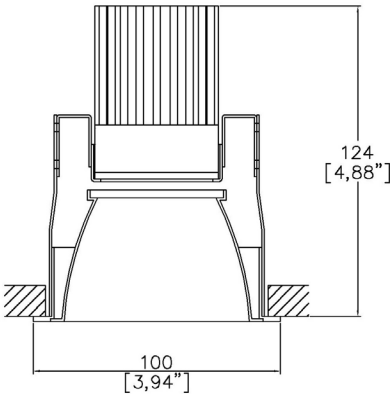


ProSpex 100



100mm (3.94”) overall diameter. Available with standard trim kit or plaster-in kit for flush appearance. Family of matching products also available. Required depth height + 25mm^



100-LED

LED Source	LED51TW	LED51TW
CCT range 5000K-2000K	@ 3000K	@ 3000K
Drive Current (max per channel)	700mA	700mA
Power inc Driver Max	15.1W	15.1W
Beam Angle	25°	35°
Delivered Lumens	638	706
Delivered Intensisty cd	2372	1587
Efficacy lm/w	42	47
Forward Volt (max per channel)	18.4V	18.4V
CRI	≥95 CRI	≥95 CRI
Information above is with Satin Silver Reflector, for Polished Silver Reflector please see ies files		

Project Ref: _____ Location Ref: _____

Fixture Order Code:

100-LED

-

-

-

-

Fixture

100-LED

Reflector100 Fixed with LED51

Reflector Finish

PS
SS
CG
BK
WH

Polished Silver
Satin Silver
Champagne Gold
Black
White

Trim 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

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:

42 Lumen/Watt

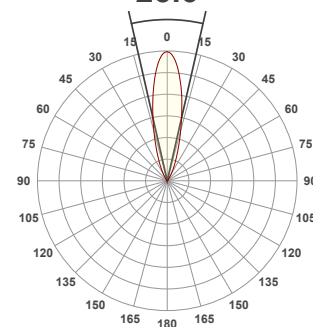
Light quality:

CRI: 91.6

Color temperature:

3000 K

25.6°



Product name:

100-LED-SS - LED51TW-5020-25 @ 3000K-No Lens

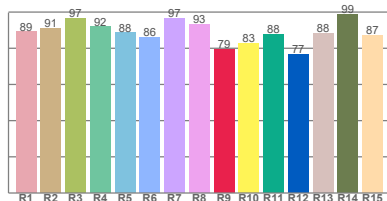
Item number:

ProSpex 100 Fixed Satin Silver Reflector - LED51TW-5020-25 @ 3000K

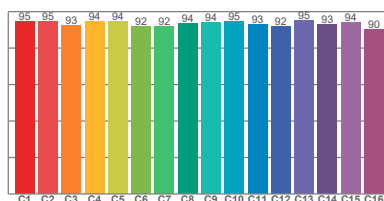
Delivered information for above fixture and LED combination.

Output: 638 Lumen Peak intensity: 2372 cd Power consumption: 15.1

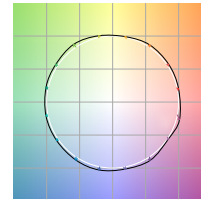
CRI R values



TM30 C Values

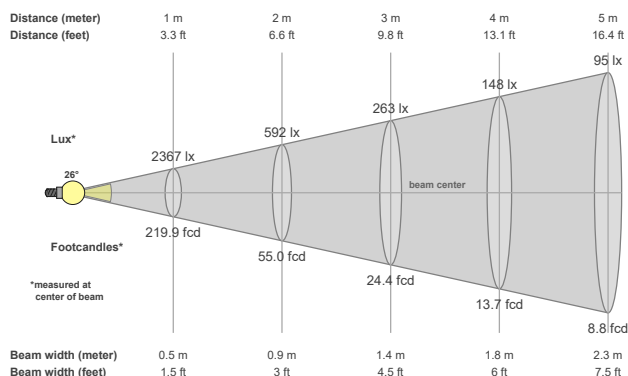


Color vector graphics



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 deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3000 K	91.6	79.3	93.6	106.5	93.8	0.437	0.404	0.256	0.336	-0.0127

Beam details



Beam angles

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%
25.6°	53.2°	69.8°

Beam intensities

Peak intensity	Int. ratio in 120° cone	Int. ratio in 90° cone
2372 cd	99.5%	98.5%

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
2367lx	592lx	263lx	148lx	95lx	66lx	48lx	37lx	29lx	24lx	20lx	16lx	14lx	12lx	11lx	9lx	8lx	7lx	7lx	6lx
219.9fcd	55fcd	24.4fcd	13.7fcd	8.8fcd	6.1fcd	4.5fcd	3.4fcd	2.7fcd	2.2fcd	1.8fcd	1.5fcd	1.3fcd	1.1fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd

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:

47 Lumen/Watt

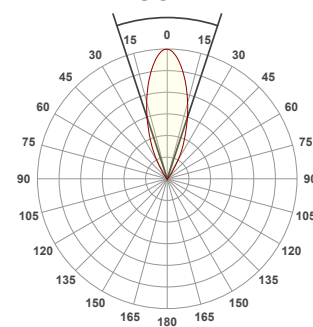
Light quality:

CRI: 91.7

Color temperature:

3000 K

36.4°



Product name:

**100-LED-SS - LED51TW-5020-35
@ 3000K-No Lens**

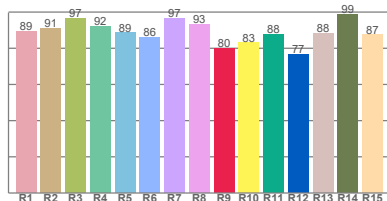
Item number:

**ProSpex 100 Fixed Satin Silver
Reflector - LED51TW-5020-35 @
3000K**

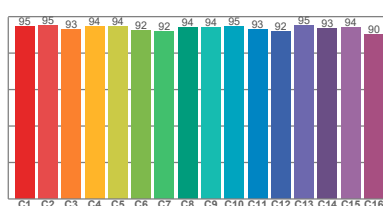
**Delivered information for above
fixture and LED combination.**

Output: 706 Lumen Peak intensity: 1587 cd Power consumption: 15.1

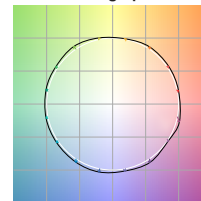
CRI R values



TM30 C Values

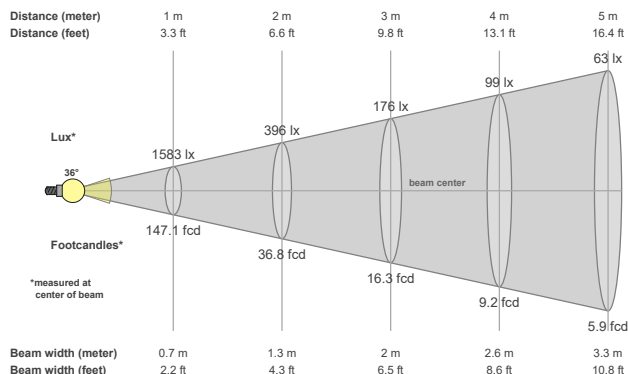


Color vector graphics



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 deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3000 K	91.7	79.8	93.7	106.3	93.9	0.437	0.404	0.256	0.336	-0.0124

Beam details



Beam angles

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%
36.4°	65.4°	82.1°

Beam intensities

Peak intensity	Int. ratio in 120° cone	Int. ratio in 90° cone
1587 cd	99.5%	98.4%

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
1583lx	396lx	176lx	99lx	63lx	44lx	32lx	25lx	20lx	16lx	13lx	11lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx
147.1fcd	36.8fcd	16.3fcd	9.2fcd	5.9fcd	4.1fcd	3fcd	2.3fcd	1.8fcd	1.5fcd	1.2fcd	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