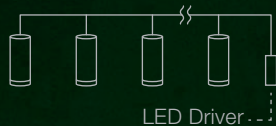


External Driver



Constant Voltage

Multiple LED module
driven by a single
LED driver

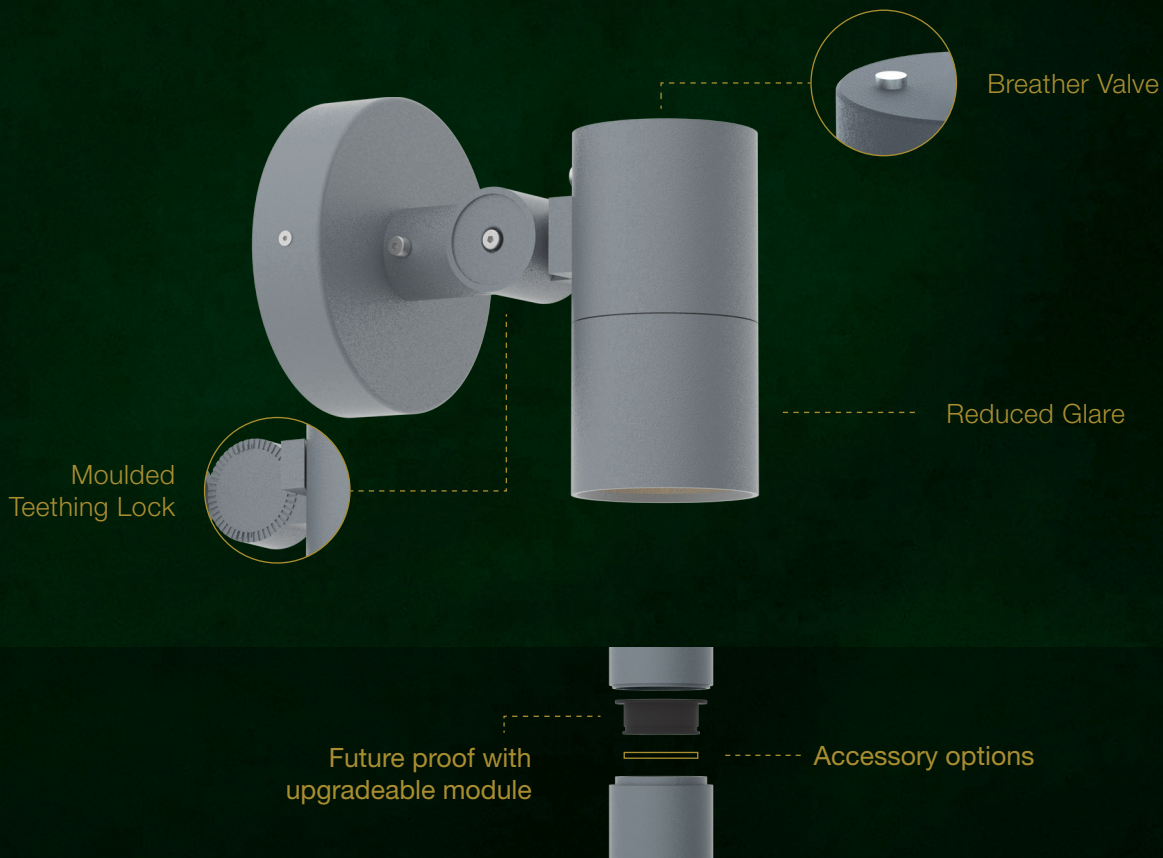
Constant Current

Single LED module
driven by a single
LED driver

NEBULA

OUTDOOR CANOPY SERIES

Adjustable luminaires for directional illumination purposes 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.



Fixture Features



IP66 IK08



Class 3



ProART



ProART98



WARM DIM



tuneWHITE



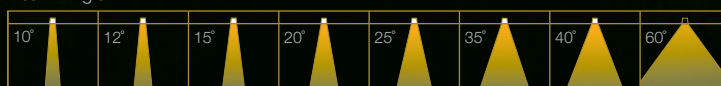
flexiK



RGBW

Module Colour Temperature Variation

Beam Angle



Driver Dimming Variation



(ND)



(PH)



(AN)

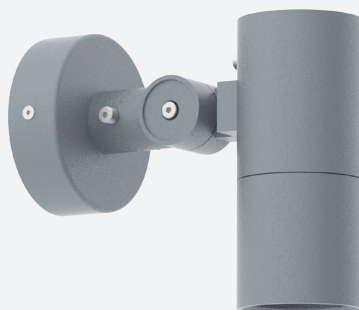


(DA)

NEBULA 2 CANOPY

IP 66 IK08

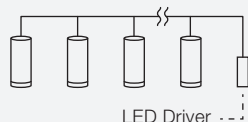
DC CONSTANT VOLTAGE / CONSTANT CURRENT
OUTDOOR CANOPY MOUNTED LUMINAIRE



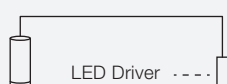
EXTERNAL DRIVER



Constant Voltage
Multiple LED module driven
by a single LED driver



Constant Current
Single LED module driven
by a single LED driver



TECHNOLOGY AND FEATURES



Advanced Thermal
Protection System























































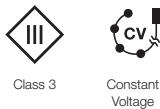
Low Flicker,
No Risk
(IEEE 1789)



Converging Optical Lens
Maximising LOR

AVAILABLE OPTIONS

FIXTURE COLOUR OPTIONS	<div> MATT GREY RAL7001 MATT BLACK RAL9011 </div> 
SNOOT OPTIONS	<div> FULL SNOOT 45 DEGREE SNOOT </div> 
ACCESSORIES	<div>    </div> <div> Honeycomb Anti-Glare Louvre Soft Lens Linear Spread Lens </div>
LED MODULE CONSTANT VOLTAGE	<div>  20PLE / 20CLE </div> <div>      </div> <div> 2700K 3000K 3500K 4000K 5000K </div> <div>   </div> <div> ProART ProART98 </div> <div>    </div> <div> 15° 25° 40° </div>
CONSTANT CURRENT	<div>  20PLE / 20CLE </div> <div> <div> SINGLE CCT      </div> <div> 2700K 3000K 3500K 4000K 5000K </div> <div>   </div> <div> ProART ProART98 </div> </div> <div> 20PLE / 20CLE </div> <div>    </div> <div> 15° 25° 40° </div> <div> <div> WARM DIM  </div> <div> tuneWHITE  </div> <div> flexiK  </div> </div> <div> 20PLE / 20CLE </div> <div> <div>    </div> <div>    </div> <div>    </div> </div> <div> <div>    </div> <div>    </div> <div>    </div> </div>
DRIVER DIMMING	<div>     </div> <div> (DIMMABLE) (PH) (AN) (DA) </div> <div> *Drivers for 24CV LED modules are sold separately. </div>



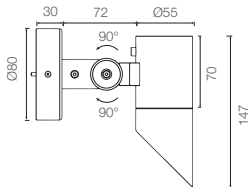
NEBULA 2
CANOPY

IP 66 IK08

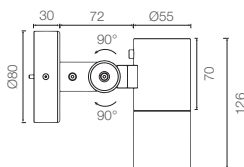
SPECIFICATIONS

FIXTURE	
Family Type	Nebula series
Fixture Colours	Matt grey, matt black
Fixture Materials	Aluminium
Accessories	Honeycomb anti-glare louvre, soft lens, linear spread lens
Ingress Protection	IP66
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)



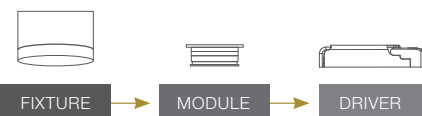
(45 DEGREE
SNOOT)



(FULL SNOOT)

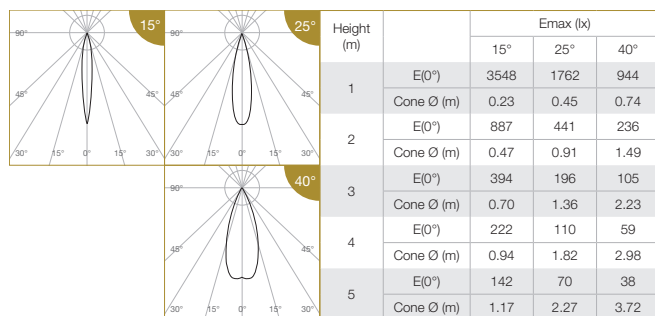
NEBULA 2 CANOPY 66 IK08

MODULAR CONCEPT



PHOTOMETRICS

20 PLE 24CV



Correction Factor: 20PLE-24CV - f = 1.00
20CLE-24CV - f = 0.83

ELR LED Module				20PLE	20CLE
Input Power (24CV)				8W	6.2W
Luminous Flux (lm)	Type	Beam Angle	CRI		
		15°	High Efficiency Ra~85	554	458
			ProART Ra~95	472	389
			ProART98 Ra~98	388	320
		25°	High Efficiency Ra~85	548	452
			ProART Ra~95	466	385
			ProART98 Ra~98	384	317
		40°	High Efficiency Ra~85	542	447
			ProART Ra~95	461	380
			ProART98 Ra~98	379	313

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

ORDERING MATRIX CHART

Fixture					
Type	Ingress Protection		Colour	Snoot	
NEBULA-2CN					
	IP66	IP66	GR Matt Grey	FS Full Snoot	N None
			MB Matt Black	45S 45 Degree Snoot	AGL Anti-Glare Louvre
					SL Soft Lens
					LSL Linear Spread Lens

example: NEBULA-2CN.IP66.GR.45S.N.ELR20PLE-24CV.25.30.PA

*Custom RAL colour options available.

Single CCT LED Module							
Input Power		Beam Angle		Colour Temp		CRI	
ELR20PLE-24CV	8W	15	15°	27	2700K	HE	Ra~85
ELR20CLE-24CV	6.2W	25	25°	30	3000K	PA	ProART
		40	40°	35	3500K	PP	ProART98
				40	4000K		
				50	5000K		

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



Class 3



Constant
Current

NEBULA 2 CANOPY



66 IK08

SPECIFICATIONS

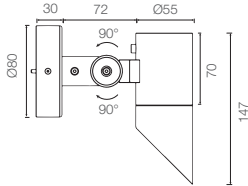
FIXTURE

Family Type	Nebula series
Fixture Colours	Matt grey, matt black
Fixture Materials	Aluminium
Accessories	Honeycomb anti-glare louvre, soft lens, linear spread lens
Ingress Protection	IP66
Safety Class	Class 3
DC Input Cable	Supplied with 1m cable

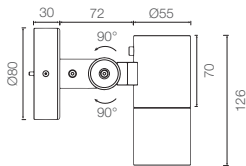
LED MODULE & DRIVER

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)



(45 DEGREE
SNOOT)

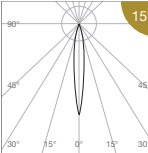
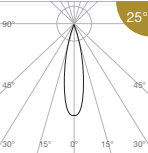
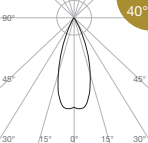


(FULL SNOOT)

NEBULA 2 CANOPY 66 IK08

PHOTOMETRICS

20 PLE

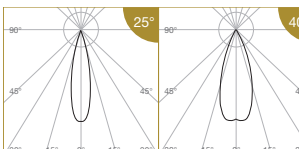
		15°			25°			40°			
		Height (m)	Emax (lx)			ELR LED Module				20PLE	20CLE
			15°	25°	40°	LED Power				8W	6.2W
1		E(0°)	4560	2265	1214	System Power				10.5W	8.3W
		Cone Ø (m)	0.23	0.45	0.74						
2		E(0°)	1140	566	303						
		Cone Ø (m)	0.47	0.91	1.49						
3		E(0°)	507	252	135						
		Cone Ø (m)	0.70	1.36	2.23						
4		E(0°)	285	142	76						
		Cone Ø (m)	0.94	1.82	2.98						
5		E(0°)	182	91	49						
		Cone Ø (m)	1.17	2.27	3.72						
Correction Factor:			20PLE ~ f = 1.00 20CLE ~ f = 0.81								
Luminous Flux (lm)	Type	Beam Angle	CRI								
				15°	High Efficiency Ra-85	713	581				
					ProART Ra-95	606	494				
					ProART98 Ra-98	499	407				
				25°	High Efficiency Ra-85	705	574				
					ProART Ra-95	599	488				
					ProART98 Ra-98	493	402				
				40°	High Efficiency Ra-85	697	568				
					ProART Ra-95	593	482				
					ProART98 Ra-98	488	397				

Correction Factor: 20PLE - $f = 1.00$
20CLE - $f = 0.81$

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>97~98, R9>93

20 PLE WARM DIM

		Height (m)		Emax (lx)		ELR LED Module				20PLE	20CLE
				25°	40°	LED Power				8W	6.2W
1	E(0°)	2632	1410	System Power				10.5W	8.3W		
	Cone Ø (m)	0.45	0.74	Luminous Flux (lm)	Type Warm Dim (3100K)	25°	CRI ProART Ra-95	696	539		
2	E(0°)	658	353							40°	688
	Cone Ø (m)	0.91	1.49								
3	E(0°)	292	157								
	Cone Ø (m)	1.36	2.23								
4	E(0°)	165	88								
	Cone Ø (m)	1.82	2.98								
5	E(0°)	105	56								
	Cone Ø (m)	2.27	3.72								
Data are based on maximum output at 3100K. Nominal CRI~95, equals to Ra>90~97, R9>50											

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

Data are based on maximum output at 3100K.

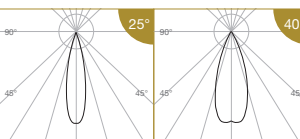
Nominal CRI~95, equals to Ra>90~97, R9>50



NEBULA 2 CANOPY 66 IK08

PHOTOMETRICS

20 PLE tuneWHITE/flexiK

		Height (m)		E _{max} (lx)		ELR LED Module				20PLE	20CLE		
						25°		40°		LED Power		8W	6.2W
1		E(0°)		2139	1146					System Power		10.5W	8.3W
		Cone Ø (m)		0.45	0.74								
2		E(0°)		535	286								
		Cone Ø (m)		0.91	1.49	Luminous Flux (lm)		Type		Beam Angle	CRI		
								tuneWHITE / flexiK (4000K / 6500K)		25°	ProART Ra-95	566	439
3		E(0°)		238	127					40°		559	434
		Cone Ø (m)		1.36	2.23								
4		E(0°)		134	72								
		Cone Ø (m)		1.82	2.98								
5		E(0°)		86	46								
		Cone Ø (m)		2.27	3.72								
						<p>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)</p> <p>Nominal CRI-95, equals to Ra>90-97, R9>50</p>							

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. ($f = 0.70$)

Nominal CRI-95, equals to Ra>90-97, R9>50

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

NEBULA 2 CANOPY 66 IK08

MODULAR CONCEPT



ORDERING MATRIX CHART

Fixture								
Type	Ingress Protection		Colour		Snoot		Accessories	
NEBULA-2CN	IP66	IP66	GR	Matt Grey	FS	Full Snoot	N	None
							AGL	Anti-Glare Louvre
							SL	Soft Lens
							LSL	Linear Spread Lens
			MB	Matt Black	45S	45 Degree Snoot		

Single CCT LED Module								Driver	
Input Power		Beam Angle		Colour Temp		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								Driver	
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								Driver	
LED Power		Beam 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				

flexiK LED Module								Driver	
LED Power		Beam Angle		Colour 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-2CN.IP66.GR.45S.N.ELR20PLE.25.30.PA.DA

*Custom RAL colour options available.