

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

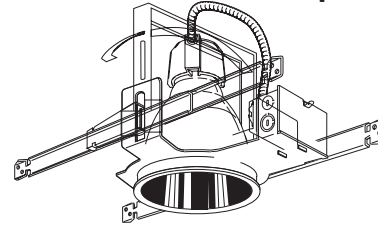
- Rugged aluminum lampholder housing.
- Vertically-mounted, positive-latch, thermoplastic socket.
- Class P, thermally-protected, high power factor ballast mounted to the junction box.
- Simply5™ technology available. **SIMPLY5™** LIGHTING INTELLIGENCE

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

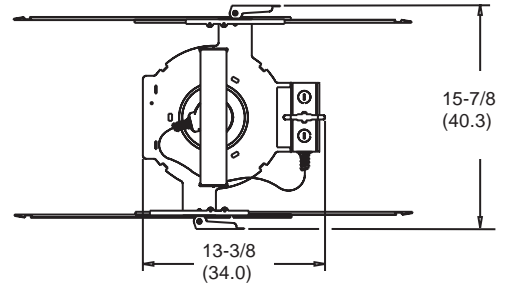
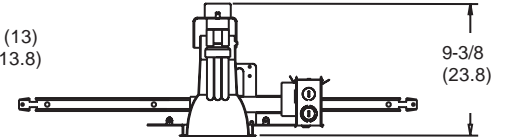


Compact Fluorescent Downlights

4" AFV

Open 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

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).

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

AFV

Series	Wattage/Lamp	Aperture/Trim color	Finish	Voltage	Ballast ³	Options
AFV	13DTT	4AR Clear	(blank) Semi-specular	120	(blank) Electronic ballast	ELR⁷ Emergency battery pack with remote test switch
	13TRT	4PR Pewter	LD Matte-diffuse	277	ECOS⁴ EcoSystem electronic dimming ballast. Minimum dimming level 5%.	ELRHL⁷ High lumen output emergency battery pack with remote test switch
	18TRT	4UBR Umber		347	ADEZ^{4,5} Advance Mark 10 [®] electronic ballast. Minimum dimming level 5%	GMF⁸ Single, slow-blow fuse
	26TRT	4WTR Wheat			S5⁵ SIMPLY5™ system ballast	GLR⁸ Single, fast-blow fuse
	32TRT	4MB¹ Black baffle				TRW White painted flange (standard on MB and WB)
		4WB¹ White baffle				TRBL Black painted flange

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.

Accessories

Order as separate catalog numbers.

SCA4 Sloped ceiling adapter. Degree of slope must be specified (10D, 15D, 20D, 25D, 30D). Ex: **SCA410D**

4" AFV Open Reflector

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

AFV 13DTT 4AR, (1) CF13DD/E/835, 900 rated lumens, 0.92 s/mh, Test no. LTL9968

Distribution curve	Distribution data			Output data			Coefficient of utilization					Illuminance Data at 30" Above Floor for a Single Luminaire							
	From 0°	cp.	Lumens	Zone	Lumens	%lamp	pf	80%		20%		50%		50%		10%			
	0°			0°-30°			pc	50%	30%	50%	70%	50%	30%	Beam diameter	fc at beam edge	Beam diameter	fc at beam edge		
	0°	310		0°-30°	196.4	21.8	1	41	40	40	39	39	38	Mount height	Initial fc at beam center	Beam diameter	fc at beam edge	Beam diameter	fc at beam edge
	5°	314	29	0°-40°	286.2	31.8	2	38	36	37	36	36	35	8'	10.2	5.1	5.1	10.4	1.0
	15°	260	73	0°-60°	333.8	37.1	3	35	33	35	33	34	32	10'	5.5	6.9	2.8	14.2	0.6
	25°	206	94	0°-90°	334.6	37.2	4	32	30	32	30	31	29	12'	3.4	8.8	1.7	17.9	0.3
	35°	145	90	90°-180°	0.0	0.0	5	30	28	30	28	29	27	14'	2.3	10.6	1.2	21.7	0.2
	45°	62	45	0°-180°	334.6	37.2*	6	28	26	28	25	27	25	16'	1.7	12.5	0.9	25.5	0.2
	55°	2	2	*Efficiency			7	26	24	26	24	25	23						
	65°	1	1				8	24	22	24	22	24	22						
	75°	0	0				9	23	20	23	20	22	20						
	85°	0	0				10	21	19	21	19	21	19						
	90°	0	0																

AFV 18TRT 4AR, (1) F18TBX/SPX35/A/4P, 1200 rated lumens, 1.07 s/mh, test no. LTL9877

Distribution curve	Distribution data			Output data			Coefficient of utilization					Illuminance Data at 30" Above Floor for a Single Luminaire							
	From 0°	cp.	Lumens	Zone	Lumens	%lamp	Tpf	80%		20%		50%		50%		10%			
	0°			0°-30°			pc	50%	30%	50%	70%	50%	30%	Beam diameter	fc at beam edge	Beam diameter	fc at beam edge		
	0°	402		0°-30°	298.3	24.9	1	49	47	48	47	44	43	Mount height	Initial fc at beam center	Beam diameter	fc at beam edge	Beam diameter	fc at beam edge
	5°	416	40	0°-40°	447.8	37.3	2	45	43	44	42	41	40	8'	13.3	5.9	6.6	10.8	1.3
	15°	399	111	0°-60°	527.7	44.0	3	41	39	41	39	38	37	10'	7.1	8.0	3.6	14.7	0.7
	25°	320	147	0°-90°	529.5	44.1	4	38	36	38	35	36	34	12'	4.5	10.2	2.2	18.6	0.4
	35°	241	150	90°-180°	0.0	0.0	5	35	33	35	32	33	31	14'	3.0	12.3	1.5	22.6	0.3
	45°	99	76	0°-180°	529.5	44.1*	6	33	30	32	30	31	29	16'	2.2	14.5	1.1	26.5	0.2
	55°	3	4	*Efficiency			7	31	28	30	27	29	27						
	65°	1	1				8	28	26	28	25	27	25						
	75°	0	0				9	27	24	26	24	26	23						
	85°	0	0				10	25	22	25	22	24	22						
	90°	0	0																

AFV 18TRT 4MB, (1) F18TBX/SPX35/A/4P, 1200 rated lumens, 1.03 s/mh, Test no. LTL9878

Distribution curve	Distribution data			Output data			Coefficient of utilization					Illuminance Data at 30" Above Floor for a Single Luminaire							
	From 0°	cp.	Lumens	Zone	Lumens	%lamp	pf	80%		20%		50%		50%		10%			
	0°			0°-30°			pc	50%	30%	50%	70%	50%	30%	Beam diameter	fc at beam edge	Beam diameter	fc at beam edge		
	0°	364		0°-30°	259.6	21.6	1	40	39	39	38	37	37	Mount height	Initial fc at beam center	Beam diameter	fc at beam edge	Beam diameter	fc at beam edge
	5°	377	36	0°-40°	379.1	31.6	2	37	35	36	35	35	34	8'	12.0	5.7	6.0	10.3	1.2
	15°	346	97	0°-60°	430.1	35.8	3	34	32	33	32	32	31	10'	6.5	7.7	3.2	14.0	0.6
	25°	277	127	0°-90°	430.2	35.9	4	31	29	31	29	30	29	12'	4.0	9.8	2.0	17.7	0.4
	35°	194	119	90°-180°	0.0	0.0	5	29	27	29	27	28	26	14'	2.8	11.8	1.4	21.5	0.3
	45°	62	49	0°-180°	430.2	35.9*	6	27	25	27	25	26	24	16'	2.0	13.9	1.0	25.2	0.2
	55°	1	2	*Efficiency			7	25	23	25	23	25	23						
	65°	0	0				8	24	21	24	21	23	21						
	75°	0	0				9	22	20	22	20	22	20						
	85°	0	0				10	21	19	21	19	20	18						
	90°	0	0																

AF 26TRT 4AR, (1) F26TBX/SPX35/A/4P, 1800 rated lumens, 1.06 s/mh, Test no. LTL9958

Distribution curve	Distribution data			Output data			Coefficient of utilization					Illuminance Data at 30" Above Floor for a Single Luminaire							
	From 0°	cp.	Lumens	Zone	Lumens	%lamp	pf	80%		20%		50%		50%		10%			
	0°			0°-30°			pc	50%	30%	50%	70%	50%	30%	Beam diameter	fc at beam edge	Beam diameter	fc at beam edge		
	0°	444		0°-30°	329.2	18.3	1	36	35	35	35	34	33	Mount height	Initial fc at beam center	Beam diameter	fc at beam edge	Beam diameter	fc at beam edge
	5°	461	44	0°-40°	489.0	27.2	2	33	32	33	31	32	30	8'	14.7	5.8	7.3	11.0	1.5
	15°	443	124	0°-60°	587.7	32.6	3	31	29	30	29	29	28	10'	7.9	7.9	3.9	14.9	0.8
	25°	352	161	0°-90°	589.7	32.8	4	28	26	28	26	27	26	12'	4.9	10.1	2.5	18.9	0.5
	35°	257	160	90°-180°	0.0	0.0	5	26	24	26	24	25	24	14'	3.4	12.2	1.7	22.9	0.3
	45°	123	91	0°-180°	589.7	32.8*	6	24	22	24	22	23	22	16'	2.4	14.3	1.2	26.9	0.2
	55°	5	7	*Efficiency			7	23	20	22	20	22	20						
	65°	1	1				8	21	19	21	19	20	19						
	75°	1	1				9	20	18	19	17	19	17						
	85°	0	0				10	18	16	18	16	18	16						
	90°	0	0																

ENERGY (Calculated in accordance with 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:
 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.