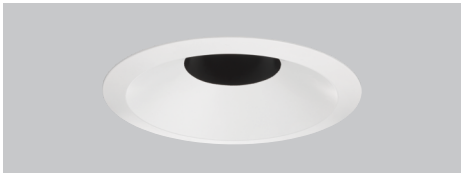
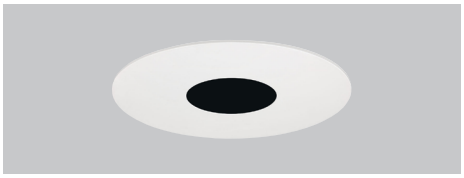
TRIM STYLES

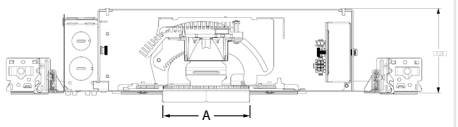
Angle-Cut Reflectors



Bevels



Pinholes



A Dimension:
Self Flanged: 4.625"
Flangeless: 3.875"

FEATURES

SPOT ON! OPTICS

- Field Interchangeable TIR Optics in 10 distributions
- Accommodates up to 3 beam control lenses or filters

ACU-AIM™ PRECISION AIMING

- Precision geared hot-aiming provides 370° horizontal, 45° vertical aiming via Philips screwdriver
- Optimized center beam optics translates center of the beam through the center of the aperture resulting in low aperture brightness

EXCEPTIONAL PERFORMANCE FROM 3-INCH APERTURE

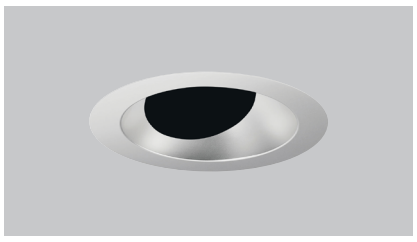
- Up to 2883 lumens, 26,151 CBCP Delivered!
- Exceptionally consistent color with < 2SDCM for Static White & Tunable White; <1SDCM for WarmDim
- Excellent color rendition with 95+ CRI | 90+ R9 Available
- WarmDim® option mimics halogen dimming (3000K-1800K)
- Tunable White CCT range of 5000K –2700K

PERFORMANCE

LUMEN PACKAGE	WATTS IN	DELIVERED LUMENS	EFFICACY (LPW)	MCBCP
Static White				
08LM	7	788	113	7145
12LM	11	1156	105	10483
15LM	14	1435	103	13014
20LM	20	2028	101	18398
25LM	26	2519	97	22853
30LM	33	2883	87	26151
WarmDim®				
08LM	14	736	53	10070
12LM	20	1188	59	8490
15LM	26	1469	57	6604
Tunable White				
08LM	11	994	90	5976
12LM	18	1450	81	8932
15LM	20	1663	83	9996
20LM	31	2343	76	14078

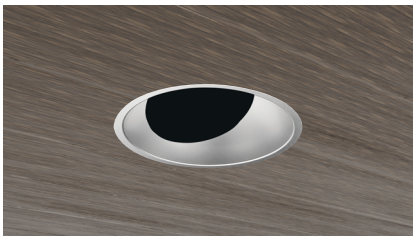
Performance with 3AC trim at 30K | 80CRI (Static White), 30K | 90CRI (WarmDim) & 50K | 90CRI (Tunable White)
Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25°C

FLANGE STYLES



Self-Flanged

Flangeless (Gypsum)



Flangeless (Wood | Stone | Tile)

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ORDERING INFORMATION

EXAMPLE: AX3 A 12LM 30K 95CRI 24D FPC 120 ICAT 3ABV BS WHSF

Housing Style	Lumens	CCT	CRI	Beam	Driver	Voltage [4]	Ratings	Options
AX3 A New Construction Adjustable **AX3 LPA** Low Profile New Construction Adjustable	**Static White** **08LM** 800 lumens **12LM** 1200 lumens **15LM** 1500 lumens **20LM** 2000 lumens **25LM** 2500 lumens **30LM** [1] 3000 lumens	**27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K	**80CRI** **90CRI** [2] **95CRI** [2]	**12D** 12° beam **20D** 20° beam **24D** 24° beam **30D** 30° beam **35D** 35° beam **40D** 40° beam **45D** 45° beam **50D** 50° beam **60D** 60° beam **60D20D** 60° x 20°	**GZ1** 0-10V | 1% min **EZ1** 0-10V eldoLED | linear 1% min **EZB** 0-10V eldoLED | log <1% min **EDXB** eldoLED DMX | square <1% min **EDAB** eldoLED DALI 6 | log <1% min **FPC** Phase Cut Dimming | 1% min **ECOD** Lutron EcoSystem | 1% min	**120** **277** **MVOLT** (120-277)	**(blank)** Non-ICAT **CP** [5] Chicago Plenum **ICAT** [5] IC Rated, Air-tight	**NLIGHT** [6] nLight Dimming pack controls (Static White and WarmDim only) **E6WT20R** [7] Emergency 6W battery pack with remote test switch, T20 compliant
	WarmDim® **08LM** 800 lumens **12LM** 1200 lumens **15LM** 1500 lumens	**WDIM HALR** 3000K - 1800K	**90CRI**	**12D** [3] 12° beam **15D** [3] 15° beam **20D** [3] 20° beam **24D** 24° beam **35D** 35° beam **40D** 40° beam **50D** 50° beam **60D20D** 60°x 20°	**GZ1** 0-10V | 1% min **FPC** Phase Cut Dimming | 1% min			
	Tunable White **08LM** 800 lumens **12LM** 1200 lumens **15LM** 1500 lumens **20LM** 2000 lumens	**TUWH** 5000K - 2700K	**90CRI**	**20D** 20° beam **24D** 24° beam **35D** 35° beam **40D** 40° beam **50D** 50° beam **60D20D** 60° x 20°	**GZ1** 0-10V | 1% min **NLT** [6] nLight nTune interface **EDAB** eldoLED DALI 6 | log <1% min **EDABT8** eldoLED DALI 8 | log <1% min			

Adjustable Trim

Reflectors

3AC Angle Cut Reflector (0-45°)

3AC20 Shallow Angle Cut Reflector (0-20°)

Bevels

3ABV Bevel Adjustable

3SHABV Dead Front, Non Conductive Shower Bevel Adjustable

Pinholes

3APIN 1 1/4" Pinhole Adjustable

3APINLG 1 3/4" Pinhole Adjustable

Reflector Finish

W	White Paint
CD	Clear Diffuse
CS	Clear Specular
BS	Black Specular
WTD	Wheat Diffuse

Flange Style

Flanged

SF	Self Flanged (same finish as reflector)
WHSF	Self Flanged, White Painted Flange (not available with W finish)

Flangeless [8]

FM	Flangeless

Trim Lens | Environment

(blank)	Open | Damp Location
WET [9]	Clear | Wet Location

Upper Reflector (Shield) Finish

BS	Black Specular
BD	Black Diffuse

Trim Finish & Flange Style

Flanged

WHSF	White, Flanged
BLSF	Black, Flanged

Flangeless [8]

WHFM	White, Flangeless
BLFM	Black, Flangeless

Trim Lens | Environment

(blank)	Open | Damp Location
WET	Solite | Wet Location

Ceiling Installation

Flanged

(blank)	Ceiling Thickness < 0.875"
CTA3/125	Ceiling Thickness 0.875" - 1.25"
CTA3/163	Ceiling Thickness 1.25" - 1.625"

Flangeless (Gypsum)

FMA3/087	Ceiling Thickness < 0.875"
FMA3/125	Ceiling Thickness 0.875" - 1.25"
FMA3/163	Ceiling Thickness 1.25" - 1.625"

Flangeless (Wood | Stone | Tile) [10]

SFM3/087 (B,W)	Ceiling Thickness < 0.875"
SFM3/125 (B,W)	Ceiling Thickness 0.875" - 1.25"
SFM3/163 (B,W)	Ceiling Thickness 1.25" - 1.625"

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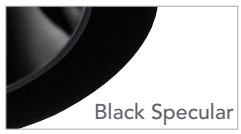
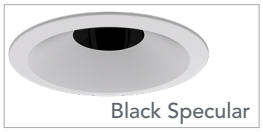
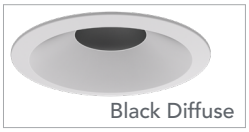
REFLECTOR FINISHES



BEVEL & PINHOLE FINISHES

Upper Reflector Finish





Trim Finish

ORDERING NOTES

1. 30LM not available with LPA
2. 90CRI and 95CRI available on 27K and 30K only. Contact factory for other CCT/CRI combinations.
3. For WDIM, 12D only available with 08LM; 15D only available with 12LM; 20D only available with 15LM
4. MVOLT standard on GZ1, EZ1, EZB, ECOD, EDXB, EDAB, EDABT8, NLT (unless NLIGHT). Must be 120 for FPC.
5. CP or ICAT not available with LPA at 25LM; not available with A at 30LM; not available with 15LM WDIM or 20LM TUWH
6. Must specify 120 or 277 volts for NLIGHT; MVOLT for NLT. NLIGHT only available with EZ1 or EZB (for static white) or GZ1 (for warmDim). NLT and NLIGHT not available with CP.
7. E6WT20R not available with WDIM, TUWH, EDXB, CP, ICAT, or NLIGHT.
8. Must specify FMA3 or SFM3 option.
9. 3AC20 not available with WET.
10. Specify finish: B = Black, W = White.

ACCESSORIES

Beam Control Lenses & Filters

DIFF 200	Diffuse Spread lens
SOLITE 200	Solite Uniformity Lens
PRISM 200	Prismatic Lens
LSPREAD 200	Linear Spread Lens
HCLBL 200	Hexcell Louver
UVF 200	UV Filter Lens
DCCF 200 HAL4250	Daylight Blue Correction

Replacement Optics

Static White Optics

3AXOPT/12D	12° Beam
3AXOPT/20D	20° Beam
3AXOPT/24D	24° Beam
3AXOPT/30D	30° Beam
3AXOPT/35D	35° Beam
3AXOPT/40D	40° Beam
3AXOPT/45D	45° Beam
3AXOPT/50D	50° Beam
3AXOPT/60D	60° Beam
3AXOPT/60D20D	60°x20° Beam

WarmDim Optics

3AXWDOPT/12D	12° Beam
3AXWDOPT/15D	15° Beam
3AXWDOPT/20D	20° Beam
3AXWDOPT/24D	24° Beam
3AXWDOPT/35D	35° Beam
3AXWDOPT/40D	40° Beam
3AXWDOPT/50D	50° Beam
3AXWDOPT/60D20D	60°x20° Beam

Tunable White Optics

3AXTWOPT/20D	20° Beam
3AXTWOPT/24D	24° Beam
3AXTWOPT/35D	35° Beam
3AXTWOPT/40D	40° Beam
3AXTWOPT/50D	50° Beam
3AXTWOPT/60D20D	60°x20° Beam

Optional Installation Accessories

Bar Hangers

HB1	Juno Real Nail® 3 Bar Hangers
HB26	26" C-Channel Bar Hangers
HB50	50" C-Channel Bar Hangers
LB27	27" Linear Bar Hangers

Note: Fixture supplied with Pro-VI™ Bar Hangers

Emergency Inverter

IIS 35 HE	Up to 35W Remote Mount Micro Inverter (30LM Excluded)

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PRODUCT SPECIFICATIONS

FIELD INTERCHANGEABLE LED LIGHT ENGINE

- Future proof and easy to maintain-serviceable from below the ceiling

Static White:

- <2SDCMBinning
- 2700K|3000K|3500K|4000KCCT
- 80+CRI available for all CCTs
- 90+CRI available for 2700K,3000K
- 95+ CRI (>90 R9) available for 2700K, 3000K

WarmDim:

- Proprietary WarmDim technology mimics halogen,with CCT shifting from 3000K to1800K when dimmed.
- <1SDCM Binning, 90+CRI

Tunable White:

- Tunable CCT range 5000K to 2700K
- <2 SDCM Binning, 90+ CRI

SPOT-ON! PRECISION OPTICS

- Field Interchangeable TIR Optics from 12° FWHM to 60° FWHM provide smooth, striation-free beams
- Patented auto-adjusting optic holder (US Patent 8,950,911). Static White fixtures accommodate up to three (3) beam control lenses and/or filters for AX3 A and up to two (2) for AX3 LPA. WarmDim and Tunable White fixtures accommodate up to two (2) beam control lenses and/or filters.
- UGR is zero for fixtures aimed at nadir with a cut-off equal to or less than 60°, per CIE 117-1996 Discomfort Glare in Interior Lighting. UGR FAQs

ACU-AIM™ PRECISION AIMING

- Precision Geared hot-aiming via Philips screwdriver
- 370° horizontal, 45° vertical aiming
- Optimized center beam optics translates center of the beam through the center of the aperture for maximum efficiency and low aperture brightness
- Numeric indicator marks allow contractor to pre-aim fixtures

HIGH QUALITY TRIMS

- Available with die cast bevels and pinholes and spun, aluminum reflectors.
- Non-corrosive, polycarbonate bevel option for shower applications
- Available in Self Flanged and Flangeless
- Must specify FMA3 for gypsum flangeless installation
- Must specify SMF3 for wood, stone, tile flangeless installation

FIELD REPLACEABLE DRIVER

- Accommodates 120-277V input and multiple control protocols
- Dims without perceived flicker to <1% depending on driver specified
- Field replaceable without tools from below the ceiling
- >0.9 Power Factor

BUY AMERICAN ACT

- This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations.
- Please refer to www.acuitybrands.com/resources/buy-american for additional information.

WARRANTY & RATED LIFE

- LED is rated for >50,000 hours at 70% lumen maintenance
- 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: https://www.acuitybrands.com/support/warranty/terms-and-conditions

EMERGENCY BATTERY

- Provides a minimum of 600 lumens (3AC, 3000K, 80CRI) for minimum duration of 90 minutes.
- Accessible below ceiling for simple service; Self-Testing
- Supplied with Class-2 plenum rated remote test switch
- CEC T20 Compliant

NEW CONSTRUCTION MOUNTING

- Features patented (US Patent 8,038,113) Pro-VI™ bar hanger system compatible with wood stud and T-bar
- Includes vertically adjustable mounting brackets (butterfly brackets) *Excluding 25LM ICAT housings
- Centerline indicators on plaster frame and patented (US Patent 8,277,090) Tru-Line™ Platform featuring +/- ½" translation aids fixture alignment after installation, prior to finishing the ceiling.

JUNCTION BOX

- ICAT Rated for (4) No. 12 AWG 90°C through branch circuit conductors.
- Includes (6) ½", (1) ¾", (4) Non-metallic sheathed cable knock-outs.
- Push-in electrical connectors for field connections.

CODES & LABELS

- UL & cUL listed for through branch wiring, damp location
- Meets energy code Air Leakage requirements per ASTM E283
- ENERGY STAR® certified with select trims and housings
- Can be used to comply with Title 24, Part 6 with select trims and housings. Reference T24 JA-8 database for list of compliant housings and trims.
- Static White ICAT housings* are rated for direct contact with insulation, including open and closed cell spray foam with a maximum R-value of 7.2R/in. This allows use in ceiling cavities insulated up to R60. WDIM and TUWH ICAT housings* are rated for direct contact with insulation, including open cell spray foam with a maximum R-value of 3.8R/in. They are not suitable for use with closed cell spray foam. *Note: Options: "25LM ICAT", "15LM TUWH ICAT", "ECOD", "EDXB", & "NLIGHT" are excluded and not suitable for use with spray foam insulation.
- 3SHABV option can be used to comply with dead front and/or non-conductive lighting electrical code requirements. Flanged (SF) version is certified to IP65
- Union made

CEILING THICKNESS

- Accommodates ½" to 1.625" ceiling thickness

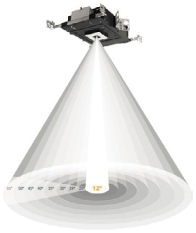
A+ CAPABLE LUMINAIRE

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning, when used with Acuity Brands controls products.

- All configurations of this luminaire are calibrated and tested to meet the Acuity Brand's specification for chromatic consistency - including color rendering, color fidelity and color temperature tolerance around standard CIE chromaticity coordinates.

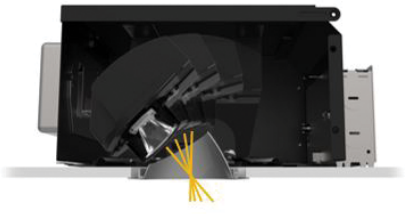
To learn more about Acuity A+ standards, specifications and testing, visit www.acuitybrands.com/aplus.

Spot On! Precision Optics



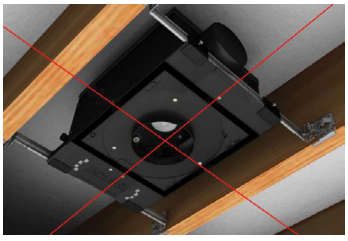
Smooth, striation-free beams with field-interchangeable TIR optics from 12° to 60°

Acu-Aim™ Precision Aiming



Precision geared hot-aiming is effortless. Centerbeam optics results in lower aperture brightness

Tru-Line™ Precision Installation



Pro-VI™ bar hangers, coupled with +/-1/2" aperture translation makes perfect installation achievable

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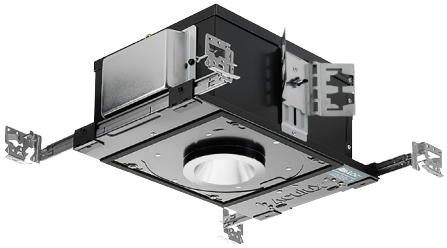
DIMENSIONS

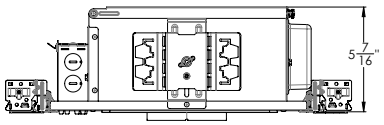
Ceiling Cutout: 4-1/4" (Refer to installation instructions for flangeless ceiling cutout)

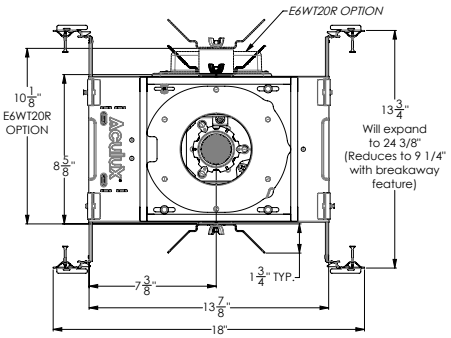
New Construction Adjustable (AX3 A)

ICAT/Non-ICAT: 08LM | 12LM | 15LM | 20LM

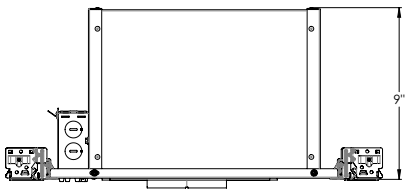
Non-ICAT: 25LM | 30LM

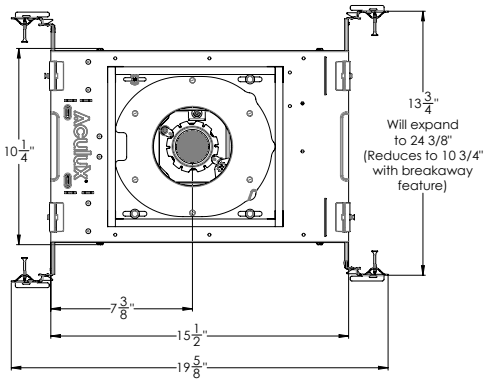






ICAT: 25LM

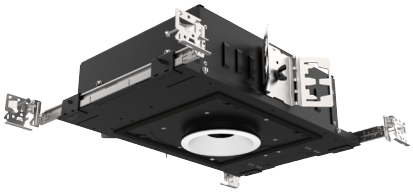


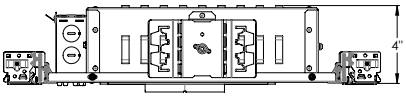


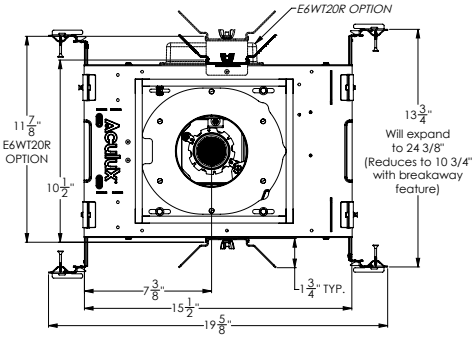
Low Profile New Construction Adjustable (AX3 LPA)

ICAT/Non-ICAT: 08LM | 12LM | 15LM | 20LM

Non-ICAT: 25LM







ELECTRICAL SPECIFICATIONS

Static White

LUMEN PACKAGE	08LM		12LM		15LM		20LM		25LM		30LM	
Voltage	120	277	120	277	120	277	120	277	120	277	120	277
Input Watts	7.0	7.6	11.0	12.0	13.8	14.6	19.7	20.2	25.8	26.3	32.9	33.3
Input Current	0.03	0.06	0.09	0.05	0.12	0.06	0.17	0.08	0.22	0.10	0.28	0.13
Frequency	50/60 Hz		50/60 Hz		50/60 Hz		50/60 Hz		50/60 Hz		50/60 Hz	
Power Factor	0.9 MIN.		0.9 MIN.		0.9 MIN.		0.9 MIN.		0.9 MIN.		0.9 MIN.	

WarmDim

08LM		12LM		15LM	
120	277	120	277	120	277
14.1	14.5	20.0	20.3	25.8	25.9
0.12	0.05	0.17	0.08	0.22	0.10
50/60 Hz		50/60 Hz		50/60 Hz	
0.9 MIN.		0.9 MIN.		0.9 MIN.	

Tunable White

08LM		12LM		15LM		20LM	
120	277	120	277	120	277	120	277
12.1	12.8	18.4	18.9	21.1	21.6	31.0	31.0
0.10	0.05	0.15	0.07	0.18	0.08	0.26	0.11
50/60 Hz		50/60 Hz		50/60 Hz		50/60 Hz	
0.9 MIN.		0.9 MIN.		0.9 MIN.		0.9 MIN.	

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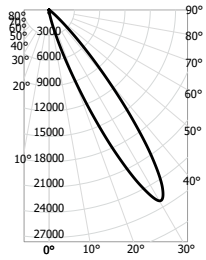
PHOTOMETRICS (@ 30° TILT) - 3AC

Tested in accordance to IESNA LM79

12 Degree Beam

AX3 G4 30LM 30K 80CRI 12D EZ1 MVOLT + 3AC CS

3000K LEDs, input watts: 32.9, delivered lumens: 2829, LM/W = 86.0, test no. PT02182802

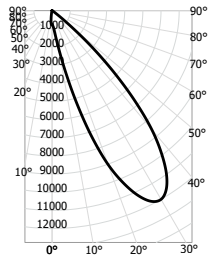


CP Summary	0°
0°	335
5°	387
15°	3073
25°	18759
35°	21222
45°	3674
55°	147
65°	2
75°	0
85°	0
90°	0

24 Degree Beam

AX3 G4 30LM 30K 80CRI 24D EZ1 MVOLT + 3AC CS

3000K LEDs, input watts: 32.9, delivered lumens: 2850, LM/W = 86.6, test no. PT02182813

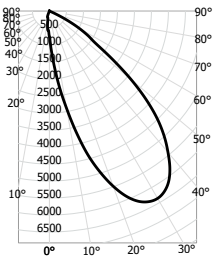


CP Summary	0°
0°	746
5°	956
15°	5336
25°	11243
35°	10982
45°	4869
55°	193
65°	3
75°	0
85°	0
90°	0

35 Degree Beam

AX3 G4 30LM 30K 80CRI 35D EZ1 MVOLT + 3AC CS

3000K LEDs, input watts: 32.9, delivered lumens: 2883, LM/W = 87.6, test no. PT03180124

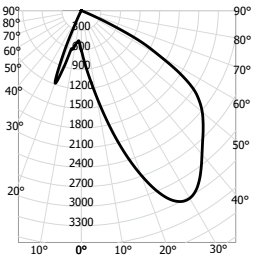


CP Summary	0°
0°	756
5°	1626
15°	4386
25°	6173
35°	6116
45°	4492
55°	1667
65°	225
75°	0
85°	0
90°	0

50 Degree Beam

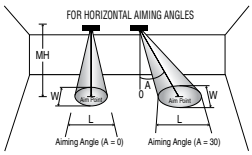
AX3 G4 30LM 30K 80CRI 50D EZ1 MVOLT + 3AC CS

3000K LEDs, input watts: 32.9, delivered lumens: 2473, LM/W = 75.2, test no. PT03180135

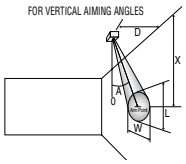


CP Summary	0°
0°	616
5°	895
15°	2006
25°	3188
35°	3159
45°	2640
55°	2100
65°	465
75°	1
85°	0
90°	0

Measured
30LM | 30K | 80 CRI



Horizontal Aiming Angles



Vertical Aiming Angles

Beam Spread	CBCP	0° MH	0° FC	0° L	0° W	30° FC	30° L	30° W	30° D	30° FC	30° X	30° L	30° W	45° FC	45° X	45° L	45° W
12D	26151	6	726	1.8	1.8	472	2.4	2.0	3	363	5.2	3.7	1.8	1027	3.0	1.8	1.2
		8	409	2.3	2.3	265	3.1	2.7	4	204	6.9	5.0	2.3	578	4.0	2.4	1.7
		10	262	2.9	2.9	170	3.9	3.4	5	131	8.7	6.2	2.9	370	5.0	3.0	2.1
		12	182	3.5	3.5	118	4.7	4.0	6	91	10.4	7.5	3.5	257	6.0	3.6	2.5
		14	133	4.1	4.1	87	5.5	4.7	7	67	12.1	8.7	4.1	189	7.0	4.2	2.9
24D	12004	4	750	2.0	2.0	487	2.7	2.3	2	375	3.5	4.8	2.0	1061	2.0	2.1	1.4
		6	333	3.0	3.0	217	4.0	3.4	3	167	5.2	7.2	3.0	472	3.0	3.2	2.1
		8	188	3.9	3.9	122	5.4	4.6	4	94	6.9	9.6	3.9	265	4.0	4.2	2.8
		10	120	4.9	4.9	78	6.7	5.7	5	60	8.7	12.1	4.9	170	5.0	5.3	3.5
		12	83	5.9	5.9	54	8.1	6.8	6	42	10.4	14.5	5.9	118	6.0	6.3	4.2
35D	6365	4	398	2.8	2.8	258	3.9	3.3	2	199	3.5	9.1	2.8	563	2.0	3.2	2.0
		6	177	4.2	4.2	115	5.9	4.9	3	88	5.2	13.6	4.2	250	3.0	4.9	3.0
		8	99	5.7	5.7	65	7.9	6.5	4	50	6.9	18.2	5.7	141	4.0	6.5	4.0
		10	64	7.1	7.1	41	9.9	8.2	5	32	8.7	22.7	7.1	90	5.0	8.1	5.0
		12	44	8.5	8.5	29	11.8	9.8	6	22	10.4	27.2	8.5	63	6.0	9.7	6.0
50D	3323	4	208	3.4	3.4	135	4.8	3.9	2	104	3.5	14.4	3.4	294	2.0	4.1	2.4
		6	92	5.1	5.1	60	7.2	5.8	3	46	5.2	21.6	5.1	131	3.0	6.1	3.6
		8	52	6.7	6.7	34	9.6	7.8	4	26	6.9	28.9	6.7	73	4.0	8.2	4.8
		10	33	8.4	8.4	22	11.9	9.7	5	17	8.7	36.1	8.4	47	5.0	10.2	6.0
		12	23	10.1	10.1	15	14.3	11.7	6	12	10.4	43.3	10.1	33	6.0	12.3	7.2

In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30˚, 1.0 for 45˚).

CBCP • Centerbeam candlepower FC • Footcandles at beam center (aim point)

LUMEN | CBCP MULTIPLIERS

CCT	80+ CRI	90+ CRI	95+ CRI
2700K	1.00	0.86	0.65
3000K	1.00	0.88	0.69
3500K	1.05	-	-
4000K	1.07	-	-

08LM	12LM	15LM	20LM	25LM	30LM
0.27	0.40	0.50	0.70	0.87	1.0

*Refer to website for additional photometry (alternate trims, CCT/CRI, lumen packages)

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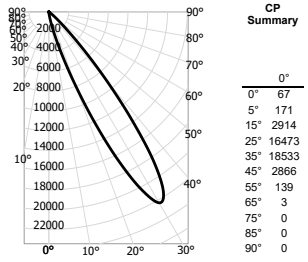
PHOTOMETRICS (@ 30° TILT) - 3ABV

Tested in accordance to IESNA LM79

12 Degree Beam

AX3 G4 30LM 30K 80CRI 12D EZ1 MVOLT + 3ABV BS

3000K LEDs, input watts: 32.9, delivered lumens: 2460, LM/W = 74.8, test no. PT02182807

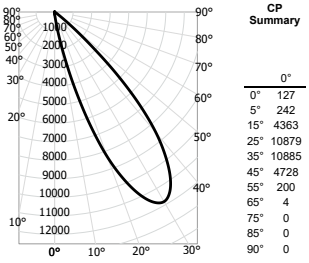


CP Summary	0°
0°	67
5°	171
15°	2914
25°	16473
35°	18533
45°	2866
55°	139
65°	3
75°	0
85°	0
90°	0

24 Degree Beam

AX3 G4 30LM 30K 80CRI 24D EZ1 MVOLT + 3ABV BS

3000K LEDs, input watts: 32.9, delivered lumens: 2644, LM/W = 80.4, test no. PT02182818

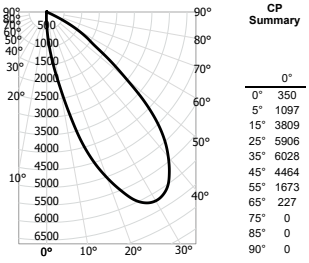


CP Summary	0°
0°	127
5°	242
15°	4363
25°	10879
35°	10885
45°	4728
55°	200
65°	4
75°	0
85°	0
90°	0

35 Degree Beam

AX3 G4 30LM 30K 80CRI 35D EZ1 MVOLT + 3ABV BS

3000K LEDs, input watts: 32.9, delivered lumens: 2581, LM/W = 78.4, test no. PT03180129

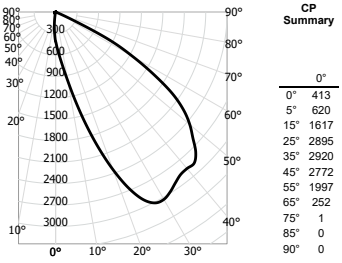


CP Summary	0°
0°	350
5°	1097
15°	3809
25°	5906
35°	6028
45°	4464
55°	1673
65°	227
75°	0
85°	0
90°	0

50 Degree Beam

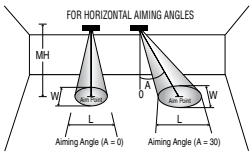
AX3 G4 30LM 30K 80CRI 50D EZ1 MVOLT + 3ABV BS

3000K LEDs, input watts: 32.9, delivered lumens: 1933, LM/W = 58.8, test no. PT03180140

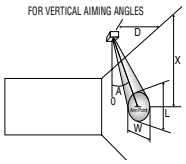


CP Summary	0°
0°	413
5°	620
15°	1617
25°	2895
35°	2920
45°	2772
55°	1997
65°	252
75°	1
85°	0
90°	0

Measured
30LM | 30K | 80 CRI



Horizontal Aiming Angles



Vertical Aiming Angles

Beam Spread	CBCP	0° MH	0° FC	0° L	0° W	30° FC	30° L	30° W	30° D	30° FC	30° X	30° L	30° W	45° FC	45° X	45° L	45° W
12D	22291	6	619	1.8	1.8	402	2.4	2.1	3	310	5.2	3.8	1.8	876	3.0	1.8	1.3
		8	348	2.4	2.4	226	3.2	2.8	4	174	6.9	5.1	2.4	493	4.0	2.4	1.7
		10	223	3.0	3.0	145	4.0	3.5	5	111	8.7	6.4	3.0	315	5.0	3.1	2.1
		12	155	3.6	3.6	101	4.8	4.1	6	77	10.4	7.7	3.6	219	6.0	3.7	2.5
		14	114	4.2	4.2	74	5.6	4.8	7	57	12.1	9.0	4.2	161	7.0	4.3	3.0
24D	11818	4	739	1.9	1.9	480	2.6	2.2	2	369	3.5	4.6	1.9	1045	2.0	2.0	1.3
		6	328	2.8	2.8	213	3.9	3.3	3	164	5.2	6.9	2.8	464	3.0	3.0	2.0
		8	185	3.8	3.8	120	5.2	4.4	4	92	6.9	9.1	3.8	261	4.0	4.0	2.7
		10	118	4.7	4.7	77	6.4	5.5	5	59	8.7	11.4	4.7	167	5.0	5.0	3.4
		12	82	5.7	5.7	53	7.7	6.6	6	41	10.4	13.7	5.7	116	6.0	6.0	4.0
35D	6216	4	389	2.6	2.6	252	3.6	3.0	2	194	3.5	7.8	2.6	549	2.0	3.0	1.9
		6	173	4.0	4.0	112	5.5	4.6	3	86	5.2	11.7	4.0	244	3.0	4.4	2.8
		8	97	5.3	5.3	63	7.3	6.1	4	49	6.9	15.7	5.3	137	4.0	5.9	3.7
		10	62	6.6	6.6	40	9.1	7.6	5	31	8.7	19.6	6.6	88	5.0	7.4	4.7
		12	43	7.9	7.9	28	10.9	9.1	6	22	10.4	23.5	7.9	61	6.0	8.9	5.6
50D	3028	4	189	3.2	3.2	123	4.6	3.7	2	95	3.5	12.7	3.2	268	2.0	3.9	2.3
		6	84	4.8	4.8	55	6.8	5.6	3	42	5.2	19.0	4.8	119	3.0	5.8	3.4
		8	47	6.5	6.5	31	9.1	7.5	4	24	6.9	25.3	6.5	67	4.0	7.7	4.6
		10	30	8.1	8.1	20	11.4	9.3	5	15	8.7	31.7	8.1	43	5.0	9.7	5.7
		12	21	9.7	9.7	14	13.7	11.2	6	11	10.4	38.0	9.7	30	6.0	11.6	6.9

In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30˚, 1.0 for 45˚).

CBCP • Centerbeam candlepower FC • Footcandles at beam center (aim point)

LUMEN | CBCP MULTIPLIERS

CCT	80+ CRI	90+ CRI	95+ CRI
2700K	1.00	0.86	0.65
3000K	1.00	0.88	0.69
3500K	1.05	-	-
4000K	1.07	-	-

08LM	12LM	15LM	20LM	25LM	30LM
0.27	0.40	0.50	0.70	0.87	1.0

*Refer to website for additional photometry (alternate trims, CCT/CRI, lumen packages)

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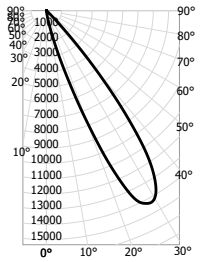
PHOTOMETRICS (@ 30° TILT) - 3APIN

Tested in accordance to IESNA LM79

12 Degree Beam

AX3 G4 30LM 30K 80CRI 12D EZ1 MVOLT + 3APIN BS

3000K LEDs, input watts: 32.9, delivered lumens: 1589, LM/W = 48.3, test no. PT02182805

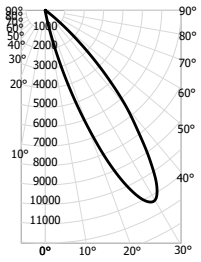


CP Summary	0°
0°	26
5°	117
15°	2700
25°	13518
35°	11449
45°	720
55°	6
65°	0
75°	0
85°	0
90°	0

24 Degree Beam

AX3 G4 30LM 30K 80CRI 24D EZ1 MVOLT + 3APIN BS

3000K LEDs, input watts: 32.9, delivered lumens: 1772, LM/W = 53.9, test no. PT02182816

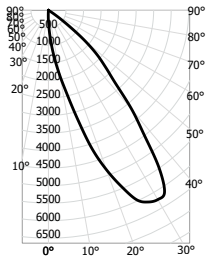


CP Summary	0°
0°	55
5°	123
15°	2477
25°	10025
35°	9380
45°	3410
55°	83
65°	0
75°	0
85°	0
90°	0

35 Degree Beam

AX3 G4 30LM 30K 80CRI 35D EZ1 MVOLT + 3APIN BS

3000K LEDs, input watts: 32.9, delivered lumens: 1798, LM/W = 54.7, test no. PT03180127

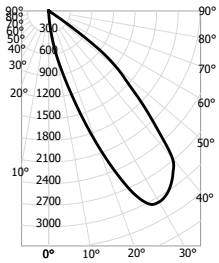


CP Summary	0°
0°	315
5°	1002
15°	3221
25°	5968
35°	5514
45°	2318
55°	332
65°	1
75°	0
85°	0
90°	0

50 Degree Beam

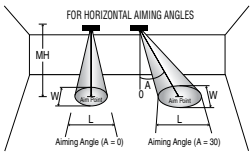
AX3 G4 30LM 30K 80CRI 50D EZ1 MVOLT + 3APIN BS

3000K LEDs, input watts: 32.9, delivered lumens: 999, LM/W = 30.4, test no. PT03180138

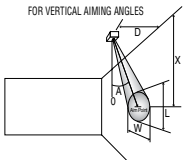


CP Summary	0°
0°	17
5°	200
15°	1167
25°	2802
35°	2955
45°	1868
55°	322
65°	1
75°	0
85°	0
90°	0

Measured
30LM | 30K | 80 CRI



Horizontal Aiming Angles



Vertical Aiming Angles

Beam Spread	CBCP	0° MH	0° FC	0° L	0° W	30° FC	30° L	30° W	30° D	30° FC	30° X	30° L	30° W	45° FC	45° X	45° L	45° W
12D	14185	6	394	2.0	2.0	256	2.7	2.3	3	197	5.2	4.4	2.0	557	3.0	2.1	1.4
		8	222	2.7	2.7	144	3.6	3.1	4	111	6.9	5.8	2.7	313	4.0	2.7	1.9
		10	142	3.3	3.3	92	4.5	3.8	5	71	8.7	7.3	3.3	201	5.0	3.4	2.4
		12	99	4.0	4.0	64	5.4	4.6	6	49	10.4	8.7	4.0	139	6.0	4.1	2.8
		14	72	4.7	4.7	47	6.3	5.4	7	36	12.1	10.2	4.7	102	7.0	4.8	3.3
24D	11300	4	706	1.6	1.6	459	2.1	1.8	2	353	3.5	3.5	1.6	999	2.0	1.6	1.1
		6	314	2.4	2.4	204	3.2	2.7	3	157	5.2	5.3	2.4	444	3.0	2.4	1.7
		8	177	3.1	3.1	115	4.2	3.6	4	88	6.9	7.1	3.1	250	4.0	3.3	2.2
		10	113	3.9	3.9	73	5.3	4.5	5	57	8.7	8.9	3.9	160	5.0	4.1	2.8
		12	78	4.7	4.7	51	6.4	5.4	6	39	10.4	10.6	4.7	111	6.0	4.9	3.3
35D	6235	4	390	1.9	1.9	253	2.6	2.2	2	195	3.5	4.6	1.9	551	2.0	2.0	1.4
		6	173	2.9	2.9	112	3.9	3.3	3	87	5.2	7.0	2.9	245	3.0	3.1	2.0
		8	97	3.8	3.8	63	5.2	4.4	4	49	6.9	9.3	3.8	138	4.0	4.1	2.7
		10	62	4.8	4.8	40	6.5	5.5	5	31	8.7	11.6	4.8	88	5.0	5.1	3.4
		12	43	5.8	5.8	28	7.8	6.7	6	22	10.4	13.9	5.8	61	6.0	6.1	4.1
50D	3066	4	192	2.1	2.1	124	2.9	2.5	2	96	3.5	5.4	2.1	271	2.0	2.3	1.5
		6	85	3.2	3.2	55	4.4	3.7	3	43	5.2	8.2	3.2	120	3.0	3.5	2.3
		8	48	4.3	4.3	31	5.8	4.9	4	24	6.9	10.9	4.3	68	4.0	4.6	3.0
		10	31	5.3	5.3	20	7.3	6.2	5	15	8.7	13.6	5.3	43	5.0	5.8	3.8
		12	21	6.4	6.4	14	8.8	7.4	6	11	10.4	16.3	6.4	30	6.0	6.9	4.5

In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30˚, 1.0 for 45˚).

CBCP • Centerbeam candlepower FC • Footcandles at beam center (aim point)

LUMEN | CBCP MULTIPLIERS

CCT	80+ CRI	90+ CRI	95+ CRI
2700K	1.00	0.86	0.65
3000K	1.00	0.88	0.69
3500K	1.05	-	-
4000K	1.07	-	-

08LM	12LM	15LM	20LM	25LM	30LM
0.27	0.40	0.50	0.70	0.87	1.0

*Refer to website for additional photometry (alternate trims, CCT/CRI, lumen packages)

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DIMMER COMPATIBILITY

Phase Dimming (FPC) - Incandescent, Magnetic Low Voltage and Electronic Low Voltage Dimming

- Dimming range of 100% down to as low as 1% a minimum load of one fixture
- Dimming range and maximum rated load vary depending on dimmer type and model. See maximum load calculations below to identify max number of luminaires per dimmer.

Incandescent (INC) and Magnetic Low Voltage (MLV)

Example: Fixture Rating = 13W; Dimmer Rating = 600W
Equivalent Incandescent Load (EIL) = 50%
(600/13W) X 0.5 = 23 Fixtures per Dimmer

Electronic Low Voltage (ELV)

Example: Fixture Rating = 13W; Dimmer Rating = 600W
Equivalent Incandescent Load (EIL) = 75%
(600/13W) X 0.75 = 34 Fixtures per Dimmer

INCANDESCENT, MLV, ELV WALL DIMMERS

Static White

Manf.	Product Family	Series	Type	Min Light(%)
Lutron	Glyder	GLV*	MLV	2
Leviton	SureSlide	6633*	INC	2
Lutron	Diva	DVLV	MLV	6
Lutron	Diva	DV*	INC	2
Lutron	Skylark	SLV*	MLV	3
Lutron	RadioRA 2	RRD-6D*	INC	2
Lutron	RadioRA 2	RRD-10ND*	INC	2
Leviton	SureSlide	6613	MLV	5
Leviton	IllumaTech	IPL06-10Z*	INC	3
Lutron	Diva	DVCL	INC	3
Insteon	Keypad Dimmer	2334-232	INC	2
Insteon	Dimmer Switch	2477D*	INC	2
Control4	Forward Phase Dimmer	C4-FPD 120	INC	2
Lutron	Nova	NTELV	ELV	6
Lutron	Diva	DVELV*	ELV	2
Lutron	Lutron Maestro	MAELV*	ELV	5
Leviton	Vizia	VPE06-1LX	ELV	2
Leviton	Illumatech	IPE04*	ELV	5
Lutron	Lutron RadioRA2	RRD-6NA	PHA	2
Control4	Adaptive Phase Dimmer	C4-APD 120	PHA	2
Lutron	RadioRA2	RRD-6NA*	PHA	2
Control4	Adaptive Phase Dimmer	C4-APD 120	PHA	2

WarmDim®

Manf.	Product Family	Series	Type	Min Light(%)
Sensor Switch	WPD	WPD*	INC	1
Leviton	Illmatech	IPM06-1LZ	MLV	3
Leviton	Illmatech	IPI06-1LZ	INC	2
Lutron	Diva	DVCL	INC	1
Leviton	SureSlide	6633*	INC	1
Leviton	SureSlide	6613*	MLV	1
Leviton	SureSlide	IPL06	INC	1
Control4	Forward phase dimmer	C4-FPD 120 FWD*	INC	1
Lutron	Diva	DVELV*	ELV	1
Lutron	Maestro	MAELV*	ELV	1
Lutron	Vive	MRF25-6ELV*	ELV	1
Lutron	Caseta	PD-5NE*	ELV	1
Leviton	Illumatech	IPE04	ELV	4
Lutron	Maestro	RRD-PRO REV	PHA	1
Control4	Phase Adaptive Dimmer	C4-APD 120*	PHA	1
Lutron	Maestro	RRD-PRO FWD*	PHA	1

INTEGRATED CONTROL SYSTEMS

Static White

Manf.	Product Family	Series	Type	Min Light(%)
Lutron	LP	LP-RPM-4U	INC	5
Lutron	LP	LP-RPM-4A*	PHA	2
Lutron	GrafikEye QS	QSGRJ-3P	PHA	2
Lutron	GrafikEye QS	PHPM-PA-120	PHA	2
Lutron	HomeWorks QS	PHPM-PA-120	PHA	2
Lutron	HomeWorks QS	HW-RPM-4A*	PHA	2
Acuity	nLight nSP5PCD ELV	nSP5PCD*	ELV	4
Insteon	Micro Module Dimmer	2442-222*	INC	2
Control4	8 Ch Dimmer	C4-DIN-8DIM-E	PHA	2

WarmDim®

Manf.	Product Family	Series	Type	Min Light(%)
Acuity	nLight nSP5PCD ELV	nSP5PCD ELV*	ELV	1
Acuity	nLight nSP5PCD ELV	PCDM*	ELV	1
Acuity	Fresco LMPM	LMPM 2D 2L*	PHA	1
Lutron	LP	LP-RPM-4A *	PHA	1
Lutron	LP	LP-RPM-4U*	INC	1
Lutron	GrafikEye QS	Lutron PHPM-PA-120*	PHA	1
Lutron	GrafikEye QS	Lutron Grafik Eye QSGRJ-3P*	MLV	1
Lutron	HomeWorks QS	PHPM-PA-120*	PHA	1
Lutron	HomeWorks QS	HW-RPM-4A*	PHA	1
Legrand	Wattstopper	LMRC-221-U*	PHA	1
Control4	8 Ch Dimmer	C4-DIN-8DIM-E*	PHA	1
Crestron	Phase Adaptive Dimmer	6501748*	PHA	1

*: Aculux recommended dimmers

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0-10V Dimming (GZ1, EZ1, EZB drivers)

WALL DIMMERS

Manf.	Product Family	Series	Type	-EZ1/-GZ1 Min. Light (%)	-EZB Min. Light (%)
Lutron	Diva	DVTV	0-10V	1	<1
Lutron	Nova	NFTV	0-10V	1	<1
Lutron	Nova T	NTFTV	0-10V	1	<1

INTEGRATED CONTROL SYSTEMS

Manf.	Product Family	Series	Type	-EZ1/-GZ1 Min. Light (%)	-EZB Min. Light (%)
Lutron	GrafikEye QS	GRX-TVI*	0-10V	1	<1
Lutron	HomeWorks QS	GRX-TVI*	0-10V	1	<1
Lutron	HomeWorks QS	GRX-TVM2*	0-10V	1	<1
Lutron	LCP128	GRX-TVI*	0-10V	1	<1
Lutron	LCP128	GRX-TVM2*	0-10V	1	<1
Lutron	LP	GRX-TVM2*	0-10V	1	<1
Lutron	RadioRA2	LMJ-5T-DV-B	0-10V	1**	<1
Crestron	GreenLight	DIN-4DIMFLV4	0-10V	1	<1
Lutron	Energi Tripak	RMJ-5T-DV-B	0-10V	1	<1
Wattstopper	DLM	LMRC-211	0-10V	1	<1
Insteon	Ballast Dimmer	2475DA2	0-10V	1	<1

*: Aculux recommended dimmers
**: Not tested with -GZ1
+: Requires a separate relay module to turn luminaire on/off

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