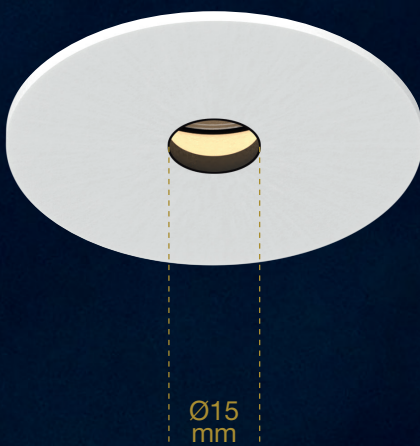


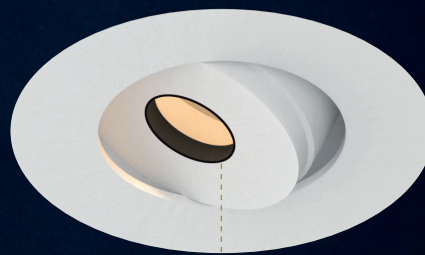
# ORION

## DOWNLIGHT SERIES

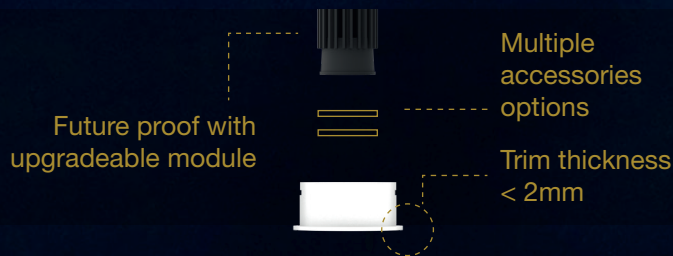
A series of minuscule pinhole downlight designed with extremely small aperture yet maintaining high light output ratio. Incorporating ELR's signature modular concept design, LED modules are fully interchangeable with various choices to provide optimal illumination for all kinds of spaces.



Ø15 mm

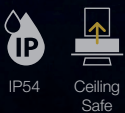


Dark Silent Ring



Flush mount

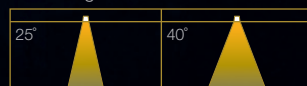
### Fixture Features



### Module Colour Temperature Variation



### Beam Angle



### Driver Dimming Variation

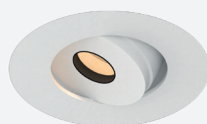


# ORION 2

RECESSED ROUND FIX / TILT DOWNLIGHT LUMINAIRE



#ROUND  
#FIX  
#TRIM



#ROUND  
#TILT  
#FLUSHMOUNT

## TECHNOLOGY AND FEATURES



Advanced Thermal Protection System



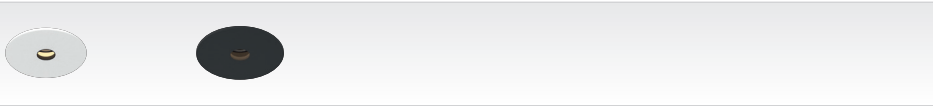
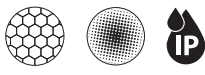




Low Flicker, No Risk (IEEE 1789)



Converging Optical Lens Maximising LOR



Ceiling Safe

AVAILABLE OPTIONS	
<b>FIXTURE COLOUR OPTIONS</b>	<p>Trim Colour Options</p> <p>MATT WHITE RAL9003      MATT BLACK RAL9011</p> 
<b>ACCESSORIES</b>  <small>*IP54 seal accessory is valid for fix angle fixtures only.</small>	 <p>Honeycomb Anti-Glare Louvre    Soft Lens    IP54</p>
<b>LED MODULE</b>  <small>**tuneWHITE and flexiK are recommended to be paired with Soft Lens for better colour mixing effect.</small>	 <p>20C/P</p>  <p>2700K    3000K    3500K    4000K    5000K    ProART    ProART98    WARM DIM    tuneWHITE    flexiK</p> 
<b>DRIVER DIMMING</b>	 <p>(ND)    (PH)    (AN)    (DA)</p>

# ORION 2

- #ROUND
- #FIX
- #TILT
- #TRIM
- #TRIMLESS

## SPECIFICATIONS

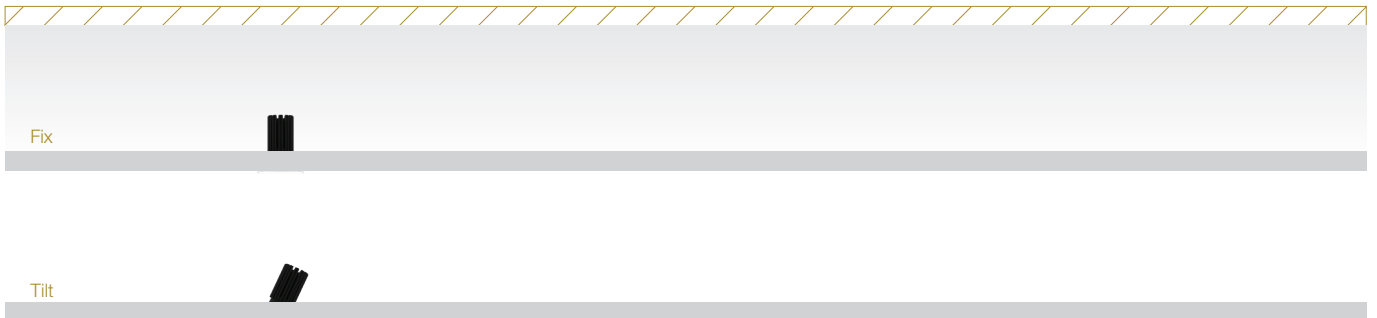
### FIXTURE

Family Type	Orion series
Fixture Colours	Matt white, matt black
Fixture Materials	Aluminium
Accessories	Honeycomb anti-glare louvre, soft lens, IP54 seal
Ingress Protection	IP40, IP54

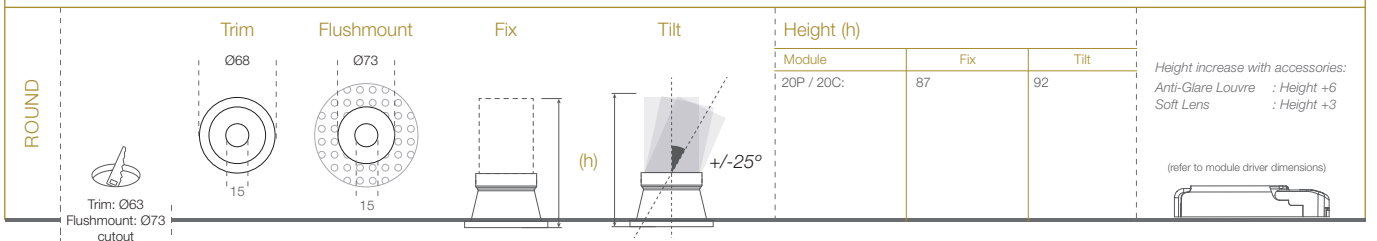
### LED MODULE & DRIVER

Compatible LED Modules	20 series LED modules
Lifetime	Up to 50,000 hours L80 lamp life with LM80 tested LED chip packages
Beam Angles	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

20 Pro /  
20 Classic



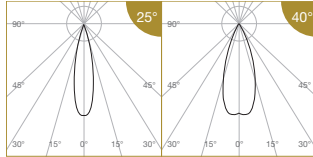
## DIMENSIONS (MM)



# ORION 2

## PHOTOMETRICS

### 20 PRO



Height (m)		Emax (lx)	
		25°	40°
1	E(0°)	2265	1214
	Cone Ø (m)	0.45	0.74
2	E(0°)	566	303
	Cone Ø (m)	0.91	1.49
3	E(0°)	252	135
	Cone Ø (m)	1.36	2.23
4	E(0°)	142	76
	Cone Ø (m)	1.82	2.98
5	E(0°)	91	49
	Cone Ø (m)	2.27	3.72

Correction Factor:  
 20P - f = 1.00  
 20C - f = 0.81  
 20P-24CV - f = 0.78  
 20C-24CV - f = 0.64

ELR LED Module				20P	20C	
LED Power / Input Power (24CV)				8W	6.2W	
System Power				10.5W	8.3W	
Luminous Flux (lm)	Type	Beam Angle	CRI			
	Single CCT (3000K)	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	
	LED Power / Input Power (24CV)				8W	6.2W
	Luminous Flux (lm)	Type	Beam Angle	CRI		
24CV Single CCT (3000K)		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 8% 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

# ORION 2

## PHOTOMETRICS

### 20 PRO WARM DIM

Height (m)		E <sub>max</sub> (lx)		ELR LED Module				20P	20C
		25°	40°	LED Power		System 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	Beam Angle	CRI		
2	E(0°)	658	353		Warm Dim (3100K)	25°		ProART Ra-95	696
	Cone Ø (m)	0.91	1.49		40°		688		533
3	E(0°)	292	157	<i>Data are based on maximum output at 3100K.</i>					
	Cone Ø (m)	1.36	2.23	<i>Nominal CRI-95, equals to Ra&gt;90-97, R9&gt;50</i>					
4	E(0°)	165	88						
	Cone Ø (m)	1.82	2.98						
5	E(0°)	105	56						
	Cone Ø (m)	2.27	3.72						

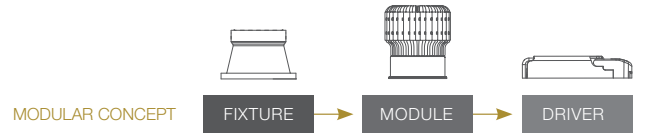
Correction Factor: 20P WD - f = 1.00  
20C WD - f = 0.78

### 20 PRO tuneWHITE / flexiK

Height (m)		E <sub>max</sub> (lx)		ELR LED Module				20P	20C
		25°	40°	LED Power		System Power		8W	6.2W
1	E(0°)	2139	1146	System Power		10.5W		8.3W	
	Cone Ø (m)	0.45	0.74	Luminous Flux (lm)	Type	Beam Angle	CRI		
2	E(0°)	535	286		tuneWHITE / flexiK (4000K / 6500K)	25°		ProART Ra-95	566
	Cone Ø (m)	0.91	1.49		40°		559		434
3	E(0°)	238	127	<i>Data are based on maximum output at 3100K.</i>					
	Cone Ø (m)	1.36	2.23	<i>Nominal CRI-95, equals to Ra&gt;90-97, R9&gt;50</i>					
4	E(0°)	134	72						
	Cone Ø (m)	1.82	2.98						
5	E(0°)	86	46						
	Cone Ø (m)	2.27	3.72						

Correction Factor: 20P TW / FK - f = 1.00  
20C TW / FK - f = 0.78

# ORION 2



## ORDERING MATRIX CHART

Fixture										
Type	Trim Options		Shape		Angle		Colour		Accessories	
<b>ORION-2</b>	<b>T</b>	Trim	<b>RD</b>	Round	<b>FX</b>	Fix	<b>WH</b>	Matt White	<b>N</b>	None
	<b>X</b>	Flush Mount			<b>TL</b>	Tilt	<b>MB</b>	Matt Black	<b>AGL</b>	Anti-Glare Louvre
									<b>SL</b>	Soft Lens
									<b>IP</b>	IP54**

\*\*IP54 seal accessory is valid for fix angle fixtures only.

Single CCT LED Module					Driver				
LED Power	Beam Angle		Colour Temp		CRI		Dimming		
<b>ELR20P</b>	8W	<b>25</b>	25°	<b>27</b>	2700K	<b>HE</b>	Ra~85	<b>ND</b>	Non-Dim
<b>ELR20C</b>	6.2W	<b>40</b>	40°	<b>30</b>	3000K	<b>PA</b>	ProART	<b>PH</b>	Phase
				<b>35</b>	3500K	<b>PP</b>	ProART98	<b>AN</b>	0-10V
				<b>40</b>	4000K			<b>DA</b>	DALI
				<b>50</b>	5000K				
<b>ELR20P-24CV</b>	8W	<b>25</b>	25°	<b>27</b>	2700K	<b>HE</b>	Ra~85		
<b>ELR20C-24CV</b>	6.2W	<b>40</b>	40°	<b>30</b>	3000K	<b>PA</b>	ProART		
				<b>35</b>	3500K	<b>PP</b>	ProART98		
				<b>40</b>	4000K				
				<b>50</b>	5000K				

\*Drivers for 24CV LED modules are sold separately.

Warm Dim LED Module					Driver				
LED Power	Beam Angle		Colour Temp		CRI		Dimming		
<b>ELR20P</b>	8W	<b>25</b>	25°	<b>WD</b>	Warm Dim	<b>PA</b>	ProART	<b>PH</b>	Phase
<b>ELR20C</b>	6.2W	<b>40</b>	40°					<b>AN</b>	0-10V
								<b>DA</b>	DALI

tuneWHITE LED Module					Driver				
LED Power	Beam Angle		Colour Temp		CRI		Dimming		
<b>ELR20P</b>	8W	<b>25</b>	25°	<b>TW1831</b>	tuneWHITE 1800K-3100K	<b>PA</b>	ProART	<b>DA</b>	DALI
<b>ELR20C</b>	6.2W	<b>40</b>	40°	<b>TW1840</b>	tuneWHITE 1800K-4000K				
				<b>TW2765</b>	tuneWHITE 2700K-6500K				

flexiK LED Module					Driver				
LED Power	Beam Angle		Colour Temp		CRI		Dimming		
<b>ELR20P</b>	8W	<b>25</b>	25°	<b>FK##</b>	flexiK	<b>PA</b>	ProART	<b>PH</b>	Phase
<b>ELR20C</b>	6.2W	<b>40</b>	40°					<b>AN</b>	0-10V
								<b>DA</b>	DALI

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

example: ORION-2.T.RD.FX.WH.N.ELR20P.40.30.PA.DA

\*Custom RAL colour options available.