Architectural Series

50W Fresnel, PC

(ver. 2021/04)

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
- 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

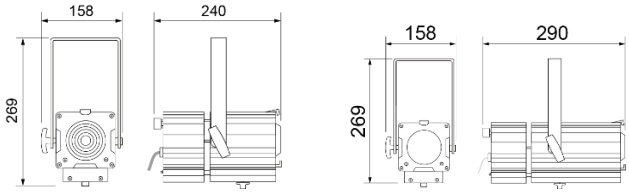
- Track adaptor with data bus

CONNECTION

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

DIMENSIONS

FN	2.5 Kg	269*158*240 mm
FN (RGBW)	2.5 Kg	269*158*280 mm
PC	3.0 Kg	269*158*290 mm



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	Ø Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam
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
								76°	125	6,2	55	9,3	31	12,4	20	15,5	14	18,6
	NW	4000K	4000K				3.677	12°	903	0,8	401	1,3	226	1,7	144	2,1	100	2,5
								76°	132	6,2	59	9,3	33	12,4	21	15,5	15	18,6
	CW	5600K	5600K				4.290	12°	1.112	0,8	494	1,3	278	1,7	178	2,1	124	2,5
								76°	162	6,2	72	9,3	41	12,4	26	15,5	18	18,6
	RGBW	2700-8000K	Full Ch	85	90	90	502	13°	605	0,9	269	1,4	151	1,8	97	2,3	67	2,7
								50°	86	3,7	38	5,6	22	7,4	14	9,3	10	11,1
									4 m		6 m		8 m		10 m		12 m	

Model	Type	CT	(measure at)	CRI	TLCI	TM-30	Lumen	Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam	Lux	Ø Beam
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
								80°	79	6,6	35	10,0	20	13,3	13	16,6	9	19,9
	NW	4000K	4000K				3.897	8°	1.485	0,6	660	0,8	371	1,1	238	1,4	165	1,7
								80°	83	6,6	37	10,0	21	13,3	13	16,6	9	19,9
	CW	5600K	5600K				4.546	8°	1.829	0,6	813	0,8	457	1,1	293	1,4	203	1,7
								80°	102	6,6	46	10,0	26	13,3	16	16,6	11	19,9
									4 m		6 m		8 m		10 m		12 m	

4/3/2021 2021/02/05 FN LED 50 WW

Spectrum Genius

Lighting Parameter Analysis Report

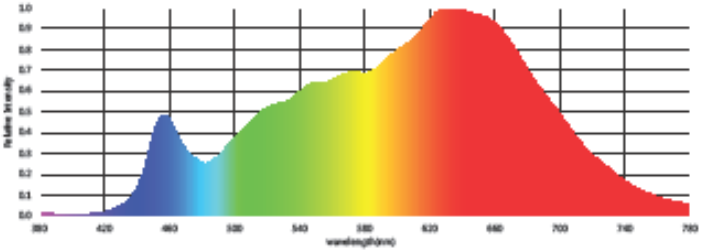
Product information and test conditions

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(℃)	17 Humidity(%) 52 Distance(m) 3.5

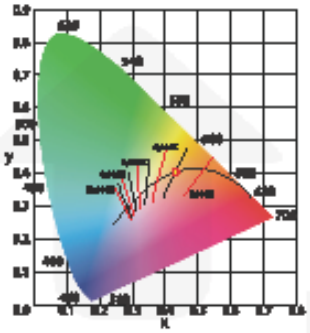
Parameters

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 μmol/m²s
λp	632 nm
λD	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

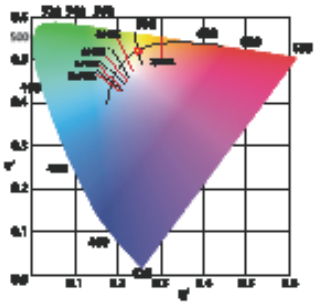
Spectrum



CIE 1931



CIE 1976



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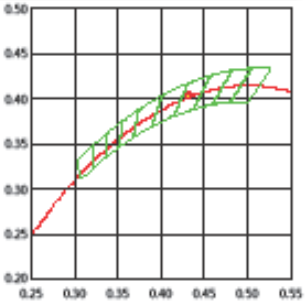
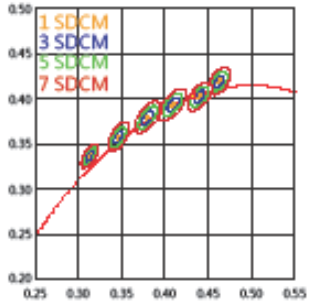


IEC-SDCM



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

Tested by Lighting Passport

https://www.spectrumgenius.com/my/sgm/r/PJtE69h2OI/m/XOdYoQOJcj/e/1 1/1