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OUTDOOR SURFACE SERIES

Surface mounted luminaires suitable for installation in areas without false ceiling 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.









Accessory options

Fixture Features





Module Colour Temperature Variation



Beam Angle



Driver Dimming Variation





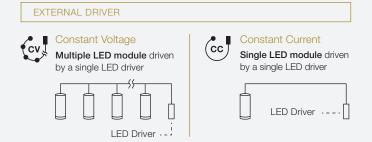


NEBULA 2 SURFACE

66 IK08

DC CONSTANT VOLTAGE / CONSTANT CURRENT OUTDOOR SURFACE MOUNTED LUMINAIRE





TECHNOLOGY AND FEATURES



Protection System



Low Flicker, No Risk (IEEE 1789)



Converging Optical Lens Maximising LOR



FIXTURE COLOUR OPTIONS	MATT GREY RAL7001 MATT BLACK RAL9011				
ACCESSORIES	Honeycomb Anti-Glare Louvre				
LED MODULE CONSTANT VOLTAGE	20PLE / 20CLE 2700K 3000K 3500K 4000K 5000H	C ProART ProART98	15°	25'	40'
CONSTANT CURRENT	20PLE / 20CLE SINGLE CCT		15°	25'	40'
	2700K 3000K 3500K 4000K 5000K ProART ProART98	20PLE / 20CLE	•	J	
"tuneWI-IITE and flexiK are recommended to be paired with Soft Lens for petter colour mixing effect.		20PLE / 20CLE		J	1
DRIVER DIMMING	flexik flexik				

*Drivers for 24CV LED modules are sold separately.

MA PHASE 0-10V DIMMABLE (PH) (AN)

(ND)

(DA)



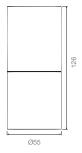




SPECIFICATIONS

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)



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MODULAR CONCEPT

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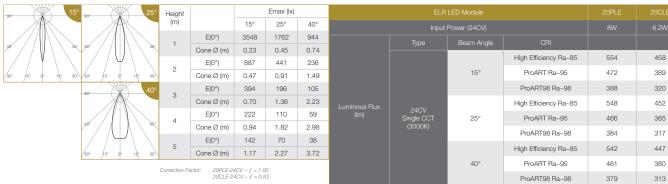
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PHOTOMETRICS

20 PLE 24CV



ata are based on 3000K (ProART CRI-95). Nominal data of 2700K and 3500K are shared with 3000K, ligher CCT of 4000K and 5000K will have a nominal data value of 5% higher than published. (f = 1.05) igh Efficiency (CRI-58 will have a nominal data value of 15% higher than published. (f = 0.12) voART98 CRI-98 will have a nominal data value of 15% lower than published. (f = 0.82)

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

ORDERING MATRIX CHART

			Fixt	ure			Single CCT LED Module							
Туре	Ingress	Protection		Colour		Accessories	Input Power		Beam Angle		Colour Temp		CRI	
NEBULA-2SM	·		·				·		·		·		·	
	IP66 IP66 GR Matt Grey		N	None	ELR20PLE-24CV	8W	15	15°	27	2700K	HE	Ra~85		
	MB Matt Black		AGL	Anti-Glare Louvre	ELR20CLE-24CV	6.2W	25	25°	30	3000K	PA	ProART		
					SL	Soft Lens			40	40°	35	3500K	PP	ProART98
					LSL	Linear Spread Lens					40	4000K		
											50	5000K		
						1	*Drivers for 24CV LFD	, modules a	are solo	' I senarate	lv nles	' ase refer to i	recomm	ended driver

example: NEBULA-2SM.IP66.GR.N.ELR20PLF-24CV.25.30.PA

*Custom RAL colour options available.

list.



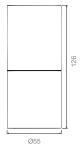
Class 3 Constant Current



SPECIFICATIONS

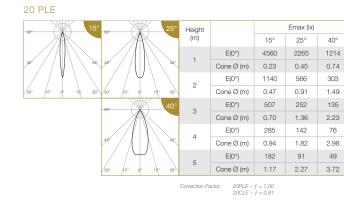
FIXTURE	
Family Type	Nebula series
Fixture Colours	Matt grey, matt black
Fixture Materials	Aluminium
Accessories	Honeycomb anti-glare louvre, soft lens, linear spread lens
Ingress Protection	IP66
Safety Class	Class 3
DC Input Cable	Supplied with 1m cable
LED MODULE & DRIVER	
Compatible LED Modules	20 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)





PHOTOMETRICS

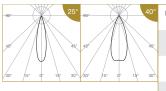


				Ĩ	
					20CLE
		LED Power			6.2W
		System Power			8.3W
	Туре	Beam Angle	CRI		
			High Efficiency Ra~85	713	581
		15°	ProART Ra~95	606	494
			ProART98 Ra~98	499	407
_			High Efficiency Ra~85	705	574
		25°	ProART Ra~95	599	488
			ProART98 Ra~98	493	402
			High Efficiency Ra~85	697	568
		40°	ProART Ra~95	593	482
			ProART98 Ra~98	488	397

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 C2H-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% higher than published. (f = 0.82)

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

20 PLE WARM DIM



	Height		Ema	x (lx)		
	(m)		25°	40°		
	1	E(0°)	2632	1410		
5°	5	Cone Ø (m)	0.45	0.74		
	2	E(0°)	658	353		
, o		Cone Ø (m)	0.91	1.49		
		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		

Correction Factor: 20PLE WD ~ f = 1.00

20CLE WD ~ f = 0.78

	ELR LI	ED Module		20PLE	20CLE
	LEC			6.2W	
	Syste		8.3W		
Luminous Flux (Im)	Туре	Beam Angle	CRI		
	Warm Dim	25°	ProART Ra~95	696	539
		40°	riuwni Ha~95	688	533

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

The information above is at nominal values accuracy of +/-7%. For the latest specifications please refer to the website.



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NEBULA 2 SURFACE 66 IKO8

PHOTOMETRICS

20 PLE tuneWHITE/flexiK



40°	Height		Ema	x (lx)					
	(m)		25°	40°		LED Power			
	1	E(0°)	2139	1146		Sveta	m Pow		
35°	1	Cone Ø (m)	0.45	0.74					
30° 2		E(0°)	535	286		Туре	Bea		
	2	Cone Ø (m)	0.91	1.49	Luminous Flux (Im)	tuneWHITE / flexiK			
	3	E(0°)	238	127		(4000K / 6500K)			
	3	Cone Ø (m)	1.36	2.23	Data are based on maxim	num output at highest CC	т (4000К		
	4	E(0°)	134	72	2700K will have a nominal data value of 10% lower 1800K will have a nominal data value of 30% lower				
	4	Cone Ø (m)	1.82	2.98	Nominal CRI-95, equals to Ra>90-97, R9>50				
	5	E(0°)	86	46					
	3	Cone Ø (m)	2.27	3.72					

Correction Factor: 20PLE WD ~ f = 1.0020CLE WD ~ f = 0.78

T 25° 566 439 ProART Ra~95 40° 559 434

K / 6500K). ublished. (f = 0.90) ublished. (f = 0.70)

NEBULA 2 SURFACE 66 IK08

MODULAR CONCEPT

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ORDERING MATRIX CHART

Fixture											
Туре	Ingre	ss Protection		Colour	Accessories						
NEBULA-2SM	.		·		·						
	IP66 IP66		GR	Matt Grey	N	None					
			МВ	Matt Black	AGL	Anti-Glare Louvre					
					SL	Soft Lens					
					LSL	Linear Spread Lens					

	Single CCT LED Module												
Input Power		Bea	Beam Angle		Colour Temp		CRI			Dimming			
·			·				·		·				
ELR20PLE	8W	15	15°	27	2700K	1	HE	Ra~85	ND	Non-Dim			
ELR20CLE	6.2W	25	25°	30	30 3000K		PA	ProART	PH	Phase			
		40	40°	35	3500K	1	PP	ProART98	AN	0-10V			
				40	4000K				DA	DALI			
				50	5000K								

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

	tuneWHITE LED Module											
LED Power	Beam	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							

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-2SM.IP66.GR.N.ELR20PLE.25.30.PA.DA

*Custom RAL colour options available.