Type Catalog number

.....

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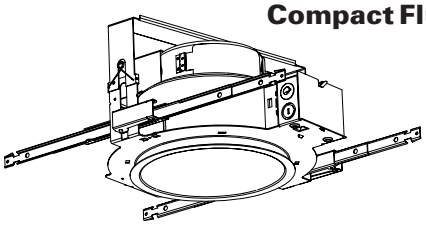
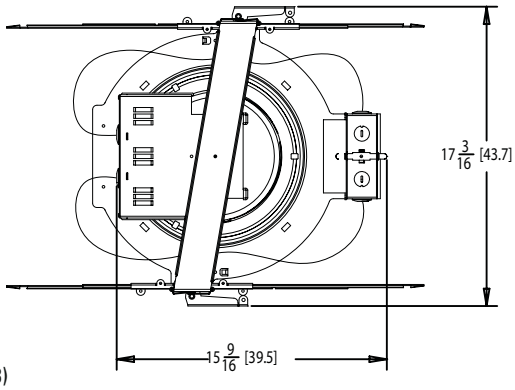
Compact Fluorescent Downlights

10" AF

Lensed Reflector

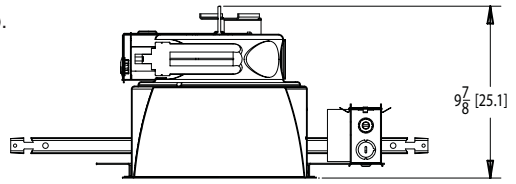
Horizontal Lamp
Triple-Tube





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

All dimensions are inches (centimeters).



FEATURES

OPTICAL SYSTEM

- Reflector - Self-flanged, semi-specular or matte-diffuse reflector. Fluted vertical upper section works in conjunction with patented Bounding Ray™ Optical Principle Design (U.S. Patent No.5,800,050) to provide lamp before lamp image and smooth transition from top of reflector to bottom. Minimum flange matches reflector finish.
- Baffle/cone - Semi-specular clear upper reflector. Microgroove baffle with white painted flange or specular black cone with flange that matches cone finish.
- Lens position at optical break provides optimal visual comfort and improved aperture aesthetics.
- Hinged lampdoor seals upper trim for optimal fixture efficiency and the reduction of stray light in the plenum.

MECHANICAL SYSTEM

- 16-gauge galvanized steel mounting/plaster frame with integral yoke to retain optical system. Maximum 2-1/4" 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 ceiling.
- Galvanized steel J-box with hinged access covers and spring latch. Two combination 1/2"–3/4" and three 1/2" knock-outs for straight-through conduit runs. Capacity: 8 (4 in, 4 out) No. 12 AWG conductors, rated for 90°C.

ELECTRICAL SYSTEM

- Horizontally mounted, positive-latch, thermoplastic socket(s).
- Class P, thermally protected, high-power-factor electronic ballast(s) mounted to the junction box.
- Simply5™ technology available.

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

- One-year limited warranty. Full warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

ORDERING INFORMATION

Example: **AF 3/42TRT 10AR CGL MVOLT**

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

AF

Series	Wattage/ Lamp	Aperture/ Trim color	Finish	Lens type	Voltage	Ballast[4]	Options
AF	**1/18TRT**	**10AR** Clear	(blank) Semi-Specular	**CGL** Clear glass lens	**MVOLT**[3]	(blank) Electronic ballast	**TRW** White painted flange. Standard on WB and MB
	1/26TRT	**10PR** Pewter	**LD** Matte-diffuse	**PCL**[2] Clear poly-carbonate lens	**120**	**ECOS**[3,5] EcoSystem® electronic dimming ballast. Minimum dimming level 5%	**TRBL** Black painted flange
	1/32TRT	**10WTR** Wheat		**T73** Tempered prismatic lens	**277**		**ELR**[8] Emergency battery pack with remote test switch
	1/42TRT	**10MB**[1] Black baffle		**PPC**[2] Prismatic polycarbon-ate lens	**347**	**ADEZ**[6] Advance Mark 10® electronic dimming ballast. Minimum dimming level 5%	**GMF**[5] Single, slow-blow fuse
	1/57TRT	**10WB**[1] White baffle				**ADZT**[6] Advance Mark 7® electronic dimming ballast. Minimum dimming level 5%	**GLR**[5] Single, fast-blow fuse
	2/18TRT	**10WR**[1] White painted				**S5**[7] SIMPLY5™ system ballast . Minimum dimming level 15%	**LRC**[9] Provides compatibility with Lithonia Reloc® System. Lithonia Reloc System can be installed less this option with connectors provided by others. Access above ceiling required
	2/26TRT	**10BC**[1] Black cone					**HW** Hardwire for S5 system; replaces Reloc
	2/32TRT						**WLP** With 3500 K lamp (shipped separately)
	2/42TRT						**CP**[10] Chicago plenum
	2/57TRT						**WL** Wet location
	3/18TRT						**BDP**[11] Ballast disconnect plug
	3/26TRT						**NSD**[12] Sensor Switch nLight™ dimming relay
	3/42TRT						**WRL**[13] Wattage restriction label

NOTES
1 Not available with finishes.
2 Lens positioned below optical break.
3 Multi-volt electronic ballast operates on any line voltage from 120V through 277V, 50 or 60Hz.
4 For additional ballast options, refer to TECH-250.
5 Not available with 57W.
6 Available in 120V or 277V only.
7 SIMPLY5™ includes 9' S5 MLL Reloc wiring system (shipped separately) available in 120V or 277V only. Not available in 18W or 57W. See simply5.net for more information.
8 For dimensional changes, refer to TECH-140.
9 For compatible Reloc systems, refer to TECH-110.
10 Not available with emergency 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 (nPS80).
13 Must specify wattage. Ex.: WRL32

Accessories

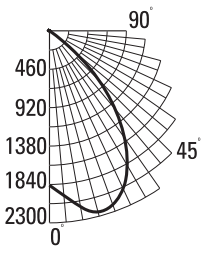
Order as separate catalog number.

SCA10 Sloped ceiling adapter. Degree of slope must be specified (10D, 15D, 20D, 25D, 30D). Ex: SCA10**10D**

10" AF Lensed

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

AF 3/32TRT 10AR CGL, (3) CF32DT/E/IN/835, 2400 lumens per lamp, 1.4 s/mh, Test no. LTL9661



From 0°	cp.	Lumens
0°	1850	
5°	1978	179
15°	2246	563
25°	2086	858
35°	1566	910
45°	839	524
55°	43	64
65°	7	8
75°	3	3
85°	0	0
90°	0	

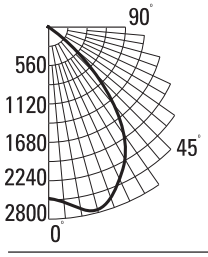
Zone	Lumens	%lamp
0°-30°	1599.9	22.2
0°-40°	2509.8	34.9
0°-60°	3097.5	43.0
0°-90°	3108.3	43.2
90°-180°	0.0	0.0
0°-180°	3108.3	43.2*

*Efficiency

ρf	20%					
ρc	80%		70%		50%	
ρw	50%	30%	50%	30%	50%	30%
1	47	46	46	45	45	44
2	43	42	43	41	41	40
3	40	38	39	37	38	36
4	37	34	36	34	35	33
5	34	31	33	31	33	30
6	31	28	31	28	30	28
7	29	26	29	26	28	25
8	27	24	27	24	26	23
9	25	22	25	22	24	22
10	23	20	23	20	23	20

Mount height	Initial fc at beam center	50% beam angle 66.7° Beam diameter	50% beam angle 66.7° fc at beam edge	10% beam angle 92.7° Beam diameter	10% beam angle 92.7° fc at beam edge
8'	61.2	7.2	30.6	11.5	6.1
10'	32.9	9.9	16.4	15.7	3.3
12'	20.5	12.5	10.2	19.9	2.0
14'	14.0	15.1	7.0	24.1	1.4
16'	10.2	17.8	5.1	28.3	1.0

AF 3/42TRT 10AR CGL, (3) CF42DT/E/IN/835, 3200 lumens per lamp, 1.3 s/mh, Test no. LTL9655



From 0°	cp.	Lumens
0°	2497	
5°	2560	243
15°	2756	754
25°	2444	1140
35°	1916	1177
45°	976	654
55°	52	76
65°	10	9
75°	3	3
85°	0	1
90°	0	

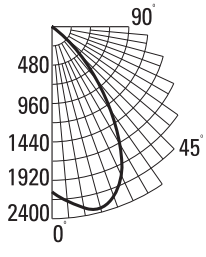
Zone	Lumens	%lamp
0°-30°	2136.3	22.3
0°-40°	3313.6	34.5
0°-60°	4043.7	42.1
0°-90°	4057.0	42.3
90°-180°	0.0	0.0
0°-180°	4057.0	42.3*

*Efficiency

ρf	20%					
ρc	80%		70%		50%	
ρw	50%	30%	50%	30%	50%	30%
1	46	45	45	44	44	43
2	43	41	42	40	41	39
3	39	37	39	36	37	36
4	36	33	36	33	35	33
5	33	30	33	30	32	30
6	31	28	30	28	30	27
7	28	26	28	25	28	25
8	26	24	26	23	26	23
9	25	22	24	22	24	21
10	23	20	23	20	22	20

Mount height	Initial fc at beam center	50% beam angle 65.6° Beam diameter	50% beam angle 65.6° fc at beam edge	10% beam angle 92.0° Beam diameter	10% beam angle 92.0° fc at beam edge
8'	82.5	7.1	41.3	11.4	8.3
10'	44.4	9.7	22.2	15.5	4.4
12'	27.7	12.3	13.8	19.7	2.8
14'	18.9	14.8	9.4	23.8	1.9
16'	13.7	17.4	6.9	27.9	1.4

AF 3/32TRT 10AR T73, (3) CF32DT/E/IN/835, 2400 lumens per lamp, 1.2 s/mh, Test no. LTL9660



From 0°	cp.	Lumens
0°	2064	
5°	2186	198
15°	2346	576
25°	2046	804
35°	1277	735
45°	497	397
55°	47	59
65°	6	6
75°	2	2
85°	0	1
90°	0	

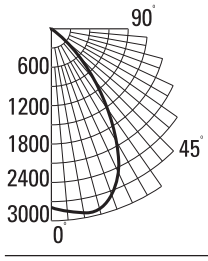
Zone	Lumens	%lamp
0°-30°	1578.3	21.9
0°-40°	2312.8	32.1
0°-60°	2768.0	38.4
0°-90°	2776.7	38.6
90°-180°	0.0	0.0
0°-180°	2776.7	38.6*

*Efficiency

ρf	20%					
ρc	80%		70%		50%	
ρw	50%	30%	50%	30%	50%	30%
1	42	41	42	41	40	39
2	39	37	38	37	37	36
3	36	34	35	34	34	33
4	33	31	33	31	32	30
5	31	28	30	28	30	28
6	29	26	28	26	28	25
7	27	24	26	24	26	24
8	25	22	24	22	24	22
9	23	21	23	20	23	20
10	22	19	21	19	21	19

Mount height	Initial fc at beam center	50% beam angle 58.4° Beam diameter	50% beam angle 58.4° fc at beam edge	10% beam angle 88.6° Beam diameter	10% beam angle 88.6° fc at beam edge
8'	68.2	6.1	34.1	10.7	6.8
10'	36.7	8.4	18.3	14.6	3.7
12'	22.9	10.6	11.4	18.5	2.3
14'	15.6	12.9	7.8	22.4	1.6
16'	11.3	15.1	5.7	26.3	1.1

AF 3/42TRT 10AR T73, (3) CF42DT/E/IN/835, 3200 lumens per lamp, 1.2 s/mh, Test no. LTL9656



From 0°	cp.	Lumens
0°	2791	
5°	2858	268
15°	2912	772
25°	2473	1067
35°	1530	952
45°	615	500
55°	61	73
65°	8	7
75°	3	3
85°	0	0
90°	0	

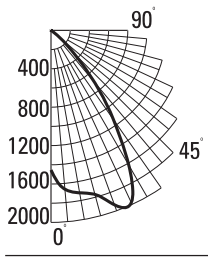
Zone	Lumens	%lamp
0°-30°	2107.5	22.0
0°-40°	3059.1	31.9
0°-60°	3632.2	37.8
0°-90°	3642.7	37.9
90°-180°	0.0	0.0
0°-180°	3642.7	37.9*

*Efficiency

ρf	20%					
ρc	80%		70%		50%	
ρw	50%	30%	50%	30%	50%	30%
1	42	41	41	40	39	39
2	39	37	38	36	37	35
3	36	33	35	33	34	32
4	33	31	32	30	32	30
5	30	28	30	28	29	27
6	28	26	28	26	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 57.6° Beam diameter	50% beam angle 57.6° fc at beam edge	10% beam angle 87.8° Beam diameter	10% beam angle 87.8° fc at beam edge
8'	92.3	6.1	46.1	10.6	9.2
10'	49.6	8.3	24.8	14.4	5.0
12'	30.9	10.5	15.5	18.3	3.1
14'	21.1	12.7	10.6	22.1	2.1
16'	15.3	14.9	7.7	26.0	1.5

AF 2/32TRT 10AR CGL, (2) CF32DT/E/IN/835, 2400 lumens per lamp, 1.3 s/mh, Test no. LTL9564



From 0°	cp.	Lumens
0°	1454	
5°	1662	151
15°	1768	467
25°	1980	691
35°	1134	644
45°	337	301
55°	28	49
65°	5	6
75°	2	2
85°	0	1
90°	0	

Zone	Lumens	%lamp
0°-30°	1309.0	27.3
0°-40°	1953.0	40.7
0°-60°	2302.5	48.0
0°-90°	2311.2	48.1
90°-180°	0.0	0.0
0°-180°	2311.2	48.1*

*Efficiency

ρf	20%					
ρc	80%		70%		50%	
ρw	50%	30%	50%	30%	50%	30%
1	53	52	52	51	50	49
2	49	47	48	46	46	45
3	45	42	44	42	43	41
4	42	39	41	38	40	38
5	38	35	38	35	37	34
6	36	32	35	32	34	32
7	33	30	33	30	32	29
8	31	28	30	27	30	27
9	29	26	28	25	28	25
10	27	24	27	24	26	23

Mount height	Initial fc at beam center	50% beam angle 63.9° Beam diameter	50% beam angle 63.9° fc at beam edge	10% beam angle 88.0° Beam diameter	10% beam angle 88.0° fc at beam edge
8'	48.1	6.9	24.0	10.6	4.8
10'	25.8	9.4	12.9	14.5	2.6
12'	16.1	11.8	8.1	18.4	1.6
14'	11.0	14.3	5.5	22.2	1.1
16'	8.0	16.8	4.0	26.1	0.8

NOTES:

1. For electrical characteristics, consult 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.
3. Consult factory or IES file for microgroove baffle, black cone and other photometric reports.
4. Actual performance may differ as a result of end-user environment and application.

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

LER.DLL	Annual* Energy Cost	Lamps	Lamp Lumens	Ballast Factor	Input Watts
32	$7.47	(2) 32W TRT	4800	0.96	69
30	$8.10	(3) 32W TRT	7200	1.00	105
29	$8.22	(3) 42W TRT	9600	1.00	139

*Comparative yearly lighting energy cost per 1000 lumens

DCF-280

gotham
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