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We are a vertically integrated joint venture. The organization brings together capabilities in the fields of product design, manufacturing, electronics and reach to the market. The core competencies of the parent companies work in tandem, making the organization more operational and supply chain efficient. We are getting to be known as the modern innovators. Having pioneered the LED technology and set up a global standard of manufacturing in India that is making waves across the most modern markets around Europe. We not only manufacture a world renowned brand Pharox but our R&D team allows for innovations that make our lighting luminaires more intelligent in performance and delivery.

The way the world is lit is changing. Pharox is leading this change with its range of LED luminaires. With cutting edge modern electronics we are bringing in products that are not only just energy efficient and eco-friendly but have an aesthetic appeal, that is distinct, modern and very stylish. An epitome of manufacturing elegance we have already sold over 8 million bulbs worldwide.

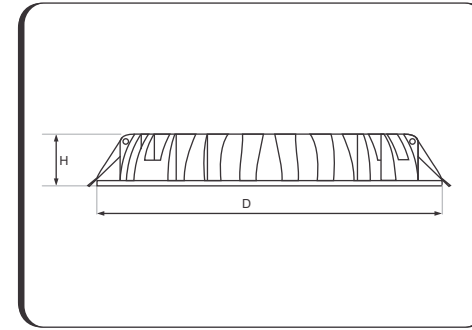
Our global leadership is because of the intelligence we have acquired by understanding the science & art of lighting and engaging our expertise in electronics of LED lighting. After all, our R&D work on it has been pioneering and we have ensured that Pharox performs optimally even in severe power conditions. Reason enough for us to claim leadership position in many countries already!

Down Light

TULIP
FORMA
AQUILLA ROUND
AQUILLA SQUARE
SIRIUS
MOON LITE



Tulip Series

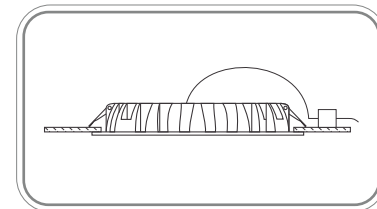
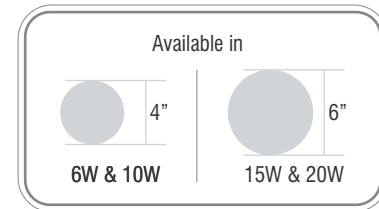
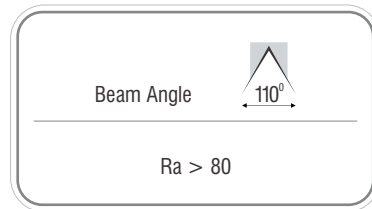


Dimensional Data:

Dimensions	6W	10W	15W	20W
Length (L)	NA	NA	NA	NA
Breadth (B)	NA	NA	NA	NA
Height (H)	32mm	32mm	32mm	32mm
Diameter (D)	120mm	120mm	180mm	180mm
Cut Out	110mm	110mm	160mm	160mm

Product Specifications:

Product Code	Product Description	Power	CCT	Lumens	Power Factor
TLD006C000	Pharox - Tulip - 6W 6500K Down Light	6W	6500K	425lm	>0.85
TLD006N000	Pharox - Tulip - 6W 4000K Down Light	6W	4000K	400lm	>0.85
TLD006W000	Pharox - Tulip - 6W 3000K Down Light	6W	3000K	380lm	>0.85
TLD010C000	Pharox - Tulip - 10W 6500K Down Light	10W	6500K	670lm	>0.85
TLD010N000	Pharox - Tulip - 10W 4000K Down Light	10W	4000K	640lm	>0.85
TLD010W000	Pharox - Tulip - 10W 3000K Down Light	10W	3000K	600lm	>0.85
TLD015C000	Pharox - Tulip - 15W 6500K Down Light	15W	6500K	1050lm	>0.90
TLD015N000	Pharox - Tulip - 15W 4000K Down Light	15W	4000K	1000lm	>0.90
TLD015W000	Pharox - Tulip - 15W 3000K Down Light	15W	3000K	950lm	>0.90
TLD020C000	Pharox - Tulip - 20W 6500K Down Light	20W	6500K	1520lm	>0.90
TLD020N000	Pharox - Tulip - 20W 4000K Down Light	20W	4000K	1450lm	>0.90
TLD020W000	Pharox - Tulip - 20W 3000K Down Light	20W	3000K	1380lm	>0.90



Features:

The Pharox Tulip is a classic down light having simple minimalist design which blends with your decor. It's a perfect replacement for the conventional CFL down light and good all-rounder for the secondary areas in an office like corridors and waiting areas. The advantages being its long life of 35,000 operating hours at L70 lumen maintenance and not to miss the signature Tulip heat sink design.

Design:

- Slim pressure die cast aluminium body for efficient heat dissipation.
- High transmittance polycarbonate diffuser for optimum light output.
- High efficiency driver to match customer expectations.

Performance Guide: Watts/m²

Ht. (mtrs)	Lux Level*		
	250	200	150
3.5	7.2	5.4	3.9
3	6	4.8	3.6
2.5	5.44	4.35	3.26

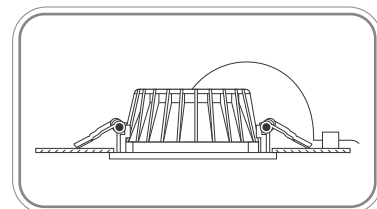
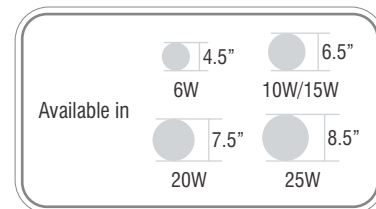
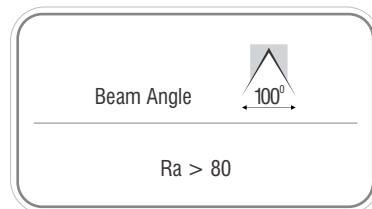
Reflectances:	
Ceiling	80%
Floor	20%
Walls	50%

Light Loss Factor: 0.8

Lumens: 1050lm

*For 15W CW (6") luminaire
Data available on request for other variants

Forma Series



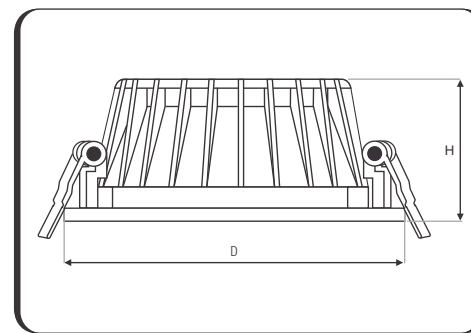
Features:

The Forma Chip-On-Board (COB) down light is a breakthrough solution in general lighting using a COB light source. With its superior built quality of die cast aluminium, hammertone reflector and an etched clear glass, the Forma down light becomes the best down light in its class embracing COB technology. The hammertone reflector is a key benefit feature of this down light providing uniform light distribution on the work plane.

Design:

- High quality die cast aluminium construction with premium powder coating.
- High efficiency hammertone reflector for uniform light distribution.
- High efficiency driver to match customer expectations.

Dimensional Data:



Dimensions	6W	10W	15W	20W	30W
Length (L)	NA	NA	NA	NA	NA
Breadth (B)	NA	NA	NA	NA	NA
Height (H)	36.7mm	50.5mm	50.5mm	57mm	66.5mm
Diameter (D)	110mm	165mm	165mm	193.1mm	220mm
Cut Out	90mm	155mm	155mm	188mm	200mm

Product Specifications:

Product Code	Product Description	Power	CCT	Lumens	Power Factor
FOR006C000	Pharox - Forma - 6W 6000K Down Light	6W	6000K	480lm	>0.90
FOR006N000	Pharox - Forma - 6W 4000K Down Light	6W	4000K	450lm	>0.90
FOR006W000	Pharox - Forma - 6W 3000K Down Light	6W	3000K	420lm	>0.90
FOR010C000	Pharox - Forma - 10W 6000K Down Light	10W	6000K	850lm	>0.90
FOR010N000	Pharox - Forma - 10W 4000K Down Light	10W	4000K	810lm	>0.90
FOR010W000	Pharox - Forma - 10W 3000K Down Light	10W	3000K	770lm	>0.90
FOR015C000	Pharox - Forma - 15W 6000K Down Light	15W	6000K	1150lm	>0.90
FOR015N000	Pharox - Forma - 15W 4000K Down Light	15W	4000K	1100lm	>0.90
FOR015W000	Pharox - Forma - 15W 3000K Down Light	15W	3000K	1050lm	>0.90
FOR020C000	Pharox - Forma - 20W 6000K Down Light	20W	6000K	1780lm	>0.90
FOR020N000	Pharox - Forma - 20W 4000K Down Light	20W	4000K	1720lm	>0.90
FOR020W000	Pharox - Forma - 20W 3000K Down Light	20W	3000K	1700lm	>0.90
FOR030C000	Pharox - Forma - 30W 6000K Down Light	30W	6000K	2710lm	>0.90
FOR030N000	Pharox - Forma - 30W 4000K Down Light	30W	4000K	2650lm	>0.90
FOR030W000	Pharox - Forma - 30W 3000K Down Light	30W	3000K	2580lm	>0.90

Performance Guide: Watts/m²

Ht. (mtrs)	Lux Level*		
	250	200	150
4	3.46	3.06	2.36
3.5	3.37	2.66	2.21
3	3.28	2.22	2.16

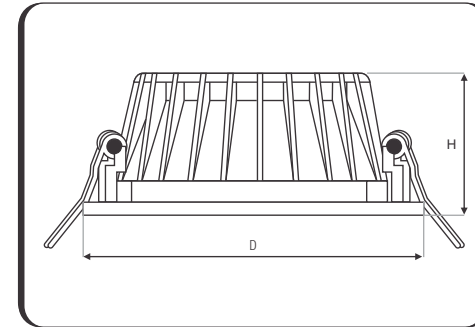
*For 20W CW (7.5") luminaire
Data available on request for other variants

Reflectances:	
Ceiling	80%
Floor	20%
Walls	50%

Light Loss Factor: 0.8

Lumens: 1780lm

Aquila Round Series

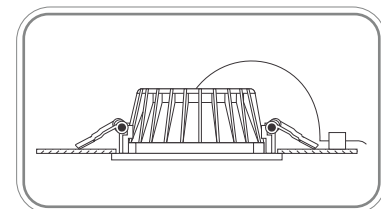
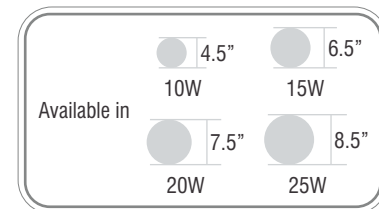
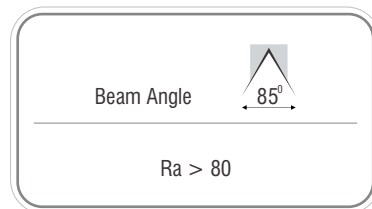


Dimensional Data:

Dimensions	10W	15W	20W	25W
Length (L)	NA	NA	NA	NA
Breadth (B)	NA	NA	NA	NA
Height (H)	36.7mm	50.5mm	57mm	66.5mm
Diameter (D)	110mm	165mm	193.1mm	220mm
Cut Out	90mm	155mm	180mm	200mm

Product Specifications:

Product Code	Product Description	Power	CCT	Lumens	Power Factor
AQR010C000	Pharox - Aquilla - 10W 6000K Round Recessed Down Light	10W	6000K	900lm	>0.90
AQR010N000	Pharox - Aquilla - 10W 4000K Round Recessed Down Light	10W	4000K	850lm	>0.90
AQR010W000	Pharox - Aquilla - 10W 3000K Round Recessed Down Light	10W	3000K	780lm	>0.90
AQR015C000	Pharox - Aquilla - 15W 6000K Round Recessed Down Light	15W	6000K	1350lm	>0.90
AQR015N000	Pharox - Aquilla - 15W 4000K Round Recessed Down Light	15W	4000K	1250lm	>0.90
AQR015W000	Pharox - Aquilla - 15W 3000K Round Recessed Down Light	15W	3000K	1180lm	>0.90
AQR020C000	Pharox - Aquilla - 20W 6000K Round Recessed Down Light	20W	6000K	1650lm	>0.90
AQR020N000	Pharox - Aquilla - 20W 4000K Round Recessed Down Light	20W	4000K	1600lm	>0.90
AQR020W000	Pharox - Aquilla - 20W 3000K Round Recessed Down Light	20W	3000K	1550lm	>0.90
AQR025C000	Pharox - Aquilla - 25W 6000K Round Recessed Down Light	25W	6000K	1950lm	>0.90
AQR025N000	Pharox - Aquilla - 25W 4000K Round Recessed Down Light	25W	4000K	1900lm	>0.90
AQR025W000	Pharox - Aquilla - 25W 3000K Round Recessed Down Light	25W	3000K	1875lm	>0.90



Features:

The Aquilla round series is an ideal solution for general lighting where luminaire aesthetics and optical performance is of utmost importance. Presence of Fresnel lens and high efficiency reflector enables the luminaire to deliver greater luminance without causing glare. The dimmability feature makes it the best lighting solution for upcoming green building projects.

Design:

- High quality die cast aluminium construction with premium powder coating.
- High efficiency reflector to extract maximum light out of the luminaire.
- High efficiency dimmable driver to match customer expectations.

Performance Guide: Watts/m²

Ht. (mtrs)	Lux Level*		
	250	200	150
4	4.26	3.32	2.64
3.5	4.18	3.28	2.48
3	3.94	3.20	2.42

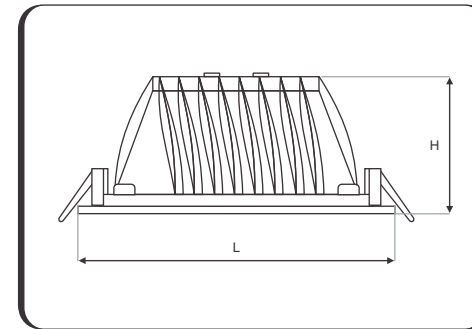
*For 20W CW (7.5") luminaire
Data available on request for other variants

Reflectances:	
Ceiling	80%
Floor	20%
Walls	50%

Light Loss Factor: 0.8

Lumens: 1650lm

Aquila Square Series

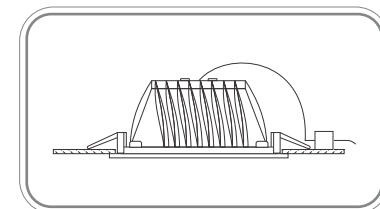
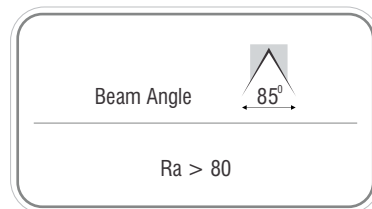


Dimensional Data:

Dimensions	10W	15W	20W	25W
Length (L)	140mm	170mm	205mm	225mm
Breadth (B)	140mm	170mm	205mm	225mm
Height (H)	68mm	68mm	68mm	68mm
Diameter (D)	NA	NA	NA	NA
Cut Out	120mm x 120mm	150mm x 150mm	185mm x 185mm	205mm x 205mm

Product Specifications:

Product Code	Product Description	Power	CCT	Lumens	Power Factor
AQS010C000	Pharox - Aquilla - 10W 6000K Square Recessed Down Light	10W	6000K	900lm	>0.90
AQS010N000	Pharox - Aquilla - 10W 4000K Square Recessed Down Light	10W	4000K	850lm	>0.90
AQS010W000	Pharox - Aquilla - 10W 3000K Square Recessed Down Light	10W	3000K	780lm	>0.90
AQS015C000	Pharox - Aquilla - 15W 6000K Square Recessed Down Light	15W	6000K	1250lm	>0.90
AQS015N000	Pharox - Aquilla - 15W 4000K Square Recessed Down Light	15W	4000K	1200lm	>0.90
AQS015W000	Pharox - Aquilla - 15W 3000K Square Recessed Down Light	15W	3000K	1130lm	>0.90
AQS020C000	Pharox - Aquilla - 20W 6000K Square Recessed Down Light	20W	6000K	1600lm	>0.90
AQS020N000	Pharox - Aquilla - 20W 4000K Square Recessed Down Light	20W	4000K	1550lm	>0.90
AQS020W000	Pharox - Aquilla - 20W 3000K Square Recessed Down Light	20W	3000K	1500lm	>0.90
AQS025C000	Pharox - Aquilla - 25W 6000K Square Recessed Down Light	25W	6000K	1950lm	>0.90
AQS025N000	Pharox - Aquilla - 25W 4000K Square Recessed Down Light	25W	4000K	1900lm	>0.90
AQS025W000	Pharox - Aquilla - 25W 3000K Square Recessed Down Light	25W	3000K	1875lm	>0.90



Features:

The Aquilla square series is an ideal solution for general lighting where luminaire aesthetics and optical performance is of utmost importance. Presence of Fresnel lens and high efficiency reflector enables the luminaire to deliver greater luminance without causing glare. The dimmability feature makes it the best lighting solution for upcoming green building projects.

Design:

- High quality die cast aluminium construction with premium powder coating.
- High efficiency reflector to extract maximum light out of the luminaire.
- High efficiency dimmable driver to match customer expectations.

Performance Guide: Watts/m²

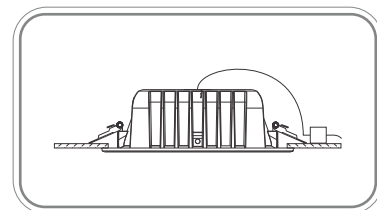
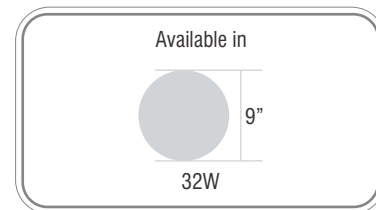
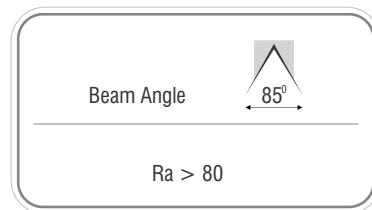
Ht. (mtrs)	Lux Level*		
	250	200	150
4	4.4	3.72	2.68
3.5	4.22	3.40	2.62
3	4.02	3.22	2.46

*For 20W CW luminaire
Data available on request for other variants

Reflectances:	
Ceiling	80%
Floor	20%
Walls	50%

Light Loss Factor: 0.8
Lumens: 1600lm

Sirius Series



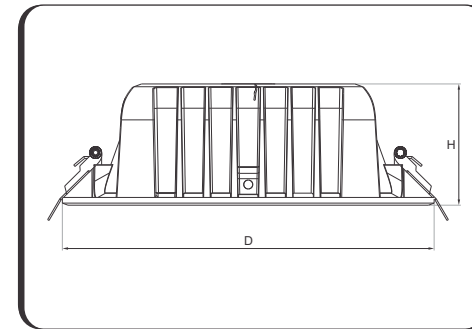
Features:

Sirius is the brightest star in the galaxy, as well as, in our down light range. With a best-in-class efficacy and a special polycarbonate diffuser, the light output delivered with an extra punch makes it the brightest star. Sirius LED down light possesses a highly functional design and superior built quality which is suitable for applications that require uniform general lighting solutions at high ceiling heights. It's extremely low on power consumption that results in significant energy savings compared to the traditional CFL down lights.

Design:

- Pressure die cast aluminum housing with premium white matte powder coating.
- Satinized chrome rim adds an aesthetic advantage to enhance ceiling space.
- 85° beam distribution ensures perfect lux levels on the working plane whether floor or table.
- Complies to various international norms of safety & performance.
- Efficient electronics adds to its excellent performance.

Dimensional Data:



Dimensions	32W
Length (L)	NA
Breadth (B)	NA
Height (H)	75mm
Diameter (D)	230mm
Cut Out	210mm

Product Specifications:

Product Code	Product Description	Power	CCT	Lumens	Power Factor
SRR032C000	Pharox - Sirius - 32W 6500K Down Light	32W	6500K	2700lm	>0.90
SRR032N000	Pharox - Sirius - 32W 4000K Down Light	32W	4000K	2500lm	>0.90
SRR032W000	Pharox - Sirius - 32W 3000K Down Light	32W	3000K	2500lm	>0.90

Performance Guide: Watts/m²

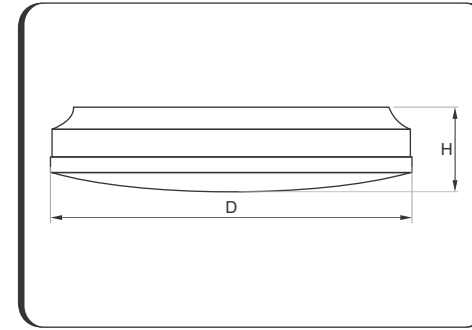
Ht. (mtrs)	Lux Level*		
	200	150	100
6	3.94	3.15	1.97
5	3.52	2.58	1.86
4	3.20	2.52	1.60

Reflectances:	
Ceiling	80%
Floor	20%
Walls	50%

Light Loss Factor: 0.8
Lumens: 2700lm

*For 32W CW (9") luminaire
Data available on request for other variants

Moon Lite Series



Dimensional Data:

Dimensions	10W
Length (L)	NA
Breadth (B)	NA
Height (H)	65mm
Diameter (D)	240mm
Cut Out	NA

Product Specifications:

Product Code	Product Description	Power	CCT	Lumens	Beam Angle
MON010C000	Pharox - Moon Lite - 10W 6000K Round Surface Down Light	10W	6000K	1030lm	120°
MON010N000	Pharox - Moon Lite - 10W 4000K Round Surface Down Light	10W	4000K	950lm	120°
MON010W000	Pharox - Moon Lite - 10W 3000K Round Surface Down Light	10W	3000K	840lm	120°

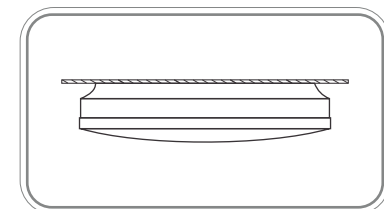
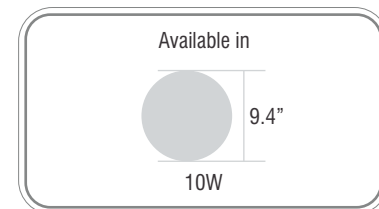
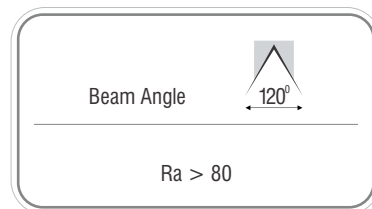
Performance Guide: Watts/m²

Ht. (mtrs)	Lux Level*		
	200	150	100
4	4.86	3.7	2.56
3.5	4.26	3.34	2.22
3	3.72	2.94	2.04

Reflectances:	
Ceiling	80%
Floor	20%
Walls	50%

Light Loss Factor: 0.8
Lumens: 1030lm

*For 10W CW (9.4") luminaire
Data available on request for other variants



Features:

Moon Lite inspired from the 'Full Moon' is an ideal solution for general lighting where luminaire aesthetics and optical performance are of utmost importance. It is a perfect blend of elegance and technology as far as the lighting products are concerned. The light guide and the diffusion plate inside the product ensures high light output. With an exceptionally high efficacy of >100 lm/W, the product is certainly a front-runner in its class.

Design:

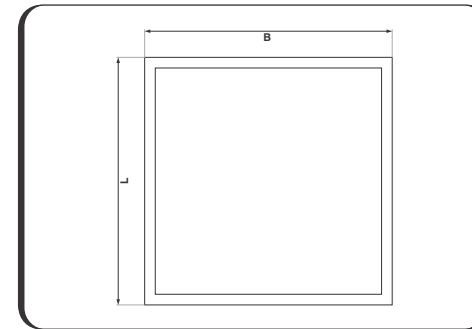
- Full board design PCB for uniformity.
- PMMA diffuser ensuring smooth flow of light.
- High quality polycarbonate housing, making it extremely lightweight.

Ceiling Light

ELENA
OMNIA
SERENE



Elena Series



Dimensional Data:

Dimensions	36W
Length (L)	592mm
Breadth (B)	592mm
Height (H)	85mm

Product Specifications:

Product Code	Product Description	Power	CCT	Lumens	Power Factor
ELE036C000	Pharox - Elena - 36W 2' x 2' 5700K Ceiling Light	36W	5700K	2900lm	>0.90
ELE036N000	Pharox - Elena - 36W 2' x 2' 4000K Ceiling Light	36W	4000K	2700lm	>0.90
ELE036W000	Pharox - Elena - 36W 2' x 2' 3000K Ceiling Light	36W	3000K	2500lm	>0.90

Performance Guide: Watts/m²

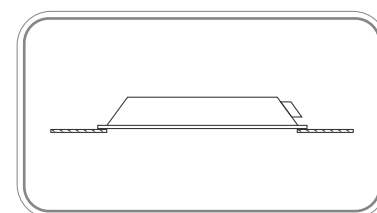
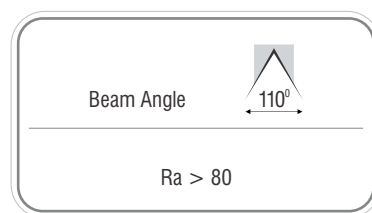
Ht.(mtrs)	Lux Level*		
	350	300	250
3.5	6.48	5.76	5.02
3	5.98	5.04	4.32
2.5	5.62	4.94	3.24

Reflectances:	
Ceiling	80%
Floor	20%
Walls	50%

Light Loss Factor: 0.8

Lumens: 2900lm

*For 36W CW (2x2) luminaire
Data available on request for other variants



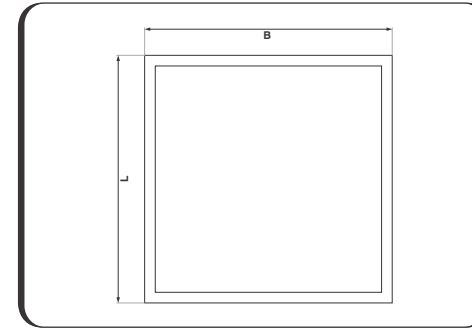
Features:

Elena is an ideal choice for a new building or renovation/retrofitting of an existing space. Elena is a must have for any office lighting requirement with its soothing effect and replaces virtually any conventional grid lighting solution. The process of selecting, installing and maintaining is so easy.

Design:

- High quality CRCA sheet metal body with a premium white powder coating.
- Specially designed polystyrene diffuser for perfect light distribution and long life without yellowing.
- Complies to various international norms of safety & performance.

Omnia Series



Dimensional Data:

Dimensions	39W
Length (L)	592mm
Breadth (B)	592mm
Height (H)	85mm

Product Specifications:

Product Code	Product Description	Power	CCT	Lumens	Power Factor
OMN039C000	Pharox - Omnia - 39W 2' x 2' 6500K Ceiling Light	39W	6500K	3200lm	>0.95
OMN039N000	Pharox - Omnia - 39W 2' x 2' 4000K Ceiling Light	39W	4000K	3100lm	>0.95
OMN039W000	Pharox - Omnia - 39W 2' x 2' 3000K Ceiling Light	39W	3000K	2950lm	>0.95

Performance Guide: Watts/m²

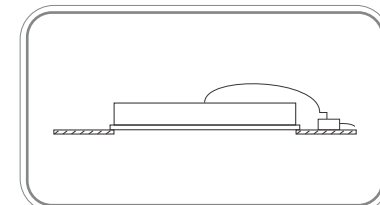
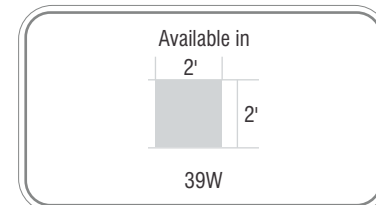
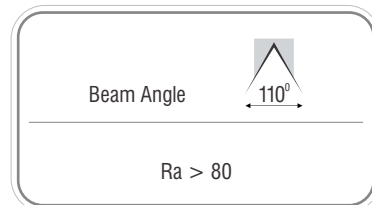
Ht.(mtrs)	Lux Level*		
	350	300	250
3.5	6.24	5.46	4.68
3	5.85	5.07	4.29
2.5	5.46	4.68	3.9

Reflectances:	
Ceiling	80%
Floor	20%
Walls	50%

Light Loss Factor: 0.8

Lumens: 3200lm

*For 39W CW (2x2') luminaire
Data available on request for other variants



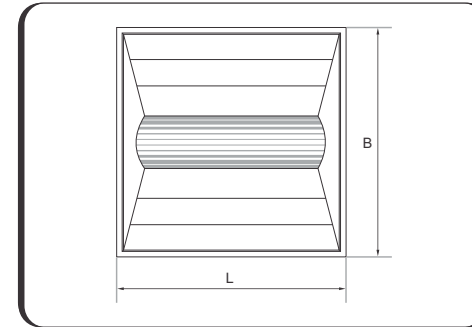
Features:

Omnia is an elegantly designed luminaire which provides the occupants with a refreshing and comforting experience through its uniform and glare-free light. It comes in two versions - standard and high efficiency version. With upto 30% energy savings and maintenance free operation, Omnia proves to be the best choice for offices and conference halls. Omnia conforms to key quality demands of office lighting making work an enjoyable experience.

Design:

- High quality CRCA sheet metal body with a premium white powder coating.
- IP40 ingress protection ensures appropriate protection from dust and insects which existed in its conventional counterpart.
- Specially designed polystyrene diffuser for perfect light distribution and long life without yellowing.
- Complies to various international norms of safety & performance.

Serene Series



Dimensional Data:

Dimensions	
Length (L)	597mm
Breadth (B)	597mm
Height (H)	85mm

Product Specifications:

Product Code	Product Description	Power	CCT	Lumens	Power Factor
SCL042C000	Pharox - Serene - 42W 2' x 2' 6500K Ceiling Light	42W	6500K	3360lm	>0.90
SCL042N000	Pharox - Serene - 42W 2' x 2' 4000K Ceiling Light	42W	4000K	3200lm	>0.90
SCL042W000	Pharox - Serene - 42W 2' x 2' 3000K Ceiling Light	42W	3000K	3040lm	>0.90

Performance Guide: Watts/m²

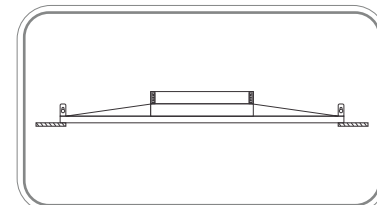
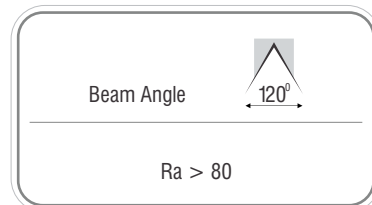
Ht. (mtrs)	Lux Level*		
	350	300	250
3.5	6.71	5.88	4.96
3	6.24	5.44	4.58
2.5	5.86	5.02	4.26

Reflectances:	
Ceiling	80%
Floor	20%
Walls	50%

Light Loss Factor: 0.8

Lumens: 3360lm

*For 42W CW (2x2) luminaire
Data available on request for other variants



Features:

Serene is a specially designed luminaire which is advanced, energy efficient and complements interiors when used in office lighting applications. The luminaire offers the advantage of modern day LED lighting efficiency in a classical design, thereby combining the best of both worlds. It consumes significantly lesser energy and offers longer life, resulting in lower operational cost. Serene conforms to key quality demands of office lighting making work an enjoyable experience.

Design:

- Very sleek design.
- High quality CRCA sheet metal body with a premium white powder coating.
- Specially designed PC diffuser for uniform light distribution.
- Complies to various international norms of safety & performance.

Tube Light

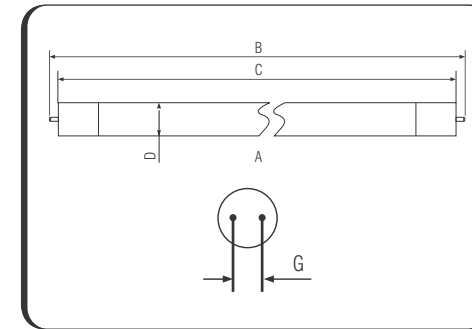
iRAY

iRAY+

iRAY PRO



iRay Series

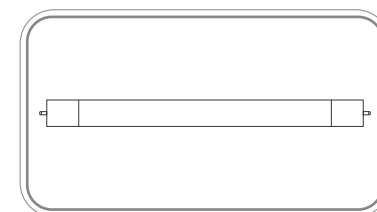
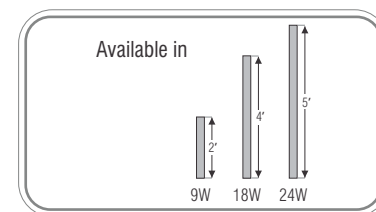
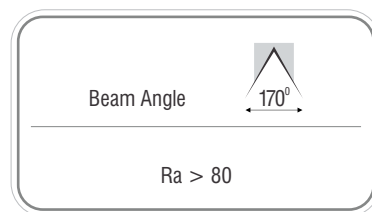


Dimensional Data:

Dimensions	9W	18W	24W
A	600mm	1200mm	1500mm
B	602mm	1212mm	1512mm
C	588mm	1198mm	1498mm
D	26mm	26mm	26mm
G	13mm	13mm	13mm

Product Specifications:

Product Code	Product Description	Power	CCT	Lumens	Power Factor
IRA009C000	Pharox - iRay - 9W 2' 6500K Tube Light	9W	6500K	900lm	>0.90
IRA009N000	Pharox - iRay - 9W 2' 4000K Tube Light	9W	4000K	900lm	>0.90
IRA009W000	Pharox - iRay - 9W 2' 3000K Tube Light	9W	3000K	850lm	>0.90
IRA018C000	Pharox - iRay - 18W 4' 6500K Tube Light	18W	6500K	1800lm	>0.90
IRA018N000	Pharox - iRay - 18W 4' 4000K Tube Light	18W	4000K	1800lm	>0.90
IRA018W000	Pharox - iRay - 18W 4' 3000K Tube Light	18W	3000K	1700lm	>0.90
IRA024C000	Pharox - iRay - 24W 5' 6500K Tube Light	24W	6500K	2400lm	>0.90
IRA024N000	Pharox - iRay - 24W 5' 4000K Tube Light	24W	4000K	2400lm	>0.90
IRA024W000	Pharox - iRay - 24W 5' 3000K Tube Light	24W	3000K	2256lm	>0.90



Features:

The iRay series of tube lights is an ideal replacement for the conventional T8 fluorescent tube lights with the same form factor and appearance. The performance of the iRay tube light is far better with a 100 lm/W light output and eliminates light loss due to non-optimal distribution in the conventional form. The iRay tube light is an energy efficient solution which aids upto 60% energy saving.

Design:

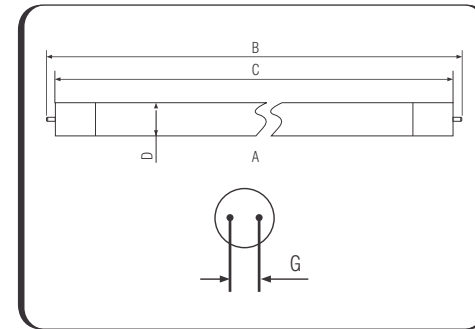
- Light polycarbonate body helps in easier and safer installation and transportation.
- Environment friendly with no mercury and no glass.
- Long Life of 35,000 operating hours at L70.
- Complies to various international norms of safety & performance.

Suggested Fitting:

Product Code	Product Description
BTF901C000	Pharox - BTF - 1x9W Box Type Fitting
BTF902C000	Pharox - BTF - 2x9W Box Type Fitting
BTF181C000	Pharox - BTF - 1x18W Box Type Fitting
BTF182C000	Pharox - BTF - 2x18W Box Type Fitting
BTF241C000	Pharox - BTF - 1x24W Box Type Fitting
BTF242C000	Pharox - BTF - 2x24W Box Type Fitting



iRay+ Series

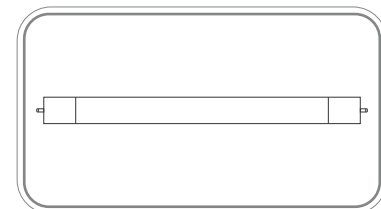
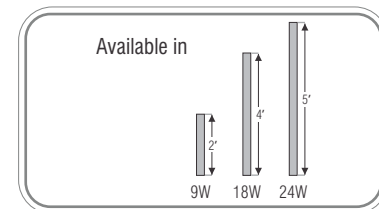
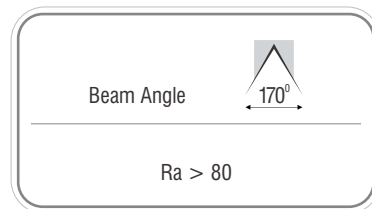


Dimensional Data:

Dimensions	9W	18W	24W
A	600mm	1200mm	1500mm
B	602mm	1212mm	1512mm
C	588mm	1198mm	1498mm
D	26mm	26mm	26mm
G	13mm	13mm	13mm

Product Specifications:

Product Code	Product Description	Power	CCT	Lumens	Power Factor
IRP009C000	Pharox - iRay+ - 9W 2' 6500K Tube Light	9W	6500K	1080lm	>0.90
IRP009N000	Pharox - iRay+ - 9W 2' 4000K Tube Light	9W	4000K	1080lm	>0.90
IRP009W000	Pharox - iRay+ - 9W 2' 3000K Tube Light	9W	3000K	1000lm	>0.90
IRP018C000	Pharox - iRay+ - 18W 4' 6500K Tube Light	18W	6500K	2160lm	>0.90
IRP018N000	Pharox - iRay+ - 18W 4' 4000K Tube Light	18W	4000K	2160lm	>0.90
IRP018W000	Pharox - iRay+ - 18W 4' 3000K Tube Light	18W	3000K	2000lm	>0.90
IRP024C000	Pharox - iRay+ - 24W 5' 6500K Tube Light	24W	6500K	2880lm	>0.90
IRP024N000	Pharox - iRay+ - 24W 5' 4000K Tube Light	24W	4000K	2880lm	>0.90
IRP024W000	Pharox - iRay+ - 24W 5' 3000K Tube Light	24W	3000K	2664lm	>0.90



Features:

The iRay+ series of tube lights is an ideal replacement for the conventional T8 fluorescent tube lights with the same form factor and appearance. The performance of the iRay+ tube light adds an extra punch in light output with its best-in-class 120 lm/W and eliminates light loss due to non-optimal distribution in the conventional form. The iRay+ tube light is an energy efficient solution which aids upto 60% energy saving.

Design:

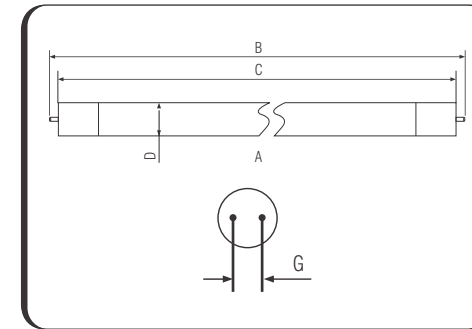
- Light polycarbonate body helps in easier and safer installation and transportation.
- Best-in-class efficacy of 120 lm/W, delivering highest light output.
- Long Life of 35,000 operating hours at L70.
- Complies to various international norms of safety & performance.

Suggested Fitting:

Product Code	Product Description
BTF901C000	Pharox - BTF - 1x9W Box Type Fitting
BTF902C000	Pharox - BTF - 2x9W Box Type Fitting
BTF181C000	Pharox - BTF - 1x18W Box Type Fitting
BTF182C000	Pharox - BTF - 2x18W Box Type Fitting
BTF241C000	Pharox - BTF - 1x24W Box Type Fitting
BTF242C000	Pharox - BTF - 2x24W Box Type Fitting



iRay PRO Series

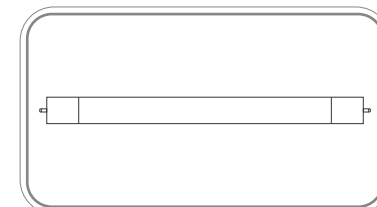
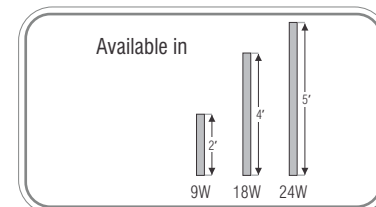
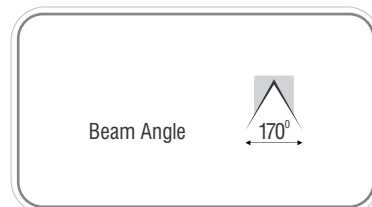


Dimensional Data:

Dimensions	9W	18W	24W
A	600mm	1200mm	1500mm
B	602mm	1212mm	1512mm
C	588mm	1198mm	1498mm
D	26mm	26mm	26mm
G	13mm	13mm	13mm

Product Specifications:

Product Code	Product Description	Power	CCT	Lumens	Power Factor
IRR009C000	Pharox - iRay PRO - 9W 2' 6500K Tube Light	9W	6500K	900lm	>0.90
IRR009N000	Pharox - iRay PRO - 9W 2' 4000K Tube Light	9W	4000K	900lm	>0.90
IRR009W000	Pharox - iRay PRO - 9W 2' 3000K Tube Light	9W	3000K	850lm	>0.90
IRR018C000	Pharox - iRay PRO - 18W 4' 6500K Tube Light	18W	6500K	1800lm	>0.90
IRR018N000	Pharox - iRay PRO - 18W 4' 4000K Tube Light	18W	4000K	1800lm	>0.90
IRR018W000	Pharox - iRay PRO - 18W 4' 3000K Tube Light	18W	3000K	1700lm	>0.90
IRR024C000	Pharox - iRay PRO - 24W 5' 6500K Tube Light	24W	6500K	2400lm	>0.90
IRR024N000	Pharox - iRay PRO - 24W 5' 4000K Tube Light	24W	4000K	2400lm	>0.90
IRR024W000	Pharox - iRay PRO - 24W 5' 3000K Tube Light	24W	3000K	2256lm	>0.90



Features:

The specially designed iRay PRO series of tube lights is an ideal replacement for the conventional fluorescent high CRI tubes. The performance of the iRay PRO tube light is far better with a 100 lm/W light output and eliminates light loss due to non-optimal distribution in the conventional form. With its best-in-class CRI of >90, the iRay PRO is ideally suited for applications where colour distinction is important. This tube light shall be the best solution for Textile Mills, Retail Outlets or Automobile Paint Shops.

Design:

- Best-in-class colour rendering of >90.
- Environment friendly with no mercury and no glass.
- Long Life of 35,000 operating hours at L70.
- Light polycarbonate body helps in easier and safer installation and transportation.
- Complies to various international norms of safety & performance.

Suggested Fitting:

Product Code	Product Description
BTF901C000	Pharox - BTF - 1x9W Box Type Fitting
BTF902C000	Pharox - BTF - 2x9W Box Type Fitting
BTF181C000	Pharox - BTF - 1x18W Box Type Fitting
BTF182C000	Pharox - BTF - 2x18W Box Type Fitting
BTF241C000	Pharox - BTF - 1x24W Box Type Fitting
BTF242C000	Pharox - BTF - 2x24W Box Type Fitting

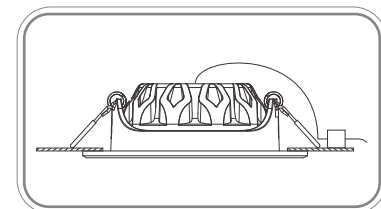
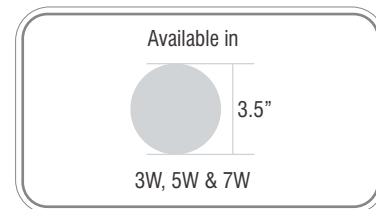
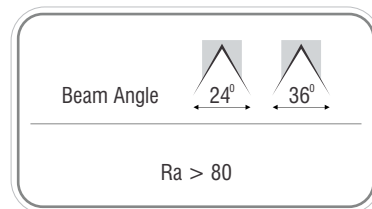


Spot Light

ORION
ENZO



Orion Series



Features:

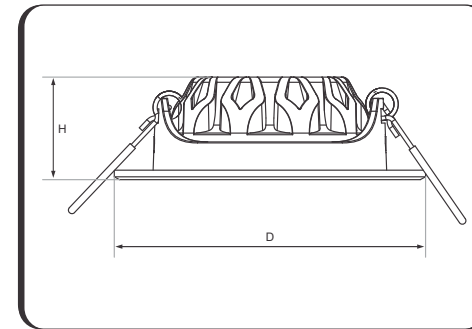
Orion spot light series is a creation par excellence. This range of pivoted LED spot lights is crafted to create that perfect accent and ambient lighting effect in retail and hospitality application. With the two most sought after beam angles of 24° and 36°, the Orion spot light provides that warm and crisp lighting effect. Boasting of its high performance & tasteful aesthetics, the Orion spot light redefines what lighting can do in the indoor decorative lighting segment.

Design:

- Pressure die cast aluminium body to ensure efficient heat dissipation and long life of the light source.
- Serrated aperture provided for uniform fade out of light.
- Perfect optics to provide crisp and uniform beams.
- Dual spring action clips to provide a perfect ceiling flush without damaging the ceiling.

Dimensional Data:

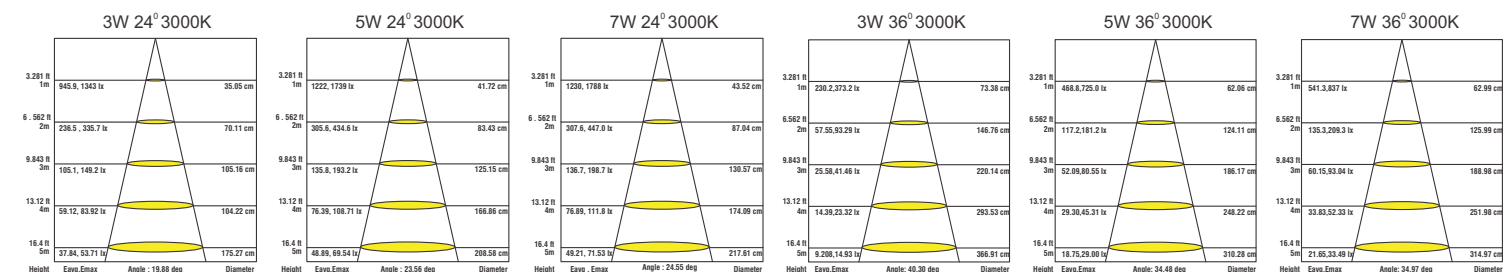
Dimensions	3W	5W	7W
Length (L)	NA	NA	NA
Breadth (B)	NA	NA	NA
Height (H)	30mm	30mm	30mm
Diameter (D)	88mm	88mm	88mm
Cut Out	75mm	75mm	75mm



Product Specifications:

Product Code	Product Description	Power	CCT	Lumens	Beam Angle
ORI003C000	Pharox - Orion -3W 6500K 24° Spot Light	3W	6500K	210lm	24°
ORI003C010	Pharox - Orion -3W 6500K 36° Spot Light	3W	6500K	210lm	36°
ORI003N000	Pharox - Orion -3W 4000K 24° Spot Light	3W	4000K	210lm	24°
ORI003N010	Pharox - Orion -3W 4000K 36° Spot Light	3W	4000K	210lm	36°
ORI003W000	Pharox - Orion -3W 3000K 24° Spot Light	3W	3000K	190lm	24°
ORI003W010	Pharox - Orion -3W 3000K 36° Spot Light	3W	3000K	190lm	36°
ORI005C000	Pharox - Orion -5W 6500K 24° Spot Light	5W	6500K	380lm	24°
ORI005C010	Pharox - Orion -5W 6500K 36° Spot Light	5W	6500K	380lm	36°
ORI005N000	Pharox - Orion -5W 4000K 24° Spot Light	5W	4000K	380lm	24°
ORI005N010	Pharox - Orion -5W 4000K 36° Spot Light	5W	4000K	380lm	36°
ORI005W000	Pharox - Orion -5W 3000K 24° Spot Light	5W	3000K	330lm	24°
ORI005W010	Pharox - Orion -5W 3000K 36° Spot Light	5W	3000K	330lm	36°
ORI007C000	Pharox - Orion -7W 6500K 24° Spot Light	7W	6500K	500lm	24°
ORI007C010	Pharox - Orion -7W 6500K 36° Spot Light	7W	6500K	500lm	36°
ORI007N000	Pharox - Orion -7W 4000K 24° Spot Light	7W	4000K	500lm	24°
ORI007N010	Pharox - Orion -7W 4000K 36° Spot Light	7W	4000K	500lm	36°
ORI007W000	Pharox - Orion -7W 3000K 24° Spot Light	7W	3000K	460lm	24°
ORI007W010	Pharox - Orion -7W 3000K 36° Spot Light	7W	3000K	460lm	36°

Illuminance at distance:

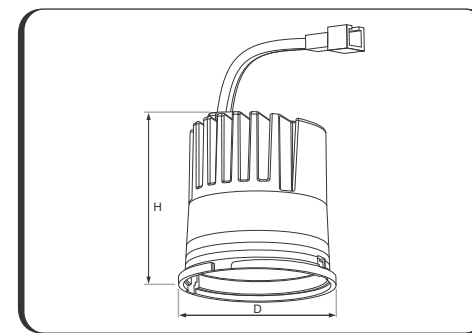


Enzo Series



Dimensional Data:

Dimensions	8W	12W
Length (L)	NA	NA
Breadth (B)	NA	NA
Height (H)	55mm	73mm
Diameter (D)	50mm	50mm



Enzo Accessories:



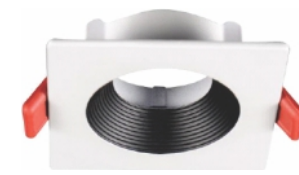
90mm Round Fixed Serrated White Baffle Fixture
Product Code: ENZ000X000
Cut Out: 70mm



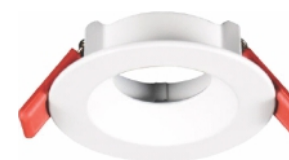
90mm Round Fixed Serrated Black Baffle Fixture
Product Code: ENZ000X010
Cut Out: 70mm



90mm Square Fixed Serrated White Baffle Fixture
Product Code: ENZ000X020
Cut Out: 70mm



90mm Square Fixed Serrated Black Baffle Fixture
Product Code: ENZ000X030
Cut Out: 70mm



90mm Round Fixed White Fixture
Product Code: ENZ000X040
Cut Out: 70mm



90mm Square Fixed White Fixture
Product Code: ENZ000X050
Cut Out: 70mm



90mm Round Fixed Curved Baffle Fixture
Product Code: ENZ000X060
Cut Out: 70mm



90mm Square Fixed Curved Baffle Fixture
Product Code: ENZ000X070
Cut Out: 70mm



110mm Round Tilt White Baffle Fixture
Product Code: ENZ000X080
Cut Out: 90mm



110mm Round Tilt Black Baffle Fixture
Product Code: ENZ000X090
Cut Out: 90mm



110mm Square Tilt White Baffle Fixture
Product Code: ENZ000X100
Cut Out: 90mm



110mm Square Tilt Black Baffle Fixture
Product Code: ENZ000X110
Cut Out: 90mm



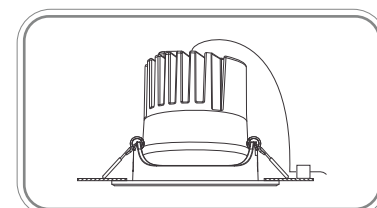
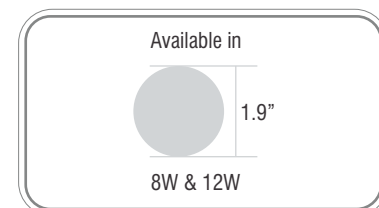
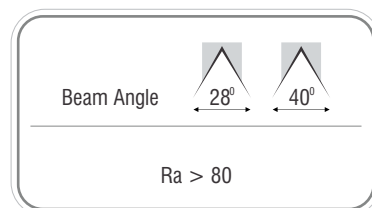
105mm Round Scoop Out White Fixture
Product Code: ENZ000X120
Cut Out: 95mm



85mm Round Deep Recessed Tilt White Fixture
Product Code: ENZ000X130
Cut Out: 75mm



85mm Square Deep Recessed Tilt White Fixture
Product Code: ENZ000X140
Cut Out: 75mmx75mm



Features:

The Enzo spot light is a one stop shop for all your spot lighting needs. Being a benchmark in innovative design, the Enzo spot light module is an energy efficient replacement to the conventional Halogen MR16 lamps. With a choice of different accessories and multiple colour temperatures, this dimmable spot light module proves to be a solution for myriad applications.

Design:

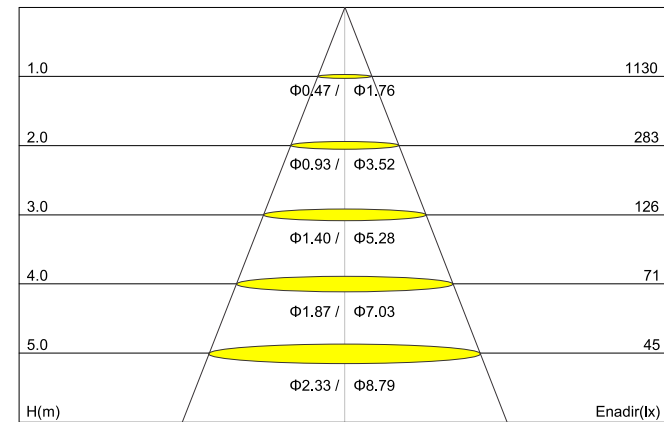
- Dimmable COB LED spot light
- Energy efficient and better light quality.
- Flood or spot distribution gives better lighting control.
- Various aesthetically designed & application specific fixtures to enhance your lighting quality and ceiling décor.

Product Specifications:

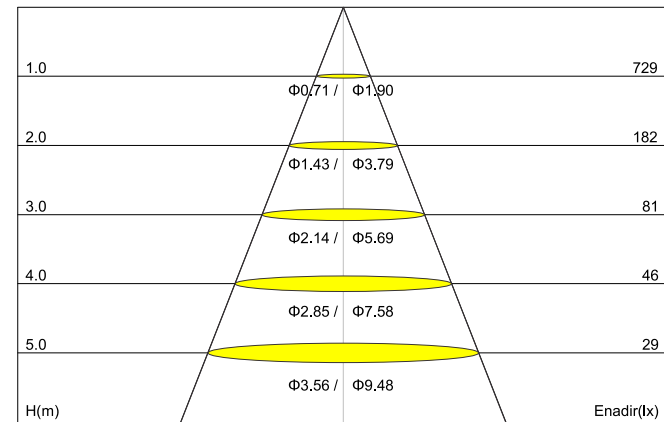
Product Code	Product Description	Power	CCT	Lumens	Beam Angle
ENZ008C010	Pharox - Enzo - 8W 6500K 28° Spot Light	8W	6500K	600lm	28°
ENZ008C020	Pharox - Enzo - 8W 6500K 40° Spot Light	8W	6500K	600lm	40°
ENZ008N010	Pharox - Enzo - 8W 4000K 28° Spot Light	8W	4000K	600lm	28°
ENZ008N020	Pharox - Enzo - 8W 4000K 40° Spot Light	8W	4000K	600lm	40°
ENZ008W010	Pharox - Enzo - 8W 2700K 28° Spot Light	8W	2700K	600lm	28°
ENZ008W020	Pharox - Enzo - 8W 2700K 40° Spot Light	8W	2700K	600lm	40°
ENZ012C010	Pharox - Enzo - 12W 6500K 28° Spot Light	12W	6500K	800lm	28°
ENZ012C020	Pharox - Enzo - 12W 6500K 40° Spot Light	12W	6500K	800lm	40°
ENZ012N010	Pharox - Enzo - 12W 4000K 28° Spot Light	12W	4000K	800lm	28°
ENZ012N020	Pharox - Enzo - 12W 4000K 40° Spot Light	12W	4000K	800lm	40°
ENZ012W010	Pharox - Enzo - 12W 2700K 28° Spot Light	12W	2700K	800lm	28°
ENZ012W020	Pharox - Enzo - 12W 2700K 40° Spot Light	12W	2700K	800lm	40°

Illuminance at distance:

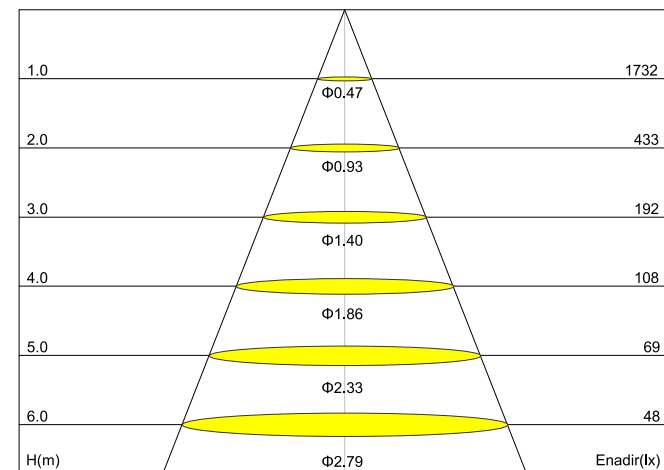
8W 28° 6500K



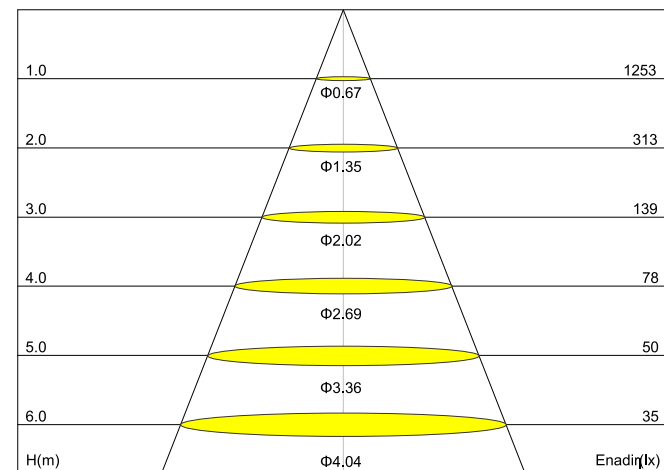
8W 40° 6500K



12W 28° 6500K



12W 40° 6500K

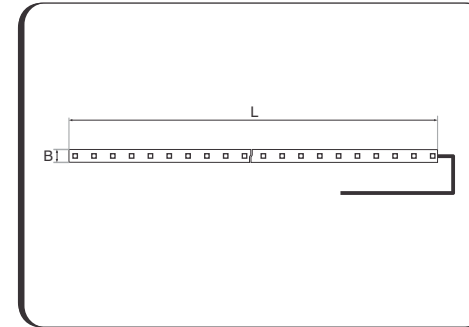


Flexible Strip Light

AURORA INDOOR
AURORA OUTDOOR



Aurora Indoor Series

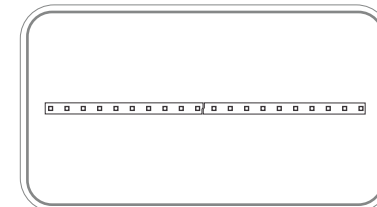
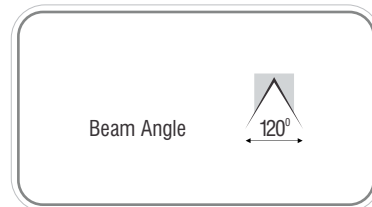


Dimensional Data:

Dimensions	24W	48W
Length (L)	5000mm	5000mm
Breadth (B)	8mm	8mm
Height (H)	NA	NA
No of LEDs/m	60 LEDs/m	120 LEDs/m

Product Specifications:

Product Code	Product Description	Power	CCT	Lumens	Beam Angle	Power Factor
AUI024C000	Pharox - Aurora Indoor - 24W 6500K Flexible Strip Light	24W	6500K	1410lm	120°	NA
AUI024W000	Pharox - Aurora Indoor - 24W 2700K Flexible Strip Light	24W	2700K	1200lm	120°	NA
AUI024R000	Pharox - Aurora Indoor - 24W Red Flexible Strip Light	24W	Red	NA	120°	NA
AUI024B000	Pharox - Aurora Indoor - 24W Blue Flexible Strip Light	24W	Blue	NA	120°	NA
AUI024X000	Pharox 24W IP20 FS Driver	48W	NA	NA	NA	>0.50
AUI048C000	Pharox - Aurora Indoor - 48W 6500K Flexible Strip Light	48W	6500K	2820lm	120°	NA
AUI048W000	Pharox - Aurora Indoor - 48W 2700K Flexible Strip Light	48W	2700K	2400lm	120°	NA
AUI048R000	Pharox - Aurora Indoor - 48W Red Flexible Strip Light	48W	Red	NA	120°	NA
AUI048B000	Pharox - Aurora Indoor - 48W Blue Flexible Strip Light	48W	Blue	NA	120°	NA
AUI048X000	Pharox 48W IP20 FS Driver	72W	NA	NA	NA	>0.50



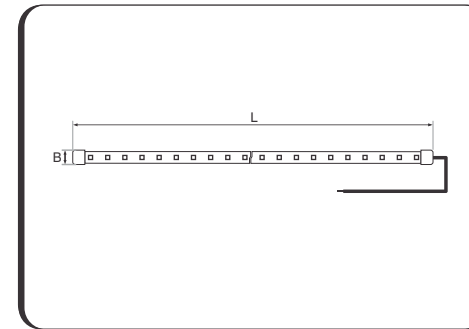
Features:

The Aurora indoor flexible strip as its name suggests adapts to the different shapes of the cove and other decorative pieces giving architectural freedom in design. It enhances the ambience lighting and provides vibrancy to your décor. With an excellent colour consistency, it is a perfect product for creating seamless & soothing lighting effects.

Design:

- Flexible LED strip adapts to all shapes and sizes.
- Self adhesive 3M tape on the back for ease of installation.
- Can be cut after every 6 LEDs to get the desired length.

Aurora Outdoor Series

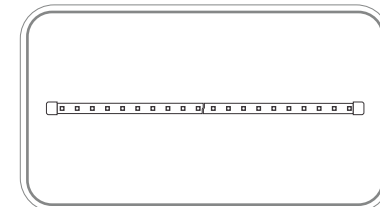
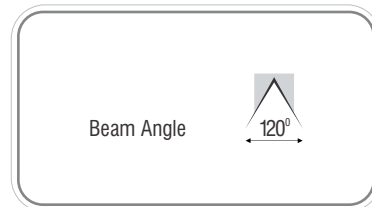


Dimensional Data:

Dimensions	24W	48W
Length (L)	5020mm	5020mm
Breadth (B)	12mm	12mm
Height (H)	NA	NA
No of LEDs/m	60 LEDs/m	120 LEDs/m

Product Specifications:

Product Code	Product Description	Power	CCT	Lumens	Beam Angle	Power Factor
AU0024C000	Pharox - Aurora Outdoor - 24W 6500K Flexible Strip Light	24W	6500K	1269lm	120°	NA
AU0024W000	Pharox - Aurora Outdoor - 24W 2700K Flexible Strip Light	24W	2700K	1077lm	120°	NA
AU0024R000	Pharox - Aurora Outdoor - 24W Red Flexible Strip Light	24W	Red	NA	120°	NA
AU0024B000	Pharox - Aurora Outdoor - 24W Blue Flexible Strip Light	24W	Blue	NA	120°	NA
AU0024X000	Pharox 24W IP67 FS Driver	30W	NA	NA	NA	>0.50
AU0048C000	Pharox - Aurora Outdoor - 48W 6500K Flexible Strip Light	48W	6500K	2538lm	120°	NA
AU0048W000	Pharox - Aurora Outdoor - 48W 2700K Flexible Strip Light	48W	2700K	2155lm	120°	NA
AU0048R000	Pharox - Aurora Outdoor - 48W Red Flexible Strip Light	48W	Red	NA	120°	NA
AU0048B000	Pharox - Aurora Outdoor - 48W Blue Flexible Strip Light	48W	Blue	NA	120°	NA
AU0048X000	Pharox 48W IP67 FS Driver	60W	NA	NA	NA	>0.50



Features:

The Aurora outdoor flexible strip is designed to perform in harsh outdoor conditions. The silica gel inside the tube helps in checking the yellowing effect of the strip light. Along with an excellent color consistency, the IP67 protection makes it a perfect product for creating a seamless and soothing lighting effect even in outdoor applications.

Design:

- Flexible LED strip adapts to all shapes and sizes.
- Self adhesive 3M tape on the back for ease of installation.
- Can be cut after every 6 LEDs to get the desired length.

Street Light

BLAZE
HELIO PLUS



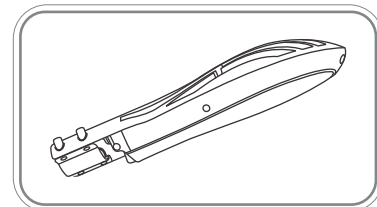
Blaze Series



Beam Angle $120^\circ \times 115^\circ$

Ra > 70

Available in
25W



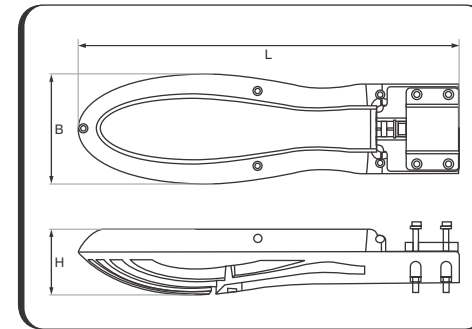
Features:

Blaze is a maintenance-free street light which ensures trouble free operation with the use of a solid-state light source and a high efficiency electronic driver. The unique 'fish' shaped body design with a general spread provides design supremacy along with high performance. The specially designed polycarbonate cover reduces glare and the inverted prism optics spreads light evenly. Blaze becomes your ideal choice for general compound lighting and for roads with small widths.

Design:

- Pressure die cast aluminum housing for rugged applications.
- IP65 ingress protection ensuring its long life and consistent performance in wet & dusty areas of application.
- Impact resistant polycarbonate optical cover.
- Complies to various international norms of safety & performance.

Dimensional Data:

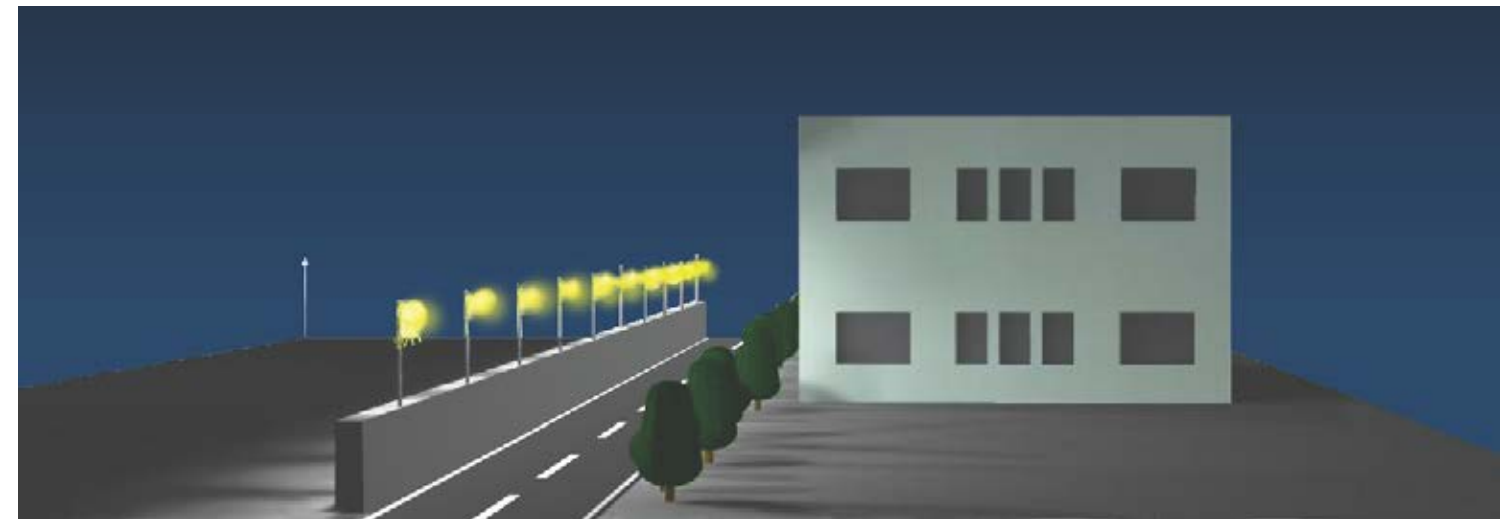


Dimensions	25W
Length (L)	395mm
Breadth (B)	112mm
Height (H)	68mm

Product Specifications:

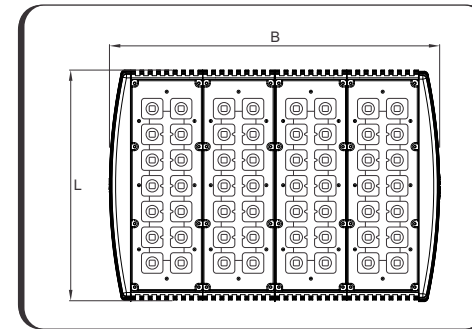
Product Code	Product Description	Power	CCT	Lumens	Beam Angle	Power Factor
BLZ025C000	Pharox - Blaze - 25W 6500K Street Light	25W	6500K	2120lm	General Spread	>0.90
BLZ025W000	Pharox - Blaze - 25W 3000K Street Light	25W	3000K	1900lm	General Spread	>0.90

Performance Guide:



For a road width of 4.5m
 Pole Height: 4.5m
 Pole Spacing: 13.5m (3 x pole height)
 For Average Lux 10-15

Helio Plus Series



Dimensional Data:

Dimensions	40W	80W	120W	160W
Length (L)	305mm	305mm	305mm	305mm
Breadth (B)	152mm	248mm	341mm	436mm
Height (H)	159mm	159mm	159mm	159mm



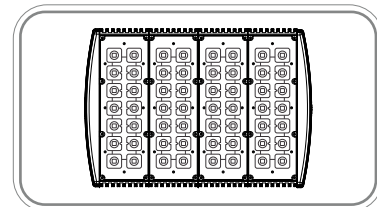
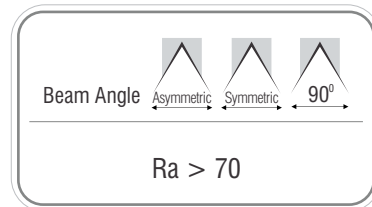
Helio 40W



Helio 80W



Helio Plus 40W



Features:

The Helio plus street light range with its unique modular arrangement is a high performance energy efficient LED light for road lighting applications. With the option of customizing the wattages to achieve the desired lux levels and specially designed optics with highest quality lens for desired coverage, this product can be used in Public areas, Parking lots & Highway lighting applications. The high power factor and an exceptionally high efficacy of >100 lm/W makes it a one stop solution in street lighting applications.

Design:

- Energy efficient bay lighting solution, reducing upto 50% energy consumption.
- High power LEDs delivering >100 lm/W luminous efficacy and a best-in-class uniformity.
- High efficiency drivers makes it a wise choice for street lighting applications.
- IP65 construction for least maintenance and upmost performance in challenging environments.



Helio Plus 80W



Helio Plus 120W



Helio Plus 160W

Product Specifications:

Product Code	Product Description	Power	CCT	Lumens	Beam Angle	Power Factor
NSL7040AC369AC001D	Pharox - Helio - 40W 5700K Asymmetric Street Light	40W	5700K	4000lm	Asymmetric	>0.95
NSL7074AC369AC000D	Pharox - Helio - 80W 5700K Asymmetric Street Light	80W	5700K	8000lm	Asymmetric	>0.95
NSL7074AC36CAC000D	Pharox - Helio - 80W 5700K 90° Street Light	80W	5700K	8000lm	90°	>0.95
HEU040C020	Pharox - Helio Plus - 40W 5700K Asymmetric Street Light	40W	5700K	4000lm	Asymmetric	>0.95
HEU040C030	Pharox - Helio Plus - 40W 5700K Symmetric Street Light	40W	5700K	4000lm	Symmetric	>0.95
HEU040C010	Pharox - Helio Plus - 40W 5700K 90° Street Light	40W	5700K	4000lm	90°	>0.95
HEU040N020	Pharox - Helio Plus - 40W 4000K Asymmetric Street Light	40W	4000K	3850lm	Asymmetric	>0.95
HEU040N030	Pharox - Helio Plus - 40W 4000K Symmetric Street Light	40W	4000K	3850lm	Symmetric	>0.95
HEU040N010	Pharox - Helio Plus - 40W 4000K 90° Street Light	40W	4000K	3850lm	90°	>0.95
HEU040W020	Pharox - Helio Plus - 40W 3000K Asymmetric Street Light	40W	3000K	3700lm	Asymmetric	>0.95
HEU040W030	Pharox - Helio Plus - 40W 3000K Symmetric Street Light	40W	3000K	3700lm	Symmetric	>0.95
HEU040W010	Pharox - Helio Plus - 40W 3000K 90° Street Light	40W	3000K	3700lm	90°	>0.95
HEU080C020	Pharox - Helio Plus - 80W 5700K Asymmetric Street Light	80W	5700K	8000lm	Asymmetric	>0.95
HEU080C030	Pharox - Helio Plus - 80W 5700K Symmetric Street Light	80W	5700K	8000lm	Symmetric	>0.95
HEU080C010	Pharox - Helio Plus - 80W 5700K 90° Street Light	80W	5700K	8000lm	90°	>0.95
HEU080N020	Pharox - Helio Plus - 80W 4000K Asymmetric Street Light	80W	4000K	7700lm	Asymmetric	>0.95
HEU080N030	Pharox - Helio Plus - 80W 4000K Symmetric Street Light	80W	4000K	7700lm	Symmetric	>0.95
HEU080N010	Pharox - Helio Plus - 80W 4000K 90° Street Light	80W	4000K	7700lm	90°	>0.95
HEU080W020	Pharox - Helio Plus - 80W 3000K Asymmetric Street Light	80W	3000K	7400lm	Asymmetric	>0.95
HEU080W030	Pharox - Helio Plus - 80W 3000K Symmetric Street Light	80W	3000K	7400lm	Symmetric	>0.95
HEU080W010	Pharox - Helio Plus - 80W 3000K 90° Street Light	80W	3000K	7400lm	90°	>0.95
HEU120C020	Pharox - Helio Plus - 120W 5700K Asymmetric Street Light	120W	5700K	12000lm	Asymmetric	>0.95
HEU120C030	Pharox - Helio Plus - 120W 5700K Symmetric Street Light	120W	5700K	12000lm	Symmetric	>0.95
HEU120C010	Pharox - Helio Plus - 120W 5700K 90° Street Light	120W	5700K	12000lm	90°	>0.95
HEU120N020	Pharox - Helio Plus - 120W 4000K Asymmetric Street Light	120W	4000K	11550lm	Asymmetric	>0.95
HEU120N030	Pharox - Helio Plus - 120W 4000K Symmetric Street Light	120W	4000K	11550lm	Symmetric	>0.95
HEU120N010	Pharox - Helio Plus - 120W 4000K 90° Street Light	120W	4000K	11550lm	90°	>0.95
HEU120W020	Pharox - Helio Plus - 120W 3000K Asymmetric Street Light	120W	3000K	11100lm	Asymmetric	>0.95
HEU120W030	Pharox - Helio Plus - 120W 3000K Symmetric Street Light	120W	3000K	11100lm	Symmetric	>0.95
HEU120W010	Pharox - Helio Plus - 120W 3000K 90° Street Light	120W	3000K	11100lm	90°	>0.95
HEU160C020	Pharox - Helio Plus - 160W 5700K Asymmetric Street Light	160W	5700K	16000lm	Asymmetric	>0.95
HEU160C030	Pharox - Helio Plus - 160W 5700K Symmetric Street Light	160W	5700K	16000lm	Symmetric	>0.95
HEU160C010	Pharox - Helio Plus - 160W 5700K 90° Street Light	160W	5700K	16000lm	90°	>0.95
HEU160N020	Pharox - Helio Plus - 160W 4000K Asymmetric Street Light	160W	4000K	15400lm	Asymmetric	>0.95
HEU160N030	Pharox - Helio Plus - 160W 4000K Symmetric Street Light	160W	4000K	15400lm	Symmetric	>0.95
HEU160N010	Pharox - Helio Plus - 160W 4000K 90° Street Light	160W	4000K	15400lm	90°	>0.95
HEU160W020	Pharox - Helio Plus - 160W 3000K Asymmetric Street Light	160W	3000K	14800lm	Asymmetric	>0.95
HEU160W030	Pharox - Helio Plus - 160W 3000K Symmetric Street Light	160W	3000K	14800lm	Symmetric	>0.95
HEU160W010	Pharox - Helio Plus - 160W 3000K 90° Street Light	160W	3000K	14800lm	90°	>0.95

Performance Guide:



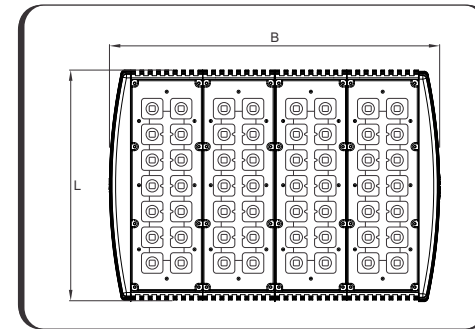
For a road width of 8m
 Pole Height : 8m
 Pole to Pole Distance: 32m (4 x pole height)
 For Average Lux 15-20

Flood Light

FLARE PLUS



Flare Plus Series



Dimensional Data:

Dimensions	40W	80W	120W	160W
Length (L)	305mm	305mm	305mm	305mm
Breadth (B)	152mm	248mm	341mm	436mm
Height (H)	159mm	159mm	159mm	159mm



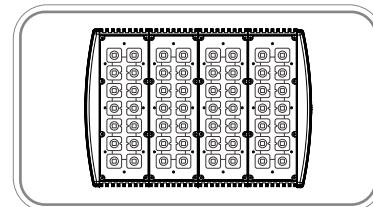
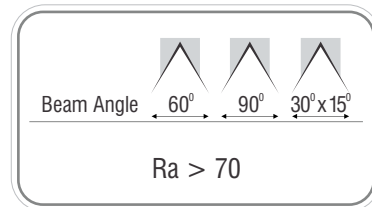
Flare 40W



Flare 80W



Flare Plus 40W



Features:

The Flare plus flood light is an elegantly & intelligently designed luminaire with a modular approach towards lighting design and its requirements. With four wattages and three beam spreads to select from, the Flare plus flood light makes it one powerful luminaire to cater to various applications. Its robust construction using aluminium extrusion and a polycarbonate lens plate makes it a sturdy luminaire for outdoor applications.

Design:

- Energy efficient flood lighting solution, reducing upto 50% energy consumption.
- High power LEDs delivering >100 lm/W luminous efficacy and a best-in-class uniformity.
- High efficiency driver makes it a wise choice for industrial applications.
- IP65 construction for least maintenance and upmost performance in challenging environments.



Flare Plus 80W



Flare Plus 120W



Flare Plus 160W

Product Specifications:

Product Code	Product Description	Power	CCT	Lumens	Beam Angle	Power Factor
NFL7040AC36HAC000D	Pharox - Flare - 40W 5700K 30° x 15° Flood Light	40W	5700K	4000lm	30° x 15°	>0.95
NFL7040AC36EAC000D	Pharox - Flare - 40W 5700K 60° Flood Light	40W	5700K	4000lm	60°	>0.95
NFL7040AC36CAC001D	Pharox - Flare - 40W 5700K 90° Flood Light	40W	5700K	4000lm	90°	>0.95
NFL7080AC36HAW000E	Pharox - Flare - 80W 5700K 30° x 15° Flood Light	80W	5700K	8000lm	30° x 15°	>0.95
NFL7074AC368AC001D	Pharox - Flare - 80W 5700K 90° Flood Light	80W	5700K	8000lm	90°	>0.95
FLU040C040	Pharox - Flare Plus - 40W 5700K 30° x 15° Flood Light	40W	5700K	4000lm	30° x 15°	>0.95
FLU040C000	Pharox - Flare Plus - 40W 5700K 60° Flood Light	40W	5700K	4000lm	60°	>0.95
FLU040C010	Pharox - Flare Plus - 40W 5700K 90° Flood Light	40W	5700K	4000lm	90°	>0.95
FLU040N040	Pharox - Flare Plus - 40W 4000K 30° x 15° Flood Light	40W	4000K	3850lm	30° x 15°	>0.95
FLU040N000	Pharox - Flare Plus - 40W 4000K 60° Flood Light	40W	4000K	3850lm	60°	>0.95
FLU040N010	Pharox - Flare Plus - 40W 4000K 90° Flood Light	40W	4000K	3850lm	90°	>0.95
FLU040W040	Pharox - Flare Plus - 40W 3000K 30° x 15° Flood Light	40W	3000K	3700lm	30° x 15°	>0.95
FLU040W000	Pharox - Flare Plus - 40W 3000K 60° Flood Light	40W	3000K	3700lm	60°	>0.95
FLU040W010	Pharox - Flare Plus - 40W 3000K 90° Flood Light	40W	3000K	3700lm	90°	>0.95
FLU080C040	Pharox - Flare Plus - 80W 5700K 30° x 15° Flood Light	80W	5700K	8000lm	30° x 15°	>0.95
FLU080C000	Pharox - Flare Plus - 80W 5700K 60° Flood Light	80W	5700K	8000lm	60°	>0.95
FLU080C010	Pharox - Flare Plus - 80W 5700K 90° Flood Light	80W	5700K	8000lm	90°	>0.95
FLU080N040	Pharox - Flare Plus - 80W 4000K 30° x 15° Flood Light	80W	4000K	7700lm	30° x 15°	>0.95
FLU080N000	Pharox - Flare Plus - 80W 4000K 60° Flood Light	80W	4000K	7700lm	60°	>0.95
FLU080N010	Pharox - Flare Plus - 80W 4000K 90° Flood Light	80W	4000K	7700lm	90°	>0.95
FLU080W040	Pharox - Flare Plus - 80W 3000K 30° x 15° Flood Light	80W	3000K	7400lm	30° x 15°	>0.95
FLU080W000	Pharox - Flare Plus - 80W 3000K 60° Flood Light	80W	3000K	7400lm	60°	>0.95
FLU080W010	Pharox - Flare Plus - 80W 3000K 90° Flood Light	80W	3000K	7400lm	90°	>0.95
FLU120C040	Pharox - Flare Plus - 120W 5700K 30° x 15° Flood Light	120W	5700K	12000lm	30° x 15°	>0.95
FLU120C000	Pharox - Flare Plus - 120W 5700K 60° Flood Light	120W	5700K	12000lm	60°	>0.95
FLU120C010	Pharox - Flare Plus - 120W 5700K 90° Flood Light	120W	5700K	12000lm	90°	>0.95
FLU120N040	Pharox - Flare Plus - 120W 4000K 30° x 15° Flood Light	120W	4000K	11550lm	30° x 15°	>0.95
FLU120N000	Pharox - Flare Plus - 120W 4000K 60° Flood Light	120W	4000K	11550lm	60°	>0.95
FLU120N010	Pharox - Flare Plus - 120W 4000K 90° Flood Light	120W	4000K	11550lm	90°	>0.95
FLU120W040	Pharox - Flare Plus - 120W 3000K 30° x 15° Flood Light	120W	3000K	11100lm	30° x 15°	>0.95
FLU120W000	Pharox - Flare Plus - 120W 3000K 60° Flood Light	120W	3000K	11100lm	60°	>0.95
FLU120W010	Pharox - Flare Plus - 120W 3000K 90° Flood Light	120W	3000K	11100lm	90°	>0.95
FLU160C040	Pharox - Flare Plus - 160W 5700K 30° x 15° Flood Light	160W	5700K	16000lm	30° x 15°	>0.95
FLU160C000	Pharox - Flare Plus - 160W 5700K 60° Flood Light	160W	5700K	16000lm	60°	>0.95
FLU160C010	Pharox - Flare Plus - 160W 5700K 90° Flood Light	160W	5700K	16000lm	90°	>0.95
FLU160N040	Pharox - Flare Plus - 160W 4000K 30° x 15° Flood Light	160W	4000K	15400lm	30° x 15°	>0.95
FLU160N000	Pharox - Flare Plus - 160W 4000K 60° Flood Light	160W	4000K	15400lm	60°	>0.95
FLU160N010	Pharox - Flare Plus - 160W 4000K 90° Flood Light	160W	4000K	15400lm	90°	>0.95
FLU160W040	Pharox - Flare Plus - 160W 3000K 30° x 15° Flood Light	160W	3000K	14800lm	30° x 15°	>0.95
FLU160W000	Pharox - Flare Plus - 160W 3000K 60° Flood Light	160W	3000K	14800lm	60°	>0.95
FLU160W010	Pharox - Flare Plus - 160W 3000K 90° Flood Light	160W	3000K	14800lm	90°	>0.95

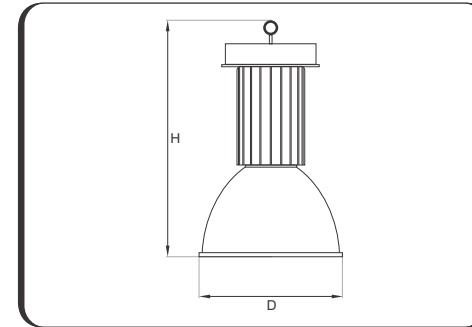


Bay Light

NIMBUS PERFORM
NIMBUS STAR
NIMBUS PLUS



Nimbus Perform Series



Dimensional Data:

Dimensions	100W	150W	200W
Length (L)	NA	NA	NA
Breadth (B)	NA	NA	NA
Height (H)	550mm	606mm	606mm
Diameter (D)	374mm	488mm	488mm

Product Specifications:

Product Code	Product Description	Power	CCT	Lumens	Beam Angle	Power Factor
NPH100C000	Pharox - Nimbus - Perform - 100W 5700K 60° Bay Light	100W	5700K	10000lm	60°	>0.95
NPH150C000	Pharox - Nimbus - Perform - 150W 5700K 80° Bay Light	150W	5700K	15000lm	80°	>0.95
NPH200C000	Pharox - Nimbus - Perform - 200W 5700K 90° Bay Light	200W	5700K	20000lm	90°	>0.95

Performance Guide: Watts/m²

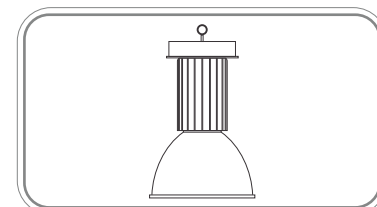
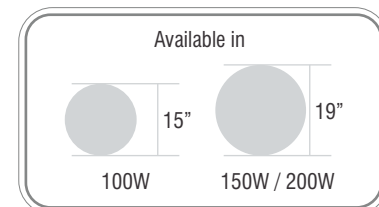
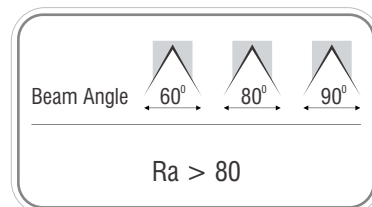
Ht. (mtrs)	Lux Level*		
	200	150	100
12	4.50	3.50	2.28
10	4.38	3.15	2.25
8	3.92	2.85	2.15

Reflectances:	
Ceiling	80%
Floor	20%
Walls	50%

Light Loss Factor: 0.8

Lumens: 10000lm

* For 100W CW 60° luminaire
Data available on request for other variants



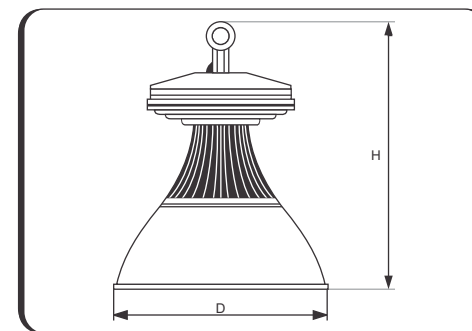
Features:

Living upto the legend Nimbus, the new Nimbus Perform is designed as a replacement for HPSV 250W/400W luminaires. Nimbus Perform offers superior light quality, more operating hours and reduced energy consumption and maintenance. The light guiding attachment over the Chip-On-Board (COB) provides better uniformity. Also being lighter than conventional luminaires, it is very easy to handle making it a perfect industrial lighting solution.

Design:

- Luminous efficacy > 100 lm/W.
- Energy efficient solution, reducing upto 50% energy consumption.
- Light guiding attachment for that perfect uniformity in illumination.
- High efficiency driver makes it a wise choice for industrial applications.
- IP65 construction for least maintainence and upmost performance in challenging environments.

Nimbus Star Series



Dimensional Data:

Dimensions	100W	150W	200W
Length (L)	NA	NA	NA
Breadth (B)	NA	NA	NA
Height (H)	487mm	487mm	487mm
Diameter (D)	392mm	392mm	392mm

Product Specifications:

Product Code	Product Description	Power	CCT	Lumens	Beam Angle	Power Factor
NSH090C001	Pharox - Nimbus Star - 90W 5700K 80° Bay Light	90W	5700K	8550lm	80°	>0.90
NSH150C001	Pharox - Nimbus Star - 150W 5700K 80° Bay Light	150W	5700K	14250lm	80°	>0.90
NSH210C001	Pharox - Nimbus Star - 210W 5700K 80° Bay Light	210W	5700K	19950lm	80°	>0.90

Performance Guide: Watts/m²

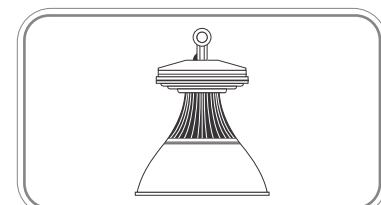
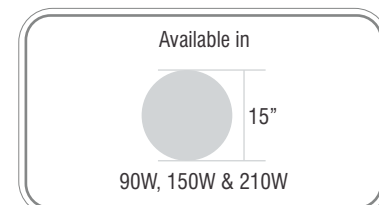
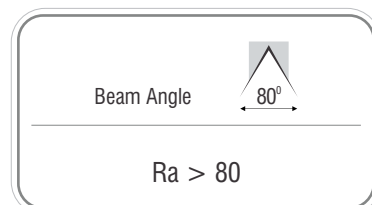
Ht. (mtrs)	Lux Level*		
	200	150	100
14	3.65	2.90	1.76
12	3.38	2.61	1.52
10	3.02	2.29	1.33

Reflectances:	
Ceiling	80%
Floor	20%
Walls	50%

Light Loss Factor: 0.8

Lumens: 14250lm

* For 150W CW 80° luminaire
Data available on request for other variants



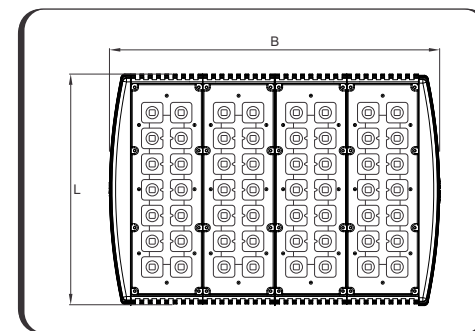
Features:

The Nimbus Star high bay light is a landmark in design and performance in the industrial lighting luminaires category. With an excellent luminous efficacy and a satin finish reflector for perfect distribution, Nimbus Star holds the pole position in its category. Its unique heat sink design also makes it a perfect solution for indoor commercial applications such as atriums in malls and food courts.

Design:

- Energy efficient solution reducing upto 50% energy consumption.
- High power LEDs delivering excellent luminous efficacy and a best-in-class uniformity.
- High efficiency driver makes it a wise choice for industrial applications.
- IP65 construction for least maintenance and upmost performance in challenging environments.

Nimbus Plus Series



Dimensional Data:

Dimensions	40W	80W	120W	160W
Length (L)	305mm	305mm	305mm	305mm
Breadth (B)	152mm	248mm	341mm	436mm
Height (H)	159mm	159mm	159mm	159mm



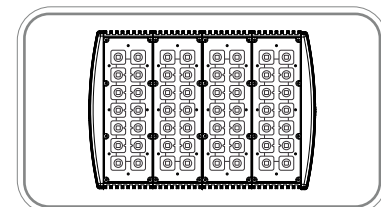
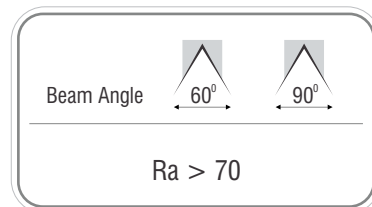
Nimbus 40W



Nimbus 80W



Nimbus Plus 40W



Features:

The Nimbus Plus bay lights have been designed keeping a modular approach towards lighting design and its requirements. Scaling the wattages helps achieve the desired lux levels in the industrial shop floor and warehouse lighting applications. With four wattages and two beam spreads to select from, the Nimbus Plus bay light is one of the powerful luminaires in the industrial lighting category. Its robust construction using aluminium extrusion and a polycarbonate lens plate makes it a luminaire that is easy to install and maintain.

Design:

- Energy efficient bay lighting solution reducing up to 50% energy consumption.
- High power LEDs delivering >100 lm/W luminous efficacy and a best-in-class uniformity.
- High efficiency driver makes it a wise choice for industrial applications.
- IP65 construction for least maintenance and upmost performance in challenging environments.



Nimbus Plus 80W



Nimbus Plus 120W



Nimbus Plus 160W

Product Specifications:

Product Code	Product Description	Power	CCT	Lumens	Beam Angle	Power Factor
NHB7037AC36CAC000D	Pharox - Nimbus - 40W 5700K 90° Bay Light	40W	5700K	4000lm	90°	> 0.95
NHB7074AC36EAC000D	Pharox - Nimbus - 80W 5700K 60° Bay Light	80W	5700K	8000lm	60°	> 0.95
NHB7074AC36CAC000D	Pharox - Nimbus - 80W 5700K 90° Bay Light	80W	5700K	8000lm	90°	> 0.95
NIU040C000	Pharox - Nimbus Plus - 40W 5700K 60° Bay Light	40W	5700K	4000lm	60°	> 0.95
NIU040C010	Pharox - Nimbus Plus - 40W 5700K 90° Bay Light	40W	5700K	4000lm	90°	> 0.95
NIU040N000	Pharox - Nimbus Plus - 40W 4000K 60° Bay Light	40W	4000K	3850lm	60°	> 0.95
NIU040N010	Pharox - Nimbus Plus - 40W 4000K 90° Bay Light	40W	4000K	3850lm	90°	> 0.95
NIU040W000	Pharox - Nimbus Plus - 40W 3000K 60° Bay Light	40W	3000K	3700lm	60°	> 0.95
NIU040W010	Pharox - Nimbus Plus - 40W 3000K 90° Bay Light	40W	3000K	3700lm	90°	> 0.95
NIU080C000	Pharox - Nimbus Plus - 80W 5700K 60° Bay Light	80W	5700K	8000lm	60°	> 0.95
NIU080C010	Pharox - Nimbus Plus - 80W 5700K 90° Bay Light	80W	5700K	8000lm	90°	> 0.95
NIU080N000	Pharox - Nimbus Plus - 80W 4000K 60° Bay Light	80W	4000K	7700lm	60°	> 0.95
NIU080N010	Pharox - Nimbus Plus - 80W 4000K 90° Bay Light	80W	4000K	7700lm	90°	> 0.95
NIU080W000	Pharox - Nimbus Plus - 80W 3000K 60° Bay Light	80W	3000K	7400lm	60°	> 0.95
NIU080W010	Pharox - Nimbus Plus - 80W 3000K 90° Bay Light	80W	3000K	7400lm	90°	> 0.95
NIU120C000	Pharox - Nimbus Plus - 120W 5700K 60° Bay Light	120W	5700K	12000lm	60°	> 0.95
NIU120C010	Pharox - Nimbus Plus - 120W 5700K 90° Bay Light	120W	5700K	12000lm	90°	> 0.95
NIU120N000	Pharox - Nimbus Plus - 120W 4000K 60° Bay Light	120W	4000K	11550lm	60°	> 0.95
NIU120N010	Pharox - Nimbus Plus - 120W 4000K 90° Bay Light	120W	4000K	11550lm	90°	> 0.95
NIU120W000	Pharox - Nimbus Plus - 120W 3000K 60° Bay Light	120W	3000K	11100lm	60°	> 0.95
NIU120W010	Pharox - Nimbus Plus - 120W 3000K 90° Bay Light	120W	3000K	11100lm	90°	> 0.95
NIU160C000	Pharox - Nimbus Plus - 160W 5700K 60° Bay Light	160W	5700K	16000lm	60°	> 0.95
NIU160C010	Pharox - Nimbus Plus - 160W 5700K 90° Bay Light	160W	5700K	16000lm	90°	> 0.95
NIU160N000	Pharox - Nimbus Plus - 160W 4000K 60° Bay Light	160W	4000K	15400lm	60°	> 0.95
NIU160N010	Pharox - Nimbus Plus - 160W 4000K 90° Bay Light	160W	4000K	15400lm	90°	> 0.95
NIU160W000	Pharox - Nimbus Plus - 160W 3000K 60° Bay Light	160W	3000K	14800lm	60°	> 0.95
NIU160W010	Pharox - Nimbus Plus - 160W 3000K 90° Bay Light	160W	3000K	14800lm	90°	> 0.95

Performance Guide: Watts/m²

Ht. (mtrs)	Lux Level*		
	200	150	100
12	3.24	2.48	1.65
10	3.02	2.21	1.56
8	2.78	2.06	1.36

Reflectances:	
Ceiling	80%
Floor	20%
Walls	50%

Light Loss Factor: 0.8

Lumens: 7600lm

* For 80W CW 90° luminaire
Data available on request for other variants

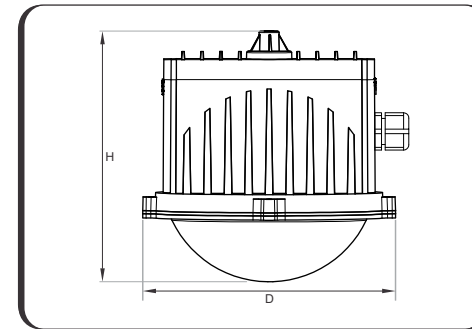


Well Glass Light

WARHORSE



Warhorse Series



Dimensional Data:

Dimensions	40W
Length (L)	NA
Breadth (B)	NA
Height (H)	188mm
Diameter (D)	120mm
Cut Out	NA

Product Specifications:

Product Code	Product Description	Power	CCT	Lumens	Power Factor
WWG040C000	Pharox - Warhorse - 40W 5700K Clear* Well Glass Light	40W	5700K	4000lm	>0.95

*Opal Dome also available on request

Performance Guide: Watts/m²

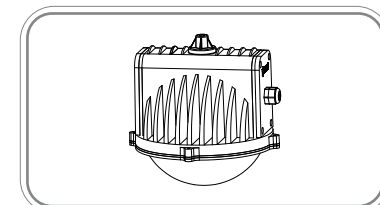
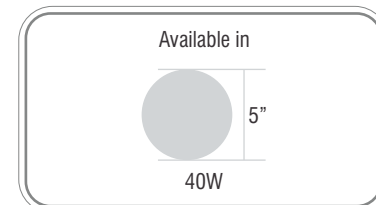
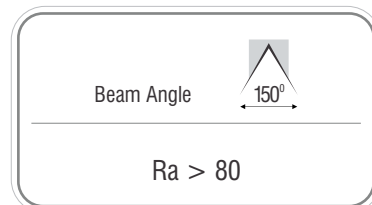
Ht. (mtrs)	Lux Level*		
	200	150	100
6	4.02	3.20	2.00
5	3.26	2.40	1.60
4	3.20	2.02	1.56

Reflectances:	
Ceiling	80%
Floor	20%
Walls	50%

Light Loss Factor: 0.8

Lumens: 4000lm

* For 40W CW Luminaire
Data available on request for other variants



Features:

As the name suggests, the Warhorse is a robust and dependable industrial general lighting solution. It's an innovative replacement for the conventional HPSV well glass luminaire, delivering the same lighting levels in a reduced size with even better performance. Embracing LED technology, the Warhorse confirms over 40% energy savings and is low on maintenance compared to its conventional counterparts.

Design:

- Pressure die cast aluminum housing for rugged applications.
- IP65 ingress protection ensuring its long life and consistent performance in dusty areas of application.
- Impact resistant polycarbonate optical dome cover eliminates the common problem of glass breakage at installation site.
- Complies to various international norms of safety & performance.
- Efficient electronics aid its excellent performance.

Brief LED Glossary

Average lamp life

Average lamp life is an average of the lives of individual lamps operated under standard conditions. LED products have extremely long lives. However, their light output diminishes over time. Pharox defines the lifetime of its LED luminaire as the operating time in which the LED luminaire produces more than 70% of their initial light output.

Beam angle

Beam angle indicates how broadly the light is emitted from the luminaire and is defined as the angle between two lines that extend from the LED luminaire and intersect at the points where luminous intensity is 50% of its maximum value.

Binning

In the production of modern high-output LEDs, manufacturing tolerances are unavoidable even with the smallest fluctuations in the parameters. The semiconductors are, therefore, sorted and classified after production according to their color values and efficiencies. All the LEDs that have similar values are placed in the same bin. The narrower the tolerances the greater the quality of systems that consist of more than one LED.

Candela

Candela is the photometric SI base unit for luminous intensity and is the luminous flux emitted by a light source in a particular direction (the luminous flux lm emitted in a particular direction in a solid angle sr). The symbol is cd .

Color spectrum & definition of color temperature

The color spectrum is that part of the electromagnetic spectrum that can be perceived

by the human eye without any technical aids (approx. 380 to 750 nm). The color temperature is a measure of the color impression of a light source measured in kelvin (K). For LED luminaires, the color temperature typically ranges from 2200K to 6500K.

CRI (Color Rendering Index)

CRI indicates the quality of color rendering of artificial light sources. The symbol used is R_a . The maximum value is 100, which means no falsification of colors by the light source. Incandescent lamps can achieve this value. LED products have a typical value of 80, but can achieve 90 and more.

Dimmability

The Pharox range includes dimmable LED products. Dimming these luminaires can save even more energy and gives you flexibility and control over the luminaire performance. The luminaire will deliver excellent dimming performance when paired with a compatible dimmer.

Heat Sink

Heat Sink is the enclosure that serves to remove/radiate the heat from the LED luminaire. Materials with good thermal conductivity are used here to transfer the heat generated inside the luminaire to the surrounding air.

Infrared radiation

Infrared radiation comprises electromagnetic waves in the spectral range between visible light and long-wave terahertz radiation. High doses of near infrared radiation in particular with a wavelength of 780 to 3000 nm penetrates deep into and under human skin and can lead to health problems.

LED

Light Emitting Diode is an electronic semiconductor component. If current flows through the diode it emits light with a wavelength that depends on the semiconductor material.

Lens

A lens is an optical component with two refractive surfaces, at least one of which is either convex or concave. In LED luminaire the function of a lens is to focus or disperse the light and therefore define the beam angle.

Lumen

Lumen is the photometric unit of luminous flux. Luminous flux is a measure of the entire visible radiation emitted by a radiation source. 'Cold lumens' is the light output of the LED chip alone when it is first switched on. 'Hot lumens' refers to the light output of the LED when it is fully warmed up in the luminaire. The hot lumen value may be 30-50% lower than the cold lumen value.

Recycling

Pharox LED products are extremely durable and do not contain any mercury. However, because they contain electronic components, they must be disposed of as waste electrical and electronic equipment at the end of their life.

Resistance to switching transients

LED products cannot be switched on and off indefinitely. Pharox LED products can tolerate typically around 1,00,000 switching cycles and more.

TCO (Total Cost of Ownership)

TCO includes all the costs over the entire life of a product or for a particular operating time. It covers procurement costs, replacement costs and

operating costs (power). LED products now pay for themselves through their long life and low power consumption.

Thermal output

In contrast to conventional light sources, LEDs convert a high proportion of electrical power into visible light. However, even with modern LED products, a large proportion of the energy consumed is emitted in (unwanted) heat. Nevertheless, there is enormous potential in LED technology for reducing this still further (see also Heat Sink).

UV radiation

UV radiation is electromagnetic radiation that is invisible to the naked eye and may cause health problems. Pharox LED products do not emit any UV radiation.

Watt

Watt is the SI unit of power and is used for incandescent lamps as an indication of their light output. Since modern energy-saving lamps and LED product consume far less power to achieve the same brightness, the wattage is no longer as meaningful. The lumen value is now used instead.

INGRESS PROTECTION REFERENCE CHART

DEGREE OF PROTECTION

First Characteristic Numeral	Description	Short Definition
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Degree of protection indicated by the first characteristic numeral (DUST PROTECTION)

0	Non-Protected	No special protection.
1	Protected against solid objects greater than 50mm	A large surface of the body, such as a hand (but no protection against deliberate access). Solid objects exceeding 50mm diameter.
2	Protected against solid objects greater than 12mm	Finger or similar objects not exceeding 80mm in length. Solid objects exceeding 12mm in diameter.
3	Protected against solid objects greater than 2.5mm	Tools, wires, etc. of diameter or thickness greater than 2.5mm. Solid objects exceeding 2.5mm in diameter.
4	Protected against solid objects greater than 1.0mm	Wires or strips of thickness greater than 1.0mm. Solid objects exceeding 1.0mm in diameter.
5	Dust protected	Ingress of dust is not totally prevented, but dust does not enter in sufficient quantity to interfere with satisfactory operation of the equipment.
6	Dust tight	No ingress of dust.

Degree of protection indicated by the second characteristic numeral (MOISTURE PROTECTION)

0	Non-Protected	No special protection.
1	Protected against dripping water	Dripping water (vertically falling drops) shall have no harmful effect.
2	Protected against dripping water when tilted up to 15°	Vertically falling drops shall have no harmful effect when the object is tilted to any angle up to 15° from its normal position.
3	Protected against spraying water	Water falling as a spray at an angle up to 60° from the vertical shall have no harmful effect.
4	Protected against splashing water	Water splashed against the enclosure from any direction shall have no harmful effect.
5	Protected against water jets	Water projected by a nozzle against the enclosure from any direction shall have no harmful effect.
6	Protected against heavy seas	Water from heavy seas or water projected in heavy jets shall not enter the enclosure in harmful quantities.
7	Protected against the effect of immersion	Ingress of water in a harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time.
8	Protected against submersion	The equipment is suitable for continuous submersion in water under conditions which shall be specified by the manufacturer. Note: Normally this will mean that the equipment is hermetically sealed. However, with certain types of equipment, it can mean that water can enter but only in such a manner that it produces no harmful effects.

Achievements



Bronze Trophy Winner at 'The ET ACETECH Design Wall 2013', Mumbai



ELCINA-EFY Award for **Outstanding Achievement in Business Excellence** for the Year 2011-12



'Preferred Supplier' at the Clinton Climate initiative



The **'Lighting Africa 2009 Award'** (Solar LED) by World Bank



Ranked **Amongst top 100 Global Clean Tech Companies** in 2009 & 2011



Chosen to be amongst the top 10 **'most innovative consumer goods companies'** by Fast Company in 2010 & 2012



The **'Technology Pioneer 2009 Award'** by WEF

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