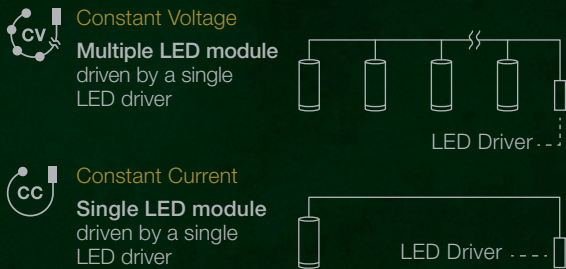


NEBULA

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.

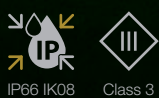
External Driver



----- Reduced Glare



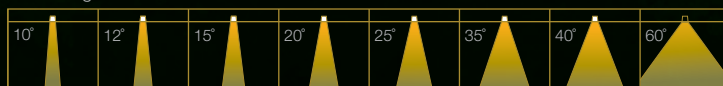
Fixture Features



Module Colour Temperature Variation



Beam Angle



Driver Dimming Variation



NEBULA 3 SURFACE

IP 66 IK08

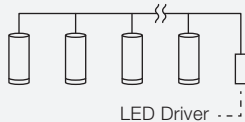
DC CONSTANT VOLTAGE / CONSTANT CURRENT
OUTDOOR SURFACE MOUNTED LUMINAIRE



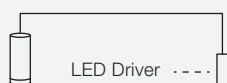
EXTERNAL DRIVER



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)



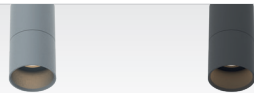
Converging Optical Lens Maximising LOR

AVAILABLE OPTIONS

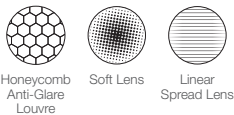
FIXTURE COLOUR OPTIONS

MATT GREY RAL7001

MATT BLACK RAL9011



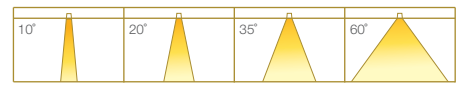
ACCESSORIES



LED MODULE CONSTANT VOLTAGE



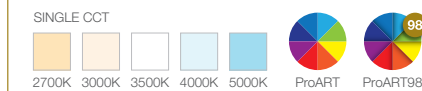
50PLE / 50CLE / 50CLO



CONSTANT CURRENT



50PLE / 50CLE / 50CLO



| | 10° | 20° | 35° | 60° |
|--|-----|-----|-----|-----|
| SINGLE CCT 2700K 3000K 3500K 4000K 5000K ProART ProART98 50PLE / 50CLE / 50CLO | ✓ | ✓ | ✓ | ✓ |
| WARM DIM 50PLE | ✓ | ✓ | ✓ | ✓ |
| tuneWHITE 50PLE | | ✓ | ✓ | ✓ |
| flexiK 50PLE | | | | |
| RGBW 50PLE | | | ✓ | ✓ |

**tuneWHITE and flexiK are recommended to be paired with Soft Lens for better colour mixing effect.

*Drivers for RGBW LED modules are sold separately.

DRIVER DIMMING



*Drivers for 24CV LED modules are sold separately.



Class 3



Constant Voltage

NEBULA 3 SURFACE

IP 66 IK08

SPECIFICATIONS

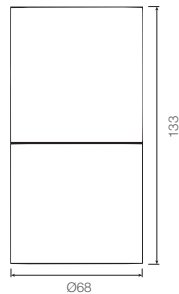
FIXTURE

| | |
|--------------------|--|
| 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 |

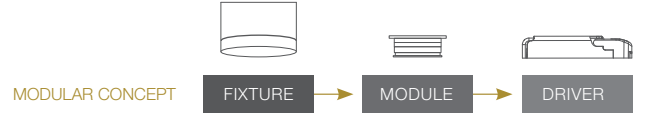
LED MODULE & DRIVER

| | |
|------------------------|---|
| Compatible LED Modules | 50 series 24CV LED engines |
| 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 |
| 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)

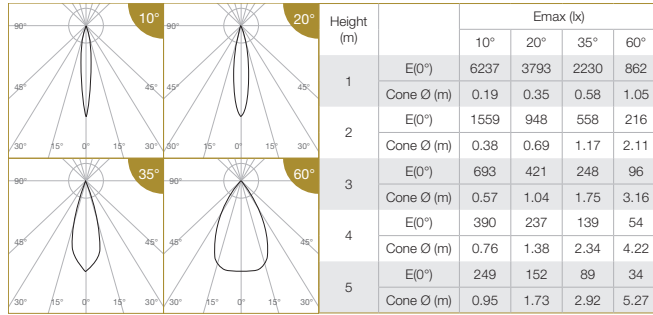


NEBULA 3 SURFACE 66 IK08



PHOTOMETRICS

50 PLE 24CV



Correction Factor:
 50PLE-24CV (10°) - f = 1.00
 50CLE-24CV (10°) - f = 0.82
 50CLO-24CV (10°) - f = 0.65
 50PLE-24CV (20°, 35°, 60°) - f = 1.00
 50CLE-24CV (20°, 35°, 60°) - f = 0.82
 50CLO-24CV (20°, 35°, 60°) - f = 0.70

| ELR LED Module | | | | 50PLE | 50CLE | 50CLO |
|--------------------|-----------------------|------------|-----|-------------------------|-------|-----------------------|
| Input Power (24CV) | | | | 12W | 10W | 8W |
| Luminous Flux (lm) | Type | Beam Angle | CRI | 24CV Single CCT (3000K) | | |
| | | | | 24CV Single CCT (3000K) | 10° | High Efficiency Ra-85 |
| ProART Ra-95 | 611 | 503 | 397 | | | |
| ProART98 Ra-98 | 502 | 414 | 326 | | | |
| 20° | High Efficiency Ra-85 | 914 | 748 | | | 644 |
| | ProART Ra-95 | 777 | 636 | | | 547 |
| | ProART98 Ra-98 | 639 | 524 | | | 451 |
| 35° | High Efficiency Ra-85 | 924 | 757 | | 651 | |
| | ProART Ra-95 | 786 | 643 | | 554 | |
| | ProART98 Ra-98 | 647 | 530 | | 456 | |
| 60° | High Efficiency Ra-85 | 861 | 705 | | 607 | |
| | ProART Ra-95 | 732 | 599 | | 516 | |
| | ProART98 Ra-98 | 603 | 494 | | 425 | |

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

| Type | Fixture | | | | Accessories | |
|------------|--------------------|------|--------|------------|-------------|--------------------|
| | Ingress Protection | | Colour | | | |
| NEBULA-3SM | IP66 | IP66 | GR | Matt Grey | N | None |
| | | | MB | Matt Black | AGL | Anti-Glare Louvre |
| | | | | | SL | Soft Lens |
| | | | | | LSL | Linear Spread Lens |

| Single CCT LED Module | | | | | | | |
|-----------------------|-----|------------|-----|-------------|-------|-----|----------|
| Input Power | | Beam Angle | | Colour Temp | | CRI | |
| ELR50PLE-24CV | 12W | 10 | 10° | 27 | 2700K | HE | Ra-85 |
| | | | 20° | 30 | 3000K | PA | ProART |
| ELR50CLE-24CV | 10W | 20 | 20° | 35 | 3500K | PP | ProART98 |
| | | | 35° | 40 | 4000K | | |
| ELR50CLO-24CV | 8W | 35 | 35° | 50 | 5000K | | |
| | | | 60° | | | | |

example: NEBULA-3SM.IP66.GR.N.ELR50PLE-24CV.35.27.PA

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

*Custom RAL colour options available.



Class 3



Constant Current

NEBULA 3 SURFACE

IP 66 IK08

SPECIFICATIONS

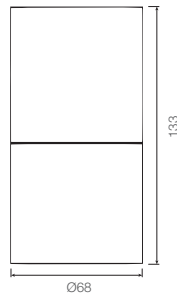
FIXTURE

| | |
|--------------------|--|
| 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 | 50 series LED engines |
| 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, 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 |

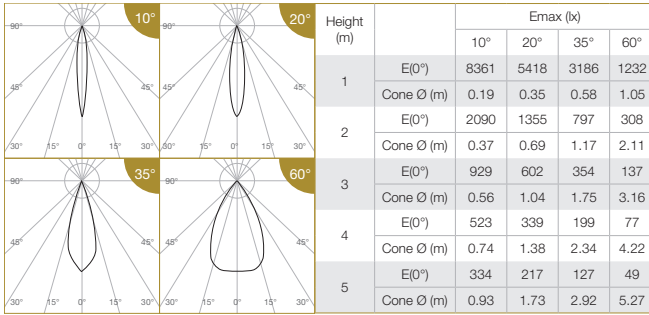
DIMENSIONS (MM)



NEBULA 3 SURFACE IP 66 IK08

PHOTOMETRICS

50 PLE



Correction Factor:
 50PLE (10°) - f = 1.00
 50CLE (10°) - f = 0.78
 50CLO (10°) - f = 0.62
 50PLE (20°, 35°, 60°) - f = 1.00
 50CLE (20°, 35°, 60°) - f = 0.80
 50CLO (20°, 35°, 60°) - f = 0.71

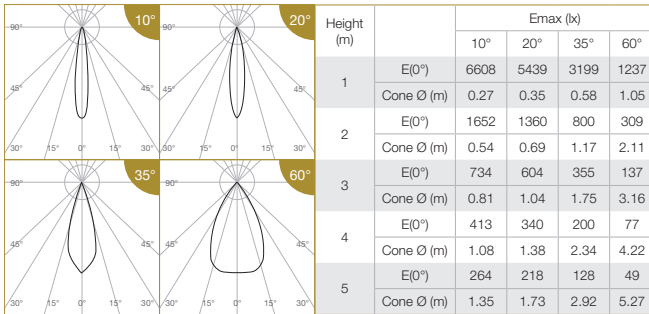
| Height (m) | | Emax (lx) | | | |
|------------|------------|-----------|------|------|------|
| | | 10° | 20° | 35° | 60° |
| 1 | E(0°) | 8361 | 5418 | 3186 | 1232 |
| | Cone Ø (m) | 0.19 | 0.35 | 0.58 | 1.05 |
| 2 | E(0°) | 2090 | 1355 | 797 | 308 |
| | Cone Ø (m) | 0.37 | 0.69 | 1.17 | 2.11 |
| 3 | 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 |

| ELR LED Module | | | | 50PLE | 50CLE | 50CLO | |
|--------------------|-----------------------|----------------|-----------------------|-----------------------|--------------|----------------|-----|
| LED Power | | | | 12W | 10W | 8W | |
| System Power | | | | 15.2W | 12.8W | 11W | |
| Luminous Flux (lm) | Single CCT (3000K) | Type | Beam Angle | CRI | | | |
| | | | | High Efficiency Ra-85 | ProART Ra-95 | ProART98 Ra-98 | |
| | | 10° | High Efficiency Ra-85 | 962 | 755 | 599 | |
| | | | | ProART Ra-95 | 818 | 642 | 510 |
| | | | | ProART98 Ra-98 | 673 | 528 | 420 |
| | | | High Efficiency Ra-85 | 1305 | 1044 | 931 | |
| | | | | ProART Ra-95 | 1109 | 887 | 792 |
| | | | | ProART98 Ra-98 | 914 | 731 | 652 |
| | | 20° | High Efficiency Ra-85 | 1320 | 1056 | 942 | |
| | | | | ProART Ra-95 | 1122 | 898 | 801 |
| | | | | ProART98 Ra-98 | 924 | 739 | 659 |
| | | 35° | High Efficiency Ra-85 | 1230 | 984 | 877 | |
| ProART Ra-95 | 1046 | | | 836 | 746 | | |
| ProART98 Ra-98 | 861 | | | 689 | 614 | | |
| 60° | High Efficiency Ra-85 | 1230 | 984 | 877 | | | |
| | | ProART Ra-95 | 1046 | 836 | 746 | | |
| | | ProART98 Ra-98 | 861 | 689 | 614 | | |

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

50 PLE WARM DIM



| Height (m) | | Emax (lx) | | | |
|------------|------------|-----------|------|------|------|
| | | 10° | 20° | 35° | 60° |
| 1 | E(0°) | 6608 | 5439 | 3199 | 1237 |
| | Cone Ø (m) | 0.27 | 0.35 | 0.58 | 1.05 |
| 2 | E(0°) | 1652 | 1360 | 800 | 309 |
| | Cone Ø (m) | 0.54 | 0.69 | 1.17 | 2.11 |
| 3 | E(0°) | 734 | 604 | 355 | 137 |
| | Cone Ø (m) | 0.81 | 1.04 | 1.75 | 3.16 |
| 4 | E(0°) | 413 | 340 | 200 | 77 |
| | Cone Ø (m) | 1.08 | 1.38 | 2.34 | 4.22 |
| 5 | E(0°) | 264 | 218 | 128 | 49 |
| | Cone Ø (m) | 1.35 | 1.73 | 2.92 | 5.27 |

| ELR LED Module | | | | 50PLE |
|--------------------|------------------|------|------------|-------|
| LED Power | | | | 12W |
| System Power | | | | 15.2W |
| Luminous Flux (lm) | Warm Dim (3100K) | Type | Beam Angle | CRI |
| | | | | |
| | | 10° | 934 | |
| | | | 1114 | |
| | | 20° | 1126 | |
| | | | 1050 | |
| 35° | | | | |
| | 60° | | | |

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

NEBULA 3 SURFACE IP 66 IK08

PHOTOMETRICS

50 PLE tuneWHITE/flexiK

| Height (m) | | E _{max} (lx) | | | ELR LED Module | | | 50PLE | | |
|------------|------------|-----------------------|------|------|--------------------|------------------------------------|------------|-------|-------|--------------|
| | | 20° | 35° | 60° | | | | | | |
| 1 | E(0°) | 4249 | 2499 | 966 | LED Power | | | 12W | | |
| | Cone Ø (m) | 0.35 | 0.58 | 1.05 | System Power | | | 15.2W | | |
| 2 | E(0°) | 1062 | 625 | 242 | Luminous Flux (lm) | Type | Beam Angle | CRI | 50PLE | |
| | Cone Ø (m) | 0.69 | 1.17 | 2.11 | | tuneWHITE / flexiK (4000K / 6500K) | 20° | | | ProART Ra-95 |
| 3 | E(0°) | 472 | 278 | 107 | | 35° | 880 | | | |
| 4 | E(0°) | 266 | 156 | 60 | 60° | 820 | | | | |
| | Cone Ø (m) | 1.38 | 2.34 | 4.22 | | | | | | |
| 5 | E(0°) | 170 | 100 | 39 | | | | | | |
| | Cone Ø (m) | 1.73 | 2.92 | 5.27 | | | | | | |

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

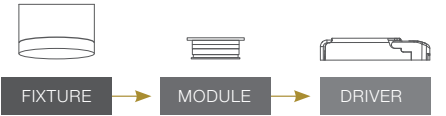
50 PLE RGBW

| Height (m) | | E _{max} (lx) | | ELR LED Module | | | 50PLE | | |
|------------|------------|-----------------------|------|--------------------|------|------------|-------|-------|-----|
| | | 35° | 60° | | | | | | |
| 1 | E(0°) | 1512 | 585 | LED Power | | | 12W | | |
| | Cone Ø (m) | 0.58 | 1.05 | System Power | | | 15.2W | | |
| 2 | E(0°) | 378 | 146 | Luminous Flux (lm) | Type | Beam Angle | CRI | 50PLE | |
| | Cone Ø (m) | 1.17 | 2.11 | | RGBW | 35° | | | N/A |
| 3 | E(0°) | 168 | 65 | | 60° | 496 | | | |
| 4 | E(0°) | 94 | 37 | | | | | | |
| | Cone Ø (m) | 2.34 | 4.22 | | | | | | |
| 5 | E(0°) | 60 | 23 | | | | | | |
| | Cone Ø (m) | 2.92 | 5.27 | | | | | | |

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

NEBULA 3 SURFACE 66 IK08

MODULAR CONCEPT



ORDERING MATRIX CHART

| Fixture | | | | | |
|------------|--------------------|------|--------|------------|------------------------|
| Type | Ingress Protection | | Colour | | Accessories |
| NEBULA-3SM | IP66 | IP66 | GR | Matt Grey | N None |
| | | | MB | Matt Black | AGL Anti-Glare Louvre |
| | | | | | SL Soft Lens |
| | | | | | LSL Linear Spread Lens |

| Single CCT LED Module | | | | | | | Driver | | |
|-----------------------|------------|----|-------------|----|-------|----|----------|----|---------|
| Input Power | Beam Angle | | Colour Temp | | CRI | | Dimming | | |
| ELR50PLE | 12W | 10 | 10° | 27 | 2700K | HE | Ra~85 | ND | Non-Dim |
| ELR50CLE | 10W | 20 | 20° | 30 | 3000K | PA | ProART | PH | Phase |
| ELR50CLO | 8W | 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 | | |
| ELR50PLE | 12W | 10 | 10° | 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 | | |
| ELR50PLE | 12W | 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 | | |
| ELR50PLE | 12W | 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 | | |
| ELR50PLE | 12W | 35 | 35° | RGBW | Red, Green, Blue, White |
| | | 60 | 60° | | |

*Drivers for RGBW LED modules are sold separately.

example: NEBULA-3SM.IP66.GR.N.ELR50PLE.35.27.PA.DA

*Custom RAL colour options available.