FEATURES

OPTICAL SYSTEM

- Self-flanged, semi-specular or matte-diffuse reflector. Patented Vertisys-Bounding Ray™ Optical Principle design (US Patent #5,800,050) provides lamp before lamp image. Lamp image that reflects smoothly from the top of the reflector to the aperture, providing optimal fixture performance and efficiency.

MECHANICAL SYSTEM

- 16-gauge galvanized steel mounting/plaster frame with integral yoke and flat spring to retain optical system. Maximum 1-5/8" ceiling thickness.
- 16-gauge galvanized steel mounting bars with continuous 4" vertical adjustment are shipped pre-installed. Post installation adjustment possible without the use of tools from above or below the ceiling.
- Galvanized steel junction box with bottom-hinged access covers and spring latch. Two combination 1/2"-3/4" and three 1/2" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out) No. 12 AWG conductors rated for 90°C.

ELECTRICAL SYSTEM

- Rugged aluminum lampholder housing.
- Vertically-mounted, positive-latch, thermoplastic socket.
- Class P, thermally-protected, high power factor ballast mounted to the junction box.
- Simply5™ technology available. SIMPLY5 LIGHTING INTELLIGENCE

LISTING

- Fixtures are UL Listed for thru-branch wiring, Non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian standards.

Type **Catalog number**

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.....

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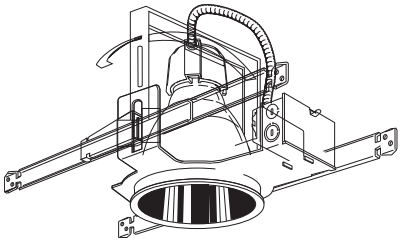
Compact Fluorescent Downlights

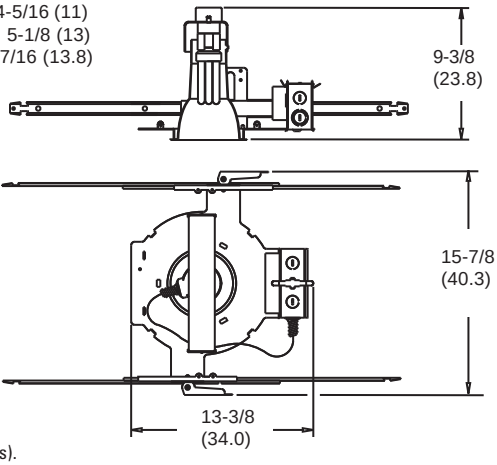
4" AFV

Lensed Reflector

Vertical



Aperture: 4-5/16 (11)
Ceiling Opening: 5-1/8 (13)
Overlap Trim: 5-7/16 (13.8)



All dimensions are inches (centimeters).

ORDERING INFORMATION

Example: **AFV 26TRT 4AR CGL MVOLT WLP**

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line. Order accessories as separate catalog numbers (shipped separately).

AFV

Series	Wattage/ Lamp	Aperture/ Trim color	Finish	Lens type	Voltage	Ballast[3]	Options
AFV	**13DTT**	**4AR** Clear	(blank) Semi-specular	(blank) No lens	**MVOLT[2]**	(blank) Electronic ballast	**ELR[7]** Emergency battery pack with remote test switch
	13TRT	**4PR** Pewter	**LD** Matte-diffuse	**CGL** Clear glass lens	**120**	**ECOS[4]** EcoSystem electronic dimming ballast. Minimum dimming level 5%.	**ELRHL[7]** High lumen output emergency battery pack with remote test switch
	18TRT	**4UBR** Umber		**PCL** Clear polycarbonate lens	**277**	**ADEZ[4,5]** Advance Mark 10® electronic ballast. Minimum dimming level 5%	**GMF[8]** Single, slow-blow fuse
	26TRT	**4WTR** Wheat		**T73** Tempered prismatic lens	**347**	**S5[6]** SIMPLY5™ system ballast	**GLR[8]** Single, fast-blow fuse
	32TRT	**4MB[1]** Black baffle		**CAL** Clear acrylic lens			**TRW** White painted flange (standard on MB and WB)
		4WB[1] White baffle		**A12** Prismatic acrylic lens			**TRBL** Black painted flange
				PPC Prismatic polycarbonate lens			**GSKT** Foam gasketing
							WLP 3500 K lamp (shipped separately)
							LRC[9] Provides compatibility with Lithonia Reloc® wiring system; access above ceiling required
							CP[10] Chicago plenum
							BDP[11] Ballast disconnect plug
							HW Hardwire for S5 system; replaces Reloc
							NSD[12] Sensor Switch nLight™ dimming relay
							WL Wet location

Accessories

Order as separate catalog numbers.

SCA4 Sloped ceiling adapter. Degree of slope must be specified (10D, 15D, 20D, 25D, 30D). Ex: SCA4 **10D**

NOTES:
1 Not available with finishes.
2 Multi-volt electronic ballast capable of operating on any line voltage from 120V through 277V, 50 or 60Hz.
3 For additional ballast types, refer to Technical Bulletins tab.
4 Not available with 13DTT.
5 120V or 277V only.
6 SIMPLY5 includes 9' S5 MLC Reloc wiring system (shipped separately). Available in 26W or 32W; 120V or 277V only. See simply5.net for more information.
7 For dimensional changes, refer to Technical Bulletins tab.
8 Not available with MVOLT.
9 For compatible Reloc systems, refer to Technical Bulletins tab.
10 Not available with ELR or ELRHL options.
11 Meets codes that require in-fixture disconnect.
12 One 5A relay with one 0-10 VDC dimming output, shipped installed. Requires additional nLight bus power supply.

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An AcuityBrands Company

GOTHAM ARCHITECTURAL DOWNLIGHTING
1400 Lester Road Conyers Georgia 30012
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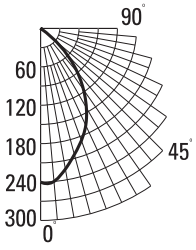
www.gothamlighting.com

4" AFV Lensed

Distribution curve | **Distribution data** | **Output data** | **Coefficient of utilization** | **Illuminance Data at 30" Above Floor for a Single Luminaire**

AFV 13DTT 4AR CGL, (1) CF13DD/E/IN/835, 900 rated lumens, 0.96 s/mh, Test no. LTL9966



From 0°	cp.	Lumens
0°	240	
5°	240	22
15°	204	57
25°	167	76
35°	117	73
45°	61	46
55°	5	7
65°	2	2
75°	0	0
85°	0	0
90°	0	

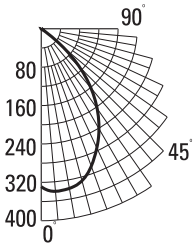
Zone	Lumens	%lamp
0°-30°	156.0	17.3
0°-40°	228.5	25.4
0°-60°	281.3	31.3
0°-90°	282.9	31.4
90°-180°	0.0	0.0
0°-180°	282.9	31.4*

*Efficiency

ρf	80%		20% 70%		50%	
ρc						
ρw	50%	30%	50%	30%	50%	30%
1	35	34	34	33	33	32
2	32	30	31	30	30	29
3	29	28	29	27	28	27
4	27	25	27	25	26	24
5	25	23	25	23	24	22
6	23	21	23	21	22	21
7	21	19	21	19	21	19
8	20	18	20	18	19	18
9	19	17	19	17	18	16
10	18	16	17	15	17	15

Mount height	Initial fc at beam center	50% beam angle 51.3° Beam diameter	50% beam angle 51.3° fc at beam edge	10% beam angle 88.7° Beam diameter	10% beam angle 88.7° fc at beam edge
8'	7.9	5.3	4.0	10.7	0.8
10'	4.3	7.2	2.1	14.7	0.4
12'	2.7	9.1	1.3	18.6	0.3
14'	1.8	11.1	0.9	22.5	0.2
16'	1.3	13.0	0.7	26.4	0.1

AFV 18TRT 4AR CGL, (1) F18TBX/SPX35/A/4P, 1200 rated lumens, 1.11 s/mh, Test no. LTL9963



From 0°	cp.	Lumens
0°	329	
5°	340	33
15°	328	92
25°	274	126
35°	203	126
45°	114	85
55°	10	14
65°	4	3
75°	0	0
85°	0	0
90°	0	

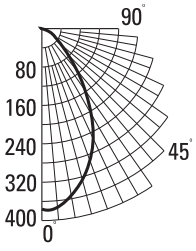
Zone	Lumens	%lamp
0°-30°	250.1	20.8
0°-40°	376.6	31.4
0°-60°	474.8	39.6
0°-90°	478.1	39.8
90°-180°	0.0	0.0
0°-180°	478.1	39.8*

*Efficiency

ρf	80%		20% 70%		50%	
ρc						
ρw	50%	30%	50%	30%	50%	30%
1	44	43	43	42	41	40
2	40	38	39	38	38	37
3	37	35	36	34	35	33
4	34	31	33	31	33	31
5	31	29	31	28	30	28
6	29	26	29	26	28	26
7	27	24	26	24	26	24
8	25	22	25	22	24	22
9	23	20	23	20	23	20
10	22	19	21	19	21	19

Mount height	Initial fc at beam center	50% beam angle 58.0° Beam diameter	50% beam angle 58.0° fc at beam edge	10% beam angle 92.3° Beam diameter	10% beam angle 92.3° fc at beam edge
8'	10.9	6.1	5.4	11.4	1.1
10'	5.8	8.3	2.9	15.6	0.6
12'	3.6	10.5	1.8	19.8	0.4
14'	2.5	12.8	1.2	23.9	0.2
16'	1.8	15.0	0.9	28.1	0.2

AFV 18TRT 4AR A12, (1) F18TBX/SPX35/A/4P, 1200 rated lumens, 0.93 s/mh, Test no. LTL9964



From 0°	cp.	Lumens
0°	376	
5°	374	35
15°	326	91
25°	253	115
35°	157	98
45°	78	61
55°	38	35
65°	22	17
75°	0	0
85°	0	0
90°	0	

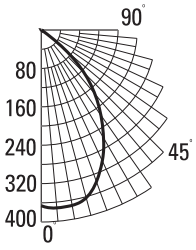
Zone	Lumens	%lamp
0°-30°	241.8	20.1
0°-40°	339.6	28.3
0°-60°	435.7	36.3
0°-90°	452.9	37.7
90°-180°	0.0	0.0
0°-180°	452.9	37.7*

*Efficiency

ρf	80%		20% 70%		50%	
ρc						
ρw	50%	30%	50%	30%	50%	30%
1	41	40	40	39	39	38
2	38	36	37	35	36	34
3	34	32	34	32	33	31
4	32	29	31	29	30	28
5	29	26	29	26	28	26
6	27	24	27	24	26	24
7	25	22	25	22	24	22
8	23	21	23	21	23	20
9	22	19	21	19	21	19
10	20	18	20	18	20	18

Mount height	Initial fc at beam center	50% beam angle 50.1° Beam diameter	50% beam angle 50.1° fc at beam edge	10% beam angle 84.8° Beam diameter	10% beam angle 84.8° fc at beam edge
8'	12.4	5.1	6.2	10.1	1.2
10'	6.7	7.0	3.3	13.7	0.7
12'	4.2	8.9	2.1	17.4	0.4
14'	2.8	10.7	1.4	21.0	0.3
16'	2.1	12.6	1.0	24.7	0.2

AFV 26TRT 4AR CGL, (1) F26TBX/SPX35/A/4P, 1800 rated lumens, 1.09 s/mh, Test no. LTL9960



From 0°	cp.	Lumens
0°	366	
5°	372	36
15°	362	101
25°	301	138
35°	216	135
45°	128	96
55°	16	21
65°	4	4
75°	0	0
85°	0	0
90°	0	

Zone	Lumens	%lamp
0°-30°	274.5	15.3
0°-40°	409.5	22.7
0°-60°	526.8	29.3
0°-90°	530.7	29.5
90°-180°	0.0	0.0
0°-180°	530.7	29.5*

*Efficiency

ρf	80%		20% 70%		50%	
ρc						
ρw	50%	30%	50%	30%	50%	30%
1	32	31	32	31	30	30
2	30	28	29	28	28	27
3	27	25	27	25	26	25
4	25	23	25	23	24	22
5	23	21	23	21	22	21
6	21	19	21	19	21	19
7	20	18	19	18	19	17
8	18	16	18	16	18	16
9	17	15	17	15	17	15
10	16	14	16	14	15	14

Mount height	Initial fc at beam center	50% beam angle 57.3° Beam diameter	50% beam angle 57.3° fc at beam edge	10% beam angle 92.9° Beam diameter	10% beam angle 92.9° fc at beam edge
8'	12.1	6.0	6.0	11.6	1.2
10'	6.5	8.2	3.3	15.8	0.7
12'	4.1	10.4	2.0	20.0	0.4
14'	2.8	12.6	1.4	24.2	0.3
16'	2.0	14.7	1.0	28.4	0.2

ENERGY (Calculated in accordance eith NEMA standard LE-5A)

LER.DOH	Annual* Energy Cost	Lamps	Lamp Lumens	Ballast Factor	Input Watts
18	$13.59	(1) 13W DTT	900	1.0	16
24	$ 10.05	(1) 18W TRT	1200	1.0	20
19	$ 12.66	(1) 26W TRT	1800	1.0	28

*Comparative yearly lighting energy cost per 1000 lumens

NOTES:
1 For electrical characteristics, refer to Technical Bulletins tab.
2 Tested to current IES and NEMA standards under stabilized laboratory conditions. Various operating factors can cause differences between laboratory data and actual field measurements. Dimensions and specifications are based on the most current available data and are subject to change without notice.

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