

Architectural Series

50W Fresnel, PC, Profile

(ver. 2023/02)



SOURCE

- 50W LED COB/ARRAY (RGBW)
- 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
RGBW	4 / 7 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

- 90mm High-quality glass lens optics
- Focus: manual
- Gobo size: M (Profile)
- **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: 50 W
- PF>0.94/230VAC PF

HOUSING

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

OPTIONS

- Track adaptor with data bus

CONNECTION

- Power cable: 2m H05RN-F cable live end
- DMX: XLR 5-pole In/Out panel connectors

DIMENSIONS

FN	2.5 Kg	27*16*25 cm
FN (RGBW)	3.0 Kg	27*16*25 cm
PC	3.0 Kg	27*16*25 cm
PR	4.1 Kg	37*27*43 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			RGBW	
	1CH	2CH	3CH	4CH	7CH
	8 BIT	8 BIT	16 BIT	8 BIT	16 BIT
1 ch	DIMMER	DIMMER	DIMMER	RED	RED
2 ch		STROBO	DIMMER FINE	GREEN	GREEN
3 ch			STROBO	BLUE	BLUE
4 ch				WHITE	WHITE
5 ch					DIMMER
6 ch					DIMMER FINE
7 ch					STROBO

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Model	Type	CT	(measure at)	CRI	TLCI	TM-30	Lumen	Beam	Lux	∅ Beam	Lux	∅ Beam	Lux	∅ Beam	Lux	∅ Beam	Lux	∅ Beam	Peak CD
FN LED 50	WW	3000K	3000K	97	97	94	3.482	12°	855	0,8	380	1,3	214	1,7	137	2,1	95	2,5	13.680
								76°	125	6,2	55	9,3	31	12,4	20	15,5	14	18,6	1.996
	NW	4000K	4000K				3.677	12°	903	0,8	401	1,3	226	1,7	144	2,1	100	2,5	14.446
								76°	132	6,2	59	9,3	33	12,4	21	15,5	15	18,6	2.108
	CW	5600K	5600K				4.290	12°	1.112	0,8	494	1,3	278	1,7	178	2,1	124	2,5	17.797
								76°	162	6,2	72	9,3	41	12,4	26	15,5	18	18,6	2.597
	RGBW	2700-8000K	Full Ch	502	13°	605	0,9	269	1,4	151	1,8	97	2,3	67	2,7	9.680			
					50°	86	3,7	38	5,6	22	7,4	14	9,3	10	11,1	1.376			
								4 m	6 m	8 m	10 m	12 m							

Model	Type	CT	(measure at)	CRI	TLCI	TM-30	Lumen	Beam	Lux	∅ Beam	Lux	∅ Beam	Lux	∅ Beam	Lux	∅ Beam	Lux	∅ Beam	Peak CD
PC LED 50	WW	3000K	3000K	97	97	94	3.690	8°	1.406	0,6	625	0,8	352	1,1	225	1,4	156	1,7	22.500
								80°	79	6,6	35	10,0	20	13,3	13	16,6	9	19,9	1.260
	NW	4000K	4000K				3.897	8°	1.485	0,6	660	0,8	371	1,1	238	1,4	165	1,7	23.759
								80°	83	6,6	37	10,0	21	13,3	13	16,6	9	19,9	1.331
	CW	5600K	5600K				4.546	8°	1.829	0,6	813	0,8	457	1,1	293	1,4	203	1,7	29.271
								80°	102	6,6	46	10,0	26	13,3	16	16,6	11	19,9	1.639
								4 m	6 m	8 m	10 m	12 m							

Model	Type	CT	(measure at)	CRI	TLCI	TM-30	Lumen	Beam	Lux	∅ Beam	Lux	∅ Beam	Lux	∅ Beam	Lux	∅ Beam	Lux	∅ Beam	Peak CD
PR LED 50 ZS	WW	3000K	3000K	97	97	94	1.313	20°	980	1,4	436	2,1	245	2,8	157	3,5	109	4,2	15.680
								40°	540	2,9	240	4,3	135	5,8	86	7,2	60	8,7	8.640
	NW	4000K	4000K				1.386	20°	1.035	1,4	460	2,1	259	2,8	166	3,5	115	4,2	16.558
								40°	570	2,9	253	4,3	143	5,8	91	7,2	63	8,7	9.124
	CW	5600K	5600K				1.618	20°	1.275	1,4	567	2,1	319	2,8	204	3,5	142	4,2	20.399
								40°	703	2,9	312	4,3	176	5,8	112	7,2	78	8,7	11.240
	RGBW	2700-8000K	Full Ch	985	20°	735	1,4	327	2,1	184	2,8	118	3,5	82	4,2	11.760			
					40°	405	2,9	180	4,3	101	5,8	65	7,2	45	8,7	6.480			
								4 m	6 m	8 m	10 m	12 m							

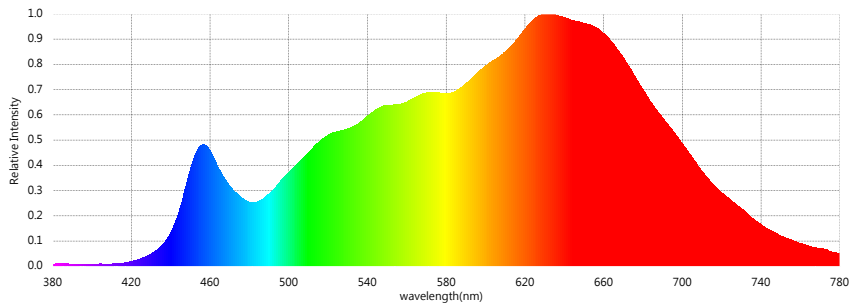


Product information and test conditions

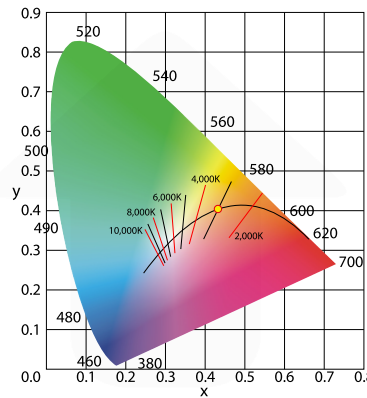
Name	FN LED 50 WW				
Time	2021-02-05 22:20:22(Time-zone GMT+8)				
Manufacturer	Spotlight sc				
User	Spotlight (palup@spotlight.it)				
Temperature(°C)	17	Humidity(%)	52	Distance(m)	3.5

Parameters	
CIE_x	0.4322
CIE_y	0.4042
CIE_u'	0.2475
CIE_v'	0.5207
CCT	3082 K
Duv	0.0008
CRI (Ra)(R1~R8)	98
CRI (Re) (R1-R15)	97
CQS	97
TLCI(Qa)	99
GAI	59
TM-30-18 Rf	94
TM-30-18 Rg	100
Illuminance	840 lux
Foot Candle	78.0 fc
PPFD (400-700nm)	14.48 $\mu\text{mol}/\text{m}^2\text{s}$
λ_p	632 nm
λ_D	582 nm
Purity (Pe)	50 %
SP Ratio	1.5
Circadian Stimulus	0.50
Circadian Light	895
Flicker Percentage	1 %
Flicker Index	0.00
Flicker Frequency	136 Hz

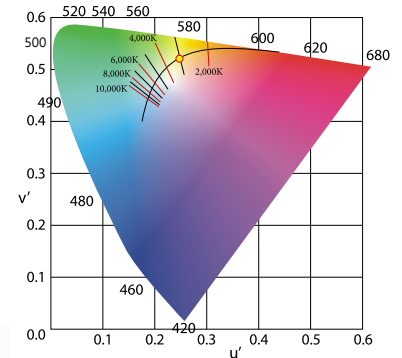
Spectrum



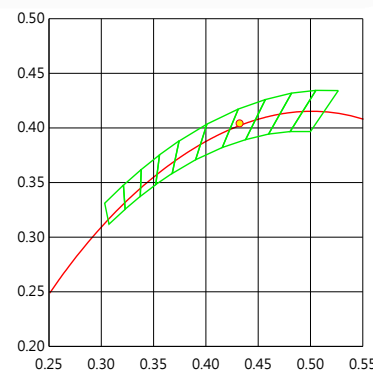
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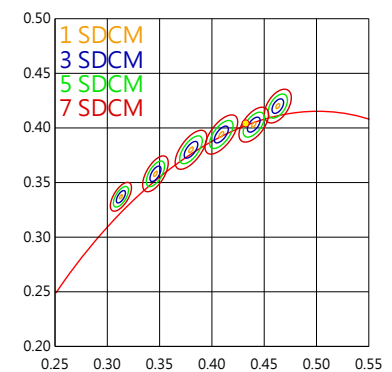
CIE 1976



C78.377 - 2017



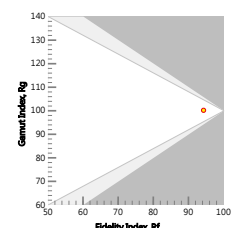
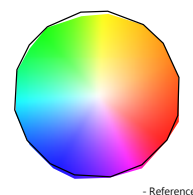
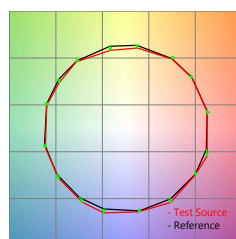
IEC-SDCM



CRI (Re) (R1-R15)

R1	99	R6	98	R11	98
R2	99	R7	99	R12	82
R3	96	R8	99	R13	99
R4	99	R9	99	R14	97
R5	99	R10	96	R15	98

TM-30-18



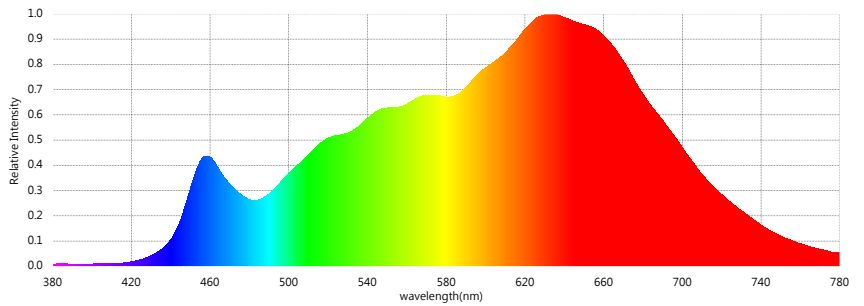


Product information and test conditions

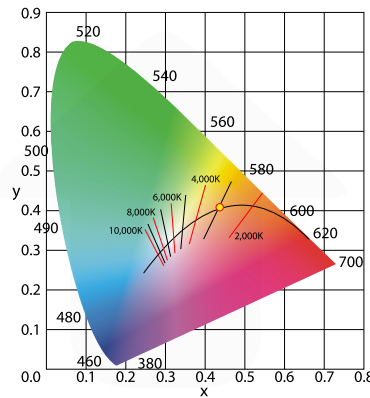
Name	PR LED 50 WW		
Time	2021-02-08 23:14:21(Time-zone GMT+8)		
Manufacturer	Spotlight		
User	Spotlight (palup@spotlight.it)		
Temperature(°C)	15	Humidity(%)	64
Distance(m)			

Parameters	
CIE_x	0.4366
CIE_y	0.4086
CIE_u'	0.2485
CIE_v'	0.5231
CCT	3041 K
Duv	0.0018
CRI (Ra)(R1~R8)	98
CRI (Re) (R1-R15)	97
CQS	96
TLCI(Qa)	99
GAI	56
TM-30-18 Rf	93
TM-30-18 Rg	99
Illuminance	1,232 lux
Foot Candle	114.5 fc
PPFD (400-700nm)	21.21 μmol/m²s
λp	633 nm
λD	582 nm
Purity (Pe)	50 %
SP Ratio	1.5
Circadian Stimulus	0.60
Circadian Light	1,291
Flicker Percentage	1 %
Flicker Index	0.00
Flicker Frequency	135 Hz

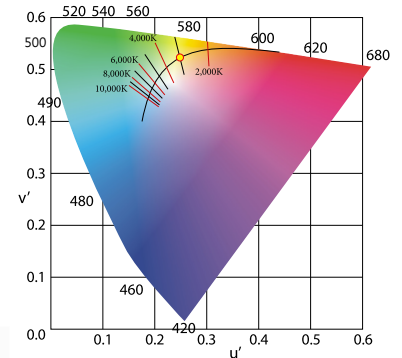
Spectrum



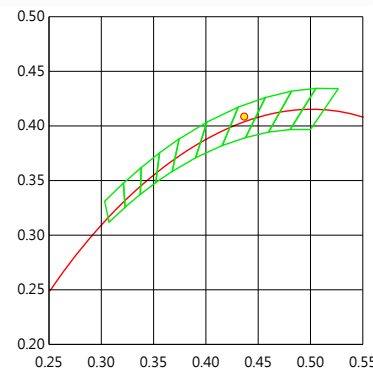
CIE 1931



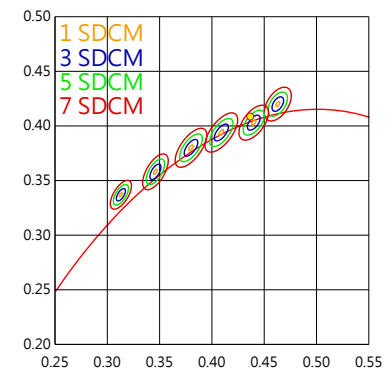
CIE 1976



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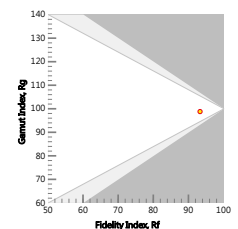
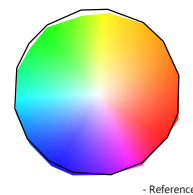
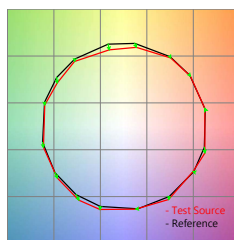
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R1	99	R6	99	R11	99
R2	99	R7	98	R12	82
R3	96	R8	98	R13	99
R4	98	R9	99	R14	97
R5	98	R10	97	R15	98

TM-30-18



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