

# 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.
- Hinged lampdoor provided for optimal fixture efficiency and the reduction of stray light in the plenum.
- Wallwash – Highly reflective outer kicker reflector provides smooth, uniform illumination floor to ceiling, edge to edge. Inner cone is contoured to eliminate room side flash. For optimal uniformity, the recommended luminaire spacing is 0.9m (3') from the wall and 0.9m (3') centers.

## MECHANICAL SYSTEM

- Pre-wired galvanized steel junction box mounted to reflector is provided with removable access cover. Knockouts provided for power supply feed and conduit runs. No. 12 AWG conductors, rated for 90°C.
- Three (3) swinggate brackets allow for installation from below the ceiling. Suitable for ceiling thickness ranging from 1.59cm (5/8") to 2.54cm (1").

## ELECTRICAL SYSTEM

- Horizontally-mounted, positive-latch, thermoplastic socket.
- Thermally protected, high power factor electronic ballast (50/60Hz) mounted to the junction box.
- Eurostyle terminal block included for power supply and ground connections required for CE.

## LISTING

- MVOLT, 120V and 277V fixtures are UL Listed, Non-IC recessed mounting and damp locations. 220V and 240V fixtures are CE certified and rated IP20.

Type Catalog number

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**International  
 Compact Fluorescent Downlights/Wallwash**

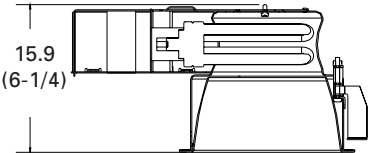
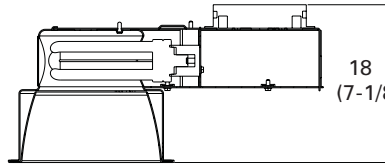
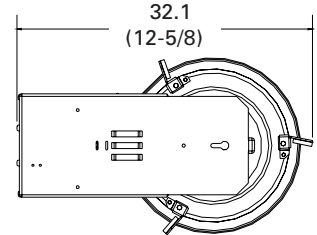
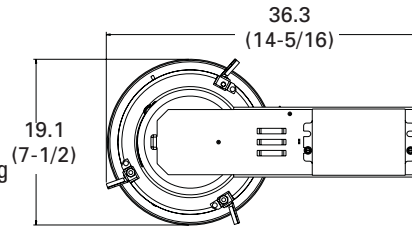
# AFI/AFWI

15.2cm (6")  
 Open/Wallwash

Horizontal DTT or TRT Lamp

UL Listed

CE Certified



All dimensions are centimeters (inches)

Aperture: 15.9 (6-1/4)  
 Ceiling Opening: 17.5 (6-7/8)  
 Overlap Trim: 19.1 (7-1/2)

# ORDERING INFORMATION

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).

Example: **AFI 1/26TRT 6AR 220**

Series	Wattage/Lamp	Aperture/Trim color	Finish	Voltage	Ballast	Options
<b>AFI</b>	<b>1/13DTT</b>	<b>6AR</b> Clear	(blank) Semi-specular	<b>MVOLT<sup>3,5</sup></b>	<b>(blank)</b> Electronic ballast	<b>TRW</b> White painted flange
<b>AFWI</b>	<b>1/18DTT</b>	<b>6PR</b> Pewter	<b>LD</b> Matte-diffuse	<b>120<sup>5</sup></b>	<b>ADEZ<sup>6</sup></b> Advance Mark 10™ electronic dimming ballast. Minimum dimming level 5%	<b>TRBL</b> Black painted flange
	<b>1/26DTT</b>	<b>6WTR</b> Wheat		<b>220<sup>4</sup></b>	<b>ADZT<sup>6</sup></b> Advance Mark 7™ electronic 0-10V DC dimming ballast. Minimum dimming level 3%	<b>WLP</b> With 3500°K lamp (shipped separately)
	<b>1/13TRT</b>	<b>6CB<sup>2</sup></b> Cross baffle		<b>240<sup>4</sup></b>	<b>ECOS</b> Lutron EcoSystem™ electronic dimming ballast. Minimum dimming level 5%	<b>GMF</b> Single, slow-blow fuse.
	<b>1/18TRT</b>	<b>6BC<sup>1,2</sup></b> Black cone		<b>277<sup>5</sup></b>	<b>VDB<sup>7</sup></b> Vossloh 0-10V dimming ballast	<b>GLR</b> Single, fast-blow fuse.
	<b>1/26TRT</b>	<b>6WR<sup>1,2</sup></b> White painted				<b>GSKT</b> Foam gasketing, ships uninstalled
	<b>1/32TRT</b>					
	<b>1/42TRT</b>					

## NOTES

- 1 Not available with finishes.
- 2 AFI only.
- 3 Multi-volt electronic ballast capable of operating on any line voltage from 120 through 277V, 50 or 60Hz.
- 4 Available with CE listing only. 220-240V, 50/ 60 Hz.
- 5 Available with UL listing only. 120-277V, 50/60Hz.
- 6 Available with 120V or 277V only.
- 7 Available with 220V or 240V only.



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**AFI/AFWI 6 DCF-110-I**

# 15.2cm (6") AFI/AFWI Open Reflector

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

**AFI 1/18TRT 6AR**, (1) CF18DT/E/IN/835, 1200 lumens per lamp, 1.3 s/mh, test no. LTL9404

Mount height	Initial fc at beam center	50% beam angle 60.9°		10% beam angle 94.1°	
		Beam diameter	fc at beam edge	Beam diameter	fc at beam edge
8'	14.0	6.5	7.0	11.8	1.4
10'	7.5	8.8	3.8	16.1	0.8
12'	4.7	11.2	2.3	20.4	0.5
14'	3.2	13.5	1.6	24.7	0.3
16'	2.3	15.9	1.2	29.0	0.2

From 0°	cp.	Lumens	Zone	Lumens	%lamp	pf	80%		20%		50%	
						pc	50%	30%	50%	30%	50%	30%
						pw						
0°	423	41	0°-30°	351.8	29.3	1	63	62	62	61	60	59
5°	522	123	0°-40°	526.7	43.9	2	58	56	57	55	55	53
15°	579	187	0°-60°	693.5	57.8	3	53	50	53	49	51	48
25°	543	175	0°-90°	695.4	58.0	4	49	45	48	45	47	44
35°	328	150	90°-180°	0.0	0.0	5	45	41	44	41	43	40
45°	263	17	0°-180°	695.4	58.0*	6	42	38	41	37	40	37
55°	12	1	*Efficiency			7	38	34	38	34	37	34
65°	1	1				8	36	32	35	31	35	31
75°	1	1				9	33	29	33	29	32	29
85°	0	0				10	31	27	31	27	30	27
90°	0	0										

**AFI 1/26TRT 6AR**, (1) CF26DT/E/IN/835, 1800 lumens per lamp, 1.2 s/mh, test no. LTL9391

Mount height	Initial fc at beam center	50% beam angle 59.9°		10% beam angle 93.8°	
		Beam diameter	fc at beam edge	Beam diameter	fc at beam edge
8'	23.6	6.3	11.8	11.8	2.4
10'	12.7	8.6	6.3	16.0	1.3
12'	7.9	11.0	4.0	20.3	0.8
14'	5.4	13.3	2.7	24.6	0.5
16'	3.9	15.6	2.0	28.8	0.4

From 0°	cp.	Lumens	Zone	Lumens	%lamp	pf	80%		20%		50%	
						pc	50%	30%	50%	30%	50%	30%
						pw						
0°	713	72	0°-30°	584.2	32.5	1	69	67	67	66	65	64
5°	792	206	0°-40°	866.2	48.1	2	63	60	62	59	60	58
15°	850	307	0°-60°	1125.1	62.5	3	58	54	57	54	55	52
25°	765	282	0°-90°	1127.4	62.6	4	53	49	52	49	51	48
35°	493	232	90°-180°	0.0	0.0	5	49	45	48	44	47	44
45°	383	27	0°-180°	1127.4	62.6*	6	45	41	45	41	44	40
55°	15	2	*Efficiency			7	42	37	41	37	40	37
65°	1	1				8	39	34	38	34	38	34
75°	0	0				9	36	32	36	32	35	31
85°	0	0				10	34	30	33	29	33	29
90°	0	0										

**AFI 1/32TRT 6AR**, (1) CF32DT/E/IN/835, 2400 lumens per lamp, 1.3 s/mh, test no. LTL9390

Mount height	Initial fc at beam center	50% beam angle 62.0°		10% beam angle 94.1°	
		Beam diameter	fc at beam edge	Beam diameter	fc at beam edge
8'	25.9	6.6	13.0	11.8	2.6
10'	13.9	9.0	7.0	16.1	1.4
12'	8.7	11.4	4.3	20.4	0.9
14'	5.9	13.8	3.0	24.7	0.6
16'	4.3	16.2	2.2	29.0	0.4

From 0°	cp.	Lumens	Zone	Lumens	%lamp	pf	80%		20%		50%	
						pc	50%	30%	50%	30%	50%	30%
						pw						
0°	784	79	0°-30°	663.0	27.6	1	60	58	58	57	56	55
5°	868	230	0°-40°	995.2	41.5	2	55	52	54	51	52	50
15°	914	354	0°-60°	1299.6	54.2	3	50	47	49	46	48	45
25°	890	332	0°-90°	1304.8	54.4	4	46	43	45	42	44	41
35°	587	273	90°-180°	0.0	0.0	5	42	39	42	38	41	38
45°	473	31	0°-180°	1304.8	54.4*	6	39	35	39	35	38	35
55°	22	3	*Efficiency			7	36	32	36	32	35	32
65°	2	2				8	33	30	33	29	32	29
75°	1	1				9	31	27	31	27	30	27
85°	1	1				10	29	25	29	25	28	25
90°	0	0										

**AFI 1/42TRT 6AR**, (1) CF42DT/E/IN/835, 3200 lumens per lamp, 1.3 s/mh, test no. LTL9521

Mount height	Initial fc at beam center	50% beam angle 62.5°		10% beam angle 94.2°	
		Beam diameter	fc at beam edge	Beam diameter	fc at beam edge
8'	35.0	6.7	17.5	11.8	3.5
10'	18.8	9.1	9.4	16.1	1.9
12'	11.7	11.5	5.9	20.4	1.2
14'	8.0	14.0	4.0	24.7	0.8
16'	5.8	16.4	2.9	29.0	0.6

From 0°	cp.	Lumens	Zone	Lumens	%lamp	pf	80%		20%		50%	
						pc	50%	30%	50%	30%	50%	30%
						pw						
0°	1058	107	0°-30°	916.8	28.6	1	62	60	61	59	58	57
5°	1135	323	0°-40°	1390.1	43.4	2	57	54	56	53	54	52
15°	1136	487	0°-60°	1805.1	56.4	3	52	49	51	48	50	47
25°	1043	473	0°-90°	1808.4	56.5	4	48	44	47	44	46	43
35°	774	374	90°-180°	0.0	0.0	5	44	40	43	40	42	39
45°	622	41	0°-180°	1808.4	56.5*	6	41	37	40	36	39	36
55°	26	2	*Efficiency			7	38	34	37	33	36	33
65°	2	1				8	35	31	34	31	34	30
75°	1	1				9	32	28	32	28	31	28
85°	0	0				10	30	26	30	26	29	26
90°	0	0										

**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.
- 3 Consult factory or IES file for microgroove baffle, black cone and other photometric reports.

**DLCF-110-I**

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