

ALTI

DOWNLIGHT SERIES

A series of pinhole downlight with a specular aperture design. Incorporating ELR's signature modular concept design, LED modules are fully interchangeable with various choices to provide optimal illumination for all kinds of spaces.



Future proof with upgradeable module

Multiple accessories options

Fixture Features



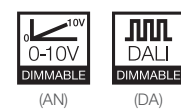
Module Colour Temperature Variation



Beam Angle



Driver Dimming Variation



ALTI 3

RECESSED ROUND FIX / TILT DOWNLIGHT LUMINAIRE



#ROUND
#FIX
#TRIM



#ROUND
#TILT
#TRIM

TECHNOLOGY AND FEATURES




ATePS
Advanced Thermal
Protection System



ComfyEYE
Low Flicker,
No Risk
(IEEE 1789)



BEAM
Converging Optical Lens
Maximising LOR



Ceiling
Safe

AVAILABLE OPTIONS

FITTURE COLOUR OPTIONS	Trim Colour Options	Reflector Colour Options			
		CHROME	CHROME BLACK	CHROME GOLD	
	MATT WHITE RAL9003				
	MATT BLACK RAL9011				
ACCESSORIES	Honeycomb Anti-Glare Louvre Soft Lens Linear Spread Lens Comfort Pro IP54 MR16 Holder GU10 Holder <p><i>*IP54 seal accessory is valid for fix angle fixtures only.</i></p>				
LED MODULE	50PM/CM 50P/C 35P 50N 35N COIN 35P-HI 50N-HI 35N-HI COIN-HI MR16/GU10 10° 20° 35° 60°				
<p><i>*Drivers for 24CV LED modules are sold separately.</i></p> <p><i>**tuneWHITE and flexiK are recommended to be paired with Soft Lens for better colour mixing effect.</i></p> <p><i>*Drivers for RGBW LED modules are sold separately.</i></p>	SINGLE CCT 2700K 3000K 3500K 4000K 5000K ProART ProART98	50PM / 50CM / 50P / 50C / 35P / 50N / 35N / COIN 35P-HI / 50N-HI / 35N-HI / COIN-HI	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
	ComfySHIFT		35P / 50N	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
	WARM DIM		50P / 35P / 50N / 35N / COIN	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
	tuneWHITE		50P / 50N / COIN	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	flexiK			<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
RGBW		50P	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
DRIVER DIMMING	(ND) (PH) (AN) (DA)				

ALTI 3

- #ROUND
- #FIX
- #TILT
- #TRIM

SPECIFICATIONS

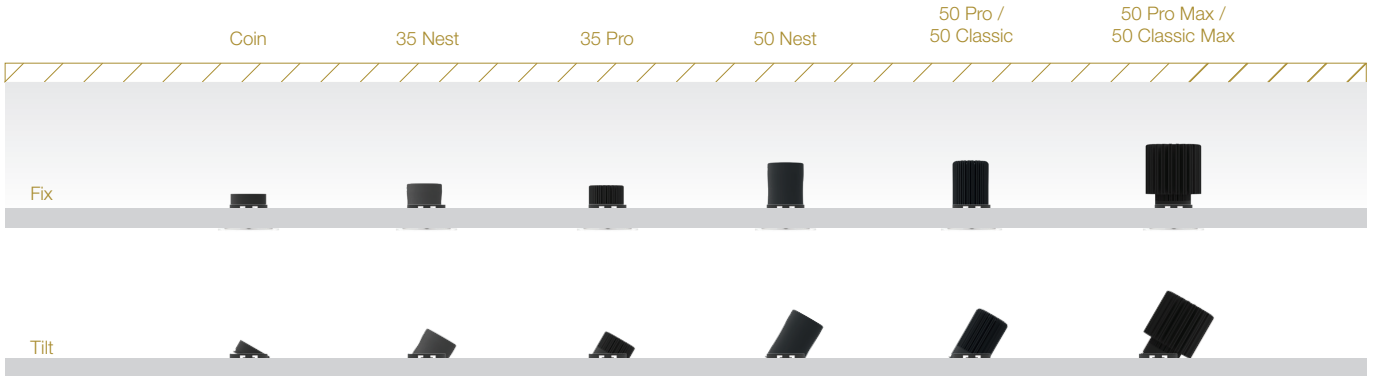
FIXTURE

Family Type	Alti series
Fixture Colours	Matt white, matt black
Reflector Colours	Chrome, chrome black, chrome gold
Fixture Materials	Aluminium
Accessories	Honeycomb anti-glare louvre, soft lens, linear spread lens, Comfort Pro, IP54 seal

Ingress Protection | IP40, IP54

LED MODULE & DRIVER

Compatible LED Modules	50, 35, COIN series LED modules or MR16/GU10
Lifetime	Up to 50,000 hours L80 lamp life with LM80 tested LED chip packages
Beam Angles	10°, 20°, 35°, 60°
Colour Temperatures	2700K, 3000K, 3500K, 4000K, 5000K, ComfySHIFT, Warm Dim, tuneWHITE, flexiK, RGBW
CRI	High Efficiency (CRI-85), ProART (CRI-95), ProART98 (CRI-98)
Driver (Dimming)	Non-dim, phase (leading & trailing edge), 0-10V, DALI

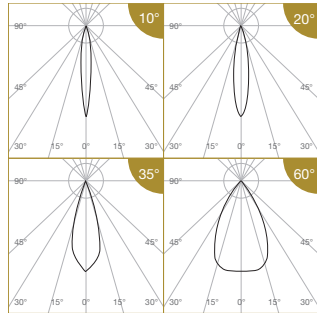


DIMENSIONS (MM)				Height (h)		Height increase with accessories: Anti-Glare Louvre : Height +6 Soft Lens : Height +3 Linear Spread Lens : Height +3 Comfort Pro : Height +20 (refer to module driver dimensions)
ROUND	Trim	Fix	Tilt	Module	Fix	
	Ø90 36		+30°	50PM / 50CM:	117	122
	Ø83 cutout			50P / 50C:	103	106
				50N:	100	103
				35P / 35N:	74	80
				COIN:	50	59
				50N-HI:	110	113
				35P-HI / 35N-HI:	84	90
				COIN-HI:	60	69
				MR16 / GU10	74	80

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PHOTOMETRICS

50 PRO



Height (m)		E _{max} (lx)			
		10°	20°	35°	60°
1	E(0°)	8361	5418	3186	1232
	Cone Ø (m)	0.19	0.35	0.58	1.05
2	E(0°)	2090	1355	797	308
	Cone Ø (m)	0.37	0.69	1.17	2.11
3	E(0°)	929	602	354	137
	Cone Ø (m)	0.56	1.04	1.75	3.16
4	E(0°)	523	339	199	77
	Cone Ø (m)	0.74	1.38	2.34	4.22
5	E(0°)	334	217	127	49
	Cone Ø (m)	0.93	1.73	2.92	5.27

Correction Factor:

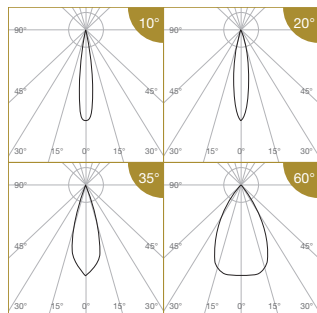
50P (10°) - f = 1.00	50P (20°, 35°, 60°) - f = 1.00
50C (10°) - f = 0.78	50C (20°, 35°, 60°) - f = 0.80
35P (10°) - f = 0.62	35P (20°, 35°, 60°) - f = 0.71
50N (10°) - f = 0.58	50N (20°, 35°, 60°) - f = 0.63
35N (10°) - f = 0.42	35N (20°, 35°, 60°) - f = 0.47
COIN (10°) - f = 0.35	COIN (20°, 35°, 60°) - f = 0.38
50PM (10°) - f = 1.69	50PM (20°, 35°, 60°) - f = 1.73
50CM (10°) - f = 1.37	50CM (20°, 35°, 60°) - f = 1.40
50P-24CV (10°) - f = 0.75	50P-24CV (20°, 35°, 60°) - f = 0.70
50C-24CV (10°) - f = 0.62	50C-24CV (20°, 35°, 60°) - f = 0.57
35P-24CV (10°) - f = 0.48	35P-24CV (20°, 35°, 60°) - f = 0.49
COIN-24CV (10°) - f = 0.28	COIN-24CV (20°, 35°, 60°) - f = 0.27

ELR LED Module				50P	50C	35P	50N	35N	COIN	50PM	50CM
LED Power				12W	10W	8W	7.5W	5.5W	4.5W	21W	17W
System Power				15.2W	12.8W	11W	10W	7.5W	6W	25W	21W
Luminous Flux (lm)	Type	Beam Angle	CRI								
	Single CCT (3000K)	10°	High Efficiency Ra-85	962	755	599	555	407	333	1628	1317
			ProART Ra-95	818	642	510	472	346	283	1384	1120
			ProART98 Ra-98	673	528	420	389	285	233	1140	922
		20°	High Efficiency Ra-85	1305	1044	931	827	609	496	2262	1827
			ProART Ra-95	1109	887	792	703	518	422	1923	1553
			ProART98 Ra-98	914	731	652	579	426	347	1583	1279
	35°	High Efficiency Ra-85	1320	1056	942	836	616	502	2288	1848	
		ProART Ra-95	1122	898	801	711	524	427	1945	1571	
		ProART98 Ra-98	924	739	659	585	431	351	1602	1294	
	60°	High Efficiency Ra-85	1230	984	877	779	574	467	2132	1722	
ProART Ra-95		1046	836	746	663	488	398	1812	1464		
ProART98 Ra-98		861	689	614	545	402	327	1492	1205		
Input Power (24CV)				12W	10W	8W			4.5W		
Luminous Flux (lm)	Type	Beam Angle	CRI								
	24CV Single CCT (3000K)	10°	High Efficiency Ra-85	718	592	466				274	
			ProART Ra-95	611	503	397				233	
			ProART98 Ra-98	502	414	326				192	
		20°	High Efficiency Ra-85	914	748	644				357	
			ProART Ra-95	777	636	547				304	
			ProART98 Ra-98	639	524	451				250	
	35°	High Efficiency Ra-85	924	757	651				361		
		ProART Ra-95	786	643	554				307		
		ProART98 Ra-98	647	530	456				253		
	60°	High Efficiency Ra-85	861	705	607				336		
ProART Ra-95		732	599	516				286			
ProART98 Ra-98		603	494	425				235			

Data are based on 3000K (ProART CRI-95). Nominal data of 2700K and 3500K are shared with 3000K. Higher CCT of 4000K and 5000K will have a nominal data value of 5% higher than published. (f = 1.05) High Efficiency CRI-85 will have a nominal data value of 15% higher than published. (f = 1.17) ProART98 CRI-98 will have a nominal data value of 18% lower than published. (f = 0.82)

Nominal CRI-85, equals to Ra>80-87, R9>0
Nominal CRI-95, equals to Ra>90-97, R9>50
Nominal CRI-98, equals to Ra>97-99, R9>93

35 PRO ComfySHIFT



Height (m)		E _{max} (lx)			
		10°	20°	35°	60°
1	E(0°)	4388	3612	2124	821
	Cone Ø (m)	0.27	0.35	0.58	1.05
2	E(0°)	1097	903	531	205
	Cone Ø (m)	0.54	0.69	1.17	2.11
3	E(0°)	488	401	236	91
	Cone Ø (m)	0.81	1.04	1.75	3.16
4	E(0°)	274	226	133	51
	Cone Ø (m)	1.08	1.38	2.34	4.22
5	E(0°)	176	144	85	33
	Cone Ø (m)	1.35	1.73	2.92	5.27

ELR LED Module				35P	50N
LED Power				8W	7.5W
System Power				11W	10W
Luminous Flux (lm)	Type	Beam Angle	CRI		
	ComfySHIFT (3100K)	10°	ProART Ra-95	621	584
				740	696
		20°		748	704
				697	656

Data are based on maximum output at 3100K.
Nominal CRI-95, equals to Ra>90-97, R9>50

Correction Factor: 35P CS - f = 1.00
50N CS - f = 0.94

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PHOTOMETRICS

50 PRO WARM DIM

Height (m)	E(0°)	Emax (lx)				ELR LED Module																
		10°	20°	35°	60°	50P	35P	50N	35N	COIN												
1	E(0°)	6608	5439	3199	1237	LED Power																
	Cone Ø (m)	0.27	0.35	0.58	1.05	System Power																
2	E(0°)	1652	1360	800	309	Luminous Flux (lm)	Type	Beam Angle	CRI	50P	35P	50N	35N	COIN								
	Cone Ø (m)	0.54	0.69	1.17	2.11										Warm Dim (3100K)	10°	ProART Ra-95	934	621	584	431	350
3	E(0°)	734	604	355	137													1114	740	696	513	418
	Cone Ø (m)	0.81	1.04	1.75	3.16													1126	748	704	519	422
4	E(0°)	413	340	200	77													1050	697	656	484	394
	Cone Ø (m)	1.08	1.38	2.34	4.22	Data are based on maximum output at 3100K.																
5	E(0°)	264	218	128	49	Nominal CRI-95, equals to Ra>90-97, R9>50																
	Cone Ø (m)	1.35	1.73	2.92	5.27																	

Correction Factor: 50P WD - f = 1.00
 35P WD - f = 0.66
 50N WD - f = 0.63
 35N WD - f = 0.46
 COIN WD - f = 0.38

50 PRO tuneWHITE/flexiK

Height (m)	E(0°)	Emax (lx)			ELR LED Module												
		20°	35°	60°	50P	50N	COIN										
1	E(0°)	4249	2499	966	LED Power												
	Cone Ø (m)	0.35	0.58	1.05	System Power												
2	E(0°)	1062	625	242	Luminous Flux (lm)	Type	Beam Angle	CRI	50P	50N	COIN						
	Cone Ø (m)	0.69	1.17	2.11								tuneWHITE / flexiK (4000K / 6500K)	20°	ProART Ra-95	870	522	313
3	E(0°)	472	278	107											880	528	317
	Cone Ø (m)	1.04	1.75	3.16											820	492	295
4	E(0°)	266	156	60											Data are based on maximum output at highest CCT (4000K / 6500K).		
	Cone Ø (m)	1.38	2.34	4.22	2700K will have a nominal data value of 10% lower than published. (f = 0.90)												
5	E(0°)	170	100	39	1800K will have a nominal data value of 30% lower than published. (f = 0.70)												
	Cone Ø (m)	1.73	2.92	5.27	Nominal CRI-95, equals to Ra>90-97, R9>50												

Correction Factor: 50P TW / FK - f = 1.00
 50N TW / FK - f = 0.60
 COIN TW / FK - f = 0.38

50 PRO RGBW

Height (m)	E(0°)	Emax (lx)		ELR LED Module		
		35°	60°	50P		
1	E(0°)	1512	585	LED Power		
	Cone Ø (m)	0.58	1.05	System Power		
2	E(0°)	378	146	Luminous Flux (lm)		
	Cone Ø (m)	1.17	2.11			
3	E(0°)	168	65			
	Cone Ø (m)	1.75	3.16			
4	E(0°)	94	37			
	Cone Ø (m)	2.34	4.22	RGBW	35°	N/A
5	E(0°)	60	23			
	Cone Ø (m)	2.92	5.27	496		

Data are based on maximum output of all 4 RGBW channels.

35 PRO HIGH INTENSITY

Height (m)	E(0°)	Emax (lx)		ELR LED Module															
		10°		35P-HI	50N-HI	35N-HI	COIN-HI												
1	E(0°)	10417		LED Power															
	Cone Ø (m)	0.19		System Power															
2	E(0°)	2604		Luminous Flux (lm)	Type	Beam Angle	CRI	35P-HI	50N-HI	35N-HI	COIN-HI								
	Cone Ø (m)	0.37										Single CCT (3000K)	10°	High Efficiency Ra-85	568	533	391	318	
3	E(0°)	1157													ProART Ra-95	482	453	333	271
	Cone Ø (m)	0.56													ProART98 Ra-98	397	373	274	223
4	E(0°)	651													Data are based on 3000K (ProART CRI-95). Nominal data of 2700K and 3500K are shared with 3000K.				
	Cone Ø (m)	0.74		Higher CCT of 4000K and 5000K will have a nominal data value of 5% higher than published. (f = 1.05)															
5	E(0°)	417		High Efficiency CRI-85 will have a nominal data value of 15% higher than published. (f = 1.17)															
	Cone Ø (m)	0.93		ProART98 CRI-98 will have a nominal data value of 18% lower than published. (f = 0.82)															

Correction Factor: 35P-HI - f = 1.00
 50N-HI - f = 0.94
 35N-HI - f = 0.69
 COIN-HI - f = 0.56

Nominal CRI-85, equals to Ra>80-87, R9>0
 Nominal CRI-95, equals to Ra>90-97, R9>50
 Nominal CRI-98, equals to Ra>97-99, R9>93

ALTI 3

ORDERING MATRIX CHART

Fixture																								
Type	Trim Options		Shape		Angle		Colour		Reflector Colour		Accessories													
ALTI-3	T	Trim	RD	Round	FX	Fix	WH	Matt White	CR	Chrome	N	None												
	X	Flush Mount											TL	Tilt	MB	Matt Black	CB	Chrome Black	AGL	Anti-Glare Louvre				
																					CG	Chrome Gold	SL	Soft Lens
		CP	Comfort Pro	IP	IP54**	CMB	COIN Module Bracket****	MR16	MR16 Holder	GU10	GU10 Holder													

**IP54 seal accessory is valid for fix angle fixtures only.

****COIN Module Bracket accessory is necessary when paired with COIN LED module variants.

Single CCT LED Module							Driver	
LED Power	Beam Angle		Colour Temp	CRI		Dimming		
ELR50PM	21W	10° 10°	27 2700K	HE	Ra~85	ND	Non-Dim	
ELR50CM	17W	20° 20°	30 3000K	PA	ProART	PH	Phase	
ELR50P	12W	35° 35°	35 3500K	PP	ProART98	AN	0-10V	
ELR50C	10W	60° 60°	40 4000K			DA	DALI	
ELR35P	8W		50 5000K					
ELR50N	7.5W							
ELR35N	5.5W							
ELRCOIN	4.5W							
ELR35P-HI	8W	NS 10°	27 2700K	HE	Ra~85	ND	Non-Dim	
ELR50N-HI	7.5W		30 3000K	PA	ProART	PH	Phase	
ELR35N-HI	5.5W		35 3500K	PP	ProART98	AN	0-10V	
ELRCOIN-HI	4.5W		40 4000K			DA	DALI	
			50 5000K					
ELR50P-24CV	12W	10° 10°	27 2700K	HE	Ra~85			
ELR50C-24CV	10W	20° 20°	30 3000K	PA	ProART			
ELR35P-24CV	8W	35° 35°	35 3500K	PP	ProART98			
ELRCOIN-24CV	4.5W	60° 60°	40 4000K					
			50 5000K					

*Drivers for 24CV LED modules are sold separately.

Warm Dim LED Module							Driver	
LED Power	Beam Angle		Colour Temp	CRI		Dimming		
ELR50P	12W	10° 10°	WD Warm Dim	PA	ProART	PH	Phase	
ELR35P	8W	20° 20°				AN	0-10V	
ELR50N	7.5W	35° 35°				DA	DALI	
ELR35N	5.5W	60° 60°						
ELRCOIN	4.5W							

tuneWHITE LED Module							Driver	
LED Power	Beam Angle		Colour Temp	CRI		Dimming		
ELR50P	12W	20° 20°	TW1831 tuneWHITE 1800K-3100K	PA	ProART	DA	DALI	
ELR50N	7.5W	35° 35°	TW1840 tuneWHITE 1800K-4000K					
ELRCOIN	4.5W	60° 60°	TW2765 tuneWHITE 2700K-6500K					

flexiK LED Module							Driver	
LED Power	Beam Angle		Colour Temp	CRI		Dimming		
ELR50P	12W	20° 20°	FK## flexiK	PA	ProART	PH	Phase	
ELR50N	7.5W	35° 35°				AN	0-10V	
ELRCOIN	4.5W	60° 60°				DA	DALI	

denotes the first two digits of preferred CCT ranging from 1800K to 6500K by increment of 100K.

ComfySHIFT LED Module							Driver	
LED Power	Beam Angle		Colour Temp	CRI		Dimming		
ELR35P	8W	10° 10°	CS ComfySHIFT	PA	ProART	ND	Non-Dim	
ELR50N	7.5W	20° 20°						
		35° 35°						
		60° 60°						

RGBW LED Module						
LED Power	Beam Angle		Colour Temp			
ELR50P	12W	35° 35°	RGBW	Red, Green, Blue, White		
		60° 60°				

*Drivers for RGBW LED modules are sold separately.

example: ALTI-3.T.RD.TL.WH.CB.SL.ELR35N.20.27.PA.DA

*Custom RAL colour options available.