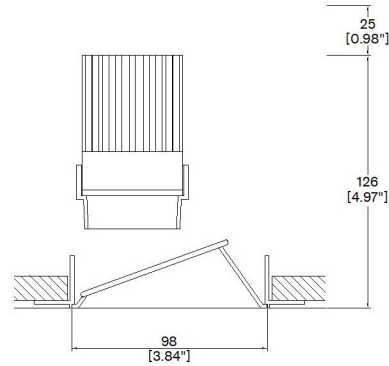# Plus3.5 Round Wallwash

Plus provides high performance electronics and architectural aesthetics in round and square 3.5" and 5" trim. Plus products include adjustable, fixed and wallwash in a flanged or trimless installation kit. Adjustable can be provided with gear driven adjustment or manual adjustment. Available in various front plates (Conical, Bevel, Edge, Pyramidal and Square Bevel) Bevel and Square Bevel available with various color inserts. Tray, retrofit and housing installation methods (NIC, IC, AT, T24 and CCEA) Multiple configurations for equal spacing also available. Lucent modules available in a wide range of color temperatures, beam angles, intensities, and effects (Ambiance WarmDim and Dynamic Tuneable White). MR16 and GU10 LED lamp options available. TRIAC/Phase, 0-10v/1-10v, DMX and DALI/Digital dimming.
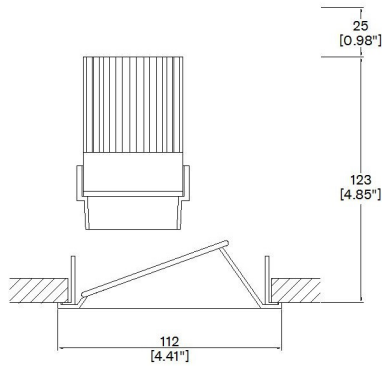
A090+LED-TR-WW
0° - 30° vertical adjustment
Cut-out 102mm (4.02") Ø

A090+LED-TL-WW
0° - 30° vertical adjustment
Cut-out 102mm (4.02") Ø

Installation kit for overlap flange

Mud-in kit for seamless/trimless

LED Source	LED51/2	LED51/U
CCT	3000K	3000K
Drive Current	350mA	350mA
Power inc Driver	13.6W	13.6W
Beam Angle	38°	38°
Delivered Lumens	647	557
Delivered Intensisty cd	880	699
Efficacy lm/w	48	41
Forward Volt	33V	33V
CRI	≥90 CRI	≥98 CRI

Project Ref: _____   Location Ref: _____

Specify fixture part number (All boxes must be filled in to correctly order)

| A090+LED | | | | | | | 38 | | | | | | |

Installation
TR-WW   Flange kit
TL-WW   Mud-in kit

Finish
WH   White
BK   Black
RAL   Custom*

Location
XX   Dry
DP   Damp

Ceiling Thickness
SC   Standard Ceiling (1/2"-5/8"-3/4")
C   Custom

LED Type
LED51/2   LED51/2 (90CRI)
LED51/U   LED51/U (98CRI)

CCT
27   2700K
30   3000K
35   3500K
40   4000K (90 CRI ONLY)

Beam Angles
38   38

Housing/Tray
LMT-13-NIC   Mounting Tray Non-Insulated ceilings
LH-6.75-NIC   Housing 6.75" Non-Insulated ceilings
LH-8.50-AT/IC   Housing 8.50" Insulated/Air-tight ceilings and Chicago Plenum

Mounting Hardware
09   9" to 15.25" - Adjustable Bar Hanger Lengths
14   14" to 24" - Adjustable Bar Hanger Lengths
36   28" to 36" - Adjustable Bar Hanger Lengths
BB   Butterfly Bracket
CB   Caterpillar Bracket

Supply Voltage
120   120V
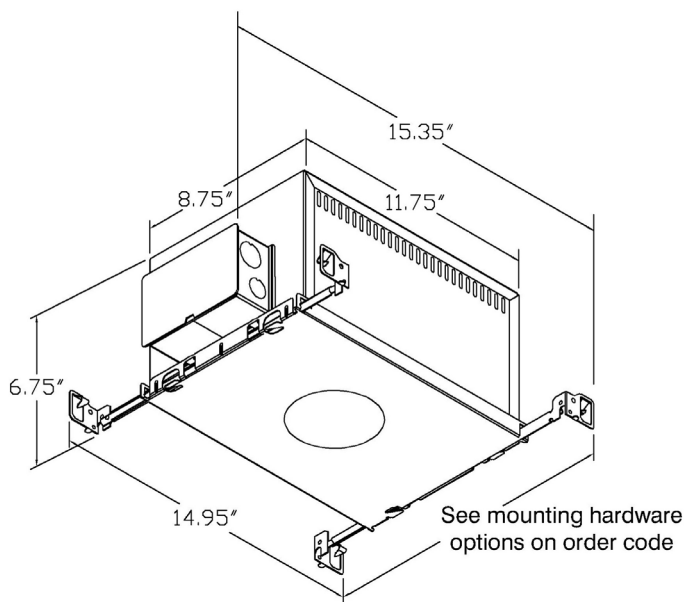**277**   277V

Dimming Protocol
S   Non-Dimmable
P   TRIAC/Phase (120V ONLY) (25-10% Minimum Dimming)***
AWN   Athena wireless RF node****
LHE   EcoSystem Hi-Lume Fade to Black (1% Dimming)
LAE   Lutron 3-Wire Hi-Lume (1% Dimming)
LHP   Lutron Hi-Lume Premier EcoSystem (0.1% Dimming)
A   0-10V (15-5% Minimum Dimming)***
ESD   EldoLED Solo DALI2 (0.1% Dimming)
EED   EldoLED Eco DALI2 (1% Dimming)
ESA   EldoLED Solo 0-10V/1-10V (0.1% Dimming)
EEA   EldoLED Eco 0-10V/1-10V (1% Dimming)
B   Bluetooth**
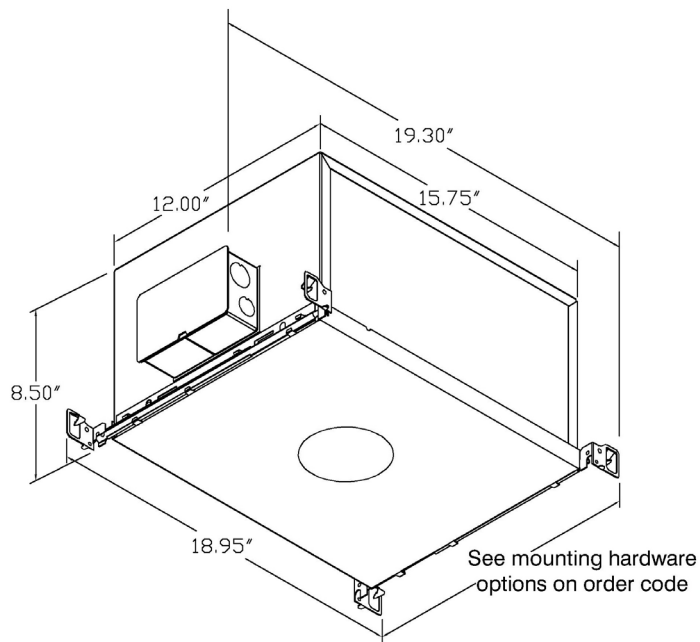
Emergency
E   1.5h Emergency
ES   1.5h Self test

Louvre/Lens
XX   Not required
LL45   Honeycomb
LLCC   Warm Tone
LLUV   UV

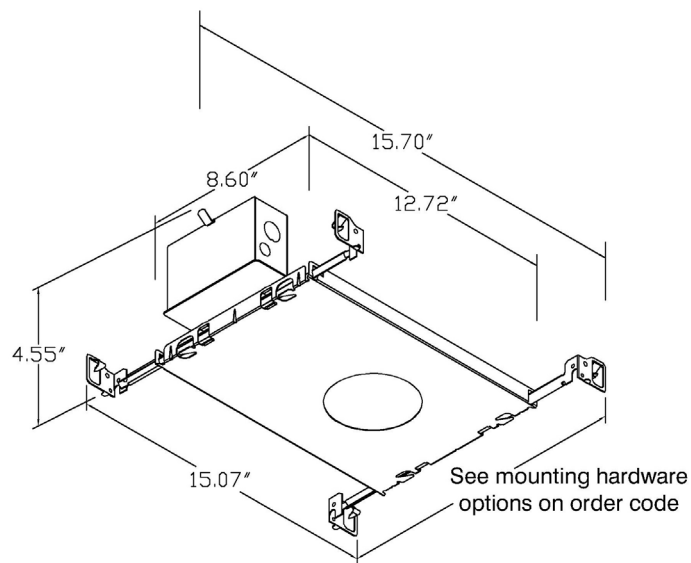*Refer to Technical Details for more information

Housing dimensions

15.35″
8.75″
11.75″
6.75″
14.95″

See mounting hardware
options on order code

LH-6.75
Non-insulated ceilings

19.30″
12.00″
15.75″
8.50″
18.95″

See mounting hardware
options on order code

LH-8.50
Insulated/air-tight ceilings and
Chicago Plenum

Tray dimensions

15.70″
8.60″
12.72″
4.55″
15.07″

See mounting hardware
options on order code

LMT-13
Non-insulated ceilings
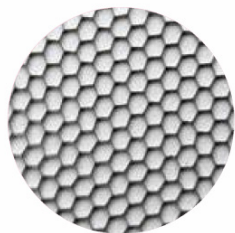
Honeycomb Louvre (LL45)   **Warm Tone (LLCC)**

Technical Details

*Custom color requires a paint chip or RAL code and may increase price and lead-time

It is the responsibility of the specifier/integrator/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 intensisty control. Please check which control system is being used before specifying.

**** Available for integration with Lutron Athena Control systems. Please contact Lucent Lighting Inc./Lutron factory for further details.

^ 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 installation instructions prior to purchase.

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)

Location. Tested from underside of the ceiling.

Data correct at time of publishing. 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.

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, Incorporated. Lucent Lighting reserves the right to take whatever action is necessary to protect its intellectual property, patents and trademarks
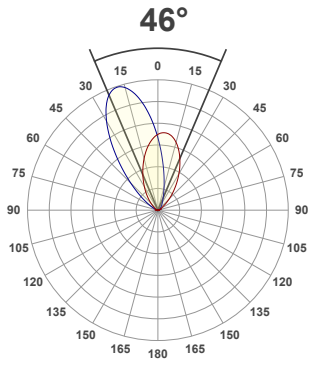
Please notify Lucent Lighting Inc. inaccuracies. E&OE

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Light efficiency:

| 48 Lumen/Watt |

Light quality:

| CRI: 91.6 |

Color temperature:

| 3000 K |

46°

Product name:
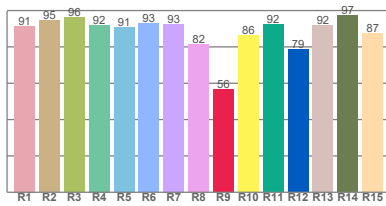**Plus Round Wallwash - LED51 GEN2, 3000K, 38°, 350mA**
Item number:
090+WW-LED51/2-30-38-350mA
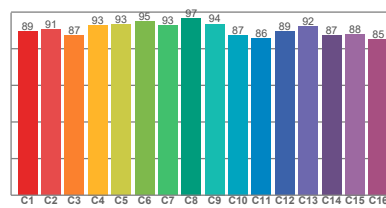
Delivered information for above fixture and LED combination.

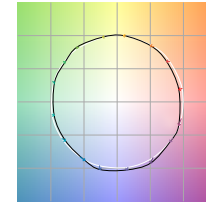**Output: 647 Lumen   Peak intensity: 880 cd   Power consumption: 13.6**

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	56.5	90.3	99.5	90.2	0.437	0.404	0.248	0.347	0.0007

Beam details

Beam angels
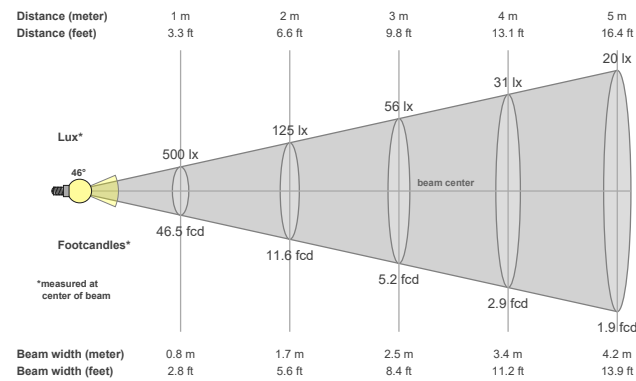
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%
46°	89.8°	125.2°

Beam intensities

Peak intensity	Int. ratio in 120° cone	Int. ratio in 90° cone
880 cd	96.3%	83.2%

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
500lx	125lx	56lx	31lx	20lx	14lx	10lx	8lx	6lx	5lx	4lx	3lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx
46.5fcd	11.6fcd	5.2fcd	2.9fcd	1.9fcd	1.3fcd	0.9fcd	0.7fcd	0.6fcd	0.5fcd	0.4fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd

The above information is for 3000K colour temperature, for specific module information please see LED spec located on our website

For information regarding other colour temperatures please use the following factors for lumen output and candelas:
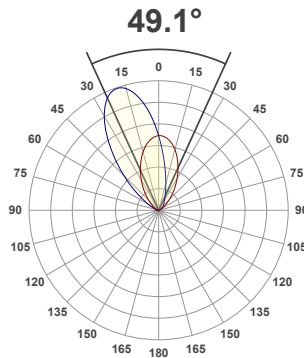
2700K = 1
4000K = 1.084

lucent®

Light efficiency:

42 Lumen/Watt

Light quality:

CRI: 98.0

Color temperature:

3000 K

49.1°

Product name:
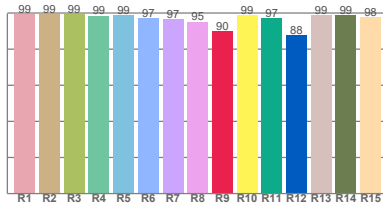090+LED-SQ-WW P20 - LED51_U-30-38-350mA

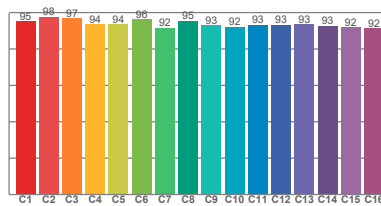**Item number:**
Plus Square Wallwash - LED51_U-30-38-350mA

Delivered information for above fixture and LED combination.

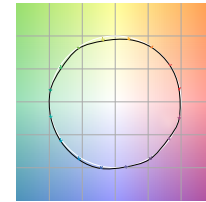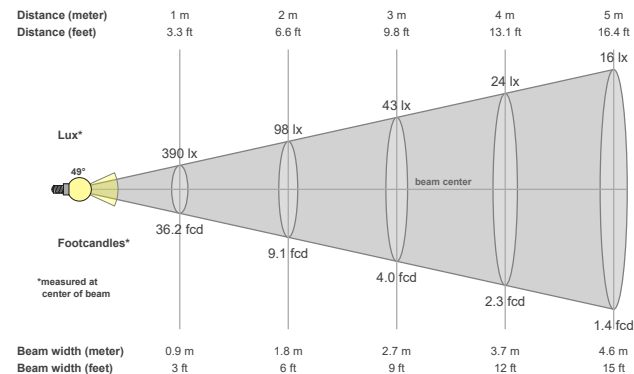**Output: 571 Lumen   Peak intensity: 674 cd   Power consumption: 13.6**

CRI R values

99 99 99 99 99 97 97 95 90 99 97 88 99 99 98

R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15

TM30 C Values

95 98 97 94 94 96 92 95 93 92 93 93 93 93 92 92

C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16

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	98.0	90.2	94.1	98.8	95.5	0.437	0.404	0.250	0.348	0.0006

Beam details

Distance (meter)	1 m	2 m	3 m	4 m	5 m
Distance (feet)	3.3 ft	6.6 ft	9.8 ft	13.1 ft	16.4 ft

16 lx
24 lx
43 lx
98 lx
390 lx

Lux*
49°
36.2 fcd
9.1 fcd
4.0 fcd
2.3 fcd
1.4 fcd

beam center

Footcandles*

*measured at center of beam

Beam width (meter)	0.9 m	1.8 m	2.7 m	3.7 m	4.6 m
Beam width (feet)	3 ft	6 ft	9 ft	12 ft	15 ft

Beam angels

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%
49.1°	98.1°	134.7°

Beam intensities

Peak intensity	Int. ratio in 120° cone	Int. ratio in 90° cone
674 cd	94.7%	78.9%

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
390lx	98lx	43lx	24lx	16lx	11lx	8lx	6lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx
36.2fcd	9.1fcd	4fcd	2.3fcd	1.4fcd	1fcd	0.7fcd	0.6fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd

The above information is for 3000K colour temperature, for specific module information please see LED spec located on our website

For information regarding other colour temperatures please use the following factors for lumen output and candelas:

2700K = 1