Focus Series

Cygnus

SPECIFICATION SHEET

Directional high-quality track and surface spotlight with versatile mounting options

Based upon a sleek, central design, the Cygnus family provides economical, yet highly versatile light wherever you need it. An array of customisable options allow the end-user to tailor the product to each individual application without compromise. The Cygnus range seamlessly integrates with the GDS DriveHub system with a range of drive and power options.

Key features

- Compact aluminium housing
- Spotlight and tracklight options
- Various output options from 15W to 42W
- 2700K, 3000K, 4000K, FTW or Tunable CCT (2700-6000K)
- 80/90/97 CRI options
- 15° to 60° beam angle options
- Toolless adjustable zoom options (15-60°)
- Extra low glare recessed optics.
- Track-mount driver option
- Non-Dim, DALI, Local, IPM & IPM^2 driver options
- CE compliant, RoHS
- 5 Year warranty
- Black, white or custom RAL finishes

sales@gds.uk.com
+44 (0)117 325 0063
www.gds.uk.com

GDS Pioneering Light Limited
United Kingdom

Doc: 270 • Release 1.0b
May 2023

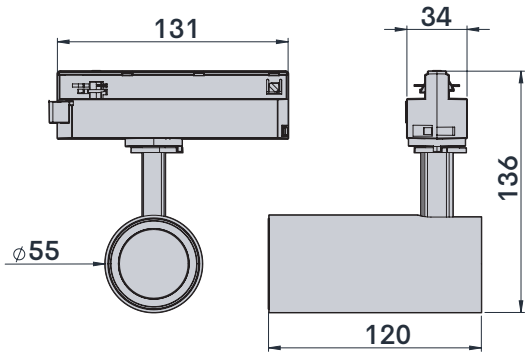
Track Driver Option

Specifications

Output:	Up to 4516 lm (4K @4000K, 36°, 90CRI)
CCT:	2700K, 3000K, 4000K or 3000K FTW
Beam widths:	15, 24, 36 or 60 degrees
Input power:	15-38W
Track Voltage:	220V AC
Efficacy:	Up to 121 lm/W (1K @4000K, 24°, 90CRI)
CRI (Ra):	90 or 97
SDCM:	3-step MacAdam ellipse
UGR:	<19
Lifetime:	50,000 hours (L_{80} B_{20})
IP rating:	IP20
Driver options:	Non-Dim, Mains Dim, DALI
Warranty:	5 years
Body finish:	White, black or custom

Dimensions

1K



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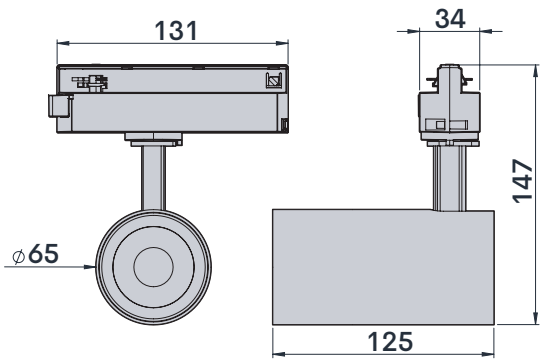

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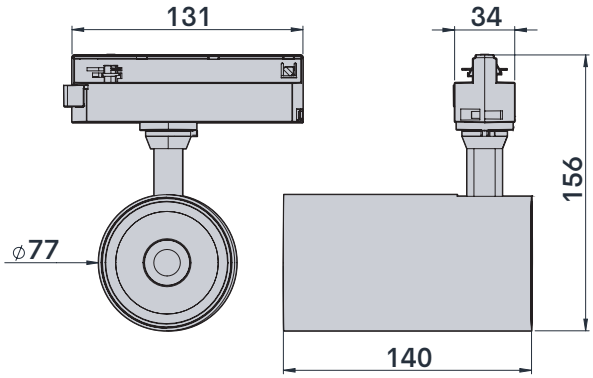

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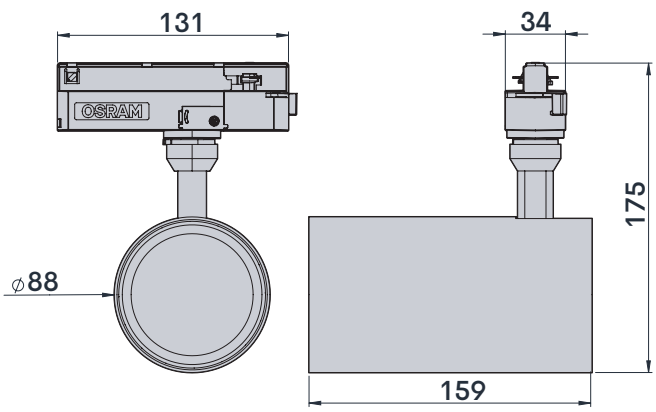

Polar charts and LDT files
available on request

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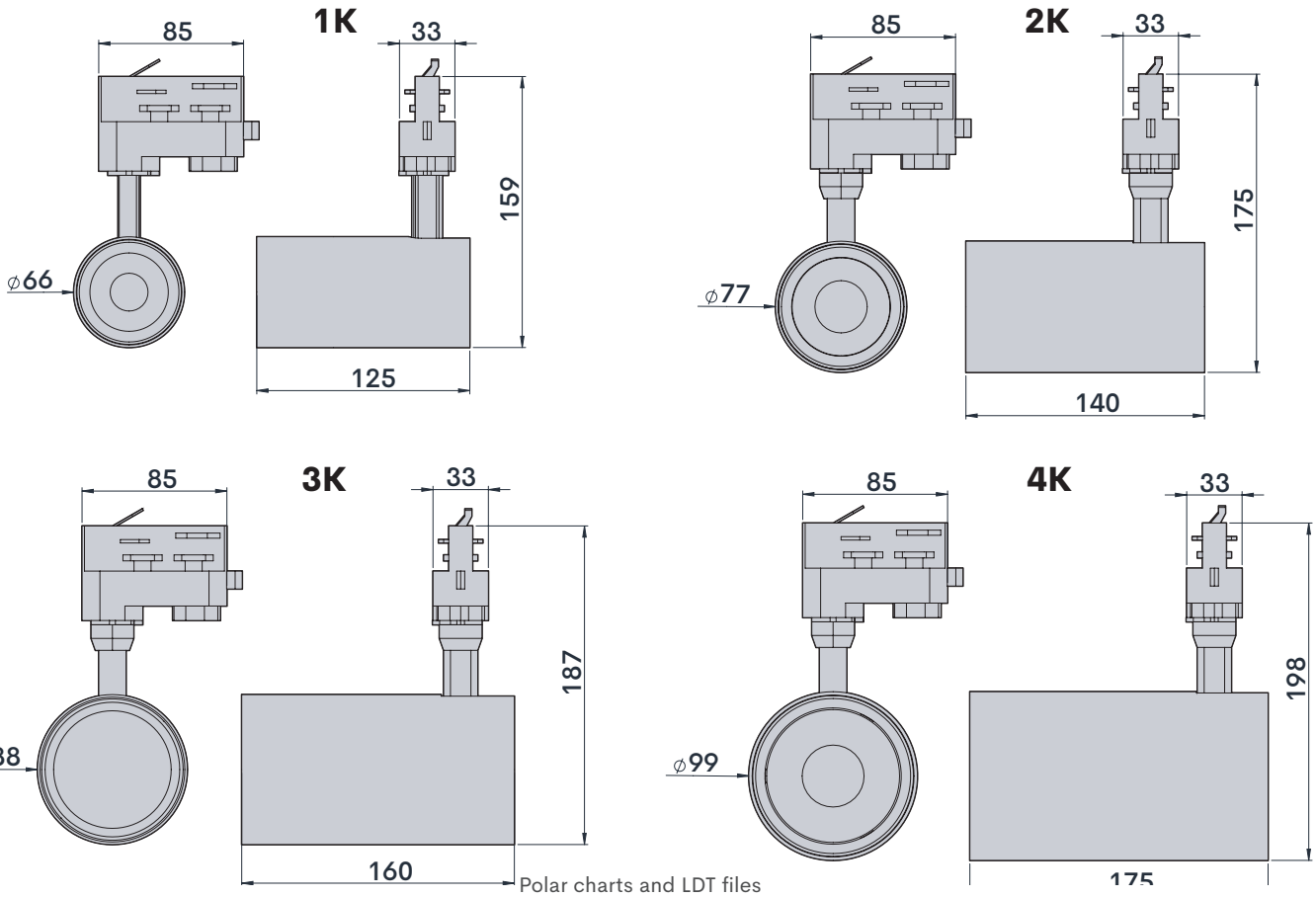
Head Driver Option

Specifications

Output:	Up to 4516 lm (4K @4000K, 36°, 90CRI)
CCT:	2700K, 3000K, 4000K or 3000K FTW
Beam widths:	15, 24, 36 or 60 degrees
Input power:	15-38W
Track Voltage:	220V AC (Non-Dim, Mains Dim, DALI) 40-60V DC (IPM)
Efficacy:	Up to 121 lm/W (1K @4000K, 24°, 90CRI)
CRI (Ra):	90 or 97
SDCM:	3-step MacAdam ellipse
UGR:	<19
Lifetime:	50,000 hours (L_{80} B_{20})
IP rating:	IP20
Driver options:	Non-Dim, Mains Dim, DALI DMX (via DriveHub IPM)
Warranty:	5 years
Body finish:	White, black or custom

*IPM version only available in 1K format.
Other formats available by special request only.

Dimensions



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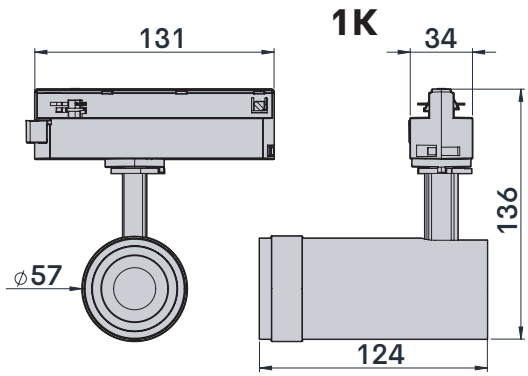
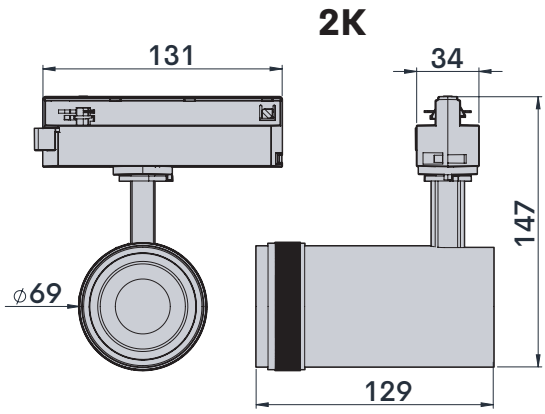
Track Driver Zoomable Option

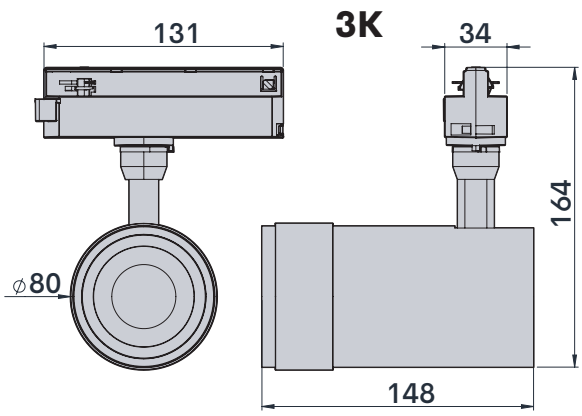
Specifications

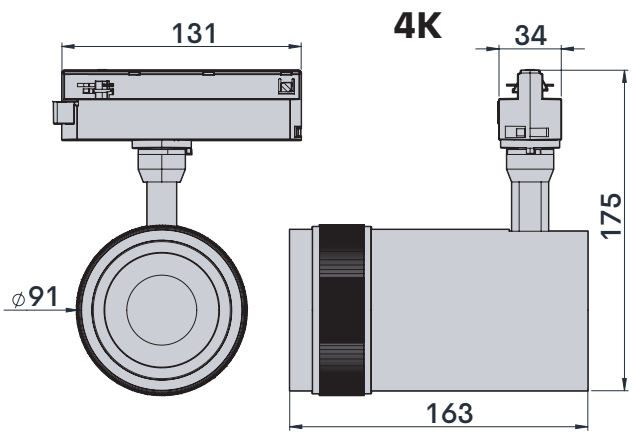
Output:	Up to 3233 lm (@4000K, 60°, 90CRI)
CCT:	2700K, 3000K, 4000K or 3000K FTW
Beam widths:	15-60 degrees
Input power:	14-37W
Track Voltage:	220V AC
Efficacy:	Up to 87 lm/W (@4000K, 60°, 90CRI)
CRI (Ra):	90 or 97
SDCM:	3-step MacAdam ellipse
UGR:	<19
Lifetime:	50,000 hours (L_{80} B_{20})
IP rating:	IP20
Driver options:	Non-Dim, Mains Dim, DALI
Warranty:	5 years
Body finish:	White, black or custom

Dimensions









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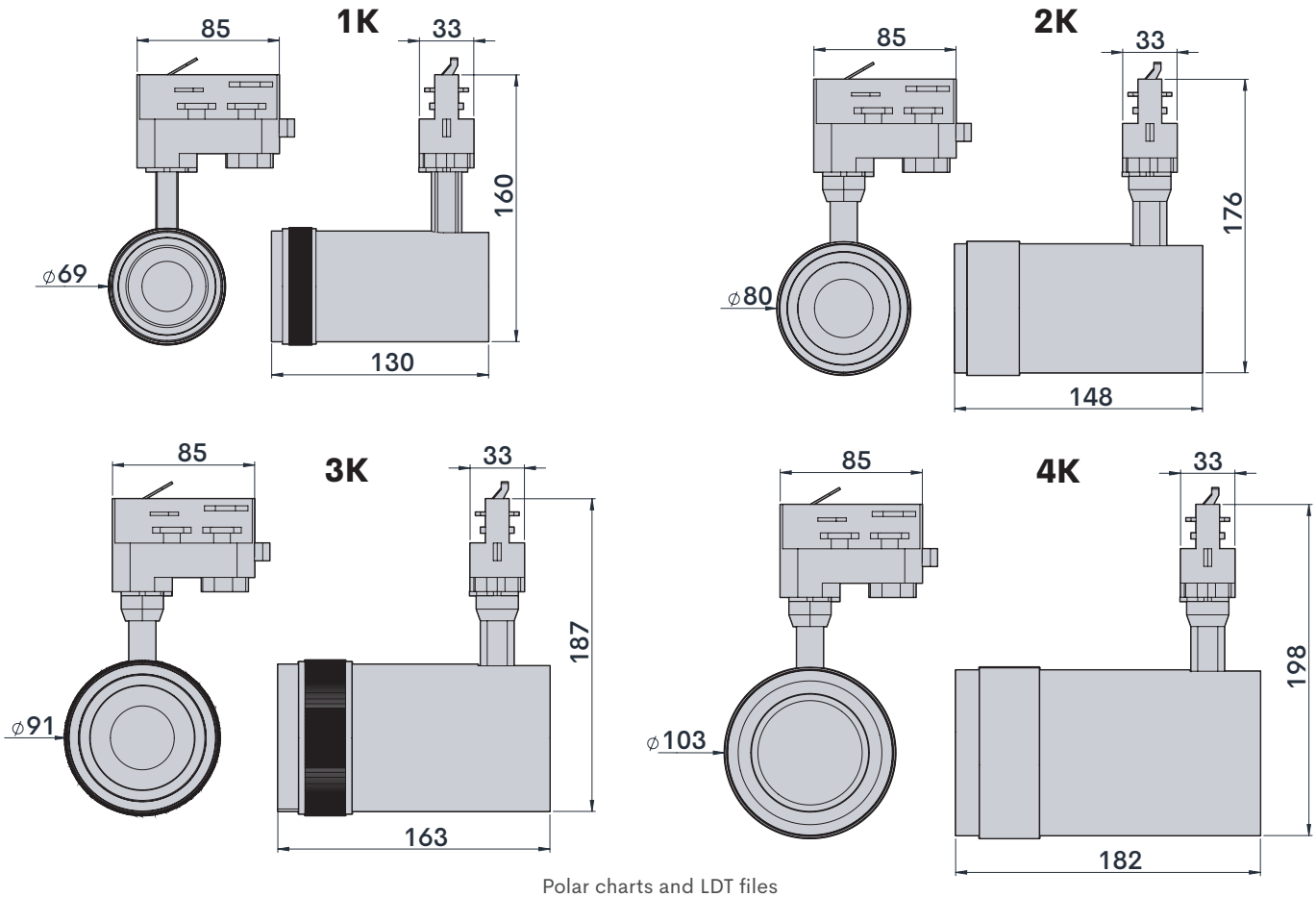
Head Driver Zoomable Option

Specifications

Output:	Up to 3233 lm (@4000K, 60°, 90CRI)
CCT:	2700K, 3000K, 4000K or 3000K FTW
Beam widths:	15-60 degrees
Input power:	14-37W
Track Voltage:	220V AC (Non-Dim, Mains Dim, DALI) 40-60V DC (IPM)
Efficacy:	Up to 87 lm/W (@4000K, 60°, 90CRI)
CRI (Ra):	90 or 97
SDCM:	3-step MacAdam ellipse
UGR:	<19
Lifetime:	50,000 hours (L_{80} B_{20})
IP rating:	IP20
Driver options:	Non-Dim, Mains Dim, DALI DMX (via DriveHub IPM)
Warranty:	5 years
Body finish:	White, black or custom

*IPM version only available in 1K format.
Other formats available by special request only.

Dimensions



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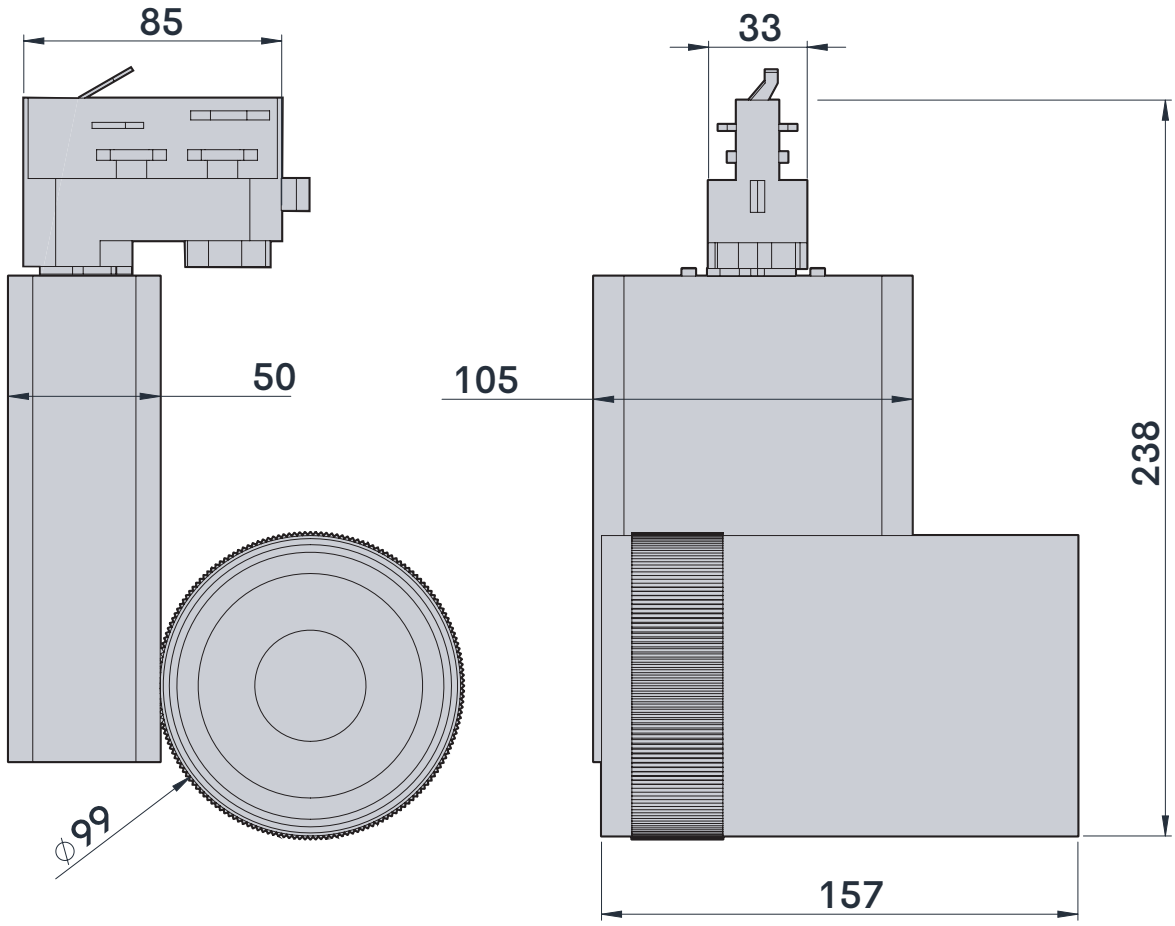
IPM²/Casambi Tunable White Option

Specifications

Output:	Up to 3000 lm (@ ~4000K, 60°)
CCT:	2700K - 5700K Tunable
Beam widths:	15-60 degrees
Input power:	38W
Track Voltage:	40-60V DC (IPM²) 220V AC (Casambi)
Efficacy:	Up to 85 lm/W (@4000K, 40°, 90CRI)
CRI (Ra):	90
SDCM:	3-step MacAdam ellipse
UGR:	<19
Lifetime:	50,000 hours (L_{80} B_{20})
IP rating:	IP20
Driver options:	DMX (via DriveHub IPM²) Casambi
Warranty:	5 years
Body finish:	White, black or custom

Dimensions



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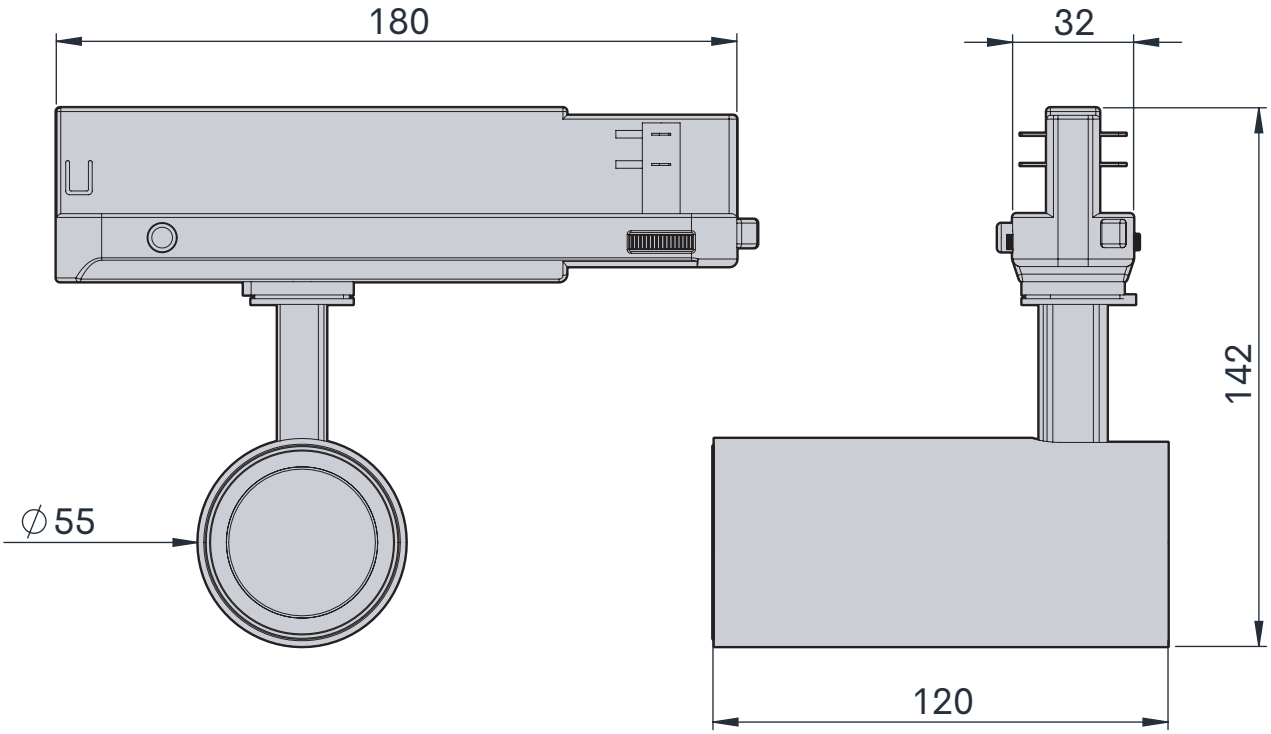
Local Dim Option

Specifications

Output:	Up to 2224 lm (@4000K, 40°, 90CRI)
CCT:	2700K, 3000K, 4000K or 3000K FTW
Beam widths:	15, 24, 36 or 60 degrees
Input power:	15-38W
Track Voltage:	220V AC
Efficacy:	Up to 101 lm/W (@4000K, 40°, 90CRI)
CRI (Ra):	90 or 97
SDCM:	3-step MacAdam ellipse
UGR:	<19
Lifetime:	50,000 hours (L_{80} B_{20})
IP rating:	IP20
Driver options:	Local Dim
Warranty:	5 years
Body finish:	White, black or custom

Dimensions



Polar charts and LDT files available on request

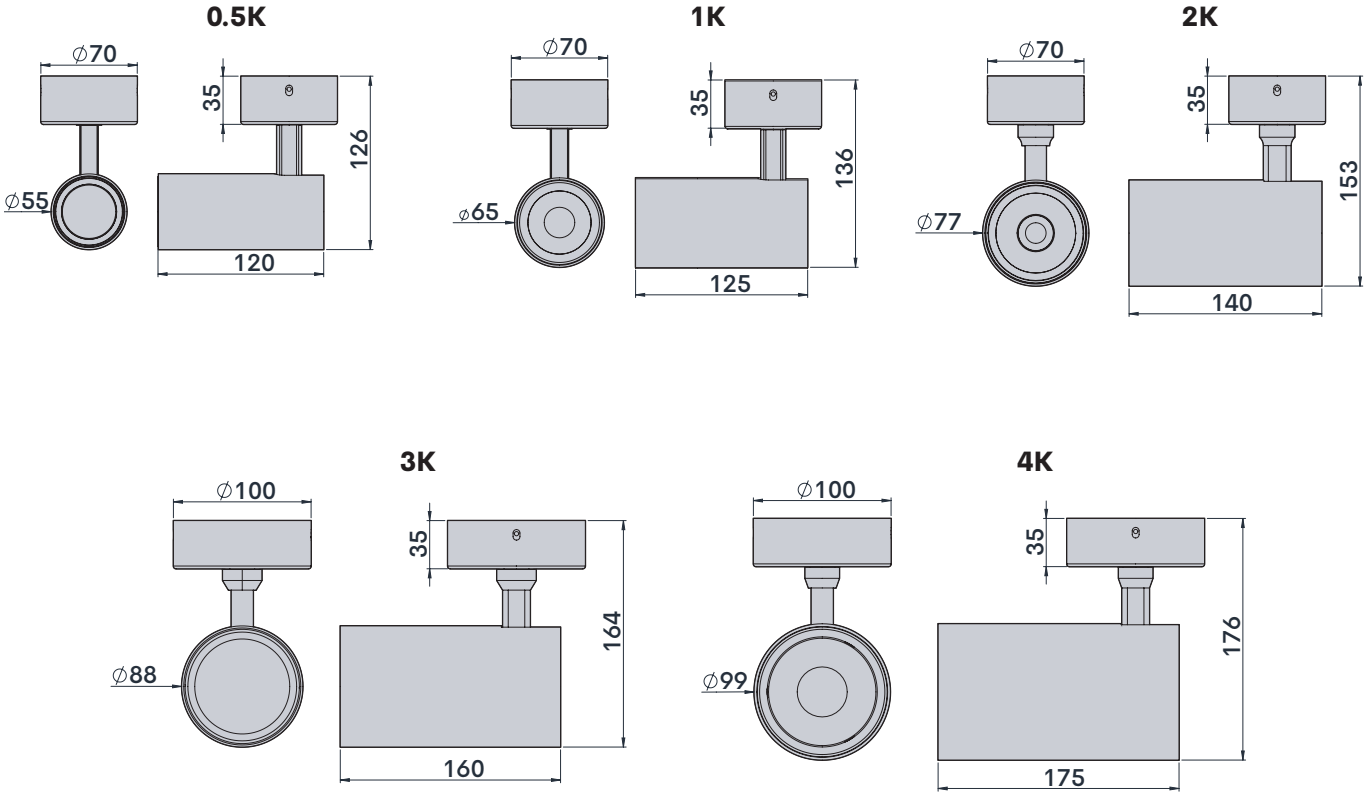
Dimensions for 1K version. Others available on request

Specifications

Output:	Up to 4420 lm (4K @4000K, 60°, 90CRI)
CCT:	2700K, 3000K, 4000K or 3000K FTW
Beam widths:	15, 24, 36 or 60 degrees
Input power:	8.5-38W
Input Voltage:	220V AC (Non-Dim, Mains Dim, DALI) 40-60V DC (IPM)
Efficacy:	Up to 121 lm/W (1K @4000K, 40°, 90CRI)
CRI (Ra):	90 or 97
SDCM:	3-step MacAdam ellipse
UGR:	<19
Lifetime:	50,000 hours (L_{80} B_{20})
IP rating:	IP20
Driver options:	Non-Dim, Mains Dim, DALI DMX (via DriveHub IPM)
Warranty:	5 years
Body finish:	White, black or custom

*IPM version only available in 0.5K or 1K format.
Other formats available by special request only.

Dimensions



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Light output table - Track/head driver options

Model	Power input	CCT	Beam angle	90 CRI		97 CRI	
				Output (lm)	Efficacy (lm/W)	Output (lm)	Efficacy (lm/W)
1K	15.5W	2700K	15°	1424	91.9	1282	82.7
•	•	•	24°	1480	95.5	1332	85.9
•	•	•	36°	1439	92.8	1295	83.6
•	•	•	60°	1479	95.4	1331	85.9
•	•	3000K	15°	1515	97.7	1364	88.0
•	•	•	24°	1574	101.5	1417	91.4
•	•	•	36°	1531	98.8	1378	88.9
•	•	•	60°	1573	101.5	1416	91.3
•	•	3000K FTW	15°	1201	77.5	-	-
•	•	•	24°	1248	80.5	-	-
•	•	•	36°	1214	78.3	-	-
•	•	•	60°	1247	80.5	-	-
•	•	4000K	15°	1818	117.3	1636	105.6
•	•	•	24°	1889	121.9	1700	109.7
•	•	•	36°	1837	118.5	1653	106.7
•	•	•	60°	1888	121.8	1699	109.6
2K	22W	2700K	15°	1758	79.9	1582	71.9
•	•	•	24°	1893	86.1	1704	77.4
•	•	•	36°	1779	80.9	1601	72.8
•	•	•	60°	1837	83.5	1653	75.1
•	•	3000K	15°	1870	85.0	1683	76.5
•	•	•	24°	2014	91.5	1813	82.4
•	•	•	36°	1893	86.0	1704	77.4
•	•	•	60°	1954	88.8	1759	79.9
•	•	3000K FTW	15°	1779	80.9	-	-
•	•	•	24°	1916	87.1	-	-
•	•	•	36°	1801	81.9	-	-
•	•	•	60°	1859	84.5	-	-
•	•	4000K	15°	2244	102.0	2020	91.8
•	•	•	24°	2417	109.9	2175	98.9
•	•	•	36°	2272	103.3	2044	92.9
•	•	•	60°	2345	106.6	2110	95.9

Light output table - Track/head driver options

Model	Power input	CCT	Beam angle	90 CRI		97 CRI	
				Output (lm)	Efficacy (lm/W)	Output (lm)	Efficacy (lm/W)
3K	32W	2700K	15°	2530	79.0	2277	71.1
•	•	•	24°	2790	87.2	2511	78.5
•	•	•	36°	2724	85.1	2452	76.6
•	•	•	60°	2697	84.3	2427	75.8
•	•	3000K	15°	2691	84.1	2422	75.7
•	•	•	24°	2968	92.8	2671	83.5
•	•	•	36°	2898	90.6	2608	81.5
•	•	•	60°	2869	89.7	2582	80.7
•	•	3000K FTW	15°	2646	82.7	–	–
•	•	•	24°	2918	91.2	–	–
•	•	•	36°	2850	89.0	–	–
•	•	•	60°	2821	88.2	–	–
•	•	4000K	15°	3229	100.9	2906	90.8
•	•	•	24°	3562	111.3	3205	100.2
•	•	•	36°	3478	108.7	3130	97.8
•	•	•	60°	3443	107.6	3099	96.8
4K	38W	2700K	15°	3473	91.4	3126	82.3
•	•	•	24°	3513	92.4	3162	83.2
•	•	•	36°	3537	93.1	3183	83.8
•	•	•	60°	3462	91.1	3116	82.0
•	•	3000K	15°	3695	97.2	3326	87.5
•	•	•	24°	3737	98.3	3363	88.5
•	•	•	36°	3763	99.0	3387	89.1
•	•	•	60°	3683	96.9	3315	87.2
•	•	3000K FTW	15°	3096	81.5	–	–
•	•	•	24°	3131	82.4	–	–
•	•	•	36°	3153	83.0	–	–
•	•	•	60°	3086	81.2	–	–
•	•	4000K	15°	4434	116.7	3991	105.0
•	•	•	24°	4484	118.0	4036	106.2
•	•	•	36°	4516	118.8	4064	106.9
•	•	•	60°	4420	116.3	3978	104.7

Light output table - Track/head driver zoomable options

Model	Power input	CCT	Beam angle	90 CRI		97 CRI	
				Output (lm)	Efficacy (lm/W)	Output (lm)	Efficacy (lm/W)
1K	15W	2700K	15°	743	53.0	668	47.7
•	•	•	60°	755	53.9	679	48.5
•	•	3000K	15°	790	56.4	711	50.8
•	•	•	60°	803	57.4	723	51.6
•	•	3000K FTW	15°	800	57.1	–	–
•	•	•	60°	813	58.1	–	–
•	•	4000K	15°	948	67.7	853	60.9
•	•	•	60°	964	68.8	867	61.9
2K	20W	2700K	15°	1300	56.5	1170	50.9
•	•	•	60°	1200	52.2	1080	47.0
•	•	3000K	15°	1331	57.9	1198	52.1
•	•	•	60°	1255	54.6	1130	49.1
•	•	3000K FTW	15°	1186	51.6	–	–
•	•	•	60°	1118	48.6	–	–
•	•	4000K	15°	1597	69.4	1437	62.5
•	•	•	60°	1506	65.5	1355	58.9
3K	30W	2700K	15°	1688	56.3	1519	50.6
•	•	•	60°	1917	63.9	1725	57.5
•	•	3000K	15°	1796	59.9	1616	53.9
•	•	•	60°	2039	68.0	1835	61.2
•	•	3000K FTW	15°	1764	58.8	–	–
•	•	•	60°	2003	66.8	–	–
•	•	4000K	15°	2155	71.8	1940	64.7
•	•	•	60°	2447	81.6	2202	73.4
4K	36W	2700K	15°	2366	63.9	2129	57.6
•	•	•	60°	2532	68.4	2279	61.6
•	•	3000K	15°	2517	68.0	2265	61.2
•	•	•	60°	2694	72.8	2425	65.5
•	•	3000K FTW	15°	2064	55.8	–	–
•	•	•	60°	2209	59.7	–	–
•	•	4000K	15°	3020	81.6	2718	73.5
•	•	•	60°	3233	87.4	2910	78.6

Light output table - Surface spotlight

Model	Power input	CCT	Beam angle	90 CRI Output (lm)	90 CRI Efficacy (lm/W)	97 CRI Output (lm)	97 CRI Efficacy (lm/W)
0.5K	8.5W	2700K	15°	780	91.8	702	82.6
•	•	•	24°	811	95.4	730	85.9
•	•	•	36°	789	92.8	710	83.5
•	•	•	60°	811	95.4	730	85.9
•	•	3000K	15°	830	97.6	747	87.9
•	•	•	24°	863	101.5	777	91.4
•	•	•	36°	839	98.7	755	88.8
•	•	•	60°	863	101.5	777	91.4
•	•	4000K	15°	996	117.2	896	105.5
•	•	•	24°	1036	121.8	932	109.7
•	•	•	36°	1007	118.4	906	106.6
•	•	•	60°	1036	121.8	932	109.7
1K	15.5W	2700K	15°	1424	91.9	1282	82.7
•	•	•	24°	1480	95.5	1332	85.9
•	•	•	36°	1439	92.8	1295	83.6
•	•	•	60°	1479	95.4	1331	85.9
•	•	3000K	15°	1515	97.7	1364	88.0
•	•	•	24°	1574	101.5	1417	91.4
•	•	•	36°	1531	98.8	1378	88.9
•	•	•	60°	1573	101.5	1416	91.3
•	•	3000K FTW	15°	1201	77.5	-	-
•	•	•	24°	1248	80.5	-	-
•	•	•	36°	1214	78.3	-	-
•	•	•	60°	1247	80.5	-	-
•	•	4000K	15°	1818	117.3	1636	105.6
•	•	•	24°	1889	121.9	1700	109.7
•	•	•	36°	1837	118.5	1653	106.7
•	•	•	60°	1888	121.8	1699	109.6
2K	22W	2700K	15°	1758	79.9	1582	71.9
•	•	•	24°	1893	86.1	1704	77.4
•	•	•	36°	1779	80.9	1601	72.8
•	•	•	60°	1837	83.5	1653	75.1
•	•	3000K	15°	1870	85.0	1683	76.5
•	•	•	24°	2014	91.5	1813	82.4
•	•	•	36°	1893	86.0	1704	77.4
•	•	•	60°	1954	88.8	1759	79.9
•	•	3000K FTW	15°	1779	80.9	-	-
•	•	•	24°	1916	87.1	-	-
•	•	•	36°	1801	81.9	-	-
•	•	•	60°	1859	84.5	-	-
•	•	4000K	15°	2244	102.0	2020	91.8
•	•	•	24°	2417	109.9	2175	98.9
•	•	•	36°	2272	103.3	2044	92.9
•	•	•	60°	2345	106.6	2110	95.9

Light output table - Surface spotlight

Model	Power input	CCT	Beam angle	90 CRI		97 CRI	
				Output (lm)	Efficacy (lm/W)	Output (lm)	Efficacy (lm/W)
3K	32W	2700K	15°	2530	79.0	2277	71.1
•	•	•	24°	2790	87.2	2511	78.5
•	•	•	36°	2724	85.1	2452	76.6
•	•	•	60°	2697	84.3	2427	75.8
•	•	3000K	15°	2691	84.1	2422	75.7
•	•	•	24°	2968	92.8	2671	83.5
•	•	•	36°	2898	90.6	2608	81.5
•	•	•	60°	2869	89.7	2582	80.7
•	•	3000K FTW	15°	2646	82.7	-	-
•	•	•	24°	2918	91.2	-	-
•	•	•	36°	2850	89.0	-	-
•	•	•	60°	2821	88.2	-	-
•	•	4000K	15°	3229	100.9	2906	90.8
•	•	•	24°	3562	111.3	3205	100.2
•	•	•	36°	3478	108.7	3130	97.8
•	•	•	60°	3443	107.6	3099	96.8
4K	38W	2700K	15°	3473	91.4	3126	82.3
•	•	•	24°	3513	92.4	3162	83.2
•	•	•	36°	3537	93.1	3183	83.8
•	•	•	60°	3462	91.1	3116	82.0
•	•	3000K	15°	3695	97.2	3326	87.5
•	•	•	24°	3737	98.3	3363	88.5
•	•	•	36°	3763	99.0	3387	89.1
•	•	•	60°	3683	96.9	3315	87.2
•	•	3000K FTW	15°	3096	81.5	-	-
•	•	•	24°	3131	82.4	-	-
•	•	•	36°	3153	83.0	-	-
•	•	•	60°	3086	81.2	-	-
•	•	4000K	15°	4434	116.7	3991	105.0
•	•	•	24°	4484	118.0	4036	106.2
•	•	•	36°	4516	118.8	4064	106.9
•	•	•	60°	4420	116.3	3978	104.7

IPM & IPM^2 Track Connection Data

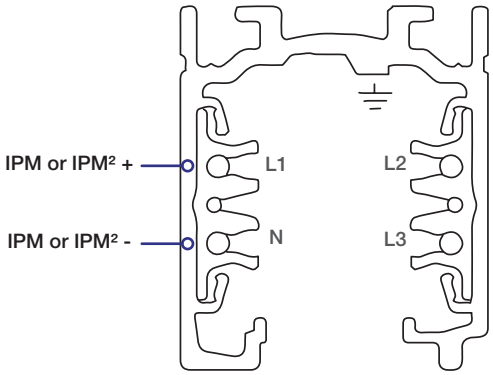
GDS IPM^2 technology allows multiple fixtures to be installed on one 2-wire circuit, while maintaining multiple channels of control. When installing the Cygnus 38W IPM^2 fixture, the track should be properly connected so that no damage is incurred. The IPM^2 fixtures should **only** be connected to the GDS DriveHub or MiniPack system. Under **no circumstances** should they be connected to ordinary mains voltage track.

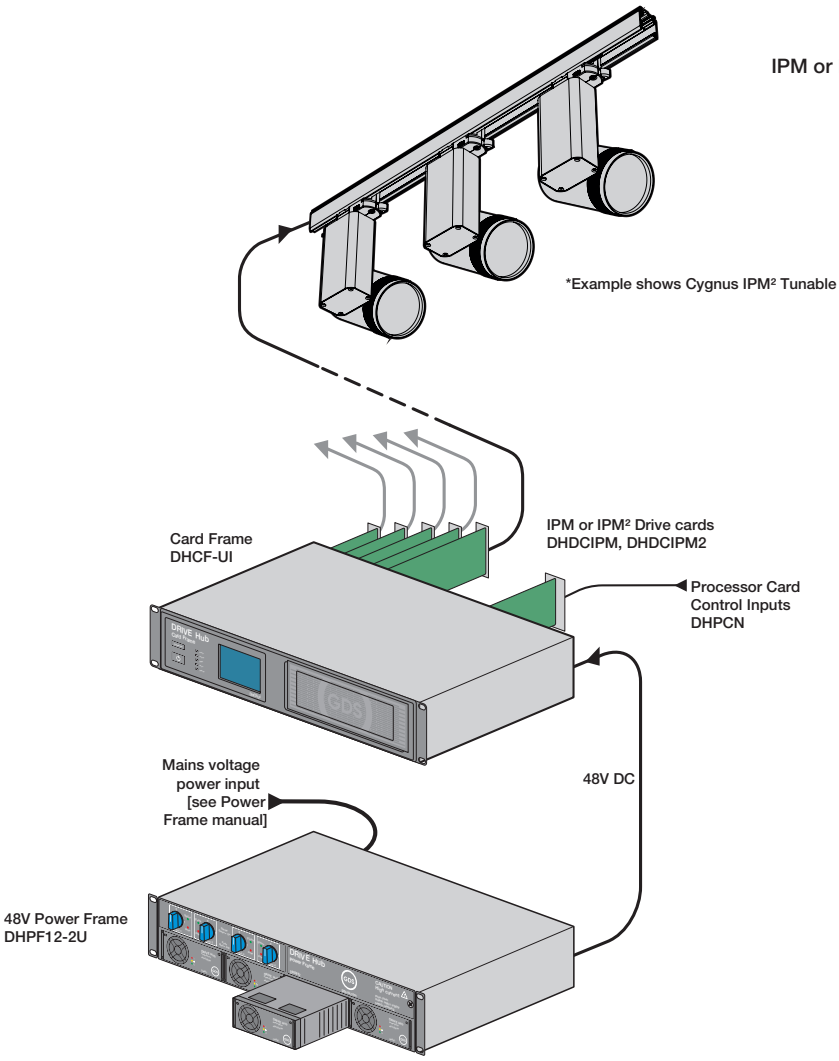
During installation, the installer should ensure that the track is only fed from one end and check that **no mains is present** before connecting the light fixtures.

These are low-voltage devices and conection to mains voltage track will result in **irreversible damage** to the fixtures.

GLOBAL Track connections will be labelled N, L1, L2 and L3. The GDS IPM or IPM^2 circuit should be connected as follows:

N - IPM or IPM^2 Negative (-)
L1 - IPM or IPM^2 Positive (+)
L2 - No Connection
L3 - No Connection

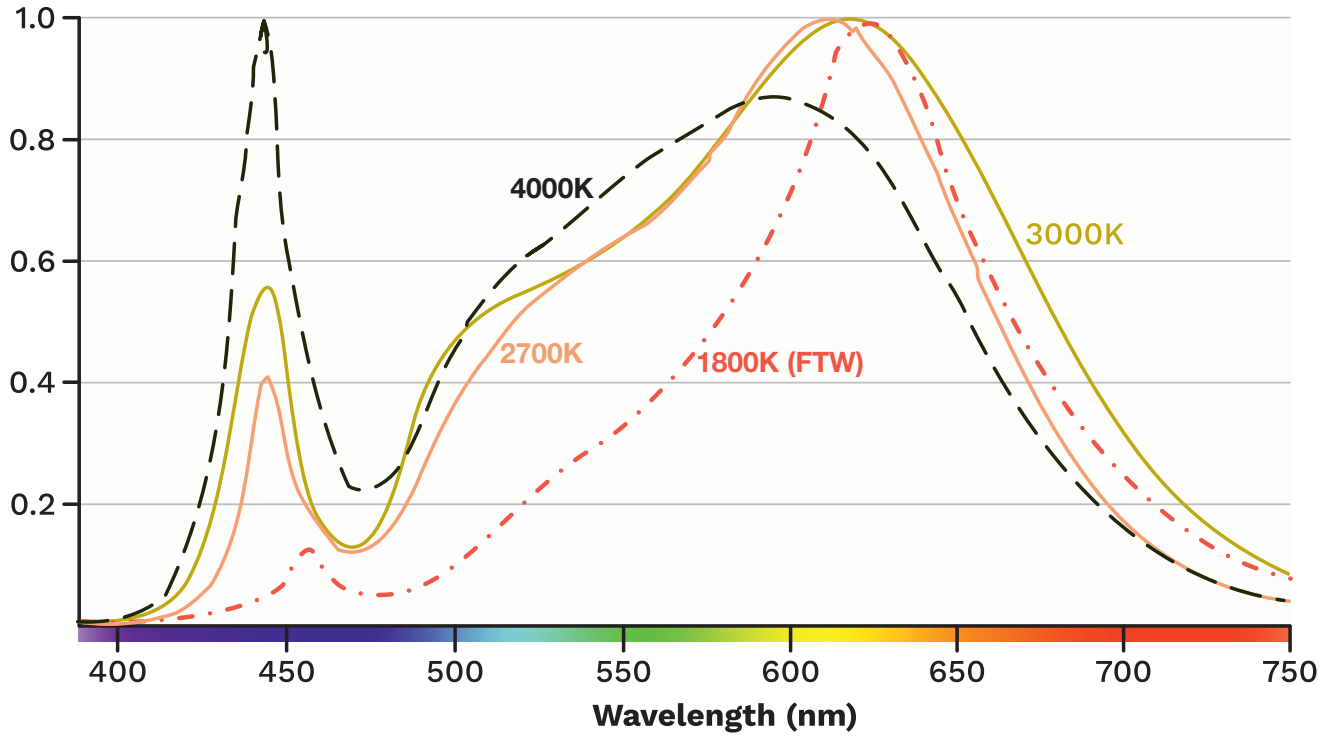




CAUTION: THIS IS A LOW VOLTAGE DEVICE!

CONNECTION TO MAINS WILL RESULT IN IRREVERSIBLE DAMAGE TO THE FIXTURES!

Relative spectral distribution



Order options

Range	Family	Variant	Power (W)	Beam angle (°)	CCT (K)	CRI	Control	Colour
Focus **FS**	Cygnus **C**	Track - Track Driver **T**	0.5K - 8.5W (Surface Only) **0.5K**	15 **15**	2700K **2**	90 **90**	Non-Dim **ND**	Black **B**
		Track - Head Driver **H**	1K - 15W **1K**	24 **24**	3000K **3**	97 **97**	Mains-Dim **MD**	White **W**
		Surface **S**	2K - 20W **2K**	40 **40**	4000K **4**		DALI **DA**	Custom **C**
			3K - 30W **3K**	15-60 (Zoom) **Z**	3000K FTW **FTW**		IPM (1K Only) **IPM**	
			4K - 40W **4K**				IPM^2 **IPM2**	
							Local-Dim **LD**	

Eg. **FSCT2K24397MDW** - Focus Series, Cygnus, Track Driver 2K, 24°, 3000K, 97CRI, Mains-Dim, White

sales@gds.uk.com
+44 (0)117 325 0063
www.gds.uk.com

GDS Pioneering Light Limited
United Kingdom

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