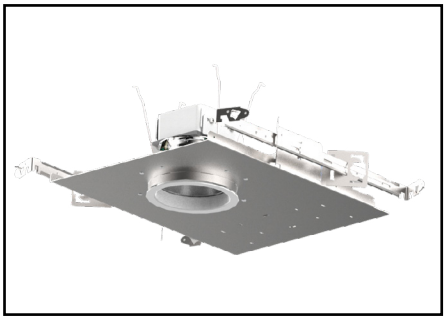
SECURITY LIGHTING™

prescolite

LF4SL LENS

4" LED Lens Downlight



APPLICATIONS:
LiteFrame LF4SL is a 4" specification grade LED lensed downlight that utilizes high efficiency LEDs to obtain color consistency, energy savings, and low maintenance costs. 50,000 hours minimum life up to 35°C (95°F) in open plenum applications.

HOUSING:
One-piece 22 gauge non-corrosive steel platform. Pre-wired j-box with snap-on cover for easy access. Snap-in- connection from driver compartment allows easy installation of light engine/trim assembly without tools above or below the ceiling and can be upgraded to accommodate technology improvements. Approved for 8 (4 in/4 out) No. 12 AWG conductors rated for 90°C through wiring.

REFLECTOR:
High purity aluminum, Alzak, iridescence suppressed, semi-diffuse reflector. Self-trim standard.

IP65 AND VR:
IP65 and vandal-resistant (VR) options are made of 16GA cold rolled steel stampings and come standard with a clear high impact polycarbonate lens. Each option uses self tapping stainless steel screws painted to match the white trim color standard; tamper-resistant screws are used on the VR option only. The IP65 rated option is completely sealed without the use of silicone on standard non-porous ceiling surfaces.

LED LIGHT ENGINE:
The LF4SL uses the Philips Fortimo DLM LED Module. This module provides controlled color consistency (3 SDCM) from fixture to fixture. The system is designed for optimal life and lumen maintenance (>50,000 hours at 70% lumen maintenance).

Both reflector and light engine assembly are mechanically retained to housing.

LED DRIVER:

The LF4SL utilizes the Philips Fortimo LED Driver specifically designed to optimize efficiency of the Fortimo DLM Module. Driver is designed to match the 50,000 hours minimum life expectancy of the system. Meets UL Class 2, inherent short circuit protection, self limited, overload protected. If critical temperatures are reached on driver or LED module, integrated thermal feedback loop will gradually reduce current to protect system life. Driver is universal 120V-277V. Optional Lutron Series A driver is also available to 1%.

DIMMING:
Comes standard with 0-10V dimming capability. Flicker-free dimming to 10%. 0-10V control may consume up to 1mA. 0-10V, Lutron 2 wire, 3 wire, and EcoSystem dimming available to 1% and DMX with RDM (remote device management) dimming to less than 0.1%.

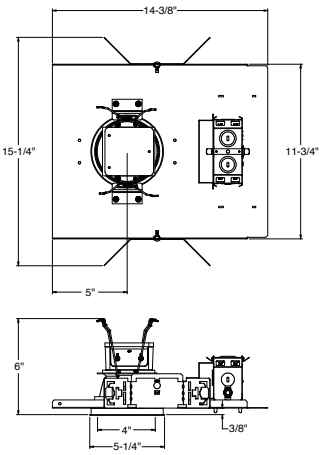
INSTALLATION:
Adjustable Bar hangers included (not with CP option). Universal adjustable mounting brackets also accept 1/2" EMT conduit or 1 1/2" or 3/4" lathing channel (by others) or Prescolite 24" bar hangers (B24 or B6).

CERTIFICATIONS:
CSA certified to US and Canadian safety standards. Suitable for wet locations. Approved for through wiring. Non-IC rated. EMR is damp rated use only.

WARRANTY:
5 year warranty. See www.prescolite.com for details.

LiteFrame®

Ceiling Cutout: 5"
Maximum Ceiling Thickness 5/8"
For conversion to millimeters, multiply inches by 25.4
Not to Scale



See page 4 for EMR, CP and NX(W)E line art.

CATALOG NUMBER: EXAMPLE: LF4SL-4LFSL11L30K8DL

Order housing, reflector, and accessories separately

STANDARD 0-10V DIMMING

ALTERNATIVE DIMMING TO 1% & 0.1%

HOUSING

- ❑ **LF4SL** Standard Lumen 0-10V 10% dimming 120-277V

DRIVER OPTION

Standard 0-10V 10% Dimming

- ❑ **DM1** 0-10V dimming at 1%
- ❑ **DMT**[13,14] SpectraSync™ Tunable White
- ❑ **DMTW**[15] SpectraSync™ Tunable Dim to Warm

VOLTAGE OPTION

Standard 120V-277V

- ❑ **347** 347V

HOUSING OPTIONS

- ❑ **EMR**[2] Emergency Battery Pack with integral test switch and indicator light
- ❑ **CP**[2,3,4,16,18] Chicago Plenum
- ❑ **LV**[11] Lutron Vive Enabled, 0-10V, 120-277V
- ❑ **NXWE**[3,17,18] NX Wireless Enabled
- ❑ **NXE**[3,17,18] NX Enabled, Dual SmartPorts

TRIM APERTURE

- ❑ **4LFSL** Semi-Diffuse Clear Alzak

OUTPUT

- ❑ **11L** 1100 Lumen Module
- ❑ **15L** 1500 Lumen Module
- ❑ **20L**[16] 2000 Lumen Module

KELVIN

- ❑ **27K** 2700 Kelvin
- ❑ **30K** 3000 Kelvin
- ❑ **35K** 3500 Kelvin
- ❑ **40K** 4000 Kelvin
- ❑ **50K** 5000 Kelvin
- ❑ **2230TD**[19] 2200K-3000K SpectraSync™ Dim to Warm
- ❑ **2750T**[19] 2700K-5000K SpectraSync™ Tunable White
- ❑ **2765T**[19] 2700K-6500K SpectraSync™ Tunable White

CRI

- ❑ **8** 80+ CRI
- ❑ **9** 90+ CRI

REF. FINISH OPTIONS

Standard Semi-Diffuse

- ❑ **SP** Specular
- ❑ **SS** Semi-Specular
- ❑ **MFC** American Matte™
- ❑ **V** Kurt Versen Specular
- ❑ **VS** Kurt Versen Softglow®
- ❑ **VSS** Kurt Versen SoftSheen™

REF. COLOR OPTIONS

Standard Clear Alzak

- ❑ **CG** Champagne Gold Alzak
- ❑ **GD** Gold Alzak
- ❑ **BL** Black Alzak
- ❑ **WE** Wheat Alzak
- ❑ **LW** Light Wheat Alzak
- ❑ **PW** Pewter Alzak
- ❑ **WH** Painted Matte White Reflector and Flange
- ❑ **BC** Painted Black Reflector and Flange

REFLECTOR OPTIONS

- ❑ **FLU**[8,9] Flush Mount Lens (Brushed Aluminum Flange Standard)
- ❑ **IP65**[6,9,10] Flush Lens, Dust and Water tight to IP65
- ❑ **VR**[6,9,10] Vandal Resistant

TRIM OPTIONS

- ❑ **WT** Painted White Flange Only
- ❑ **TRG** Trim Ring Gasket
- ❑ **BNCT**[8,12] Black Non-conductive Trim
- ❑ **WNCT**[8,12] White Non-conductive Trim
- ❑ **BNCTB**[8,12] Black Non-conductive Trim Baffled
- ❑ **WNCTB**[8,12] White Non-conductive Trim Baffled

LENS

- ❑ **CL**[7] Clear Lens (Regressed Standard)
- ❑ **DL**[7] Diffuse Lens (Regressed Standard)

ACCESSORIES

- ❑ **B24**[4] Set of two 24" bar hangers for T-bar ceilings
- ❑ **B6**[4] Set of two (2) bar hangers for ceiling joist up to 24" centers
- ❑ **LiteGear**[5] Inverter, single phase central lighting, 125VA-250VA
- ❑ **LPS Series**[5] LitePower micro-inverter, 20VA-55VA

Use with HDM/2DM/DMX dimming option: Match Housing to Trim Output

- ❑ **LF4SL11L**
- ❑ **LF4SL15L**
- ❑ **LF4SL20L**

- ❑ **HDM**[1] Hi-Lume 1% 3-wire/ EcoSystem LED Driver
- ❑ **2DM**[1] Hi-Lume 1% 2-wire LED Driver (120V only)
- ❑ **DMX**[1] DMX with RDM dimming to <0.1%

- ❑ **120** 120V
- ❑ **277** 277V

- ❑ **LVE (HDM Only)** Lutron Vive Enabled, EcoSystem

**HDM, 2DM & DMX also available with EMR and WW*

Notes:
1. For HDM, 2DM and DMX options, housing output must match trim output
2. Not available with 347V
3. Not available with EMR, DMX, LV or LVE
4. Bar hanger accessory should be selected with CP housing, not included as standard
5. See Central Inverter compatibility note and web links on page 3
6. IP65 and VR can not be chosen together
7. Not available with IP65 or VR
8. Not available with color/finish options. Semi-Diffuse finish only.
9. Not available with BNCT, WNCT, BNCTB, or WNCTB.
10. Not available with FLU
11. LV requires standard dimming or DM1
12. Must select CL or DL
13. Must select either 2750T or 2765T Kelvin with DMT driver option
14. Not available with LV or LVE
15. Must select 2230TD with DMTW driver option
16. Not compatible with DMT or DMTW
17. Not available with CP option
18. Not available with HDM, 2DM or DMX
19. Only available in 90+ CRI

Web: www.securitylighting.com
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SECURITY LIGHTING™

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LF4SL LENS

4" LED Lens Downlight

DRIVER DATA	4LFSL20L	4LFSL15L	4LFSL11L
Input Voltage	120-277V	120-277V	120-277V
Input Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input Current	0.105A (120V)	0.133A (120V)	0.184A (120V)
	0.045A (277V)	0.058A (277V)	0.08A (277V)
Input Power	22.1W	16.2W	12.7W
Power Factor	≥0.90	≥0.90	≥0.90
THD	<20%	<20%	<20%
EMI Filtering	FCC 47CFR	FCC 47CFR	FCC 47CFR
	Part 15, Class A	Part 15, Class A	Part 15, Class A
Operating Temperature	-20°C to 35°C	-20°C to 35°C	-20°C to 35°C
Dimming	0-10V	0-10V	0-10V

Over-voltage, over-current, short-circuit protected

*Power consumption and photometric output may vary slightly with various driver and CRI options.

When operating in EM mode, the fixture will deliver approximately 30% of the published full lumen output.

Lumen Multiplier Table

Photometrics published below are for the 3000K, 80 CRI. This table may be used to approximate the lumen values at different Kelvin temperatures and CRI.

4000 Kelvin	1.07
3500 Kelvin	1.00
3000 Kelvin	1.00
2700 Kelvin	0.95

80 CRI.....1.00

90 CRI.....0.91

Delivered Lumens

The table below shows the delivered lumens for the various lumen outputs.

Output	CRI	Lens	Delivered Lumens	Input Watts	Lumens Per Watt	Full Catalog String
11L	80	CL	1055	12.7	83	LF4SL-4LFSL11L30K8CL
15L	80	CL	1390	16.2	86	LF4SL-4LFSL15L30K8CL
20L	80	CL	1845	21.6	85	LF4SL-4LFSL20L30K8CL
11L	80	DL	961	12.5	77	LF4SL-4LFSL11L30K8DL
15L	80	DL	1266	16.2	78	LF4SL-4LFSL15L30K8DL
20L	80	DL	1681	21.6	78	LF4SL-4LFSL20L30K8 DL
11L	80	FLUDL	917	12.7	72	LF4SL-4LFSL11L30K8FLUDL
15L	80	FLUDL	1208	15.8	76	LF4SL-4LFSL15L30K8FLUDL
20L	80	FLUDL	1603	21.6	74	LF4SL-4LFSL20L30K8FLUDL
11L	80	VR/IP65	1022	12.7	80	LF4SL-4LFSL11L30K8VR/IP65
15L	80	VR/IP65	1346	15.9	85	LF4SL-4LFSL15L30K8VR/IP65
20L	80	VR/IP65	1787	21.6	83	LF4SL-4LFSL20L30K8VR/IP65

LF4SL-4LFSL20L30K8DL

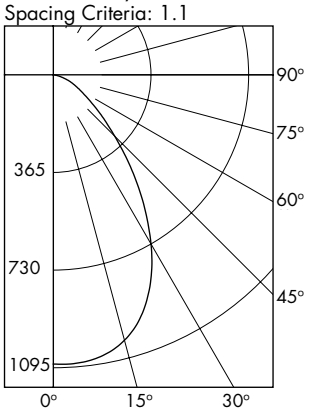
LED Light Engine: 3000K, 80 CRI

System Wattage: 21.6W

Fixture Delivered Lumens: 1681

Fixture Efficacy: 78

Spacing Criteria: 1.1



Test No. 18.00441-02

Tested at 25°C Ambient in accordance to IESNA LM-79-2008

CANDELA DISTRIBUTION

DEG	CANDELA
0	1088
5	1088
15	1034
25	864
35	591
45	327
55	164
65	84
75	30
85	0
90	0

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	788	47
0-40	1156	69
0-60	1562	93
0-90	1681	100
90-180	0	0
0-180	1681	100

LUMINANCE DATA IN CANDELA/ SQ. METER

Angle in Vertical	Average
45°	57006
55°	35326
65°	24483
75°	14159
85°	0

COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD

Room Cavity Ratio	% Effective Ceiling Cavity Reflectance: 80				70				50			30			10		
	20% Effective Floor Cavity Reflectance																
	% Wall Reflectance																
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54
7	74	63	55	50	73	62	55	50	60	54	50	59	53	49	58	53	49
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38

LF4SL-4LFSL20L30K8DL Test No. 18.00441-02

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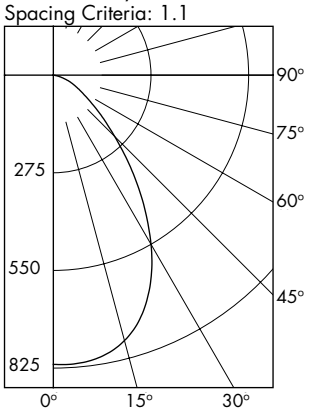
LF4SL LENS

4" LED Lens Downlight

LF4SL-4LFSL15L30K8DL
LED Light Engine: 3000K, 80 CRI
System Wattage: 16.2W
Fixture Delivered Lumens: 1266
Fixture Efficacy: 78
Spacing Criteria: 1.1



Test No. 18.00441-02

Tested at 25°C Ambient in accordance to IESNA LM-79-2008

CANDELA DISTRIBUTION

DEG	CANDELA
0	819
5	819
15	779
25	651
35	445
45	246
55	124
65	63
75	22
85	0
90	0

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	593	47
0-40	871	69
0-60	1176	93
0-90	1266	100
90-180	0	0
0-180	1266	100

LUMINANCE DATA IN CANDELA/ SQ. METER

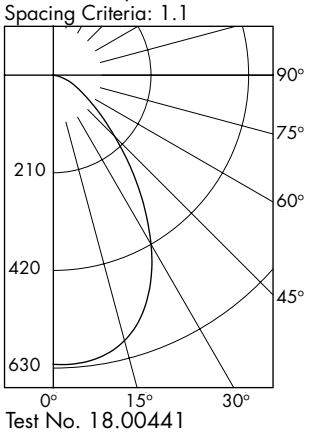
Angle in Vertical	Average
45°	42932
55°	26605
65°	18438
75°	10663
85°	0

COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD

Room Cavity Ratio	% Effective Ceiling Cavity Reflectance: 80				70				50			30			10		
	20% Effective Floor Cavity Reflectance																
	% Wall Reflectance																
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54
7	74	63	55	50	73	62	55	50	60	54	50	59	53	49	58	53	49
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38

LF4SL-4LFSL15L30K8DL Test No. 18.00441-01

LF4SL-4LFSL11L30K8DL
LED Light Engine: 3000K, 80 CRI
System Wattage: 12.5W
Fixture Delivered Lumens: 961
Fixture Efficacy: 77
Spacing Criteria: 1.1



Test No. 18.00441

Tested at 25°C Ambient in accordance to IESNA LM-79-2008

CANDELA DISTRIBUTION

DEG	CANDELA
0	622
5	622
15	591
25	494
35	338
45	187
55	94
65	48
75	17
85	0
90	0

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	450	46.9
0-40	661	68.8
0-60	893	92.9
0-90	961	100.0
90-180	0	0.0
0-180	961	100.0

LUMINANCE DATA IN CANDELA/ SQ. METER

Angle in Vertical	Average
45°	32620
55°	20214
65°	14009
75°	8102
85°	0

COEFFICIENTS OF UTILIZATION ZONAL CAVITY METHOD

Room Cavity Ratio	% Effective Ceiling Cavity Reflectance: 80				70				50			30			10		
	20% Effective Floor Cavity Reflectance																
	% Wall Reflectance																
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82
3	97	89	82	77	95	87	81	76	84	79	75	82	78	74	79	76	73
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54
7	74	63	55	50	73	62	55	50	60	54	50	59	53	49	58	53	49
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41
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LF4SL-4LFSL11L30K8DL Test No. 18.00441

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LF4SL LENS

4" LED Lens Downlight

Dimming Compatibility Table

Dimming Ballast	Manufacturer	Web Link
DM/DM1	Lutron DVTV	http://bit.ly/11jSvZg
DM/DM1	Leviton AWRMG-7xx, AWSMG-7xx, AWSMT-7xx	http://bit.ly/1BJn2R9
HDM	Lutron	http://bit.ly/1vtjHAl
2DM	Lutron	http://bit.ly/1S4WjXK

DMX

See instruction sheet on www.prescolite.com for connection & installation information.
Other useful links: http://www.eldoled.com/led-drivers/powerdrive/50-watt/ac-561s/

Central Inverters

For full fixture output in back-up mode, we recommend you visit www.dual-lite.com for your Central Lighting Inverter options. Please contact your local Hubbell representative for any assistance with proper sizing and loading of your inverter selection. Central lighting inverters must be ordered separately.

LiteGear: www.dual-lite.com/products/litegear_lg_series
LPS Series: www.dual-lite.com/products/lps

SpectraSync™ Color Tuning Technology:

SpectraSync™ Color Tuning Technology

Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with two distinct SpectraSync™ Color Tuning Technology.

Dim to Warm: Dim to Warm mimics the familiar warming effect that occurs with traditional incandescent sources as they are dimmed. (Available with 2200K-3000K).

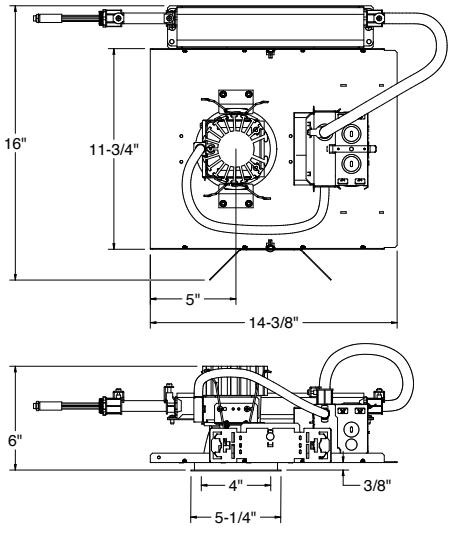
Tunable White: Tunable White offers users the ability to tailor CCT to their personal preference, enhancing task visibility, material and colors or the aesthetics of the space. (Available with 2700K-5000K or 2700K-6500K).

See separate SpectraSync™ Tech Sheet for additional details.

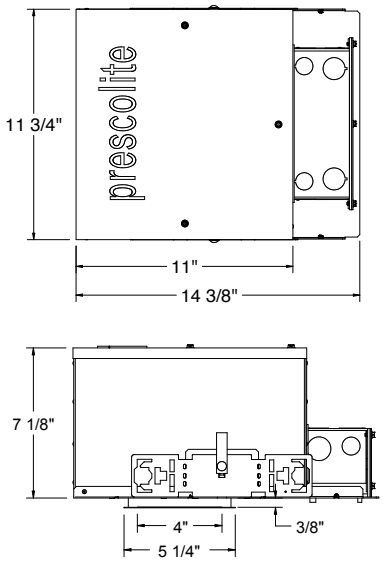
NX Distrubuted Intelligence:

NX DISTRIBUTED INTELLIGENCE

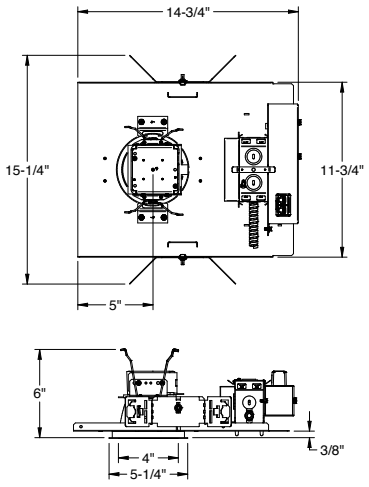
Supports indoor and outdoor applications, wired, wireless and hybrid networked NX lighting control deployments and enables emerging applications such as Hubbell Lighting's SpectraSync™ color tuning technology.
See separate NX™ Solutions Guide for additional details.
See Hubbell Controls Solution NX Brochure.



LF4SL EMR



LF4SL CP



LF4SL LENS NX(W)E

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