PS-870-COB

CONTINUOUS-LINE COB LED TECHNOLOGY

PROSERIES

LED TAPE LIGHT

PROSERIES / FLEXIBLE CHIP-ON-BOARD LED TAPE



PS-870-COB | CHIP-ON-BOARD LED TAPE | CONTINUOUS LINE OF LIGHT

180°	>90	12 / 24 V
NOMINAL BEAM	CRI - WHITE SERIES	CONSTANT-VOLTAGE OPTIONS

PRODUCT OVERVIEW

The Neotek PS-870-COB ProSeries delivers a seamless, uninterrupted line of LED light for refined architectural coves, millwork, display details and integrated linear illumination. High-density chip-on-board technology reduces the appearance of individual diode points while maintaining a flexible tape form factor. Configure the family for static white, static color, tunable white, RGB or RGBW applications.

DESIGN & CONFIGURATION HIGHLIGHTS

- ☐ High-density COB architecture
- ☐ 180-degree nominal distribution
- ☐ CRI greater than 90 on white variants
- ☐ Compatible external dimming interfaces
- ☐ Adhesive-backed, cuttable flexible tape
- ☐ White / color / tunable / RGB / RGBW

PS-870-COB

CONFIGURATIONS | ELECTRICAL & MECHANICAL

PROSERIES
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COB MODEL MATRIX / POWER & INSTALLATION DATA

NEOTEK MODEL	LED/m	VDC	W/m	W/ft	CUT	MAX RUN	WARRANTY
PS-870-320	320	24	8.0	2.44	50 mm	5.0 m	3 yr
PS-870-480	480	24	10.0	3.05	16.7 mm	8.0 m	5 yr
PS-870-480-C	480	24	5.0	1.52	50 mm	5.0 m	5 yr
PS-870-504	504	12	11.0	3.35	17.85 mm	2.5 m	5 yr
PS-870-512	512	24	10.0	3.05	62.5 mm	5.0 m	5 yr
PS-870-528	528	24	8.0	2.44	45.2 mm	2.5 m	5 yr
PS-870-TW	640	24	10/20*	3.05/6.10	50 mm	2.5 m	3 yr
PS-870-RGB	840	24	14.4*	4.39	50 mm	4.0 m	3 yr
PS-870-RGBW	840	24	20.0*	6.10	33.33 mm	4.0 m	3 yr

* For TW, 10 W/m per white channel / 20 W/m combined. RGB and RGBW values reflect full channel output.

CONSTRUCTION & ELECTRICAL DESIGN

Form	Flexible COB strip	**Beam**	180° nominal
Output	Continuous linear emitter	**Operating range**	-20°C to +60°C
Mounting	Adhesive-backed PCB	**Storage range**	-20°C to +70°C

For final engineering, confirm tape width, maximum run, power-feed location and the applicable ingress classification for the selected configuration.

PS-870-COB

STATIC WHITE | PHOTOMETRIC PERFORMANCE

PROSERIES

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STATIC WHITE COB PERFORMANCE / CRI >90

Nominal measured flux and efficacy per linear meter. Figures are configuration-specific and should not be interchanged between different COB densities.

NEOTEK MODEL	CCT	FLUX LM/m	EFFICACY LM/W	POWER W/m	VOLTAGE
PS-870-320	2700K	684	86	8.0	24
PS-870-320	3000K	750	94	8.0	24
PS-870-320	4000K	767	96	8.0	24
PS-870-320	5000K	788	99	8.0	24
PS-870-320	6000K	800	100	8.0	24
PS-870-480	2700K	995	100	10.0	24
PS-870-480	3000K	1006	100	10.0	24
PS-870-480	4000K	1070	107	10.0	24
PS-870-480	5000K	1006	100	10.0	24
PS-870-480	6500K	1059	106	10.0	24
PS-870-504	2700K	741	67	11.0	12
PS-870-504	3000K	780	71	11.0	12
PS-870-504	4000K	798	73	11.0	12
PS-870-504	5000K	802	73	11.0	12
PS-870-504	6500K	815	74	11.0	12
PS-870-512	2700K	840	84	10.0	24
PS-870-512	3000K	898	90	10.0	24
PS-870-512	4000K	926	93	10.0	24
PS-870-512	5000K	941	94	10.0	24
PS-870-512	6500K	959	96	10.0	24
PS-870-528	2700K	820	103	8.0	24
PS-870-528	3000K	862	108	8.0	24
PS-870-528	4000K	873	109	8.0	24
PS-870-528	5000K	894	112	8.0	24
PS-870-528	6500K	912	114	8.0	24

PHOTOMETRIC NOTES

White variants are specified at CRI >90. Flux and efficacy are nominal and can vary with operating conditions, power supply, installation temperature and test tolerance. Use confirmed project-specific photometric data for final calculations.

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COLOR & TUNABLE | PHOTOMETRIC PERFORMANCE

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SINGLE COLOR / TUNABLE WHITE / RGB / RGBW

STATIC COLOR COB / PS-870-480-C

CHANNEL	WAVELENGTH	LM/m	W/m	VDC
RED	620-630 nm	30	5.0	24
GREEN	520-530 nm	720	5.0	24
BLUE	455-465 nm	110	5.0	24

TUNABLE WHITE COB / PS-870-TW

WARM	COOL	COMBINED
2700K	**6500K**	**4000K**
710 lm/m	**1005 lm/m**	**1706 lm/m**

24 VDC; CRI >90. Nominal 10 W/m for each white channel; 20 W/m when combined.

RGB / RGBW COB CHANNEL OUTPUT

NEOTEK MODEL	CHANNEL	WAVELENGTH / CCT	LM/m	W/m
PS-870-RGB	Red	615-625 nm	66	5.0
	Green	515-525 nm	532	5.0
	Blue	450-460 nm	78	5.0
	RGB full	Combined	576	14.4
PS-870-RGBW	White	4000K	240	5.0
	Red	615-625 nm	68	5.0
	Green	515-525 nm	432	5.0
	Blue	450-460 nm	86	5.0
	RGBW full	Combined	783	20.0

RGB/RGBW and tunable-white control require compatible external drivers or interfaces. Colored channels are not assigned a white-light CRI.

PS-870-COB

SPECIFICATION | ORDERING & INSTALLATION

PROSERIES
LED TAPE LIGHT

NEOTEK PROSERIES COB ORDERING GUIDE

NEOTEK PART-NUMBER STRUCTURE

PS-870-[CONFIGURATION]-[CCT / COLOR]

Example: PS-870-480-30K | 480 LEDs/m, 24 VDC, 3000K white

SELECT MODEL / CONFIGURATION

- ☐ PS-870-320 — 24 V / 320 LEDs/m
- ☐ PS-870-480 — 24 V / 480 LEDs/m
- ☐ PS-870-480-C — 24 V / static color
- ☐ PS-870-504 — 12 V / 504 LEDs/m
- ☐ PS-870-512 — 24 V / 512 LEDs/m
- ☐ PS-870-528 — 24 V / 528 LEDs/m
- ☐ PS-870-TW — 24 V / tunable white
- ☐ PS-870-RGB — 24 V / RGB
- ☐ PS-870-RGBW — 24 V / RGBW

COLOR / CONTROL OPTIONS

- ☐ 2700K
- ☐ 3000K
- ☐ 4000K
- ☐ 5000K
- ☐ 6000K / 6500K
- ☐ RED / GREEN / BLUE
- ☐ STATIC / PWM DIM
- ☐ 0-10V INTERFACE
- ☐ DALI INTERFACE
- ☐ DMX CONTROLLER
- ☐ TUNABLE WHITE
- ☐ RGB / RGBW

PROJECT / JOB INFORMATION

PROJECT NAME _____

FIXTURE / LOCATION _____

RUN LENGTH _____

QUANTITY _____

DATE _____

ENGINEERING / LISTING: Select a compatible Class 2 low-voltage supply; provide one feed per specified run. The legacy records cite UL 2108, File E354137; verify listing scope for the ordered configuration. Ingress rating is not specified in the archived sheets and must be confirmed for the intended location.

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