

127-189 NW specific configuration

LED strip | 24V | 364LED/m TW | 5 meter | IP20 | 1800-6500K

## Introduction

### Purpose of this Document

This document provides information for 127-189 NW. During measurement, the product is used in a different mode where output power, colour temperature and/or beam angle are changed from factory standard. These adjustments can be made without altering the product and are designed to be set by the installer. In most cases, the options are set through switches on the product.

### Results

Total input power	21.5 W
Correlated Colour Temperature	3824 K
Total lumen output	1713 lm
Efficiency	80 lm/W

## Electrical measurement details

### Input Power

RMS Input voltage feed. $V_{RMS}$	24.0 V
RMS Input current feed. $I_{RMS}$	0.896 A
Total input power	21.5 W

Frequency of input power	0 Hz
Power factor	1.0
Displacement power factor	0.71

Total harmonic distortion of the current	0%
Total harmonic distortion of the voltage	0%

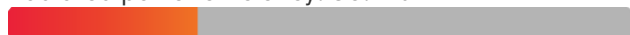
### Input Power Curve

Voltage - Current



### Efficiency

Radiated power efficiency: 30.7%



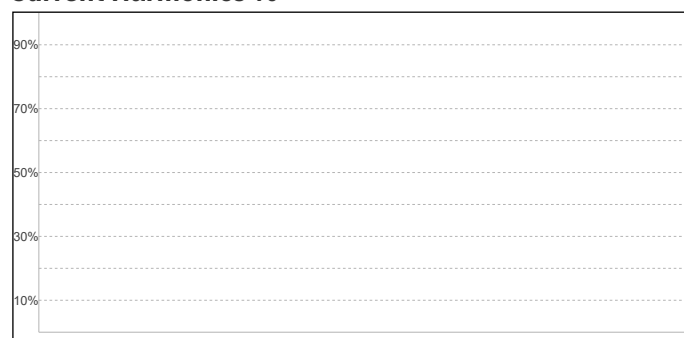
Lumen efficiency: 80 lm/W



### Harmonics

3rd Harmonic	n/a
5th Harmonic	n/a
7th Harmonic	n/a
9th Harmonic	n/a
11th Harmonic	n/a

### Current Harmonics %



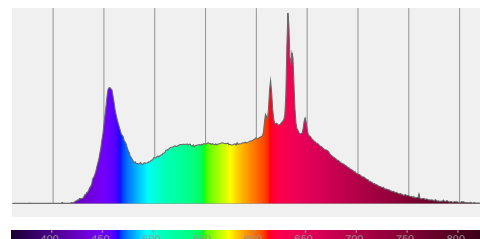
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### Colour measurement details

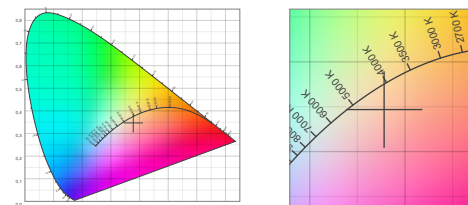
Total lumen output 1713 lm  
 Correlated Colour Temperature 3824 K  
 Colour coordinates CIE 1931 (x;y) = (0.378;0.347)  
 Colour deviation from BBL Duv = -0.0140

TM30-18 Colour Fidelity Index  $R_f$  89.7  
 TM30-18 Colour Gamut Index  $R_g$  104.9  
 Colour Rendering Index (Ra) CRI 86.1  
 Colour Rendering Index. (red component)  $R_9 = 45.8$

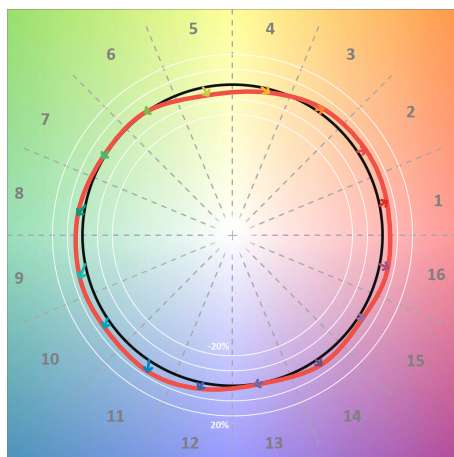
Colour Quality Scale CQS = 94.8  
 Television Lighting Consistency Index TLCI = 96



Relative spectral power distribution



### TM30 details

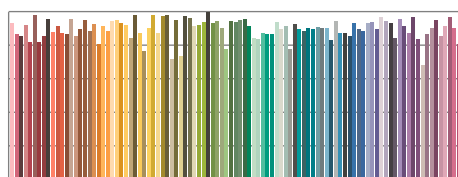


TM30 Colour vectors per hue bin

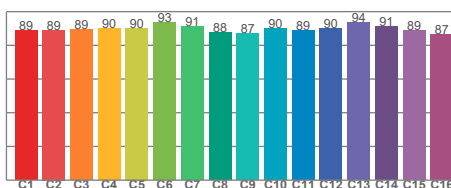


TM30 Colour distortion

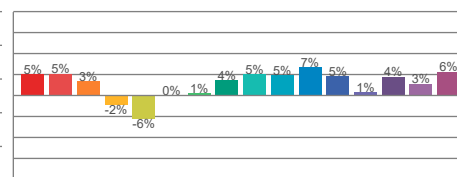
Hue Bin	$R_f$	Shifts (%)	
		Chroma	Hue
C1	89	5%	2%
C2	89	5%	-2%
C3	89	3%	-4%
C4	90	-2%	-5%
C5	90	-6%	-2%
C6	93	0%	3%
C7	91	1%	5%
C8	88	4%	7%
C9	87	5%	8%
C10	90	5%	4%
C11	89	7%	4%
C12	90	5%	-2%
C13	94	1%	-4%
C14	91	4%	1%
C15	89	3%	3%
C16	87	6%	-1%



TM30-18  $R_f$ -values per reference colour

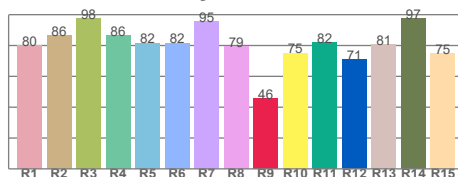


TM30-18  $R_f$ -values per hue bin

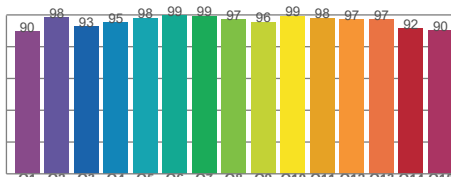


TM30 Chroma shift

### Colour Quality details



Colour Rendering Index



Colour Quality Scale