

PRODUCT SPECIFICATIONS

LED Light Engine Consistent fixture to fixture color within 3-step MacAdam ellipse • 2700K, 3000K, 3500K, or 4000K color temperatures are available with 80 CRI minimum • 2700K and 3000K also available with 90 CRI minimum.

Modular Optics 45° cutoff to source and source image • Available with 12° Spot, 24° Narrow Flood, 35° Flood and 50° wide flood field interchangeable optics • Additional distributions of 20°, 30°, 40°, 45° and 60° FWHM can be achieved with the use of diffusing films and spot primary optic • Patented (US Patent 8,950,911) auto-adjusting optic holder maximizes luminaire efficiency by maintaining optimal LED optic position • Accommodates up to two (2) additional 0.156" thick or (3) 0.125" thick beam control lenses and/or filters.

Adjustability Acu-Aim™ precision geared hot-aiming achieves 370° rotation, and up to 45° tilt (depending on trim and ceiling thickness) • Optimized center beam optics translates light engine forward as it is aimed off nadir, ensuring maximum light and low brightness • Black aiming mechanism preserves dark aperture.

Trims Style Self Flanged and Flangeless reflectors utilize wire form spring retention for tight, secure fit to ceiling • Self Flanged reflectors with polished or optional white painted flange

LED Driver Seven (7) driver options available to accommodate 120-277V input and multiple control protocols • For a list of compatible dimmers, refer to [ACULUX3-DIM](#) • Power Factor > 0.9 • Field replaceable from below or above ceiling.

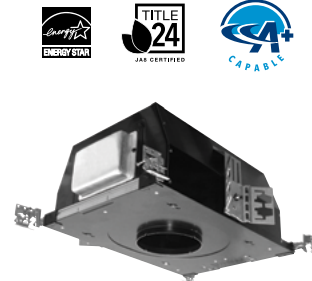
Life Rated for 50,000 hrs at 70% lumen maintenance.

Warranty - 5YR 5-year limited warranty. Complete warranty terms located at: http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Codes/Labels UL and cUL listed for through branch wiring in damp locations. • Wet location listed with WET option • ICAT housings meet energy code Air Leakage requirements per ASTM E283 • ENERGY STAR® Certified with select trims • ICAT rated luminaires with 90CRI light engine are certified to high efficacy requirements of California T24 with select color temperatures and trims • ICAT housings are rated for direct contact with insulation including spray foam insulation with an R-Value of 3.7 per inch or less (excluding ECOS2, ECOS3, DMXR, NLIGHT) • Union made.

**4" LED UNIVERSAL RECESSED
ADJUSTABLE/DOWNLIGHT/WALL WASH
1200/1700/2200/2700/3200 LUMEN
ROUND APERTURE NEW CONSTRUCTION**

AX4



AX4 A

New Construction Mounting Features patented (US Patent 8,038,113) Pro-VI™ bar hanger system, permitting quick placement of housing with 24" on-center joists or suspended ceilings • All fixtures also feature vertically adjustable mounting brackets (butterfly brackets) • Centerline indicators on plaster frame and patented (US Patent 8,277,090) Tru-Line™ Platform featuring +/- 1/2" translation aids fixture alignment after installation, prior to drywall.

Junction Box ICAT fixtures rated for 4, non-ICAT rated for 8 No. 12 AWG 90° C through branch circuit conductors and includes (6) 1/2", (1) 3/4", and (4) Non-metallic sheathed cable knock-outs • Push-in electrical connectors for field connections.

Ceiling Thickness 1/2" – 2" ceiling

Specifications subject to change without notice.

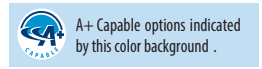
ORDERING INFORMATION

Example: AX4 A 27LM 30K 80CRI 24D FPC 120 ICAT 4AC CD FM FMA4/087

HOUSING OPTIONS	Series / Housing Style		Lumens		CCT		CRI		Beam		Driver		Voltage ¹		Options	
	AX4 A	New Construction Universal ADJ/DL/WW	12LM	1200 Lumens	27K	2700K	80CRI	12D	12° beam	EZ1	eldoLED 0-10V, 1% dim	120	CP	Chicago Plenum		
		17LM	1700 Lumens	30K	3000K	90CRI	24D	24° beam	EZB	eldoLED 0-10V, <1% dim	277	ICAT ⁵	IC, Air-Tight			
		22LM	2200 Lumens	35K	3500K		35D	35° beam	FPC	Phase cut dimming, 5% dim	MVOLT (120-277)	NLIGHT ²	nLight dimming pack controls			
		27LM	2700 Lumens	40K	4000K		50D	50° beam	ECOS2	Lutron Hi-Lume A series 2-wire forward phase, 1% dim						
		32LM	3200 Lumens						ECOS3	Lutron Hi-Lume A series 3-wire with EcoSystem, 1% dim						
									DMXR	DMX,RDM Driver, 1% dim						
									DALI	DALI Driver, 1% dim						

TRIM OPTIONS	Trim Style		Reflector Finish		Flange Style / Finish		Environmnet		Ceiling Installation	
	ADJUSTABLE ACCENT	BD ⁶	Black Diffuse	SELF FLANGED		WET	Wet location (Solite Lens)	SELF-FLANGED		
4AC	Angle-Cut Reflector, 45°	BS ⁷	Black Specular	SF ⁷	Flange is same finish as reflector		CTA4/125	Ceiling ≤ .875"	CTA4/163	Ceiling 1.25" - 1.625"
4AC20	Shallow Angle-Cut Reflector, 20°	CD ⁷	Clear Diffuse	WHSF	White painted flange			Ceiling 0.875" - 1.25"	CTA4/200	Ceiling 1.625" - 2"
4ABV	Adjustable Bevel	CS ⁷	Clear Specular	BLSF ⁶	Black painted flange		FLANGELESS, GYPSUM			
DOWNLIGHT		W ⁷	White Point	FLANGELESS ⁴			FMA4/087	Ceiling ≤ .875"	FMA4/163	Ceiling 1.25" - 1.625"
4DP	Parabolic Downlight	WTD ⁷	Wheat Diffuse	FM ⁷	Flangeless		FMA4/125	Ceiling 0.875" - 1.25"	FMA4/200	Ceiling 1.625" - 2"
4DBV	Downlight Bevel			WHFM ⁶	Flangeless, White trim		FLANGELESS, WOOD/STONE/TILE ³			
WALL WASH				BLFM ⁶	Flangeless, Black trim		SFM4/087 (B,W)	Ceiling ≤ 0.875"	SFM4/163 (B,W)	Ceiling 1.25" - 1.625"
4WW	Lensed Wall Wash						SFM4/125 (B,W)	Ceiling 0.875" - 1.25"		

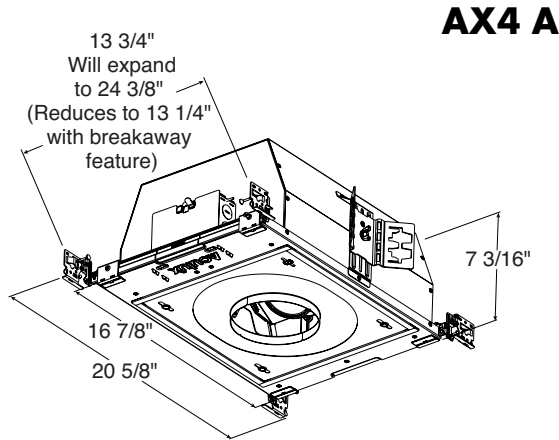
NOTES	Ordering Notes	
	¹ MVOLT standard on EZ1, EZB, ECOS3, DMXR, DALI. 120 standard for FPC and ECOS2	⁴ Must specify flangeless ceiling installation (FMA4 or SFM4)
	² Must specify 120 or 277 volts. Available on EZ1 and EZB only	⁷ Available on 4AC, 4AC20, 4DP, 4WW only
	³ Specify finish : B=Black, W=White	⁵ ICAT not available on 32LM
	⁶ Available on 4ABV and 4DBV only	



4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN ROUND APERTURE NEW CONSTRUCTION AX4

DIMENSIONS

NEW CONSTRUCTION



5 1/4" CEILING CUTOUT
(REFER TO INSTRUCTION SHEET FOR
FLANGELESS CEILING CUTOUT)

ELECTRICAL DATA

Lumen Package	1200		1700		2200		2700		3200	
Voltage	120	277	120	277	120	277	120	277	120	277
Input Power	12.0W	12.9W	15.6W	17.2W	22.5W	25.1W	29.7W	33.2W	36.2W	35.6W
Input Current	0.10	0.06	0.13	0.08	0.19	0.12	0.25	0.16	0.30	0.14
Frequency	50/60Hz		50/60Hz		50/60Hz		50/60Hz		50/60Hz	
Power Factor	>0.9	>0.85	>0.9	>0.85	>0.9	>0.85	>0.9	>0.85	>0.9	>0.85

ACCESSORIES

Cat. #	Description
4AXOPT/12D	12° Spot Optic
4AXOPT/24D	24° Narrow Flood Optic
4AXOPT/35D	35° Flood Optic
4AXOPT/50D	50° Wide Flood Optic
AF4/10	10° Film (Use with Spot Optic)
AF4/20	20° Film (Use with Spot Optic)
AF4/40	40° Film (Use with Spot Optic)
AF4/50	50° Film (Use with Spot Optic)
AF4/60x1	60°x1° Film (Use with Spot Optic)
AF4/80	80° Film (Use with Spot Optic)
CGF 300 MPINK	Med. Pink Color Filter
CGF 300 WRED	Warm Red Color Filter
CGF 300 DLTBLUE	Daylight Blue Color Filter
CGF 300 MBLU	Med. Blue Color Filter
CGF 300 MAMB	Med. Amber Color Filter
CGF 300 MGRN	Med. Green Color Filter
DGF 300 DRED	Red Dichroic Lens
DGF 300 MGRN	Med. Green Dichroic Lens
DGF 300 MBLU	Med. Blue Dichroic Lens
DGF 300 DYEL	Yellow Dichroic Lens
DGF 300 MAGEN	Magenta Dichroic Lens
DGF 300 CYAN	Blue Green Dichroic Lens
DCCF 300 HL4250	Daylight Blue Correction Lens
DIFF 300	Diffuse Spread Lens
SOLITE 300	Uniformity Lens
UVF 300	UV Filter Lens
PRISM 300	Prismatic Lens
LSPREAD 300	Linear Spread Lens
HCLBL 300	Hexcell Louver
HB1	(2) Real Nail 3 Bar Hangers
HB26	(2) 26" C-Channel Bar Hangers
HB50	(2) 50" C-Channel Bar Hangers
LB27	(2) 27" Linear Bar Hangers
EM120	20W Emergency Lighting Inverter
<i>To order, specify catalog number. (only for 12LM and 17LM)</i>	

DIFFUSING FILMS

To achieve the desired beam angle (FWHM), specify the following primary LED optic on the luminaire and order the diffusing film from the table below

Desired FWHM	Primary Optic	Film
12°	12D	-
20°	12D	AF4/10
24°	24D	-
30°	12D	AF4/20
35°	35D	-
40°	12D	AF4/40
45°	12D	AF4/50
50°	50D	-
60°	12D	AF4/80
20°x60°	12D	AF4/60x1

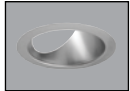
4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN ROUND APERTURE NEW CONSTRUCTION AX4

TRIM SELECTION

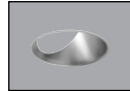
ADJUSTABLE ACCENT

4AC Angle-Cut Reflector, 45°

Aperture: 4 3/8"



Self-Flanged



Flangeless



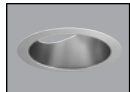
	Model:	AX4 A 32LM, AX4 A 27LM	AX4 A 12LM/17LM/22LM
	Driver:	EZ1, EZB, FPC, DMXR, DALI	
	CCT/CRI:	27K 80CRI/90CRI, 30K 80CRI/90CRI, 35K 80CRI, 40K 80CRI	
	Optic:	12D, 24D, 35D, 50D	
	Trim Finish:	CS, CD, WTD, W	CS, CD, WTD, W, BS



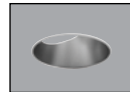
Model:	AX4 A 12LM/17LM/22LM/27LM (ICAT Option)
Driver:	EZ1, EZB, FPC, DMXR, DALI
CCT/CRI:	27K 90CRI, 30K 90CRI
Optic:	12D, 24D, 35D, 50D
Trim Finish:	CS, CD, WTD, W, BS

4AC20 Shallow Angle-Cut Reflector, 20°

Aperture: 4 3/8"



Self-Flanged



Flangeless

	Model:	AX4 A 32LM, AX4 A 27LM	AX4 A 12LM/17LM/22LM
	Driver:	EZ1, EZB, FPC, DMXR, DALI	
	CCT/CRI:	27K 80CRI/90CRI, 30K 80CRI/90CRI, 35K 80CRI, 40K 80CRI	
	Optic:	12D, 24D, 35D, 50D	
	Trim Finish:	CS, CD, WTD, W	CS, CD, WTD, W, BS



Model:	AX4 A 12LM/17LM/22LM/27LM (ICAT Option)
Driver:	EZ1, EZB, FPC, DMXR, DALI
CCT/CRI:	27K 90CRI, 30K 90CRI
Optic:	12D, 24D, 35D, 50D
Trim Finish:	CS, CD, WTD, W, BS

4ABV Adjustable Bevel

Aperture: 3 1/2"



Self-Flanged



Flangeless



	Model:	AX4 A 32LM, AX4 A 27LM	AX4 A 12LM/17LM/22LM
	Driver:	EZ1, EZB, FPC, DMXR, DALI	
	CCT/CRI:	27K 80CRI, 30K 80CRI, 35K 80CRI, 40K 80CRI	27K 80CRI/90CRI, 30K 80CRI/90CRI
	Optic:	12D, 24D, 35D, 50D	
	Trim Finish:	BD	



Model:	AX4 A 12LM/17LM/22LM/27LM (ICAT Option)
Driver:	EZ1, EZB, FPC, DMXR, DALI
CCT/CRI:	27K 90CRI, 30K 90CRI
Optic:	12D, 24D, 35D, 50D
Trim Finish:	BD

* With WET option

4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN ROUND APERTURE NEW CONSTRUCTION AX4

TRIM SELECTION (continued)

DOWNLIGHT TRIMS

4DBV Downlight Bevel



Self-Flanged



Aperture: 3 1/2"



Flangeless



Model:	AX4 A 32LM, AX4 A 27LM	AX4 A 12LM/17LM/22LM
Driver:	E21, EZB, FPC, DMXR, DALI	
CCT/CRI:	27K 80CRI, 30K 80CRI, 35K 80CRI, 40K 80CRI	27K 80CRI/90CRI, 30K 80CRI/90CRI, 35K 80CRI, 40K 80CRI
Optic:	12D, 24D, 35D, 50D	
Trim Finish:	BD	



Model:	AX4 A 12LM/17LM/22LM/27LM (ICAT Option)
Driver:	E21, EZB, FPC, DMXR, DALI
CCT/CRI:	27K 90CRI, 30K 90CRI
Optic:	12D, 24D, 35D, 50D
Trim Finish:	BD

4DP Parabolic Downlight Reflector



Self-Flanged



Aperture: 4 3/8"



Flangeless



Model:	AX4 A 32LM, AX4 A 27LM	AX4 A 12LM/17LM/22LM
Driver:	E21, EZB, FPC, DMXR, DALI	
CCT/CRI:	27K 80CRI/90CRI, 30K 80CRI/90CRI, 35K 80CRI, 40K 80CRI	27K 80CRI/90CRI, 30K 80CRI/90CRI, 35K 80CRI, 40K 80CRI
Optic:	12D, 24D, 35D, 50D	
Trim Finish:	CS, CD, WTD, W	CS, CD, WTD, W, BS



Model:	AX4 A 12LM/17LM/22LM/27LM (ICAT Option)
Driver:	E21, EZB, FPC, DMXR, DALI
CCT/CRI:	27K 90CRI, 30K 90CRI
Optic:	12D, 24D, 35D, 50D
Trim Finish:	CS, CD, WTD, W, BS

WALL WASH

4WW Lensed Wall Wash



Self-Flanged



Aperture: 4 3/8"



Flangeless



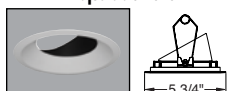
Model:	AX4 A 32LM, AX4 A 27LM	AX4 A 12LM/17LM/22LM
Driver:	E21, EZB, FPC, DMXR, DALI	
CCT/CRI:	27K 80CRI, 30K 80CRI, 35K 80CRI, 40K 80CRI	27K 80CRI/90CRI, 30K 80CRI/90CRI, 35K 80CRI, 40K 80CRI
Optic:	12D, 24D, 35D, 50D	
Trim Finish:	CD, CS, WTD, W	



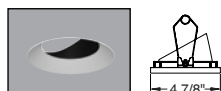
Model:	AX4 A 22LM (ICAT option)	AX4 A 12LM/17LM (ICAT option)
Driver:	E21, EZB, FPC, DMXR, DALI	
CCT/CRI:	27K 90CRI, 30K 90CRI	
Optic:	24D, 35D	
Trim Finish:	CD, CS, W	CD, CS, WTD, W, BS

* With WET option

4ABV Adjustable Bevel



Self-Flanged



Flangeless

4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN ROUND ADJUSTABLE BEVEL NEW CONSTRUCTION 4ABV Trim

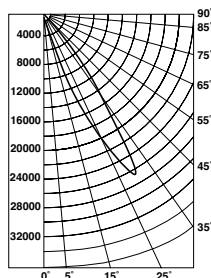
PHOTOMETRICS

SPOT

PHOTOMETRIC REPORT

Test Report: PT03162802R
Catalog No: AX4 A 32LM 30K
80CRI 12D EZB MVOLT
4ABV BD
(Aim at 30°)

Watts: 33.6
Lumens: 2561
Luminaire LPW: 76



Candlepower Distribution (Candelas)

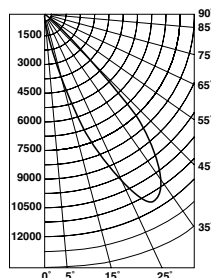
Degrees	Vertical Candela
0°	194
5°	441
10°	1553
15°	3866
20°	7805
25°	18523
30°	26087
35°	15214
40°	6135
45°	2046
50°	585
55°	94
60°	37
65°	12
70°	1
75°	0
80°	0
85°	0
90°	0

NARROW FLOOD

PHOTOMETRIC REPORT

Test Report: PT03162808R
Catalog No: AX4 A 32LM 30K
80CRI 24D EZB MVOLT
4ABV BD
(Aim at 30°)

Watts: 33.6
Lumens: 2570
Luminaire LPW: 76



Candlepower Distribution (Candelas)

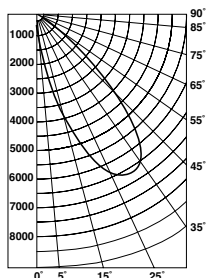
Degrees	Vertical Candela
0°	395
5°	771
10°	1727
15°	3769
20°	7075
25°	10287
30°	11874
35°	11001
40°	8066
45°	4232
50°	897
55°	468
60°	171
65°	30
70°	1
75°	0
80°	0
85°	0
90°	0

FLOOD

PHOTOMETRIC REPORT

Test Report: PT03162914
Catalog No: AX4 A 32LM 30K
80CRI 35D EZB MVOLT
4ABV BD
(Aim at 30°)

Watts: 33.6
Lumens: 2664
Luminaire LPW: 79



Candlepower Distribution (Candelas)

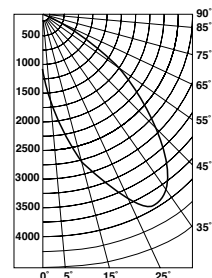
Degrees	Vertical Candela
0°	775
5°	1358
10°	2393
15°	3920
20°	5441
25°	6436
30°	6749
35°	6526
40°	5691
45°	4190
50°	2377
55°	1238
60°	643
65°	113
70°	2
75°	0
80°	0
85°	0
90°	0

WIDE FLOOD

PHOTOMETRIC REPORT

Test Report: PT03162920R
Catalog No: AX4 A 32LM 30K
80CRI 50D EZB MVOLT
4ABV BD
(Aim at 30°)

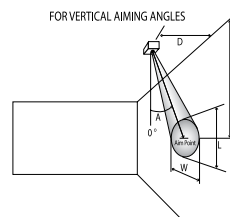
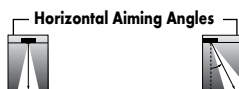
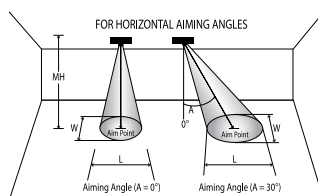
Watts: 33.6
Lumens: 2501
Luminaire LPW: 74



Candlepower Distribution (Candelas)

Degrees	Vertical Candela
0°	1133
5°	1676
10°	2231
15°	2770
20°	3205
25°	3618
30°	3954
35°	3820
40°	3412
45°	2934
50°	2385
55°	1709
60°	1182
65°	182
70°	9
75°	0
80°	0
85°	0
90°	0

LUMEN OUTPUT MULTIPLIERS				
Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		



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

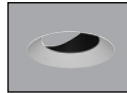
In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30°, 1.0 for 45°).

Beam Type	Beam Spread°	CBCP	0°				30°				30°				45°			
			MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W
SP	12°	26087	6	725	1.4	1.4	471	1.9	1.6	3	362	5.2	2.9	1.4	1025	3.0	1.4	1.0
			8	408	1.9	1.9	265	2.5	2.2	4	204	6.9	3.9	1.9	576	4.0	1.9	1.3
			10	261	2.3	2.3	169	3.1	2.7	5	130	8.7	4.9	2.3	369	5.0	2.4	1.6
			12	181	2.8	2.8	118	3.7	3.2	6	91	10.4	5.8	2.8	256	6.0	2.8	2.0
			14	133	3.3	3.3	86	4.4	3.8	7	67	12.1	6.8	3.3	188	7.0	3.3	2.3
NFL	24°	11875	4	742	1.8	1.8	482	2.4	2.0	2	371	3.5	4.1	1.8	1050	2.0	1.8	1.2
			6	330	2.6	2.6	214	3.6	3.0	3	165	5.2	6.2	2.6	466	3.0	2.8	1.9
			8	186	3.5	3.5	121	4.8	4.1	4	93	6.9	8.2	3.5	262	4.0	3.7	2.5
			10	119	4.4	4.4	77	6.0	5.1	5	59	8.7	10.3	4.4	168	5.0	4.6	3.1
			12	82	5.3	5.3	54	7.2	6.1	6	41	10.4	12.3	5.3	117	6.0	5.5	3.7
FL	35°	6749	4	422	2.6	2.6	274	3.5	3.0	2	211	3.5	7.4	2.6	597	2.0	2.9	1.9
			6	187	3.8	3.8	122	5.3	4.4	3	94	5.2	11.1	3.8	265	3.0	4.3	2.7
			8	105	5.1	5.1	68	7.1	5.9	4	53	6.9	14.8	5.1	149	4.0	5.7	3.6
			10	67	6.4	6.4	44	8.8	7.4	5	34	8.7	18.5	6.4	95	5.0	7.4	4.5
			12	47	7.7	7.7	30	10.6	8.9	6	23	10.4	22.2	7.7	66	6.0	8.6	5.4
WFL	50°	3954	4	247	3.4	3.4	161	4.9	4.0	2	124	3.5	15.4	3.4	349	2.0	4.2	2.4
			6	110	5.2	5.2	71	7.3	6.0	3	55	5.2	23.1	5.2	155	3.0	6.3	3.6
			8	62	6.9	6.9	40	9.8	7.9	4	31	6.9	30.8	6.9	87	4.0	8.4	4.9
			10	40	8.6	8.6	26	12.2	9.9	5	20	8.7	38.5	8.6	56	5.0	10.5	6.1
			12	27	10.3	10.3	18	14.6	11.9	6	14	10.4	46.2	10.3	39	6.0	12.6	7.3

4ABV Adjustable Bevel



Self-Flanged



Flangeless



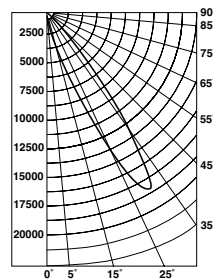
4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN ROUND ADJUSTABLE BEVEL NEW CONSTRUCTION 4ABV Trim with WET option

PHOTOMETRICS

SPOT PHOTOMETRIC REPORT

Test Report: PTO3162803R
Catalog No: AX4 A 32LM 30K
80CRI 12D EZB MVOLT
4ABV BD WET
(Aim at 30°)

Watts: 33.6
Lumens: 2271
Luminaire LPW: 68



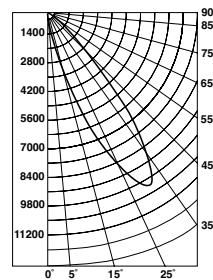
Candlepower Distribution

Degrees	Vertical Candela
0°	188
5°	424
10°	1289
15°	3187
20°	6654
25°	13695
30°	18184
35°	13237
40°	6544
45°	2653
50°	859
55°	230
60°	63
65°	23
70°	7
75°	1
80°	0
85°	0
90°	0

NARROW FLOOD PHOTOMETRIC REPORT

Test Report: PTO3162809R
Catalog No: AX4 A 32LM 30K
80CRI 24D EZB MVOLT
4ABV BD WET
(Aim at 30°)

Watts: 33.6
Lumens: 2337
Luminaire LPW: 70



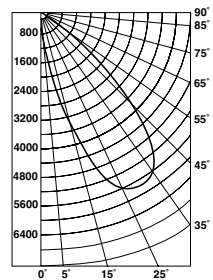
Candlepower Distribution

Degrees	Vertical Candela
0°	397
5°	788
10°	1731
15°	3626
20°	6428
25°	9033
30°	10058
35°	9042
40°	6447
45°	3582
50°	1566
55°	584
60°	204
65°	66
70°	17
75°	1
80°	0
85°	0
90°	0

FLOOD PHOTOMETRIC REPORT

Test Report: PTO3162915R
Catalog No: AX4 A 32LM 30K
80CRI 35D EZB MVOLT
4ABV BD WET
(Aim at 30°)

Watts: 33.6
Lumens: 2401
Luminaire LPW: 71



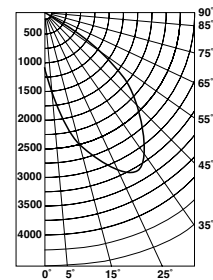
Candlepower Distribution

Degrees	Vertical Candela
0°	722
5°	1265
10°	2193
15°	3494
20°	4793
25°	5656
30°	5910
35°	5667
40°	4840
45°	3516
50°	2130
55°	1138
60°	544
65°	206
70°	43
75°	0
80°	0
85°	0
90°	0

WIDE FLOOD PHOTOMETRIC REPORT

Test Report: PTO3162921R
Catalog No: AX4 A 32LM 30K
80CRI 50D EZB MVOLT
4ABV BD WET
(Aim at 30°)

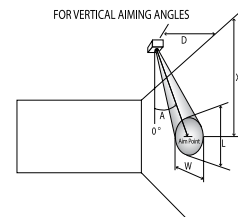
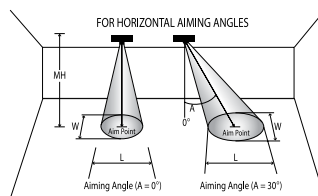
Watts: 33.6
Lumens: 2242
Luminaire LPW: 67



Candlepower Distribution

Degrees	Vertical Candela
0°	1105
5°	1581
10°	2072
15°	2527
20°	2887
25°	3181
30°	3344
35°	3224
40°	2888
45°	2462
50°	1949
55°	1372
60°	744
65°	253
70°	39
75°	1
80°	0
85°	0
90°	0

LUMEN OUTPUT MULTIPLIERS				
Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		

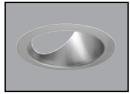


CBCP • Centerbeam candlepower
FC • Footcandles at beam center (aim point)

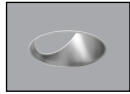
In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30°, 1.0 for 45°).

Beam Type	Beam Spread°	CBCP	0°				30°				30°				45°			
			MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W
SP	12°	18184	6	505	1.7	1.7	328	2.3	2.0	3	253	5.2	3.7	1.7	714	3.0	1.8	1.2
			8	284	2.3	2.3	185	3.1	2.7	4	142	6.9	5.0	2.3	402	4.0	2.4	1.6
			10	182	2.9	2.9	118	3.9	3.3	5	91	8.7	6.2	2.9	257	5.0	3.0	2.1
			12	126	3.5	3.5	82	4.7	4.0	6	63	10.4	7.4	3.5	179	6.0	3.6	2.5
			14	93	4.1	4.1	60	5.5	4.7	7	46	12.1	8.7	4.1	131	7.0	4.1	2.9
NFL	24°	10058	4	629	1.8	1.8	408	2.4	2.0	2	314	3.5	4.2	1.8	889	2.0	1.9	1.3
			6	279	2.7	2.7	181	3.6	3.1	3	140	5.2	6.2	2.7	395	3.0	2.8	1.9
			8	157	3.5	3.5	102	4.8	4.1	4	79	6.9	8.3	3.5	222	4.0	3.7	2.5
			10	101	4.4	4.4	65	6.0	5.1	5	50	8.7	10.4	4.4	142	5.0	4.7	3.1
FL	35°	5910	12	70	5.3	5.3	45	7.2	6.1	6	35	10.4	12.5	5.3	99	6.0	5.6	3.8
			4	369	2.6	2.6	240	3.5	3.0	2	185	3.5	7.4	2.6	522	2.0	2.9	1.8
			6	164	3.9	3.9	107	5.3	4.4	3	82	5.2	11.2	3.9	232	3.0	4.3	2.7
			8	92	5.1	5.1	60	7.1	5.9	4	46	6.9	14.9	5.1	131	4.0	5.7	3.6
WFL	50°	3344	10	59	6.4	6.4	38	8.9	7.4	5	30	8.7	18.6	6.4	84	5.0	7.2	4.5
			12	41	7.7	7.7	27	10.6	8.9	6	21	10.4	22.3	7.7	58	6.0	8.6	5.4
			4	209	3.6	3.6	136	5.2	4.2	2	105	3.5	19.2	3.6	296	2.0	4.6	2.6
			6	93	5.5	5.5	60	7.8	6.3	3	46	5.2	28.7	5.5	131	3.0	6.9	3.9
			8	52	7.3	7.3	34	10.4	8.4	4	26	6.9	38.8	7.3	71	4.0	9.2	5.1
			10	33	9.1	9.1	22	13.0	10.5	5	17	8.7	47.9	9.1	47	5.0	11.5	6.4
			12	23	10.9	10.9	15	15.6	12.6	6	12	10.4	57.5	10.9	33	6.0	13.8	7.7

4AC Angle-Cut Reflector, 45°



Self-flanged



Flangeless



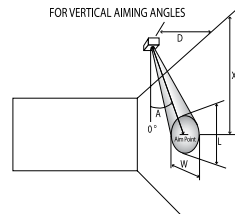
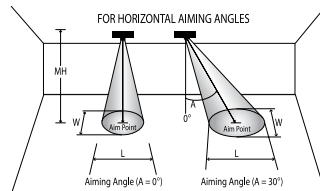
4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN

ROUND ANGLE-CUT REFLECTOR NEW CONSTRUCTION 4AC Trim

PHOTOMETRICS

SPOT PHOTOMETRIC REPORT		NARROW FLOOD PHOTOMETRIC REPORT		FLOOD PHOTOMETRIC REPORT		WIDE FLOOD PHOTOMETRIC REPORT	
Test Report: PT03162801R	Candlepower Distribution (Candelas)	Test Report: PT03162807R	Candlepower Distribution (Candelas)	Test Report: PT03162913R	Candlepower Distribution (Candelas)	Test Report: PT03162919R	Candlepower Distribution (Candelas)
Catalog No: AX4 A 32LM 30K	Degrees	Catalog No: AX4 A 32LM 30K	Degrees	Catalog No: AX4 A 32LM 30K	Degrees	Catalog No: AX4 A 32LM 30K	Degrees
80CRI 12D EZB MVOLT	Vertical Candela	80CRI 24D EZB MVOLT	Vertical Candela	80CRI 35D EZB MVOLT	Vertical Candela	80CRI 50D EZB MVOLT	Vertical Candela
4AC CS	0° 1197	4AC CS	0° 771	4AC CS	0° 996	4AC CS	0° 1333
(Aim at 30°)	5° 1083	(Aim at 30°)	5° 1133	(Aim at 30°)	5° 1545	(Aim at 30°)	5° 1804
Watts: 33.6	10° 2178	Watts: 33.6	10° 2147	Watts: 33.6	10° 2574	Watts: 33.6	10° 2353
Lumens: 2992	15° 4569	Lumens: 2957	15° 4051	Lumens: 2994	15° 4081	Lumens: 2882	15° 2920
Luminaire LPW: 89	20° 8730	Luminaire LPW: 88	20° 7224	Luminaire LPW: 89	20° 5638	Luminaire LPW: 86	20° 3410
	25° 19701		25° 10444		25° 6636		25° 3815
	30° 26401		30° 12055		30° 6891		30° 4016
	35° 15227		35° 11162		35° 6616		35° 3854
	40° 5729		40° 8150		40° 5722		40° 3398
	45° 1606		45° 3895		45° 3893		45° 2886
	50° 253		50° 1383		50° 2205		50° 2209
	55° 74		55° 407		55° 1161		55° 1531
	60° 28		60° 134		60° 545		60° 796
	65° 8		65° 15		65° 22		65° 39
	70° 0		70° 0		70° 0		70° 3
	75° 0		75° 0		75° 0		75° 0
	80° 0		80° 0		80° 0		80° 0
	85° 0		85° 0		85° 0		85° 0
	90° 0		90° 0		90° 0		90° 0

LUMEN OUTPUT MULTIPLIERS				
Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		



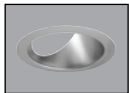
CBCP • Centerbeam candlepower
FC • Footcandles at beam center (aim point)

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°).

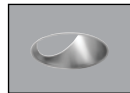


Beam Type	Beam Spread°	CBCP	0°				30°				30°				45°			
			MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W
SP	12°	26401	6	733	1.4	1.4	476	1.9	1.6	3	367	5.2	3.0	1.7	1037	3.0	1.4	1.0
			8	413	1.9	1.6	268	2.5	2.2	4	206	6.9	4.0	1.9	583	4.0	1.9	1.3
			10	264	2.4	2.4	171	3.2	2.7	5	132	8.7	4.9	2.4	373	5.0	2.9	1.7
			12	183	2.8	2.8	119	3.8	3.3	6	92	10.4	5.9	2.8	259	6.0	2.9	2.0
			14	135	3.3	3.3	87	4.4	3.8	7	67	12.1	6.9	3.3	1960	7.0	3.4	2.3
NFL	24°	12055	4	753	1.8	1.8	489	2.4	2.0	2	377	3.5	4.1	1.8	1066	2.0	1.8	1.2
			6	335	2.6	2.6	217	3.6	3.0	3	167	5.2	6.1	2.6	474	3.0	2.9	1.9
			8	188	3.5	3.5	122	4.7	4.0	4	94	6.9	8.2	3.5	266	4.0	3.7	2.5
			10	121	4.4	4.4	78	5.9	5.1	5	60	8.7	10.2	4.4	170	5.0	4.6	3.1
FL	35°	6891	12	84	5.3	5.3	54	7.1	6.1	6	42	10.4	12.3	5.3	118	6.0	5.5	3.7
			4	431	2.6	2.6	280	3.6	3.0	2	215	3.5	7.7	2.6	609	2.0	2.9	1.8
			6	191	3.9	3.9	124	5.4	4.5	3	96	5.2	11.5	3.9	271	3.0	4.4	2.8
			8	108	5.2	5.2	70	7.2	6.0	4	54	6.9	15.3	5.2	152	4.0	5.8	3.7
WFL	50°	4016	10	69	6.5	6.5	45	9.0	4.5	5	34	8.7	19.1	6.5	97	5.0	7.3	4.6
			12	48	7.8	7.8	31	10.8	9.0	6	24	10.4	23.0	7.8	68	6.0	8.8	5.5
			4	251	3.6	3.6	163	5.2	4.2	2	126	3.5	19.3	3.6	355	2.0	4.6	2.6
			6	112	5.5	5.5	72	7.8	6.3	3	56	5.2	29.0	5.5	158	3.0	6.9	3.9
			8	63	7.3	7.3	41	10.4	8.4	4	31	6.9	38.7	7.3	89	4.0	9.2	5.2
			10	40	9.1	9.1	26	13.1	10.5	5	20	8.7	48.4	9.1	57	5.0	11.5	6.4
			12	28	10.9	10.9	18	15.7	12.6	6	14	10.4	58.0	10.9	39	6.0	13.8	7.7

4AC Angle-Cut Reflector, 45°



Self-flanged



Flangeless



4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN

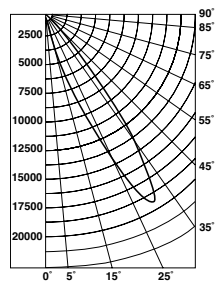
ROUND ANGLE-CUT REFLECTOR NEW CONSTRUCTION 4AC Trim with WET option

PHOTOMETRICS

SPOT PHOTOMETRIC REPORT

Test Report: PT03162804R
Catalog No: AX4 A 32LM 30K
80CRI 12D EZB MVOLT
4AC CS WET
(Aim at 30°)

Watts: 33.6
Lumens: 2757
Luminaire LPW: 82



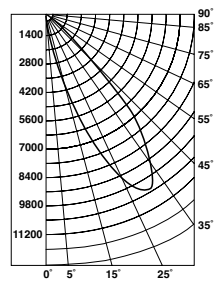
Candlepower Distribution (Candelas)

Degrees	Vertical Candela
0°	1055
5°	833
10°	1895
15°	3946
20°	7700
25°	14730
30°	19938
35°	14109
40°	6441
45°	1964
50°	518
55°	118
60°	49
65°	16
70°	1
75°	0
80°	0
85°	0
90°	0

NARROW FLOOD PHOTOMETRIC REPORT

Test Report: PT03162810R
Catalog No: AX4 A 32LM 30K
80CRI 24D EZB MVOLT
4AC CS WET
(Aim at 30°)

Watts: 33.6
Lumens: 2786
Luminaire LPW: 83



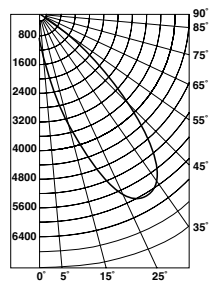
Candlepower Distribution (Candelas)

Degrees	Vertical Candela
0°	765
5°	1205
10°	2231
15°	4052
20°	6761
25°	9323
30°	10450
35°	9516
40°	6911
45°	3497
50°	1336
55°	422
60°	152
65°	27
70°	1
75°	0
80°	0
85°	0
90°	0

FLOOD PHOTOMETRIC REPORT

Test Report: PT03162916R
Catalog No: AX4 A 32LM 30K
80CRI 35D EZB MVOLT
4AC CS WET
(Aim at 30°)

Watts: 33.6
Lumens: 2788
Luminaire LPW: 83



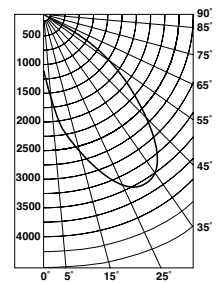
Candlepower Distribution (Candelas)

Degrees	Vertical Candela
0°	892
5°	1390
10°	2263
15°	3491
20°	4821
25°	5797
30°	6140
35°	5957
40°	5210
45°	3849
50°	2228
55°	1194
60°	618
65°	87
70°	2
75°	0
80°	0
85°	0
90°	0

WIDE FLOOD PHOTOMETRIC REPORT

Test Report: PT03162922R
Catalog No: AX4 A 32LM 30K
80CRI 50D EZB MVOLT
4AC CS WET
(Aim at 30°)

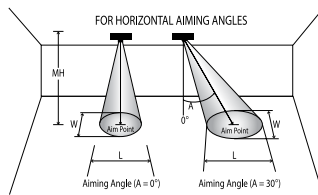
Watts: 33.6
Lumens: 2707
Luminaire LPW: 81



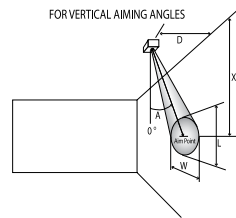
Candlepower Distribution (Candelas)

Degrees	Vertical Candela
0°	1145
5°	1618
10°	2127
15°	2642
20°	3090
25°	3448
30°	3623
35°	3502
40°	3155
45°	2723
50°	2154
55°	1509
60°	977
65°	117
70°	8
75°	0
80°	0
85°	0
90°	0

LUMEN OUTPUT MULTIPLIERS				
Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		



Horizontal Aiming Angles



Vertical Aiming Angles

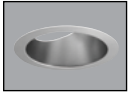


CBCP • Centerbeam candlepower
FC • Footcandles at beam center (aim point)

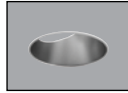
In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30°, 1.0 for 45°).

Beam Type	Beam Spread°	CBCP	0°				30°			30°				45°				
			MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W
SP	12°	19938	6	554	1.7	1.7	360	2.3	2.0	3	277	5.2	3.8	1.7	783	3.0	1.7	1.2
			8	312	2.3	2.3	202	3.0	2.6	4	156	6.9	4.8	2.3	441	4.0	2.3	1.6
			10	199	2.8	2.8	130	3.8	3.3	5	100	8.7	6.0	2.8	282	5.0	2.9	2.0
			12	138	3.4	3.4	90	4.6	3.9	6	69	10.4	7.2	3.4	196	6.0	3.5	2.4
			14	102	4.0	4.0	66	5.3	4.6	7	51	12.1	8.4	4.0	144	7.0	4.0	2.8
NFL	24°	10450	4	653	1.8	1.8	424	2.5	2.1	2	327	3.5	4.3	1.8	924	2.0	1.9	1.3
			6	290	2.7	2.7	189	3.7	3.1	3	145	5.2	6.4	2.7	411	3.0	2.9	1.9
			8	163	3.6	3.6	106	4.9	4.2	4	82	6.9	8.6	3.6	231	4.0	3.8	2.6
			10	105	4.5	4.5	68	6.1	5.2	5	52	8.7	10.4	4.5	148	5.0	4.8	3.2
FL	35°	6139	4	384	2.6	2.6	249	3.7	3.1	2	192	3.5	7.9	2.6	543	2.0	3.0	1.9
			6	171	4.0	4.0	111	5.5	4.6	3	85	5.2	11.8	4.0	241	3.0	4.5	2.8
			8	96	5.3	5.3	62	7.3	6.1	4	48	6.9	15.8	5.3	136	4.0	5.9	3.7
			10	61	6.6	6.6	40	9.2	7.6	5	31	8.7	19.7	6.6	87	5.0	7.4	4.7
WFL	50°	3622	4	226	3.7	3.7	147	5.3	4.3	2	113	3.5	20.8	3.7	320	2.0	4.7	2.6
			6	101	5.6	5.6	65	8.0	6.4	3	50	5.2	31.2	5.6	142	3.0	7.1	3.9
			8	57	7.4	7.4	37	10.6	8.6	4	28	6.9	41.6	7.4	80	4.0	9.4	5.2
			10	36	9.3	9.3	24	13.3	10.7	5	18	8.7	52.0	9.3	51	5.0	11.8	6.5
			12	25	11.1	11.1	16	16.0	12.8	6	13	10.4	62.3	11.1	36	6.0	14.1	7.9

4AC20 Shallow Angle-Cut Reflector, 20°



Self-Flanged



Flangeless



4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN

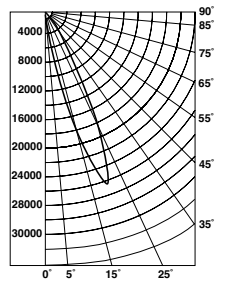
ROUND 20° ANGLE-CUT REFLECTOR NEW CONSTRUCTION 4AC20 Trim

PHOTOMETRICS

SPOT PHOTOMETRIC REPORT

Test Report: PTO3162805R
Catalog No: AX4 A 32LM 30K
80CRI 12D EZB MVOLT
4AC20 CS
(Aim at 30°)

Watts: 33.6
Lumens: 2952
Luminaire LPW: 88



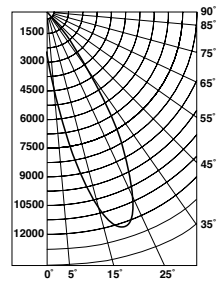
Candlepower Distribution (Candelas)

Degrees Vertical	Candela
0°	1774
5°	3977
10°	7653
15°	16832
20°	26259
25°	17590
30°	7847
35°	3350
40°	838
45°	153
50°	57
55°	24
60°	10
65°	1
70°	0
75°	0
80°	0
85°	0
90°	0

NARROW FLOOD PHOTOMETRIC REPORT

Test Report: PTO3162811R
Catalog No: AX4 A 32LM 30K
80CRI 24D EZB MVOLT
4AC20 CS
(Aim at 30°)

Watts: 33.6
Lumens: 2993
Luminaire LPW: 89



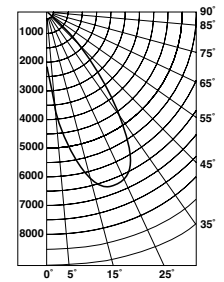
Candlepower Distribution (Candelas)

Degrees Vertical	Candela
0°	2209
5°	4350
10°	7661
15°	10829
20°	12127
25°	10887
30°	7858
35°	4284
40°	1568
45°	544
50°	196
55°	55
60°	6
65°	1
70°	0
75°	0
80°	0
85°	0
90°	0

FLOOD PHOTOMETRIC REPORT

Test Report: PTO3162917R
Catalog No: AX4 A 32LM 30K
80CRI 35D EZB MVOLT
4AC20 CS
(Aim at 30°)

Watts: 33.6
Lumens: 2995
Luminaire LPW: 89



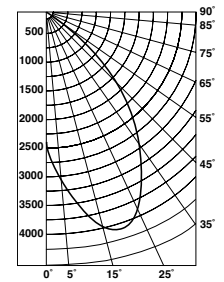
Candlepower Distribution (Candelas)

Degrees Vertical	Candela
0°	2239
5°	3672
10°	5304
15°	6472
20°	6898
25°	6723
30°	6024
35°	4700
40°	2941
45°	1598
50°	819
55°	354
60°	11
65°	0
70°	0
75°	0
80°	0
85°	0
90°	0

WIDE FLOOD PHOTOMETRIC REPORT

Test Report: PTO3162923R
Catalog No: AX4 A 32LM 30K
80CRI 50D EZB MVOLT
4AC20 CS
(Aim at 30°)

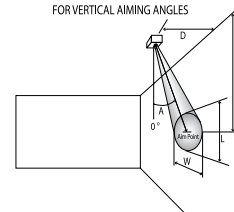
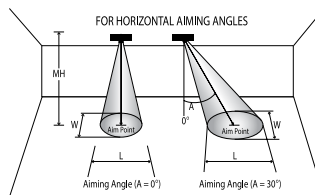
Watts: 33.6
Lumens: 2891
Luminaire LPW: 86



Candlepower Distribution (Candelas)

Degrees Vertical	Candela
0°	2400
5°	3026
10°	3544
15°	3915
20°	4120
25°	3894
30°	3433
35°	2945
40°	2436
45°	1824
50°	1236
55°	450
60°	17
65°	1
70°	0
75°	0
80°	0
85°	0
90°	0

LUMEN OUTPUT MULTIPLIERS				
Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		



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

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°).

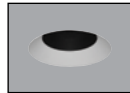


Beam Type	Beam Spread°	CBCP	0°			20°			20°					
			MH	FC	L	W	FC	L	W	D	FC	X	L	W
SP	12°	26259	6	729	1.5	1.5	605	1.6	1.5	3	117	8.2	7.0	2.1
			8	410	1.9	1.9	340	2.2	2.1	4	66	11.0	9.3	2.8
			10	263	2.4	2.4	218	2.7	2.6	5	42	13.7	11.6	3.5
			12	182	2.9	2.9	151	3.3	3.1	6	29	16.5	14.0	4.2
			14	134	3.4	3.4	111	3.8	3.6	7	21	19.2	16.3	5.0
NFL	24°	12127	4	758	1.8	1.8	629	2.0	1.9	2	121	5.5	11.9	2.6
			6	337	2.6	2.6	280	3.0	2.8	3	54	8.2	17.9	3.9
			8	189	3.5	3.5	157	4.0	3.8	4	30	11.0	23.9	5.2
			10	121	4.4	4.4	101	5.0	4.7	5	19	13.7	29.9	6.5
			12	84	5.3	5.3	70	6.0	5.6	6	13	16.5	35.8	7.7
FL	35°	6898	4	431	2.5	2.5	358	2.9	2.7	2	69	5.5	43.2	3.7
			6	192	3.8	3.8	159	4.3	4.0	3	31	8.2	64.8	5.5
			8	108	5.0	5.0	89	5.8	5.4	4	17	11.0	86.4	7.4
			10	69	6.3	6.3	57	7.2	6.7	5	11	13.7	108.0	9.2
			12	48	7.6	7.6	40	8.7	8.1	6	8	16.5	129.6	11.1
WFL	50°	4120	4	431	2.5	2.5	358	2.9	2.7	2	69	5.5	43.2	3.7
			6	192	3.8	3.8	159	4.3	4.0	3	31	8.2	64.8	5.5
			8	108	5.0	5.0	89	5.8	5.4	4	17	11.0	86.4	7.4
			10	69	6.3	6.3	57	7.2	6.7	5	11	13.7	108.0	9.2
			12	48	7.6	7.6	40	8.7	8.1	6	8	16.5	129.6	11.1

4DBV Downlight Bevel



Self-Flanged



Flangeless

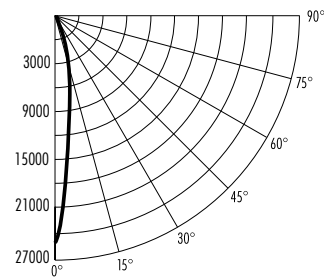


4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN ROUND DOWNLIGHT BEVEL NEW CONSTRUCTION 4DBV Trim

PHOTOMETRICS

**SPOT
PHOTOMETRIC REPORT**

Test Report #: PT03161702R
Catalog No: AX4 A 32LM 30K
80CRI 12D EZB MVOLT
4DBV BD
Luminaire Spacing Criterion: 0.24
Luminaire LPW: 75



**CANDLEPOWER
DISTRIBUTION
(Candelas)**

Degrees Vertical	0°
0	25419
5	16883
15	3534
25	283
35	72
45	21
55	1
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	179	166	155
5.0'	114	106	99
6.0'	79	74	69
7.0'	64	60	56
8.0'	51	47	44
9.0'	39	36	34
10.0'	29	27	25

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	2456	97.9
0-40°	2492	99.3
0-60°	2509	100.0
0-90°	2509	100.0

**INITIAL FOOTCANDLES
(One Unit, 33.6W, 13.5° Beam)**

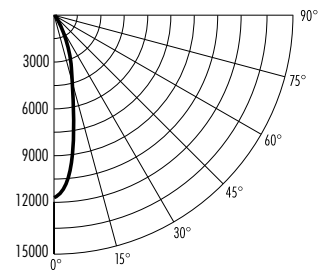
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	706.1	1.4'
8	397.2	1.9'
10	254.2	2.4'
12	176.5	2.8'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	5676
55	302
65	0
75	0
85	0

**NARROW FLOOD
PHOTOMETRIC REPORT**

Test Report #: PT03161706R
Catalog No: AX4 A 32LM 30K
80CRI 24D EZB MVOLT
4DBV BD
Luminaire Spacing Criterion: 0.44
Luminaire LPW: 75



**CANDLEPOWER
DISTRIBUTION
(Candelas)**

Degrees Vertical	0°
0	11729
5	10514
15	4177
25	704
35	118
45	20
55	1
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	178	162	151
5.0'	114	104	97
6.0'	79	72	67
7.0'	64	58	54
8.0'	51	46	43
9.0'	39	35	33
10.0'	28	26	24

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	2419	95.9
0-40°	2502	99.2
0-60°	2521	100.0
0-90°	2521	100.0

**INITIAL FOOTCANDLES
(One Unit, 33.6W, 25.1° Beam)**

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	325.8	2.7'
8	183.3	3.6'
10	117.3	4.5'
12	81.5	5.3'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	5255
55	475
65	0
75	0
85	0

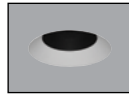
Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT, 80CRI.

LUMEN OUTPUT MULTIPLIERS				
Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		

4DBV Downlight Bevel



Self-Flanged



Flangeless

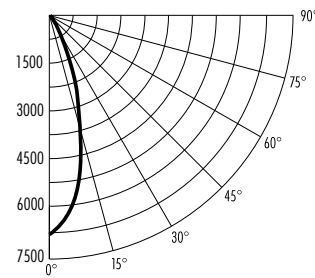


4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN ROUND DOWNLIGHT BEVEL NEW CONSTRUCTION 4DBV Trim (continued)

PHOTOMETRICS

FLOOD PHOTOMETRIC REPORT

Test Report #: PT03162211R
Catalog No: AX4 A 32LM 30K
80CRI 35D EZB MVOLT
4DBV BD
Luminaire Spacing Criterion: 0.58
Luminaire LPW: 77



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	6524
5	6279
15	5424
25	1372
35	367
45	37
55	1
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	181	164	147
5.0'	116	105	94
6.0'	81	73	65
7.0'	65	59	53
8.0'	52	47	42
9.0'	39	36	32
10.0'	29	26	24

INITIAL FOOTCANDLES (One Unit, 33.6W, 34.9° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	181.2	3.8'
8	101.9	5.0'
10	65.2	6.3'
12	45.3	7.5'

ZONAL LUMEN SUMMARY

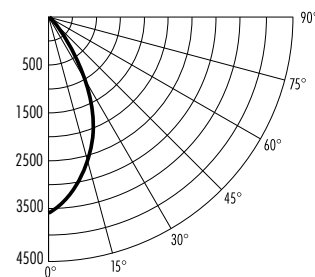
Zone	Lumens	%Fixture
0-30°	2309	89.1
0-40°	2549	98.4
0-60°	2591	100.0
0-90°	2591	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	9810
55	432
65	0
75	0
85	0

WIDE FLOOD PHOTOMETRIC REPORT

Test Report #: PT03162216R
Catalog No: AX4 A 32LM 30K
80CRI 50D EZB MVOLT
4DBV BD
Luminaire Spacing Criterion: 0.74
Luminaire LPW: 69



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	3598
5	3433
15	2658
25	1710
35	728
45	26
55	2
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	161	142	126
5.0'	103	91	81
6.0'	71	63	56
7.0'	58	51	45
8.0'	46	40	36
9.0'	35	31	27
10.0'	26	23	20

INITIAL FOOTCANDLES (One Unit, 33.6W, 48.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	99.9	5.4'
8	56.2	7.2'
10	36.0	8.9'
12	25.0	10.7'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1826	78.8
0-40°	2267	97.8
0-60°	2317	100.0
0-90°	2318	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	6832
55	777
65	59
75	0
85	0

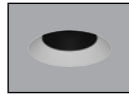
Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT, 80CRI.

LUMEN OUTPUT MULTIPLIERS				
Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		

4DBV Downlight Bevel



Self-Flanged



Flangeless



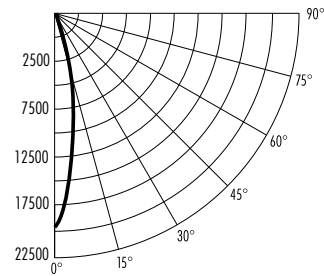
4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN ROUND DOWNLIGHT BEVEL NEW CONSTRUCTION 4DBV Trim with WET option

PHOTOMETRICS

**SPOT
PHOTOMETRIC REPORT**

Test Report #: PT03161704R
Catalog No: AX4 A 32LM 30K
80CRI 12D EZB MVOLT
4DBV BD WET

Luminaire Spacing Criterion: 0.28
Luminaire LPW: 69



**CANDLEPOWER
DISTRIBUTION
(Candelas)**

Degrees Vertical	0°
0	19702
5	14240
15	3288
25	351
35	65
45	23
55	4
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	166	153	144
5.0'	106	98	92
6.0'	74	68	64
7.0'	60	55	52
8.0'	47	43	41
9.0'	36	33	31
10.0'	27	24	23

**INITIAL FOOTCANDLES
(One Unit, 33.6W, 15.7° Beam)**

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	547.3	1.7'
8	307.8	2.2'
10	197.0	2.8'
12	136.8	3.3'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	2261	97.1
0-40°	2306	99.1
0-60°	2328	100.0
0-90°	2328	100.0

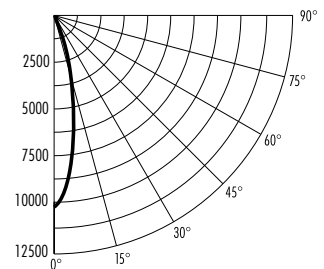
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	6026
55	1166
65	117
75	0
85	0

**NARROW FLOOD
PHOTOMETRIC REPORT**

Test Report #: PT03161708R
Catalog No: AX4 A 32LM 30K
80CRI 24D EZB MVOLT
4DBV BD WET

Luminaire Spacing Criterion: 0.44
Luminaire LPW: 69



**CANDLEPOWER
DISTRIBUTION
(Candelas)**

Degrees Vertical	0°
0	10146
5	9140
15	3815
25	720
35	135
45	28
55	3
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	165	150	138
5.0'	105	96	89
6.0'	73	67	61
7.0'	59	54	50
8.0'	47	43	39
9.0'	36	33	30
10.0'	26	24	22

**INITIAL FOOTCANDLES
(One Unit, 33.6W, 25.5° Beam)**

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	281.8	2.7'
8	158.5	3.6'
10	101.5	4.5'
12	70.5	5.4'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	2209	94.8
0-40°	2303	98.8
0-60°	2330	100.0
0-90°	2330	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	7428
55	1080
65	176
75	0
85	0

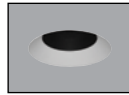
Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT, 80CRI.

LUMEN OUTPUT MULTIPLIERS				
Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		

4DBV Downlight Bevel



Self-Flanged



Flangeless

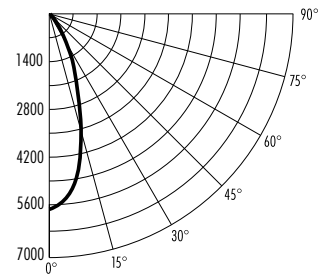


4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN ROUND DOWNLIGHT BEVEL NEW CONSTRUCTION 4DBV Trim with WET option (continued)

PHOTOMETRICS

FLOOD PHOTOMETRIC REPORT

Test Report #: PT03162213R
Catalog No: AX4 A 32LM 30K
80CRI 35D EZB MVOLT
4DBV BD WET
Luminaire Spacing Criterion: 0.58
Luminaire LPW: 71



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Vertical	0°
0	Vertical	0°
0		5879
5		5624
15		3600
25		1298
35		359
45		61
55		4
65		1
75		0
85		0
90		0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	168	150	137
5.0'	108	96	87
6.0'	75	67	61
7.0'	60	54	49
8.0'	48	43	39
9.0'	37	33	30
10.0'	27	24	22

INITIAL FOOTCANDLES

(One Unit, 33.6W, 34.9° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	163.3	3.8'
8	91.9	5.0'
10	58.8	6.3'
12	40.8	7.5'

ZONAL LUMEN SUMMARY

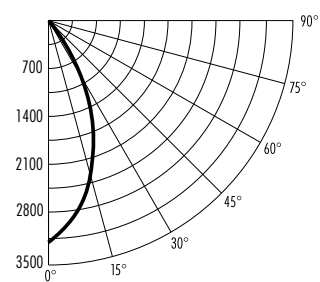
Zone	Lumens	%Fixture
0-30°	2104	87.7
0-40°	2340	97.5
0-60°	2400	100.0
0-90°	2400	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	16186
55	1296
65	235
75	0
85	0

WIDE FLOOD PHOTOMETRIC REPORT

Test Report #: PT03162218R
Catalog No: AX4 A 32LM 30K
80CRI 50D EZB MVOLT
4DBV BD WET
Luminaire Spacing Criterion: 0.76
Luminaire LPW: 64



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Vertical	0°
0	Vertical	0°
0		3215
5		3088
15		2423
25		1554
35		654
45		88
55		5
65		1
75		0
85		0
90		0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	150	133	116
5.0'	96	85	74
6.0'	67	59	52
7.0'	54	48	42
8.0'	43	38	33
9.0'	33	29	25
10.0'	24	21	19

INITIAL FOOTCANDLES

(One Unit, 33.6W, 48.9° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	89.3	5.5'
8	50.2	7.3'
10	32.1	9.1'
12	22.3	10.9'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1663	76.9
0-40°	2071	95.7
0-60°	2163	100.0
0-90°	2164	100.0

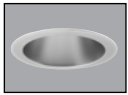
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	23474
55	1641
65	410
75	0
85	0

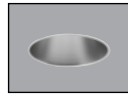
Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT, 80CRI.

LUMEN OUTPUT MULTIPLIERS				
Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		

4DP Parabolic Downlight Reflector



Self-Flanged



Flangeless



4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN

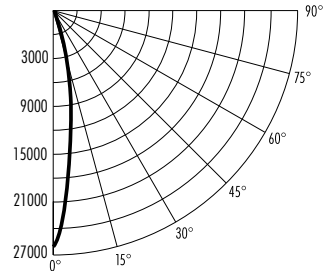
ROUND PARABOLIC DOWNLIGHT NEW CONSTRUCTION 4DP Trim

PHOTOMETRICS

**SPOT
PHOTOMETRIC REPORT**

Test Report #: PT03161701R
Catalog No: AX4 A 32LM 30K
80CRI 12D EZB MVOLT
4DP CS

Luminaire Spacing Criterion: 0.26
Luminaire LPW: 91



**CANDLEPOWER
DISTRIBUTION
(Candelas)**

Degrees Vertical	0°
0	26581
5	18724
15	4377
25	456
35	99
45	30
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	217	201	188
5.0'	139	129	120
6.0'	96	89	84
7.0'	78	72	68
8.0'	62	57	53
9.0'	47	44	41
10.0'	35	32	30

**INITIAL FOOTCANDLES
(One Unit, 33.6W, 14.3° Beam)**

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	738.4	1.5'
8	415.3	2.0'
10	265.8	2.5'
12	184.6	3.0'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	2973	96.9
0-40°	3045	99.2
0-60°	3068	100.0
0-90°	3068	100.0

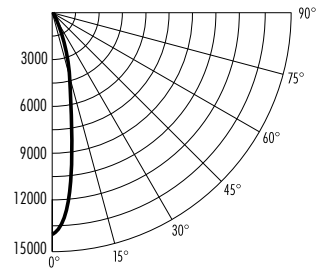
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	4086
55	0
65	0
75	0
85	0

**NARROW FLOOD
PHOTOMETRIC REPORT**

Test Report #: PT03161705R
Catalog No: AX4 A 32LM 30K
80CRI 24D EZB MVOLT
4DP CS

Luminaire Spacing Criterion: 0.40
Luminaire LPW: 92



**CANDLEPOWER
DISTRIBUTION
(Candelas)**

Degrees Vertical	0°
0	14023
5	12864
15	4778
25	1022
35	196
45	25
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	220	200	185
5.0'	140	128	118
6.0'	98	89	82
7.0'	79	72	66
8.0'	62	57	52
9.0'	48	44	40
10.0'	35	32	30

**INITIAL FOOTCANDLES
(One Unit, 33.6W, 23.8° Beam)**

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	389.6	1.7'
8	219.1	3.4'
10	140.2	4.2'
12	97.4	5.1'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	2946	94.8
0-40°	3083	99.2
0-60°	3108	100.0
0-90°	3108	100.0

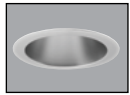
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	3308
55	0
65	0
75	0
85	0

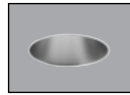
Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT, 80CRI.

LUMEN OUTPUT MULTIPLIERS				
Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		

4DP Parabolic Downlight Reflector



Self-Flanged



Flangeless



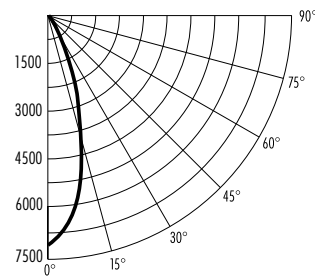
4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN

ROUND PARABOLIC DOWNLIGHT NEW CONSTRUCTION 4DP Trim (continued)

PHOTOMETRICS

FLOOD PHOTOMETRIC REPORT

Test Report #: PT03162210R
Catalog No: AX4 A 32LM 30K
80CRI 35D EZB INVOLT
4DP CS
Luminaire Spacing Criterion: 0.58
Luminaire LPW: 89



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Candelas
Vertical	0°
0	7361
5	6960
15	4353
25	1683
35	466
45	44
55	9
65	2
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	209	186	170
5.0'	134	119	109
6.0'	93	83	75
7.0'	75	67	61
8.0'	59	53	48
9.0'	45	41	37
10.0'	33	30	27

INITIAL FOOTCANDLES

(One Unit, 33.6W, 34.3° Beam)

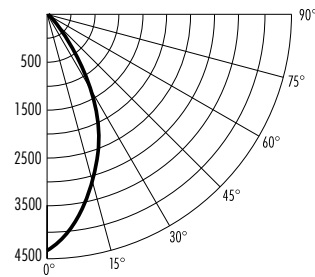
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	204.5	3.7'
8	115.0	4.9'
10	73.6	6.2'
12	51.1	7.4'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	5908
55	1439
65	533
75	0
85	0

WIDE FLOOD PHOTOMETRIC REPORT

Test Report #: PT03162215R
Catalog No: AX4 A 32LM 30K
80CRI 50D EZB INVOLT
4DP CS
Luminaire Spacing Criterion: 0.72
Luminaire LPW: 84



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	Candelas
Vertical	0°
0	4439
5	4144
15	3159
25	2068
35	878
45	61
55	14
65	4
75	1
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	196	173	152
5.0'	125	111	97
6.0'	87	77	67
7.0'	71	62	55
8.0'	56	49	43
9.0'	43	38	33
10.0'	31	28	24

INITIAL FOOTCANDLES

(One Unit, 33.6W, 47.3° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	123.3	5.3'
8	69.4	7.0'
10	44.4	8.8'
12	30.8	10.5'

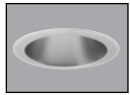
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	8136
55	2246
65	977
75	242
85	0

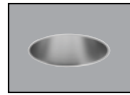
Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT, 80CRI.

LUMEN OUTPUT MULTIPLIERS				
Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		

4DP Parabolic Downlight Reflector



Self-Flanged



Flangeless



4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN

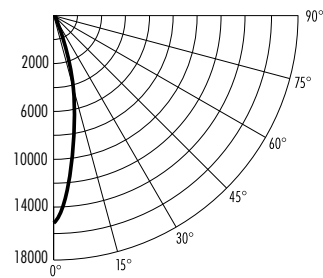
ROUND PARABOLIC DOWNLIGHT NEW CONSTRUCTION
4DP Trim with WET option

PHOTOMETRICS

**SPOT
PHOTOMETRIC REPORT**

Test Report #: PT03161703R
Catalog No: AX4 A 32LM 30K
80CRI 12D EZB MVOLT
4DP CS WET

Luminaire Spacing Criterion: 0.36
Luminaire LPW: 83



**CANDLEPOWER
DISTRIBUTION
(Candelas)**

Degrees Vertical	0°
0	15089
5	12233
15	4304
25	787
35	153
45	49
55	9
65	2
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	198	180	166
5.0'	126	115	106
6.0'	88	80	74
7.0'	71	65	60
8.0'	56	51	47
9.0'	43	39	36
10.0'	32	29	27

INITIAL FOOTCANDLES

(One Unit, 33.6W, 20.4° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	419.1	2.2'
8	235.8	2.9'
10	150.9	3.6'
12	104.8	4.3'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	2639	94.3
0-40°	2747	98.2
0-60°	2795	99.9
0-90°	2797	100.0

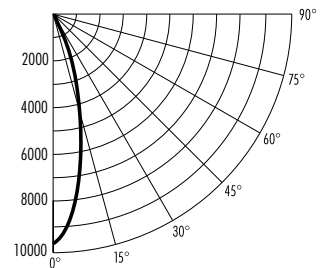
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	6509
55	1483
65	533
75	0
85	0

**NARROW FLOOD
PHOTOMETRIC REPORT**

Test Report #: PT03161707R
Catalog No: AX4 A 32LM 30K
80CRI 24D EZB MVOLT
4DP CS WET

Luminaire Spacing Criterion: 0.46
Luminaire LPW: 83



**CANDLEPOWER
DISTRIBUTION
(Candelas)**

Degrees Vertical	0°
0	9799
5	8881
15	4250
25	2500
35	267
45	55
55	11
65	3
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	196	177	163
5.0'	126	113	104
6.0'	87	79	72
7.0'	71	64	59
8.0'	56	50	46
9.0'	43	39	35
10.0'	31	28	26

INITIAL FOOTCANDLES

(One Unit, 33.6W, 27.1° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	272.2	2.9'
8	153.1	3.9'
10	98.0	4.8'
12	68.0	5.8'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	2554	91.2
0-40°	2739	97.8
0-60°	2798	99.9
0-90°	2802	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	7358
55	1854
65	681
75	48
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT, 80CRI.

LUMEN OUTPUT MULTIPLIERS				
Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		

4DP Parabolic Downlight Reflector



Self-Flanged



Flangeless



4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH 1200/1700/2200/2700/3200 LUMEN

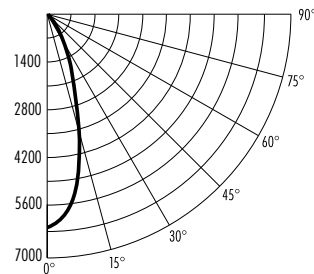
ROUND PARABOLIC DOWNLIGHT NEW CONSTRUCTION 4DP Trim with WET option (continued)

PHOTOMETRICS

FLOOD PHOTOMETRIC REPORT

Test Report #: PT03162212R
Catalog No: AX4 A 32LM 30K
80CRI 350 EZB INVOLT
4DP CS WET

Luminaire Spacing Criterion: 0.58
Luminaire LPW: 82



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	6213
5	5848
15	3785
25	1687
35	506
45	73
55	11
65	3
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	194	171	154
5.0'	124	110	99
6.0'	86	76	69
7.0'	70	62	55
8.0'	55	49	44
9.0'	42	37	34
10.0'	31	27	25

INITIAL FOOTCANDLES

(One Unit, 33.6W, 35.8° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	172.6	3.9'
8	97.1	5.2'
10	62.1	6.5'
12	43.1	7.8'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	2347	84.7
0-40°	2680	96.7
0-60°	2767	99.9
0-90°	2771	100.0

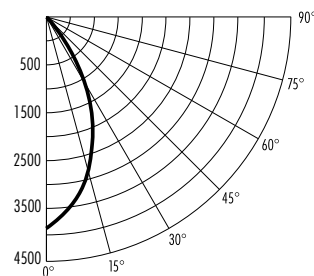
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	9746
55	1897
65	740
75	97
85	0

WIDE FLOOD PHOTOMETRIC REPORT

Test Report #: PT03162217R
Catalog No: AX4 A 32LM 30K
80CRI 50D EZB INVOLT
4DP CS WET

Luminaire Spacing Criterion: 0.76
Luminaire LPW: 77



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	3888
5	3704
15	2907
25	1874
35	786
45	69
55	16
65	5
75	1
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	180	157	139
5.0'	115	100	89
6.0'	80	70	62
7.0'	65	57	50
8.0'	51	45	40
9.0'	39	34	30
10.0'	29	25	22

INITIAL FOOTCANDLES

(One Unit, 33.6W, 48.7° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	108.0	5.4'
8	60.8	7.2'
10	38.9	9.1'
12	27.0	10.9'

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1997	77.1
0-40°	2486	96.0
0-60°	2584	99.8
0-90°	2590	100.0

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	9286
55	2595
65	1125
75	338
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT, 80CRI.

LUMEN OUTPUT MULTIPLIERS				
Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		

4WW Lensed Wall Wash



Self-Flanged



Flangeless



4" LED UNIVERSAL RECESSED ADJUSTABLE/DOWNLIGHT/WALL WASH

1200/1700/2200/2700/3200 LUMEN

ROUND LENSED WALL WASH NEW CONSTRUCTION

4WW Trim

PHOTOMETRICS

PHOTOMETRIC REPORT

Test Report #: PT03161709R

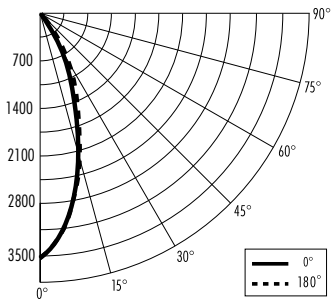
Catalog No: AX4 A 32LM 30K

80CRI 24D EZB MVOLT

4WW CS

Luminaire Spacing Criterion @ 90°: 0.68

Luminaire: 4" LED Downlight with Lensed Wall Wash Trim



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0° Wall Wash	180° Downlight
0	3505	3505
5	3366	3336
10	2909	2898
15	2256	2334
20	1594	1755
25	1077	1265
30	689	890
35	442	607
40	303	388
45	220	218
50	170	93
55	138	23
60	113	2
65	86	0
70	61	0
75	39	0
80	17	0
85	0	0
90	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1533	70.8
0-40°	1877	86.7
0-60°	2123	98.0
0-90°	2165	100.0
90-180°	0	0.0
0-180°	2165	100.0

LUMINANCE (Average cd/m²)

Degrees	Average 180° Downlight Luminance
45	29520
55	22874
65	19384
75	14207
85	0

FOOTCANDLES ON WALL FROM MULTIPLE FIXTURES

Fixture Distance to Wall		2'			3'								
Fixture Centers (spacing)		2'	2'	2'	3'	3'	3'						
DISTANCE FROM CEILING	1'	18	18	18	16	11	16	8	8	8	7	6	7
	2'	36	36	36	28	24	28	16	16	16	14	13	14
	3'	42	42	42	32	28	32	20	20	20	16	15	16
	4'	46	47	46	31	34	31	22	22	22	18	17	18
	5'	47	47	47	34	33	34	24	24	24	19	18	19
	6'	44	45	44	32	32	32	25	26	25	20	20	20
	7'	41	42	41	30	30	30	26	26	26	21	21	21
	8'	38	38	38	27	27	27	25	26	25	20	20	20
	9'	31	32	31	23	23	23	22	23	22	18	18	18

LUMEN OUTPUT MULTIPLIERS

Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.97	1200	0.38
3000K	80	1.00	1700	0.53
3500K	80	1.03	2200	0.72
4000K	80	1.06	2700	0.87
2700K	90	0.79	3200	1.00
3000K	90	0.82		