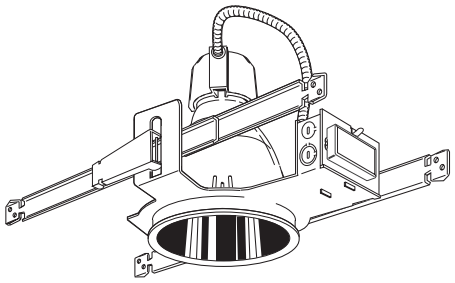
gotham®

Luminaire Type:
Catalog Number:



Gotham Architectural Downlighting
Compact Fluorescent Downlights

4" AFV
Open Reflector

Vertical Lamp
Double Twin-Tube or Triple-Tube

nLIGHT

FEATURES

OPTICAL SYSTEM
- Self-flanged, semi-specular or matte-diffuse reflector. Patented Vertisys® - Bounding Ray™ Optical Principle design (US Patent No. 5,800,050).

MECHANICAL SYSTEM
- 16-gauge galvanized steel construction; maximum 1-5/8" ceiling thickness.
- Telescopic mounting bars maximum of 32" and minimum of 15", preinstalled, 4" vertical adjustment.
- Toolless post-installation adjustments.
- Junction box capacity: 8 (4 in, 4 out) 12AWG rated for 90°C.

ELECTRICAL SYSTEM
- Rugged aluminum lampholder housing.
- Vertically mounted, positive-latch, thermoplastic socket.
- Class P, thermally protected, high-power-factor electronic ballast mounted to the junction box.

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

WARRANTY
- 1-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

ORDERING INFORMATION

EXAMPLE: AFV 26TRT 4AR MVOLT WLP

Series	Wattage/Lamp	Aperture/Trim color	Finish	Lens type	Voltage
AFV	**13DTT** **13TRT** **18TRT** **26TRT** **32TRT**	**4AR** Clear **4PR** Pewter **4WTR** Wheat **4MB**[1] Black baffle **4WB**[1] White baffle **4WR** White reflector	(blank) Semi-specular **LD** Matte-diffuse	(blank) No lens **CGL** Clear glass lens **PCL** Clear polycarbonate lens **CAL** Clear acrylic lens **A12** Prismatic acrylic lens **PPC** Prismatic polycarbonate lens	**MVOLT**[2] **120** **277** **347**

Ballast[3]	Options	
(blank) Electronic ballast **ECOS**[2, 4] Lutron® EcoSystem® electronic dimming ballast. Minimum dimming level 5% **ADEZ**[4, 5] Advance Mark 10® electronic dimming ballast. Minimum dimming level 5% **ADZT**[2] Advance Mark 7® electronic dimming ballast. Minimum dimming level 5%	**ELR**[5, 6] Emergency battery pack with remote test switch **ELRHL**[5, 6] High-lumen-output emergency battery pack with remote test switch **GMF**[7] Single, slow-blow fuse **GLR**[7] Single, fast-blow fuse **TRW** White painted flange (standard on MB and WB) **TRBL** Black painted flange **GSKT** Foam gasketing **WLP** With 3500 K lamp (shipped separately)	**RRL**[8] RELOC®-ready luminaire. Provides compatibility with Lithonia RELOC system. Access above ceiling required. **CP**[9] Chicago plenum **BDP**[9, 10] Ballast disconnect plug **NPP16D EFP** nLight network power/relay pack with 0-10V dimming. **NPP16D ER EFP** nLight network power/relay pack with 0-10V dimming. ER controls fixtures on emergency circuit. **WL** Wet location; lens required **WRL**[11] Wattage restriction label **TWS** Twist lock socket

ACCESSORIES order as separate catalog numbers (shipped separately)	
SCA4	Sloped ceiling adapter. Degree of slope must be specified (10D, 15D, 20D, 25D, 30D). Ex: SCA4 10D.

GOTHAM ARCHITECTURAL DOWNLIGHTING | 1400 Lester Road Conyers GA 30012 | P 800.315.4982 | gothamlighting.com

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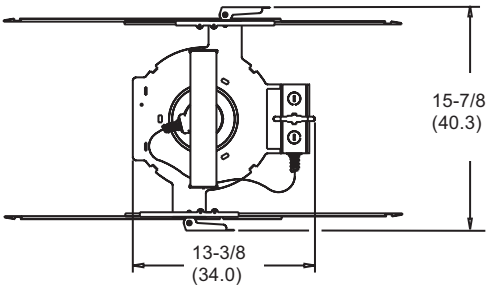
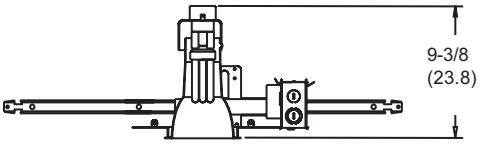
DIMENSIONAL DATA

All dimensions are inches (centimeters) unless otherwise noted.





Aperture: 4-5/16 (11)
Ceiling Opening: 5-1/8 (13)
Overlap Trim: 5-7/16 (13.8)
Lens recess: 1-1/2 (3.8)

ELECTRICAL

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

LER.DOH	Annual* Energy Cost	Lamps	Lamp Lumens	Ballast Factor	Input Watts
21	$11.47	(1) 13W DTT	900	1.0	16
26	$ 9.07	(1) 18W TRT	1200	1.0	20
21	$11.38	(1) 26W TRT	1800	1.0	28

*Comparative yearly lighting energy cost per 1000 lumens

NOTES

ORDERING NOTES

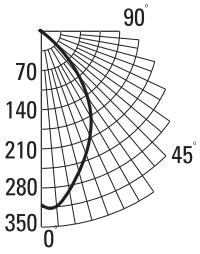
1. Not available with finishes.
2. Multi-volt electronic ballast capable of operating on any voltage from 120V through 277V, 50 or 60 Hz.
3. For additional ballast types, refer to TECH-250.
4. Not available with 13W.
5. Available in 120V or 277V only.
6. For dimensional changes, refer to TECH-140.
7. Not available with MVOLT; must specify voltage
8. For compatible RELOC systems, refer to TECH-110.
9. Not available with ELR or ELRHL option.
10. Meets codes that require in-fixture disconnect.
11. Must specify wattage: Ex.: WRL26

PHOTOMETRY

Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	Illuminance: Single Luminaire 30" Above Floor

AFV 13DTT 4AR

(1) CF13DD/E/835, 900 RATED LUMENS, 0.92 S/MH, TEST NO. LTL9968



From 0°	cp.	Lumens
0°	310	
5°	314	29
15°	260	73
25°	206	94
35°	145	90
45°	62	45
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	

Zone	Lumens	%lamp
0°-30°	196.4	21.8
0°-40°	286.2	31.8
0°-60°	333.8	37.1
0°-90°	334.6	37.2
90°-180°	0.0	0.0
0°-180°	334.6	37.2*

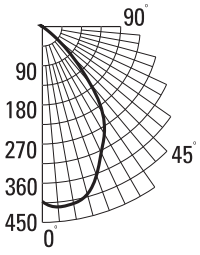
*Efficiency

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

Mount height	Initial fc at beam center	50% beam angle 49.6° Beam diameter	50% beam angle 49.6° fc at beam edge	10% beam angle 86.7° Beam diameter	10% beam angle 86.7° fc at beam edge
8'	10.2	5.1	5.1	10.4	1.0
10'	5.5	6.9	2.8	14.2	0.6
12'	3.4	8.8	1.7	17.9	0.3
14'	2.3	10.6	1.2	21.7	0.2
16'	1.7	12.5	0.9	25.5	0.2

AFV 18TRT 4AR

(1) F18TBX/SPX35/A/4P, 1200 RATED LUMENS, 1.07 S/MH, TEST NO. LTL9877



From 0°	cp.	Lumens
0°	402	
5°	416	40
15°	399	111
25°	320	147
35°	241	150
45°	99	76
55°	3	4
65°	1	1
75°	0	0
85°	0	0
90°	0	

Zone	Lumens	%lamp
0°-30°	298.3	24.9
0°-40°	447.8	37.3
0°-60°	527.7	44.0
0°-90°	529.5	44.1
90°-180°	0.0	0.0
0°-180°	529.5	44.1*

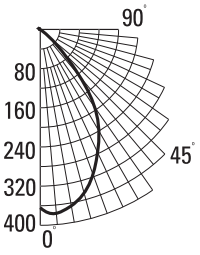
*Efficiency

Tρf	80%		20% 70%		50%	
ρc	50%	30%	50%	30%	50%	30%
ρw						
1	49	47	48	47	44	43
2	45	43	44	42	41	40
3	41	39	41	39	38	37
4	38	36	38	35	36	34
5	35	33	35	32	33	31
6	33	30	32	30	31	29
7	31	28	30	27	29	27
8	28	26	28	25	27	25
9	27	24	26	24	26	23
10	25	22	25	22	24	22

Mount height	Initial fc at beam center	50% beam angle 56.4° Beam diameter	50% beam angle 56.4° fc at beam edge	10% beam angle 88.9° Beam diameter	10% beam angle 88.9° fc at beam edge
8'	13.3	5.9	6.6	10.8	1.3
10'	7.1	8.0	3.6	14.7	0.7
12'	4.5	10.2	2.2	18.6	0.4
14'	3.0	12.3	1.5	22.6	0.3
16'	2.2	14.5	1.1	26.5	0.2

AFV 18TRT 4MB

(1) F18TBX/SPX35/A/4P, 1200 RATED LUMENS, 1.03 S/MH, TEST NO. LTL9878



From 0°	cp.	Lumens
0°	364	
5°	377	36
15°	346	97
25°	277	127
35°	194	119
45°	62	49
55°	1	2
65°	0	0
75°	0	0
85°	0	0
90°	0	

Zone	Lumens	%lamp
0°-30°	259.6	21.6
0°-40°	379.1	31.6
0°-60°	430.1	35.8
0°-90°	430.2	35.9
90°-180°	0.0	0.0
0°-180°	430.2	35.9*

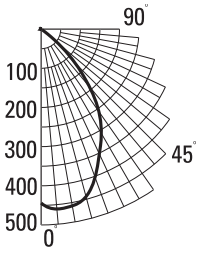
*Efficiency

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

Mount height	Initial fc at beam center	50% beam angle 54.5° Beam diameter	50% beam angle 54.5° fc at beam edge	10% beam angle 86.1° Beam diameter	10% beam angle 86.1° fc at beam edge
8'	12.0	5.7	6.0	10.3	1.2
10'	6.5	7.7	3.2	14.0	0.6
12'	4.0	9.8	2.0	17.7	0.4
14'	2.8	11.8	1.4	21.5	0.3
16'	2.0	13.9	1.0	25.2	0.2

AFV 26TRT 4AR

(1) F26TBX/SPX35/A/4P, 1800 RATED LUMENS, 1.06 S/MH, TEST NO. LTL9958



From 0°	cp.	Lumens
0°	444	
5°	461	44
15°	443	124
25°	352	161
35°	257	160
45°	123	91
55°	5	7
65°	1	1
75°	1	1
85°	0	0
90°	0	

Zone	Lumens	%lamp
0°-30°	329.2	18.3
0°-40°	489.0	27.2
0°-60°	587.7	32.6
0°-90°	589.7	32.8
90°-180°	0.0	0.0
0°-180°	589.7	32.8*

*Efficiency

ρf	80%		20% 70%		50%	
ρc	50%	30%	50%	30%	50%	30%
ρw						
1	36	35	35	35	34	33
2	33	32	33	31	32	30
3	31	29	30	29	29	28
4	28	26	28	26	27	26
5	26	24	26	24	25	24
6	24	22	24	22	23	22
7	23	20	22	20	22	20
8	21	19	21	19	20	19
9	20	18	19	17	19	17
10	18	16	18	16	18	16

Mount height	Initial fc at beam center	50% beam angle 55.8° Beam diameter	50% beam angle 55.8° fc at beam edge	10% beam angle 89.8° Beam diameter	10% beam angle 89.8° fc at beam edge
8'	14.7	5.8	7.3	11.0	1.5
10'	7.9	7.9	3.9	14.9	0.8
12'	4.9	10.1	2.5	18.9	0.5
14'	3.4	12.2	1.7	22.9	0.3
16'	2.4	14.3	1.2	26.9	0.2

PHOTOMETRY NOTES

- Tested to current IES and NEMA standards under stabilized laboratory conditions.
- Actual performance may differ as a result of end-user environment and application.
- Consult factory or IES file for microgroove baffle, black cone or other photometric reports.