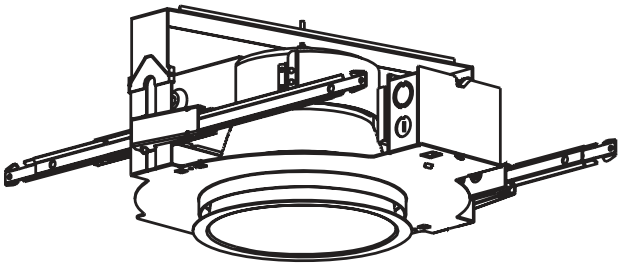
gotham®

Luminaire Type:
Catalog Number (autopopulated):



Gotham Architectural Downlighting
Compact Fluorescent Downlights

10" AF
Open Reflector

Horizontal Lamp
Triple-Tube

nLIGHT

FEATURES

OPTICAL SYSTEM
- Self-flanged, semi-specular or matte-diffuse reflector. Patented Bounding Ray™ Optical Principle design (US Patent No. 5,800,050). Minimum flange matches reflector finish.
- Baffle/cone: Specular clear upper reflector. Microgroove baffle with white painted flange or specular black cone with flange that matches cone finish.
- Hinged lampdoor seals upper trim for optimal fixture efficiency and the reduction of stray light in the plenum.

MECHANICAL SYSTEM
- 16-gauge galvanized steel construction; maximum 2-1/4" 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
- Horizontally mounted, four-pin, positive-latch, thermoplastic socket(s).
- Class P, thermally protected high-power-factor electronic ballast(s) mounted to the junction box (CP and EL ballast mounted on ballast tray).

LISTING
- Fixtures are UL Listed for thru-branch wiring, recessed mounting and damp locations. Listed and labeled to comply with Canadian standards (see Options).

WARRANTY
- 1-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/resources/terms-and-conditions

ORDERING INFORMATION

EXAMPLE: AF 3/42TRT 10AR MVOLT

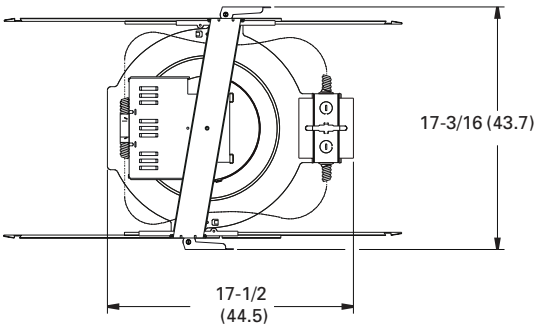
Series	Wattage/Lamp	Aperture/Trim color	Finish	Lens type	Voltage	Ballast
AF	**1/18TRT** **2/32TRT** **1/26TRT** **2/42TRT** **1/32TRT** **2/57TRT** **1/42TRT** **3/18TRT** **1/57TRT** **3/26TRT** **2/18TRT** **3/32TRT** **2/26TRT** **3/42TRT**	**10AR** Clear **10PR** Pewter **10WTR** Wheat **10WR**[1] White painted **10MB**[1] Black baffle **10BC**[1] Black cone **10WB**[1] White baffle	(blank) Semi-specular **LD** Matte-diffuse	(blank) No lens **CGL** Clear glass lens **PCL**[2] Clear polycarbonate lens **PPC**[2] Prismatic polycarbonate lens	**MVOLT**[3] **120** **277** **347**	(blank) Electronic ballast **ECOS**[3, 5] Lutron® EcoSystem® electronic dimming ballast. Minimum dimming level 5% **ADEZ**[4, 6] Advance Mark 10® electronic dimming ballast. Minimum dimming level 5% **ADZT**[3] Advance Mark 7® electronic dimming ballast. Minimum dimming level 5%

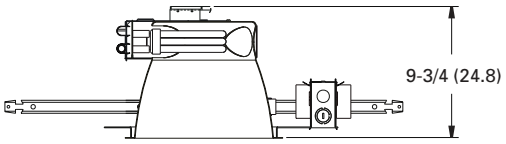
Options			
WLP	With 3500 K lamp (shipped separately)	**DS**	Dual switching. Standard on 3-lamp fixtures
TRW	White painted flange	**RRL**[8]	RELOC®-ready luminaire. Provides compatibility with Lithonia RELOC system. Access above ceiling required.
TRBL	Black painted flange		
EL[7]	Emergency battery pack with integral test switch. Not available with lens	**CP**[9]	Chicago plenum (consult factory)
ELR[7]	Emergency battery pack with remote test switch	**NPP16D EFP**	nLight network power/relay pack with 0-10V dimming.
ELHL[7]	High-lumen-output emergency battery pack with integral test switch	**NPP16D ER EFP**	nLight network power/relay pack with 0-10V dimming. ER controls fixtures on emergency circuit.
ELRHL[7]	High-lumen-output emergency battery pack with remote test switch	**WL**	Wet location; lens required
GMF[6]	Single, slow-blow fuse	**WRL**[10]	Wattage restriction label
GLR[6]	Single, fast-blow fuse	**TWS**	Twist lock socket

ACCESSORIES order as separate catalog numbers (shipped separately)	
SCA10	Sloped ceiling adapter. Degree of slope must be specified (10D, 15D, 20D, 25D, 30D). Ex: SCA10 10D.

DIMENSIONAL DATA

All dimensions are inches (centimeters) unless otherwise noted.





Aperture: 9-3/4 (24.8)
Ceiling Opening: 10-1/2 (26.7)
Overlap Trim: 11-1/8 (28.3)
Lens recess: 3 (7.6)

ELECTRICAL

ENERGY

LER.DOL	Annual Energy Cost	Lamps	Lamp Lumens	Ballast Factor	Input Watts
43	$5.55	2/42TRT	6400	.98	90

Calculated in accordance with NEMA standard LE-5.

NOTES

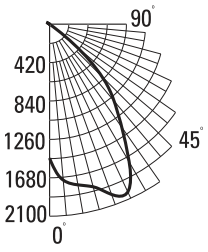
ORDERING NOTES

1. Not available with finishes.
2. Lens position below optical break.
3. Multi-volt electronic ballast capable of operating on any voltage from 120V through 277V, 50 or 60 Hz.
4. Not available with 57W.
5. 2/242TRT Option only available with DS (Dual Switching) option.
6. Available in 120V or 277V only.
7. For dimensional changes, refer to TECH-140.
8. For compatible RELOC systems, refer to TECH-110.
9. Not available with emergency options.
10. Must specify wattage. Ex.: WRL32

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

AF 2/32TRT 10AR

(2) CF32DT/E/IN/835, 2400 LUMENS PER LAMP, 1.5 S/MH, TEST NO. LTL9444



From 0°	cp.	Lumens
0°	1464	
5°	1713	161
15°	1841	525
25°	2025	819
35°	1372	845
45°	813	555
55°	26	62
65°	4	5
75°	1	2
85°	0	0
90°	0	

Zone	Lumens	%lamp
0°-30°	1505.0	31.4
0°-40°	2350.1	49.0
0°-60°	2967.9	61.8
0°-90°	2974.5	62.0
90°-180°	0.0	0.0
0°-180°	2974.5	62.0*

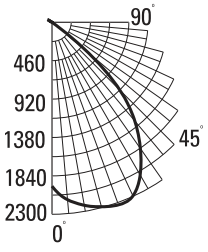
*Efficiency

ρf		20%			
ρc	80%	70%		50%	
ρw	50%	30%	50%	30%	50%	30%
1	68	66	67	65	64	63
2	62	59	61	59	59	57
3	57	54	56	53	55	52
4	53	49	52	48	50	47
5	48	44	48	44	47	43
6	45	40	44	40	43	39
7	41	37	41	37	40	36
8	38	34	38	34	37	33
9	35	31	35	31	34	31
10	33	29	33	29	32	29

Mount height	Initial fc at beam center	50% beam angle 70.8° Beam diameter	50% beam angle 70.8° fc at beam edge	10% beam angle 94.8° Beam diameter	10% beam angle 94.8° fc at beam edge
8'	48.4	7.8	24.2	12.0	4.8
10'	26.0	10.7	13.0	16.3	2.6
12'	16.2	13.5	8.1	20.7	1.6
14'	11.1	16.3	5.5	25.0	1.1
16'	8.0	19.2	4.0	29.4	0.8

AF 2/42TRT 10AR

(2) CF42DT/E/IN/835, 3200 LUMENS PER LAMP, 1.5 S/MH, TEST NO. LTL9443



From 0°	cp.	Lumens
0°	1963	
5°	2134	214
15°	2288	696
25°	2294	1080
35°	1845	1166
45°	1156	734
55°	32	79
65°	3	5
75°	2	2
85°	0	0
90°	0	

Zone	Lumens	%lamp
0°-30°	1990.2	31.1
0°-40°	3156.7	49.3
0°-60°	3969.6	62.0
0°-90°	3976.7	62.1
90°-180°	0.0	0.0
0°-180°	3976.7	62.1*

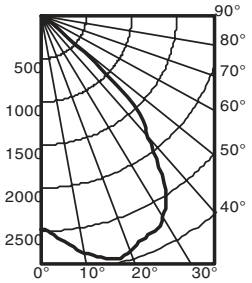
*Efficiency

ρf		20%			
ρc	80%	70%		50%	
ρw	50%	30%	50%	30%	50%	30%
1	68	66	67	65	64	63
2	63	60	61	59	59	57
3	57	54	56	53	55	52
4	53	49	52	48	51	47
5	48	44	48	44	47	43
6	45	40	44	40	43	40
7	41	37	41	37	40	36
8	38	34	38	34	37	33
9	35	31	35	31	35	31
10	33	29	33	29	32	29

Mount height	Initial fc at beam center	50% beam angle 71.5° Beam diameter	50% beam angle 71.5° fc at beam edge	10% beam angle 94.6° Beam diameter	10% beam angle 94.6° fc at beam edge
8'	64.9	7.9	32.4	11.9	6.5
10'	34.9	10.8	17.4	16.2	3.5
12'	21.8	13.7	10.9	20.6	2.2
14'	14.8	16.6	7.4	24.9	1.5
16'	10.8	19.4	5.4	29.2	1.1

AF 2/57TRT 10AR

(2) CF57DT/E/IN/835, 4300 LUMENS PER LAMP, 1.4 S/MH, TEST NO. LTL10443



From 0°	Ave	Lumens
0	2471	
5	2611	256
15	2922	823
25	2811	1298
35	2363	1449
45	1440	957
55	75	104
65	5	5
75	1	1
85	0	0
90	0	

Zone	Lumens	% Lamp
0° - 30°	2376.8	27.6
0° - 40°	3826.3	44.5
0° - 60°	4887.7	56.8
0° - 90°	4893.3	56.9
90° - 180°	0.0	0.0
0° - 180°	4893.3	*56.9

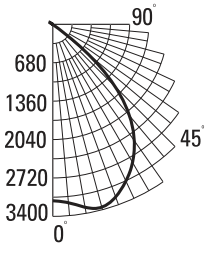
*Efficiency

pf		20%			
pc	80%	70%		50%	
pw	50%	30%	50%	30%	50%	30%
1	.62	.61	.61	.60	.59	.58
2	.57	.55	.56	.54	.54	.52
3	.52	.49	.52	.49	.50	.47
4	.48	.44	.47	.44	.46	.43
5	.44	.40	.44	.40	.42	.39
6	.41	.37	.40	.36	.39	.36
7	.38	.34	.37	.33	.36	.33
8	.35	.31	.34	.31	.34	.30
9	.32	.28	.32	.28	.31	.28
10	.30	.26	.30	.26	.29	.26

Mount height	Inital fc at beam center	50% beam angle 71.2° Beam diameter	50% beam angle 71.2° fc at beam edge	10% beam angle 95.0° Beam diameter	10% beam angle 95.0° fc at beam edge
8	81.7	7.9	40.8	12.0	8.2
10	43.9	10.7	22.0	16.4	4.4
12	27.4	13.6	13.7	20.7	2.7
14	18.7	16.5	9.3	25.1	1.9
16	13.6	19.3	6.8	29.5	1.4

AF 3/42TRT 10AR

(3) CF42DT/E/IN/835, 3200 LUMENS PER LAMP, 1.4 S/MH, TEST NO. LTL9441



From 0°	cp.	Lumens
0°	3124	
5°	3169	301
15°	3352	940
25°	3061	1463
35°	2513	1564
45°	1578	956
55°	45	97
65°	6	6
75°	2	2
85°	0	0
90°	0	

Zone	Lumens	%lamp
0°-30°	2703.6	28.2
0°-40°	4267.8	44.5
0°-60°	5320.7	55.4
0°-90°	5329.8	55.5
90°-180°	0.0	0.0
0°-180°	5329.8	55.5*

*Efficiency

ρf		20%			
ρc	80%	70%		50%	
ρw	50%	30%	50%	30%	50%	30%
1	61	59	60	58	57	56
2	56	53	55	53	53	51
3	51	48	51	48	49	47
4	47	44	47	43	45	42
5	43	40	43	39	42	39
6	40	36	40	36	39	36
7	37	33	37	33	36	33
8	34	31	34	30	33	30
9	32	28	32	28	31	28
10	30	26	29	26	29	26

Mount height	Initial fc at beam center	50% beam angle 67.3° Beam diameter	50% beam angle 67.3° fc at beam edge	10% beam angle 93.3° Beam diameter	10% beam angle 93.3° fc at beam edge
8'	103.3	7.3	51.6	11.7	10.3
10'	55.5	10.0	27.8	15.9	5.6
12'	34.6	12.6	17.3	20.1	3.5
14'	23.6	15.3	11.8	24.4	2.4
16'	17.1	18.0	8.6	28.6	1.7

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.

gotham®