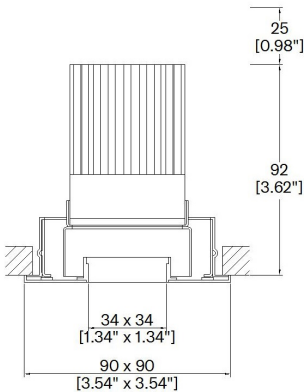


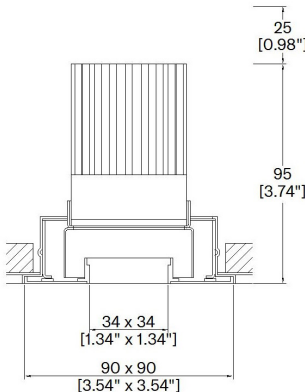
# ProSpex Square Edge90 Fixed



90 x 90mm (3.54 x 3.54") overall dimension. Edge baffle to ensure aperture is glare free and for a professional look. Available with standard trim kit or plaster-in kit for flush appearance. Family of matching products also available. Required depth height + 25mm^



81433-F-LED + 8000-PBZ-SQ  
Cut-out 83mm Ø



81433-F-LED + 8000-PCZ-SQ  
Cut-out 83mm Ø

LED Source	LED51TW	LED51TW
CCT range	5000K-2000K	@ 3000K
Drive Current (max per channel)	700mA	700mA
Power inc Driver Max	15.1W	15.1W
Beam Angle	25°	35°
Delivered Lumens	452	539
Delivered Intensisty cd	1674	1068
Efficacy lm/w	30	36
Forward Volt (max per channel)	18.4V	18.4V
CRI	≥95 CRI	≥95 CRI

Project Ref: \_\_\_\_\_ Location Ref: \_\_\_\_\_

Fixture Order Code: 

81433-F-LED

 -  -  -

Fixture

81433-F-LED

Square Edge90 Fixed with LED51

Finish

WH  
BK  
RAL

White  
Black  
Custom RAL Colour\*

IP Rating

54

IP54

Emergency

E  
ED  
ES

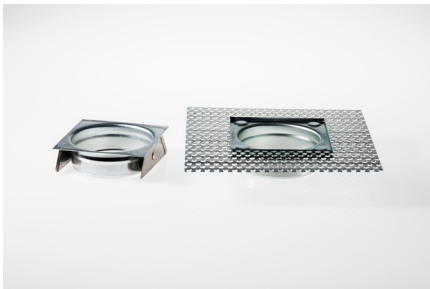
Maintained 3hr Emergency  
Maintained 3hr DALI Self Test  
Maintained 3hr Self Test

Installation Order Code:

Installation

8000-PBZ-SQ  
8000-PCZ-SQ

Trim kit for trimmed appearance  
Plaster-kit for seamless flush appearance



LED Order Code: 

LED51TW

 - 

5020

 -  -

LED

LED51TW

LED50 ONE Tuneable White

CCT

5020

5000K - 2000K

Beam

25  
35

25°  
35°

Protocol

D6  
D8  
B

DALI Type 6\*\*  
DALI Type 8\*\*  
Bluetooth\*\*\*



Honeycomb Louvre



Diffusing Lens



Frosted Lens



Heavy Spread Lens



Linear Spread Lens



Warm Tone

Accessories Order Code:

Louvre/Lens

- LL45 Honeycomb Louvre
- LLCC Warm Tone Lens
- LLUV UV Lens
- LLDF Diffusing Lens
- LLFR Frosted Lens
- LLLS Linear Spread Lens
- LLHS Heavy Spread Lens

Technical Details

\*Custom RAL code must be specified. Custom RAL colours can increase prices and lead times

Dimming. Whilst Lucent can offer the majority of its luminaires with various dimming options, it remains the responsibility of the specifier/installer to check and ensure compatibility of any control equipment used. Additional cabling may be required depending on the dimming protocol specified.

\*\*DALI Type 6 requires two DALI addresses, one for CCT control the other for Intensity control. DALI Type 8 is a single DALI Type 8 address for CCT and Intensity control. Please check which control system is being used before specifying.

\*\*\*Bluetooth (wireless) is the communication method. The exact dimming protocol must be confirmed to allow the selection of suitable drivers or bluetooth devices.

^ Depth indicated is the minimum recess depth for the luminaire with a remote mounted LED driver. Installing a driver through either the luminaire cut-out or installation kit may require additional recess depth, please refer to the relevant luminaire installation instructions for further details. Data correct at time of publishing

First Fix Requirement. Luminaire comprised of fixture body with ceiling trim and installation kit, which is to be fitted into the ceiling once finished. Ensure correct alignment of the installation kit before final assembly (see luminaire installation instructions for details)

IP Rating. Tested from underside of the ceiling

It is the policy of Lucent Lighting to continually review and improve its products and therefore reserve the right to change any details of product or withdraw specifications without prior notice.

Luminaires designed to comply with EN60598 and all other standards.

This specification sheet supersedes all previous versions.

All intellectual property rights pertaining to the product described above and to this document are owned by or licensed to Lucent Lighting Ltd.

We reserve the right to take whatever action is necessary to protect those intellectual property rights.

Please notify Lucent Lighting Ltd of any inaccuracies immediately. E&OE

## Light efficiency:

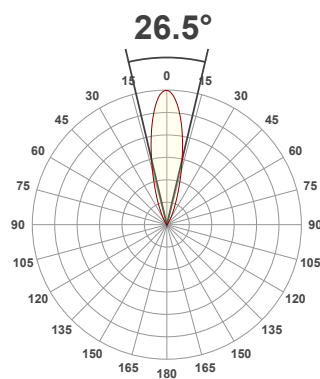
30 Lumen/Watt

## Light quality:

CRI: 91.5

## Color temperature:

3000 K



## Product name:

81433-F\_A-LED - LED51TW-5020-25 @ 3000K

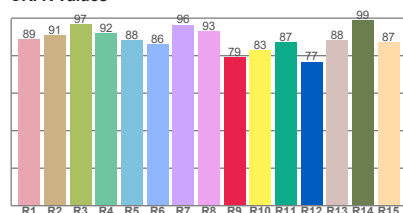
## Item number:

Square Edge90 Fixed\_Accent - LED51TW-5020-25 @ 3000K

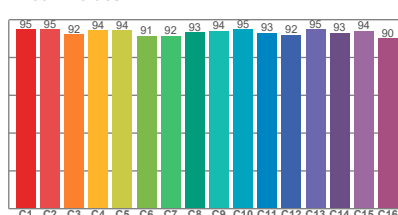
Delivered information for above fixture and LED combination.

Output: 452 Lumen Peak intensity: 1674 cd Power consumption: 15.1

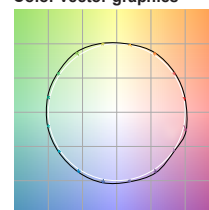
CRI R values



TM30 C Values

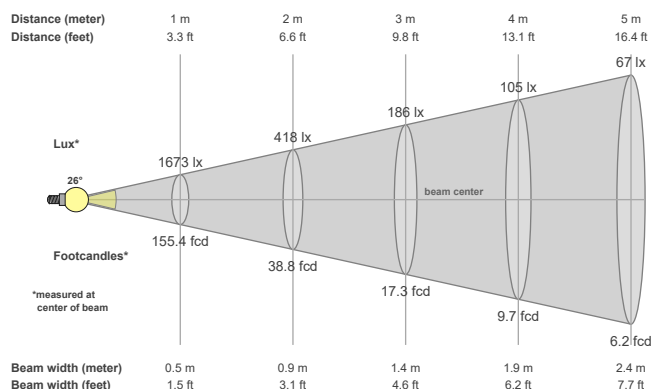


Color vector graphics



Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3000 K	91.5	79.1	93.5	106.8	93.6	0.437	0.404	0.256	0.336	-0.0130

## Beam details



## Beam angels

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%
26.5°	51.7°	69.4°

## Beam intensities

Peak intensity	Int. ratio in 120° cone	Int. ratio in 90° cone
1674 cd	99.4%	98.2%

## Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
1673lx	418lx	186lx	105lx	67lx	46lx	34lx	26lx	21lx	17lx	14lx	12lx	10lx	9lx	7lx	7lx	6lx	5lx	5lx	4lx
155.4fcd	38.8fcd	17.3fcd	9.7fcd	6.2fcd	4.3fcd	3.2fcd	2.4fcd	1.9fcd	1.6fcd	1.3fcd	1.1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd

All the above information for fixtures with LED51TW-5020 modules are tested at 3000K

Factors to adjust lumen output for the following CCTs at 100% output for the colour are as follows:

2000K = 0.67

2700K = 0.84

3500K = 1.085

4000K = 1.113

5000K = 1.087

## Light efficiency:

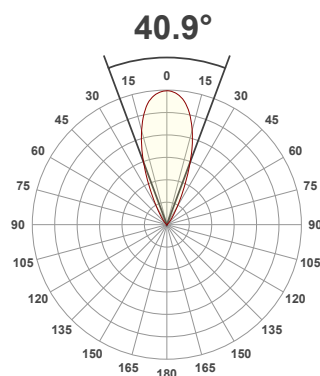
**36 Lumen/Watt**

## Light quality:

**CRI: 91.6**

## Color temperature:

**3000 K**



## Product name:

**81433-F\_A-LED - LED51TW-5020-35 @ 3000K**

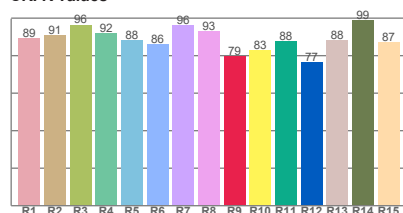
## Item number:

**Square Edge90 Fixed\_Accent - LED51TW-5020-35 @ 3000K**

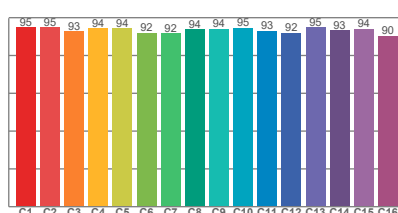
**Delivered information for above fixture and LED combination.**

**Output: 539 Lumen    Peak intensity: 1068 cd    Power consumption: 15.1**

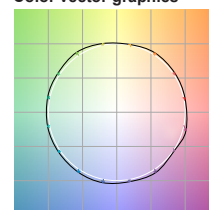
CRI R values



TM30 C Values

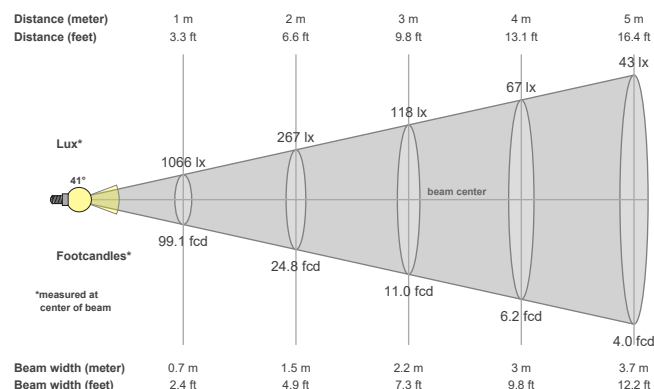


Color vector graphics



Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3000 K	91.6	79.5	93.6	106.4	93.8	0.437	0.404	0.256	0.336	-0.0126

## Beam details



## Beam angels

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%
40.9°	66.5°	87.6°

## Beam intensities

Peak intensity	Int. ratio in 120° cone	Int. ratio in 90° cone
1068 cd	99.5%	97.9%

## Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
1066lx	267lx	118lx	67lx	43lx	30lx	22lx	17lx	13lx	11lx	9lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx	3lx	3lx
99.1fcd	24.8fcd	11fcd	6.2fcd	4fcd	2.8fcd	2fcd	1.5fcd	1.2fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd	0.3fcd	0.2fcd

All the above information for fixtures with LED51TW-5020 modules are tested at 3000K

Factors to adjust lumen output for the following CCTs at 100% output for the colour are as follows:

2000K = 0.67

2700K = 0.84

3500K = 1.085

4000K = 1.113

5000K = 1.087