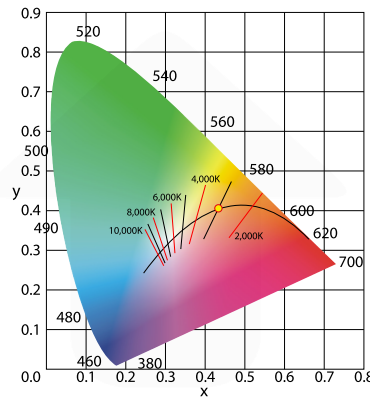
Parameters

CIE_x	0.4334
CIE_y	0.4058
CIE_u'	0.2475
CIE_v'	0.5215
CCT	3075 K
Duv	0.0012
CRI (Ra)(R1~R8)	98
CRI (Re) (R1-R15)	97
CQS	97
TLCI(Qa)	99
GAI	58
TM-30-18 Rf	94
TM-30-18 Rg	99
Illuminance	1,285 lux
Foot Candle	119.4 fc
PPFD (400-700nm)	22.01 $\mu\text{mol}/\text{m}^2\text{s}$
λ_p	631 nm
λ_D	582 nm
Purity (Pe)	50 %
SP Ratio	1.5
Circadian Stimulus	0.60
Circadian Light	1,363
Flicker Percentage	1 %
Flicker Index	0.00
Flicker Frequency	136 Hz

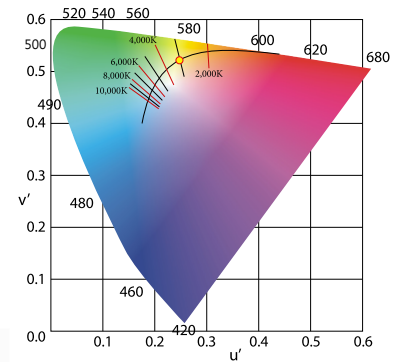
Spectrum



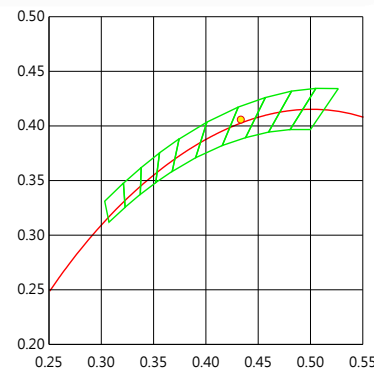
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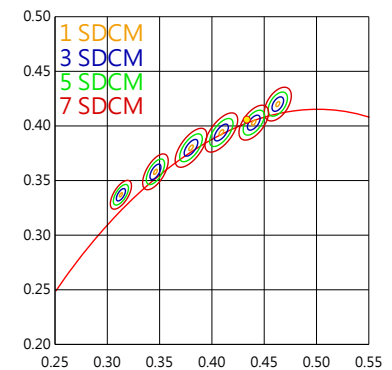
CIE 1976



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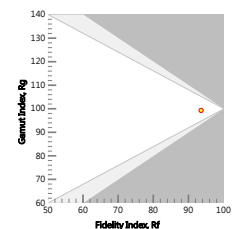
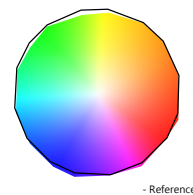
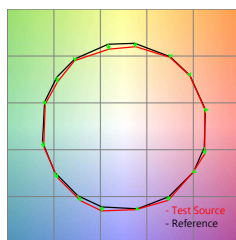
IEC-SDCM



CRI (Re) (R1-R15)

R1	99	R6	98	R11	99
R2	99	R7	99	R12	81
R3	96	R8	98	R13	100
R4	99	R9	97	R14	97
R5	98	R10	96	R15	98

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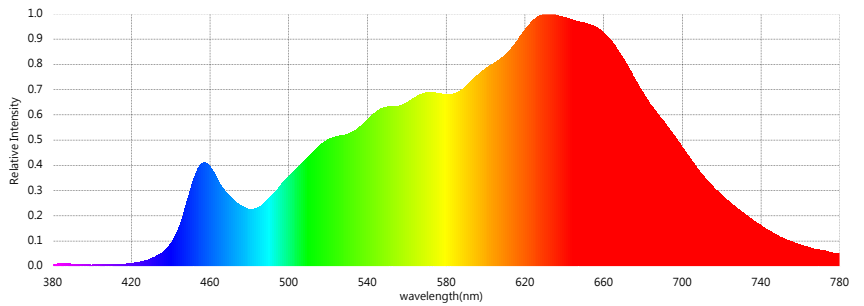


Product information and test conditions

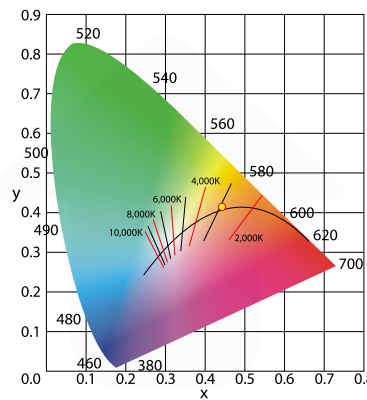
Name	PR LED 100 WW		
Time	2021-02-09 23:48:59(Time-zone GMT+8)		
Manufacturer	Spotlight		
User	Spotlight (palup@spotlight.it)		
Temperature(°C)	16	Humidity(%)	58
		Distance(m)	

Parameters	
CIE_x	0.4424
CIE_y	0.4146
CIE_u'	0.2496
CIE_v'	0.5263
CCT	2994 K
Duv	0.0034
CRI (Ra)(R1~R8)	97
CRI (Re) (R1-R15)	96
CQS	96
TLCI(Qa)	99
GAI	51
TM-30-18 Rf	93
TM-30-18 Rg	98
Illuminance	1,267 lux
Foot Candle	117.7 fc
PPFD (400-700nm)	21.68 $\mu\text{mol}/\text{m}^2\text{s}$
λ_p	633 nm
λ_D	582 nm
Purity (Pe)	60 %
SP Ratio	1.4
Circadian Stimulus	0.60
Circadian Light	1,257
Flicker Percentage	1 %
Flicker Index	0.00
Flicker Frequency	136 Hz

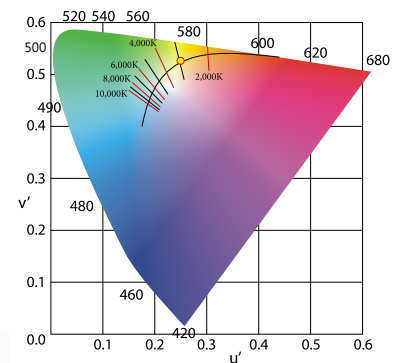
Spectrum



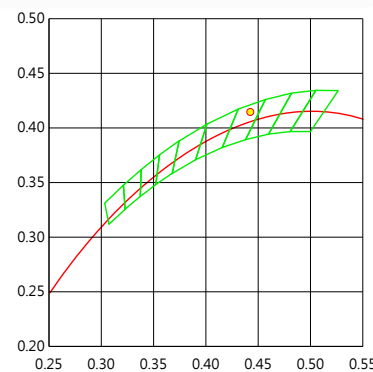
CIE 1931



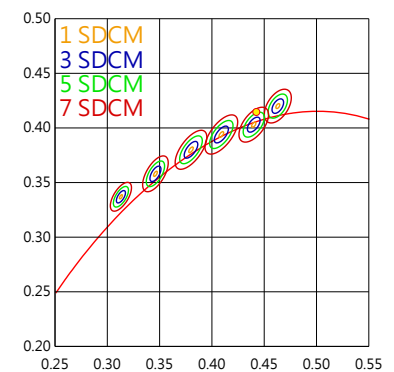
CIE 1976



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IEC-SDCM



CRI (Re) (R1-R15)

R1	99	R6	97	R11	99
R2	98	R7	98	R12	80
R3	95	R8	98	R13	98
R4	98	R9	95	R14	96
R5	97	R10	93	R15	97

TM-30-18

