



Constant Voltage

Multiple LED module driven by a single





Single LED module driven by a single LED driver



OUTDOOR INGROUND SERIES

In-ground luminaires for upward illumination of walls and structural features that operate on constant voltage platform, allowing multiple luminaires to be powered by a single LED driver remotely. Incorporating ELR's signature modular concept design, LED engines are fully interchangeable with various choices for optimal illumination and ease of maintenance.



Future proof with upgradeable module



Accessory options

Fixture Features









Module Colour Temperature Variation











Driver Dimming Variation





Beam Angle





EBULA 2 INGROUNI

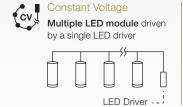


68 IK10

DC CONSTANT VOLTAGE / CONSTANT CURRENT **UPLIGHTER LUMINAIRE**



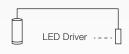
EXTERNAL DRIVER





Constant Current

Single LED module driven by a single LED driver



TECHNOLOGY AND FEATURES



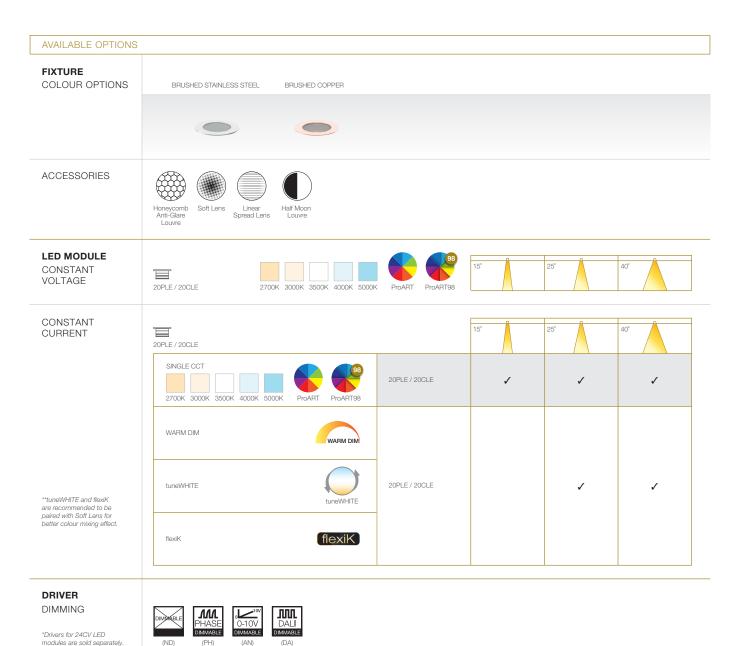


Low Flicker, No Risk (IEEE 1789)



Converging Optical Lens Maximising LOR











Class 3

Constant Voltage

NEBULA 2 INGROUND

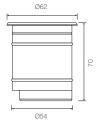


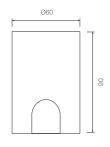
SPECIFICATIONS

FIXTURE

Family Type	Nebula series
Fixture Colours	Brushed stainless steel, brushed copper
Fixture Materials	Stainless steel / bronze and aluminium
Accessories	Honeycomb anti-glare louvre, soft lens, linear spread lens, half moon
Ingress Protection	IP68 (Not applicable for permanent submersion)
Safety Class	Class 3
DC Input Cable	Supplied with 1m cable
LED MODULE & DRIVER	
Compatible LED Modules	20 series 24CV LED engines
Lifetime	Up to 50,000 hours L80 lamp life with LM80 tested LED chip packages
Beam Angles	15°, 25°, 40°
Colour Temperatures	2700K, 3000K, 3500K, 4000K, 5000K
CRI	High Efficiency (CRI~85), ProART (CRI~95), ProART98 (CRI~98)
Driver (Dimming)	24V DC constant voltage non-dim, phase-dim, 0-10V, DALI

DIMENSIONS (MM)





(Embedded Sleeve)



NEBULA 2 INGROUND **68 IK10**



PHOTOMETRICS

20 PLE 24CV										I	Ī
15° 90° 25°	Height			Emax (lx)		ELR LED Module				20PLE	20CLE
	(m)		15°	25°	40°			Power (24CV)			6.2W
45° 45° 45°	1	E(0°)	3548	1762	944		Туре	Beam Angle	CRI		
486 486 486	·	Cone Ø (m)	0.23 0.45 0.74		High Efficiency Ra~85	554	458				
30° 15° 0° 15° 30° 30° 15° 0° 15° 30°	2	E(0°)	887	441	236				-		
		Cone Ø (m)	0.47 0.91 1.49			15°	ProART Ra~95	472	389		
90° 40°	3	E(0°)	394	196	105	Luminous Flux	24CV Single CCT		ProART98 Ra~98	388	320
	3	Cone Ø (m)	0.70	1.36	2.23			25°	High Efficiency Ra~85	548	452
450 850	4	E(0°)	222	110	59				ProART Ra~95	466	385
450 / / 450		Cone Ø (m)	0.94	1.82	2.98				ProART98 Ra~98	384	317
[//] \	5	E(0°)	142	70	38				High F#5-1 Do 05	542	447
/30° /15° 0° 15° 30°		Cone Ø (m)	1.17	2.27	3.72				High Efficiency Ra~85	542	447
	Correction Factor: 20PLE-24CV ~ f = 1.00							40°	ProART Ra~95	461	380
			4CV - f = 0.8						ProART98 Ra~98	379	313

Data are based on 3000K (PnART Cell-95). Nominal data of 2700K and 3500K are shared with 3000K Higher of 4000K and 5000K will have a nominal data value of 5% higher than published, f = 1.05 High Efficiency CRI-95 will have a nominal data value of 15% higher than published, f = 1.17). PnARTAR CPL. All will have a nominal data value of 15% higher than published, f = 1.17).

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

ORDERING MATRIX CHART

	Fixture												
Type	Ingress	Protection		Colour	Accessories								
NEBULA-2IG													
	IP68	IP68	BSS Brushed Stainless Steel		N	None							
			ВСР	Brushed Copper	AGL	Anti-Glare Louvre							
					SL	Soft Lens							
					LSL	Linear Spread Lens							
					нм	Half Moon Louvre							

example: NEBULA-2IG.IP68.BSS.N.ELR20PLE-24CV.25.30.PA

*Custom RAL colour options available.

Single CCT LED Module											
Input Power	Beam Angle		Cold	our Temp	CRI						
•		-		_							
ELR20PLE-24CV	8W	15	15°	27	2700K	HE	Ra~85				
ELR20CLE-24CV	ELR20CLE-24CV 6.2W		25°	30	3000K	PA	ProART				
		40	40°	35	3500K	PP	ProART98				
				40	4000K						
				50	5000K						
*D-1 1 0.401/1/ED				-4-6-							

*Drivers for 24CV LED modules are sold separately, please refer to recommended driver list.









Class 3

Constant Current

NEBULA 2 INGROUND



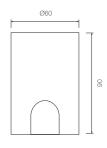
SPECIFICATIONS

FIXTURE

Family Type	Nebula series
Fixture Colours	Brushed stainless steel, brushed copper
Fixture Materials	Stainless steel / bronze and aluminium
Accessories	Honeycomb anti-glare louvre, soft lens, linear spread lens, half moon
Ingress Protection	IP68 (Not applicable for permanent submersion)
Safety Class	Class 3
DC Input Cable	Supplied with 1m cable
LED MODULE & DRIVER	
Compatible LED Modules	20 series LED engines
Lifetime	Up to 50,000 hours L80 lamp life with LM80 tested LED chip packages
Beam Angles	15°, 25°, 40°
Colour Temperatures	2700K, 3000K, 3500K, 4000K, 5000K, Warm Dim, tuneWHITE, flexiK
CRI	High Efficiency (CRI~85), ProART (CRI~95), ProART98 (CRI~98)
Driver (Dimming)	Non-dim, phase (leading & trailing edge), 0-10V, DALI

DIMENSIONS (MM)





(Embedded Sleeve)



NEBULA 2 INGROUND **68 1K10**

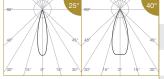
PHOTOMETRICS

20 PLE T Emax (lx) 15° 25° 40° LED Power E(0°) 4560 2265 1214 0.23 0.74 Cone Ø (m) 0.45 1140 566 303 2 High Efficiency Ra~85 713 581 0.91 1.49 Cone Ø (m) 0.47 15° ProART Ra~95 E(0°) 507 252 135 606 494 2.23 0.70 1.36 Cone Ø (m) ProART98 Ra~98 499 407 E(0°) 285 142 76 High Efficiency Ra~85 705 574 Cone Ø (m) 1.82 2.98 0.94 ProART Ra~95 25° 599 488 E(0°) 182 91 49 ProART98 Ra~98 493 402 Cone Ø (m) 2.27 3.72 1.17 High Efficiency Ra~85 697 568 40° ProART Ra~95 593 482

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>5 Nominal CRI-98, equals to Ra>97-99, R9>9

20 PLE WARM DIM



Height		Ema	x (lx)
(m)		25°	40°
1	E(0°)	2632	1410
'	Cone Ø (m)	0.45	0.74
2	E(0°)	658	353
2	Cone Ø (m)	0.91	1.49
3	E(0°)	292	157
3	Cone Ø (m)	1.36	2.23
4	E(0°)	165	88
4	Cone Ø (m)	1.82	2.98
5	E(0°)	105	56
5	Cone Ø (m)	2.27	3.72

	Syste	m Power										
Luminous Flux (lm)	Туре	Type Beam Angle CRI										
	Warm Dim	25°	ProART Ra~95	696								
		40°	Proant Ha~95	688								
Data are based on maxin	num output at 3100K.											
Nominal CRI~95, equals	to Ra>90-97, R9>50											

ProART98 Ra~98

488

T

539 533

397

Correction Factor: 20PLE WD ~ f = 1.00 20CLE WD ~ f = 0.78



NEBULA 2 INGROUND **68 IK10**

PHOTOMETRICS

20 PLE tuneWHITE/flexiK 囯 ELR LED Module 25° 40° 2139 E(0°) 1146 Cone Ø (m) 0.45 0.74 E(0°) 535 286 2 566 439 Cone Ø (m) 1.49 0.91 ProART Ra~95 127 40° 559 434 E(0°) 238 3 Cone Ø (m) 1.36 2.23 Data are based on maximum output at highest CCT (4000K / 6500K). 2700K will have a nominal data value of 10% lower than published. (f=0.90) 1800K will have a nominal data value of 30% lower than published. (f=0.70) 134 72 E(0°) 4 Cone Ø (m) 2.98 Nominal CRI~95, equals to Ra>90~97, R9>50 46 E(0°) 86 5 Cone Ø (m) 3.72

Correction Factor: $20PLE WD \sim f = 1.00$ $20CLE WD \sim f = 0.78$



NEBULA 2 INGROUND **68 IK10**



ORDERING MATRIX CHART

	Fixture												
Туре	Ingres	s Protection		Colour	Accessories								
NEBULA-2IG													
	IP68	IP68	BSS	Brushed Stainless Steel	N	None							
			ВСР	Brushed Copper	AGL	Anti-Glare Louvre							
						Soft Lens							
				LSL		Linear Spread Lens							
					HML	Half Moon Louvre							

	Single CCT LED Module									
Input Pov	ver	Beam Angle		С	CRI		Dimming			
·										
ELR20PLE	8W	15	15°	27	2700K	HE	Ra~85	ND	Non-Dim	
ELR20CLE	6.2W	25	25°	30	3000K	PA	ProART	PH	Phase	
		40	40°	35	3500K	PP	ProART98	AN	0-10V	
				40	4000K			DA	DALI	
				50	5000K					

	Warm Dim LED Module									
LED Power		Beam Angle Colour Temp		CRI		Dimming				
ELR20PLE	8W	25	25°	WD	Warm Dim	PA	ProART	PH	Phase	
ELR20CLE	6.2W	40	40°					AN	0-10V	
								DA	DALI	

	tuneWHITE LED Module										
LED Power	ower Beam Angle		n Angle	Colour Temp			CRI		Dimming		
ELR20PLE	8W	25	25°	TW1831	tuneWHITE 1800K-3100K	PA	ProART	DA	DALI		
ELR20CLE	6.2W	40	40°	TW1840	tuneWHITE 1800K-4000K						
				TW2765	tuneWHITE 2700K-6500K						

		Driver							
LED Power Beam Angle		С	olour Temp	CRI		Dimming			
ELR20PLE	8W	25	25°	FK##	flexiK	PA	ProART	PH	Phase
ELR20CLE	6.2W	40	40°					AN	0-10V
								DA	DALI

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

example: NEBULA-2IG.IP68.BSS.N.ELR20PLE.25.30.PA.DA

*Custom RAL colour options available.