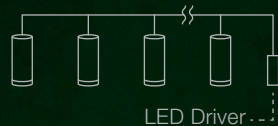


External Driver



Constant Voltage

Multiple LED module
driven by a single
LED driver

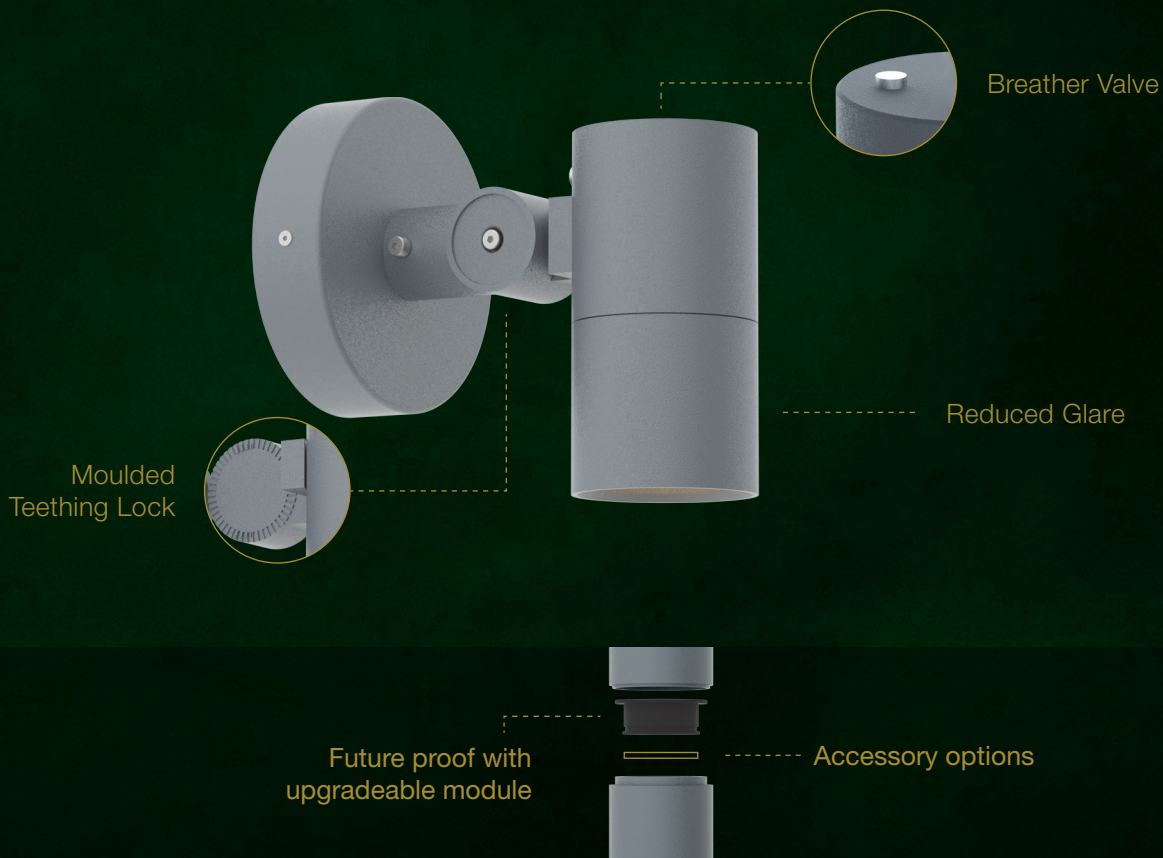
Constant Current

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

Module Colour Temperature Variation



ProART



ProART98



WARM DIM



tuneWHITE

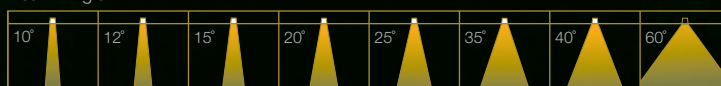


flexiK



RGBW

Beam Angle



Driver Dimming Variation



(ND)



(PH)



(AN)

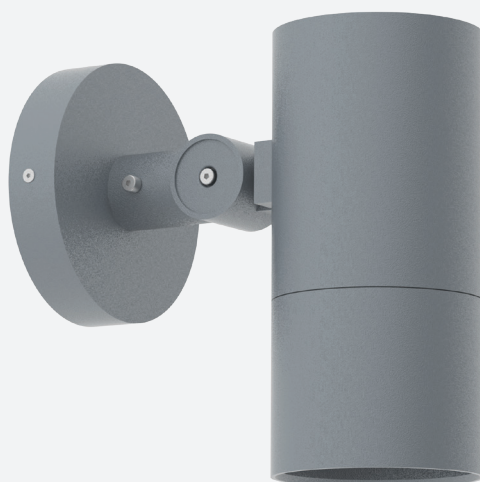


(DA)

NEBULA 4 CANOPY

IP 66 IK08

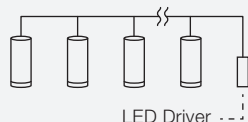
DC CONSTANT VOLTAGE / CONSTANT CURRENT
OUTDOOR CANOPY MOUNTED LUMINAIRE



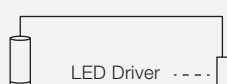
EXTERNAL DRIVER



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	MATT GREY RAL7001 MATT BLACK RAL9011
SNOOT OPTIONS	FULL SNOOT 45 DEGREE SNOOT
ACCESSORIES	Honeycomb Anti-Glare Louvre Soft Lens Linear Spread Lens
LED MODULE CONSTANT VOLTAGE	100PLE / 100CLE / 100CLO 2700K 3000K 3500K 4000K 5000K ProART ProART98 12° 20° 35° 60°
CONSTANT CURRENT	100PLE / 100CLE / 100CLO SINGLE CCT 2700K 3000K 3500K 4000K 5000K ProART ProART98 100PLE / 100CLE / 100CLO 100PLE 100PLE 100PLE 100PLE WARM DIM tuneWHITE flexiK RGBW 12° 20° 35° 60°
DRIVER DIMMING	DIMMABLE (ND) PHASE DIMMABLE (PH) 0-10V DIMMABLE (AN) DALI DIMMABLE (DA)

*Drivers for 48CV LED modules are sold separately.



Class 3



Constant
Voltage

NEBULA 4 CANOPY

IP 66 IK08

SPECIFICATIONS

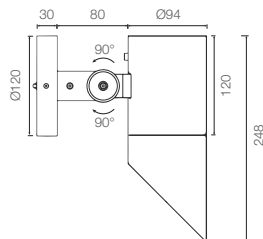
FIXTURE

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

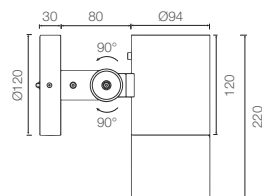
LED MODULE & DRIVER

Compatible LED Modules	100 series 48CV LED engines
Lifetime	Up to 50,000 hours L80 lamp life with LM80 tested LED chip packages
Beam Angles	12°, 20°, 35°, 60°
Colour Temperatures	2700K, 3000K, 3500K, 4000K, 5000K
CRI	High Efficiency (CRI~85), ProART (CRI~95), ProART98 (CRI~98)
Driver (Dimming)	48V DC constant voltage non-dim, 0-10V, DALI

DIMENSIONS (MM)



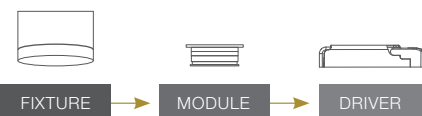
(45 DEGREE
SNOOT)



(FULL SNOOT)

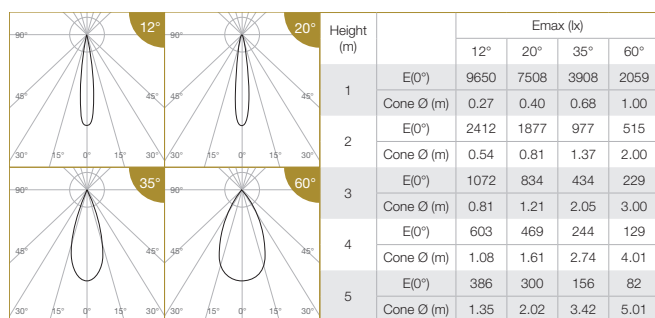
NEBULA 4 CANOPY 66 IK08

MODULAR CONCEPT



PHOTOMETRICS

100 PLE 48CV



Correction Factor:
 100PLE-48CV - f = 1.00
 100CLE-48CV - f = 0.74
 100CLO-48CV - f = 0.52

ELR LED Module				100PLE	100CLE	100CLO
Input Power (48CV)				23W	17W	12W
Luminous Flux (lm)	Type	Beam Angle	CRI			

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		Accessories
NEBULA-4CN					
	IP66	IP66	GR	Matt Grey	FS Full Snoot
			MB	Matt Black	45S 45 Degree Snoot
					N None

example: NEBULA-4CN.IP66.GR.45S.N.ELR100PLE-48CV.35.30.PA

*Custom RAL colour options available.

Single CCT LED Module							
Input Power		Beam Angle		Colour Temp		CRI	

*Drivers for 48CV LED modules are sold separately, please refer to recommended driver list.



Class 3

Constant
Current

NEBULA 4 CANOPY

IP 66 IK08

SPECIFICATIONS

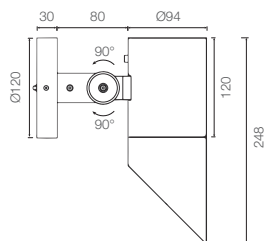
FIXTURE

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

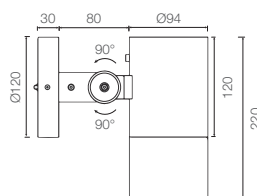
LED MODULE & DRIVER

Compatible LED Modules	100 series LED engines
Lifetime	Up to 50,000 hours L80 lamp life with LM80 tested LED chip packages
Beam Angles	12°, 20°, 35°, 60°
Colour Temperatures	2700K, 3000K, 3500K, 4000K, 5000K, 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)



(45 DEGREE
SNOOT)

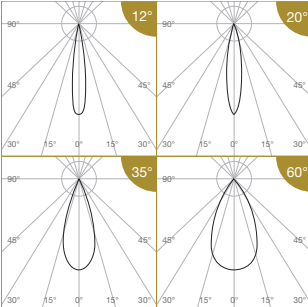


(FULL SNOOT)

NEBULA 4 CANOPY 66 IK08

PHOTOMETRICS

100 PLE



Height (m)		Emax (lx)			
		12°	20°	35°	60°
1	E(0°)	13165	10242	5331	2809
	Cone Ø (m)	0.27	0.40	0.68	1.00
2	E(0°)	3291	2561	1333	702
	Cone Ø (m)	0.54	0.81	1.37	2.00
3	E(0°)	1463	1138	592	312
	Cone Ø (m)	0.81	1.21	2.05	3.00
4	E(0°)	823	640	333	176
	Cone Ø (m)	1.08	1.61	2.74	4.01
5	E(0°)	527	410	213	112
	Cone Ø (m)	1.35	2.02	3.42	5.01

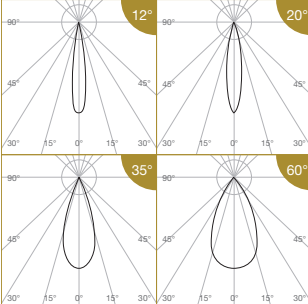
Correction Factor:
 100PLE - f = 1.00
 100CLE - f = 0.69
 100CLO - f = 0.50

ELR LED Module				100PLE	100CLE	100CLO
LED Power				23W	17W	12W
System Power				28W	21W	15.2W
Luminous Flux (lm)	Type	Beam Angle	CRI			
	Single CCT (3000K)	12°	High Efficiency Ra-85	2190	1504	1095
			ProART Ra-95	1862	1278	931
			ProART98 Ra-98	1533	1053	767
		20°	High Efficiency Ra-85	2670	1833	1335
			ProART Ra-95	2270	1558	1135
			ProART98 Ra-98	1869	1283	935
		35°	High Efficiency Ra-85	2700	1854	1350
			ProART Ra-95	2295	1576	1148
			ProART98 Ra-98	1890	1298	945
		60°	High Efficiency Ra-85	2490	1710	1245
			ProART Ra-95	2117	1453	1058
ProART98 Ra-98			1743	1197	872	

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

100 PLE WARM DIM



Height (m)		Emax (lx)			
		12°	20°	35°	60°
1	E(0°)	11358	8836	4600	2424
	Cone Ø (m)	0.27	0.40	0.68	1.00
2	E(0°)	2839	2209	1150	606
	Cone Ø (m)	0.54	0.81	1.37	2.00
3	E(0°)	1262	982	511	269
	Cone Ø (m)	0.81	1.21	2.05	3.00
4	E(0°)	710	552	287	151
	Cone Ø (m)	1.08	1.61	2.74	4.01
5	E(0°)	454	353	184	97
	Cone Ø (m)	1.35	2.02	3.42	5.01

ELR LED Module				100PLE
LED Power				23W
System Power				28W
Luminous Flux (lm)	Type	Beam Angle	CRI	
	Warm Dim (3100K)	12°	ProART Ra-95	1606
		20°		1958
		35°		1980
		60°		1826

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



NEBULA 3 CANOPY 66 IK08

PHOTOMETRICS

100 PLE tuneWHITE/flexiK

		Height (m)	E _{max} (lx)			ELR LED Module			100PLE	
			20°	35°	60°	LED Power			23W	
1	E(0°)	7631	3972	2093	System Power			28W		
2	Cone Ø (m)	0.40	0.68	1.00	Luminous Flux (lm)	Type	Beam Angle	CRI	ProART Ra-95	
	E(0°)	1908	993	523		tuneWHITE / flexiK (4000K / 6500K)	20°			1691
3	Cone Ø (m)	0.81	1.37	2.00			35°			1710
	E(0°)	848	441	233			60°			1577
4	Cone Ø (m)	1.21	2.05	3.00	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)					
	E(0°)	477	248	131	Nominal CRI-95, equals to Ra>90-97, R9>50					
5	Cone Ø (m)	1.61	2.74	4.01						
	E(0°)	305	159	84						
5	Cone Ø (m)	2.02	3.42	5.01						

100 PLE RGBW

Height (m)		E _{max} (lx)	
		35°	60°
1	E(0°)	2122	1118
	Cone Ø (m)	0.68	1.00
2	E(0°)	531	280
	Cone Ø (m)	1.37	2.00
3	E(0°)	236	124
	Cone Ø (m)	2.05	3.00
4	E(0°)	133	70
	Cone Ø (m)	2.74	4.01
5	E(0°)	85	45
	Cone Ø (m)	3.42	5.01

ELR LED Module				100PLE
LED Power				22W
System Power				26W
Luminous Flux (lm)	Type	Beam Angle	CRI	
	RGBW	35°	N/A	914
		60°		842

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

NEBULA 4

CANOPY 66 IK08

ORDERING MATRIX CHART

Fixture								
Type	Ingress Protection		Colour		Snoot		Accessories	
NEBULA-4CN	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	
ELR100PLE	23W	12	12°	27	2700K	HE	Ra~85	ND	Non-Dim
ELR100CLE	17W	20	20°	30	3000K	PA	ProART	PH	Phase
ELR100CLO	12W	35	35°	35	3500K	PP	ProART98	AN	0-10V
		60	60°	40	4000K			DA	DALI
				50	5000K				

Warm Dim LED Module								Driver	
LED Power		Beam Angle		Colour Temp		CRI		Dimming	
ELR100PLE	23W	12	12°	WD	Warm Dim	PA	ProART	PH	Phase
		20	20°					AN	0-10V
		35	35°					DA	DALI
		60	60°						

tuneWHITE LED Module								Driver	
LED Power		Beam Angle		Colour Temp		CRI		Dimming	
ELR100PLE	23W	20	20°	TW1831	tuneWHITE 1800K-3100K	PA	ProART	DA	DALI
		35	35°	TW1840	tuneWHITE 1800K-4000K				
		60	60°	TW2765	tuneWHITE 2700K-6500K				

flexiK LED Module								Driver	
LED Power		Beam Angle		Colour Temp		CRI		Dimming	
ELR100PLE	23W	20	20°	FK##	flexiK	PA	ProART	PH	Phase
		35	35°					AN	0-10V
		60	60°					DA	DALI

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

RGBW LED Module					
LED Power		Beam Angle		Colour Temp	
ELR100PLE	22W	35	35°	RGBW	Red, Green, Blue, White
		60	60°		

*Drivers for RGBW LED modules are sold separately.

example: NEBULA-4CN.IP66.GR.45S.N.ELR100PLE.35.30.PA.DA

*Custom RAL colour options available.