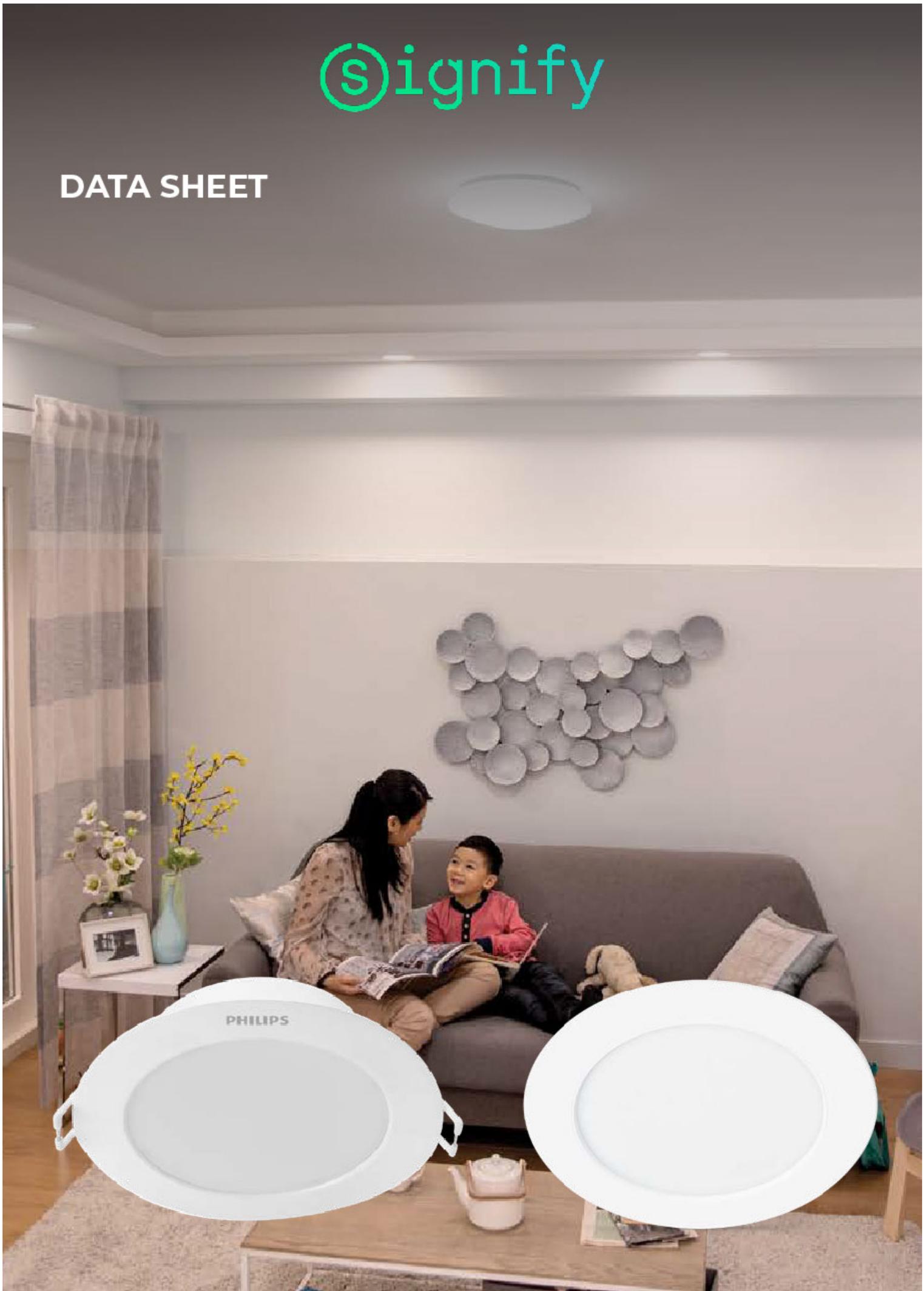


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DATA SHEET



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DN027 G3



Key Features and Benefits

Product diversity

- Multiple sizes – D100~D200
- Multiple lumens – 600 ~2100lm
- 3 CCT options – 3000/4000/6500K
- Shape – Round/Surface Mount



Great light effect

- Large diffused surface with bright and even light

Reliable performance

- 30,000-hour lifetime
- Front IP40
- CRI 80

Integrated driver

- Easy installation

Energy efficient

- >100lm/W



Applicated in

- Hospitality
- Office
- Retail and Shopping Centre
- Homing
- Canteen
- Indoor Area

DN027 G3 Designation

Installation

- B – Recessed in ceiling
- C – Surface Mount



DN027B G3 LED9/WW 9W 220-240V D125 RD (RU)



Lumen Output

- LED 6 – 600lm
- LED 9 – 900lm
- LED 12 – 1200lm
- LED 15 – 1500lm
- LED 20 – 2000lm



Power Wattage

- Claimed within the name

DN027C G3 LED9/CW 9W 220-240V D150



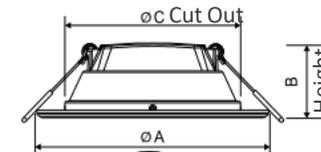
CCT Claim

- WW – 3000K
- NW – 4000K
- CW – 6500K

Shape & Country Only

- RD for Round
- SQ for Square
- RU for RCA

Key Specs



DN027 G3 B/C

Cut Out	D100	D125	D150	D175	D200	D225
Height(B/C Mounting Type)	40mm	42mm	B:45mm/C:27mm	B:45mm/C:27mm	B:45mm/C:27mm	C:27mm
Lumen @3000K	600lm	900lm	1200lm	1500lm	2000lm	2000lm
Wattage	6W	9W	12W	15W	19W	19W
Voltage	220-240Vac 50/60Hz					
Energy efficient	≥100					
CCT (Selectable)	3000K/4000K/6500K					
Colour Rendering Index	CRI=80					
Lifetime Hour	30,000hrs L70B50 @T25°C					
Electrical Class	Class II					
IP Rate	IP20 (IP40 Front)					
Housing Material	White Plastic Housing					
Operating Temp	-20°C to +40°C					
Driver	Integrated with the luminaire					
PF	0.9					
Connection	Flying Wire					
Mounting Type	B	B	B/C	B/C	B/C	C

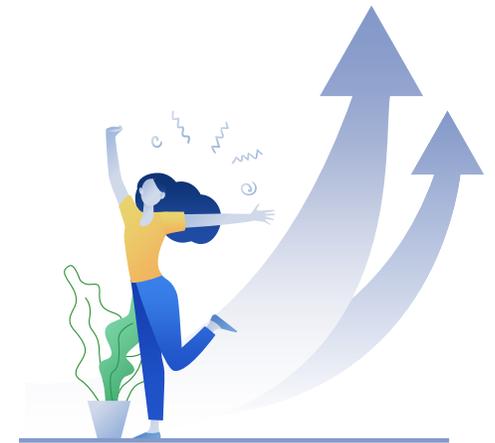
[Spec Detail](#)

Compared with G2

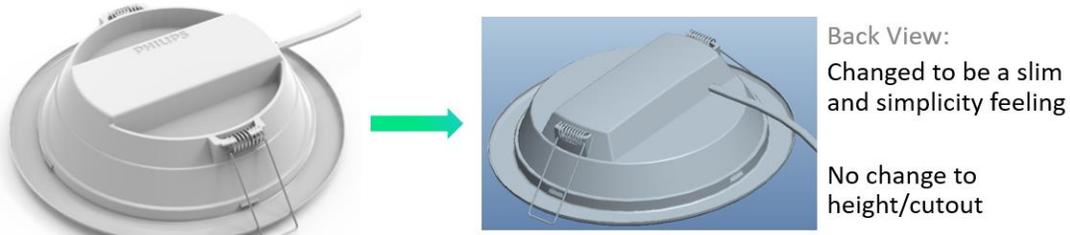
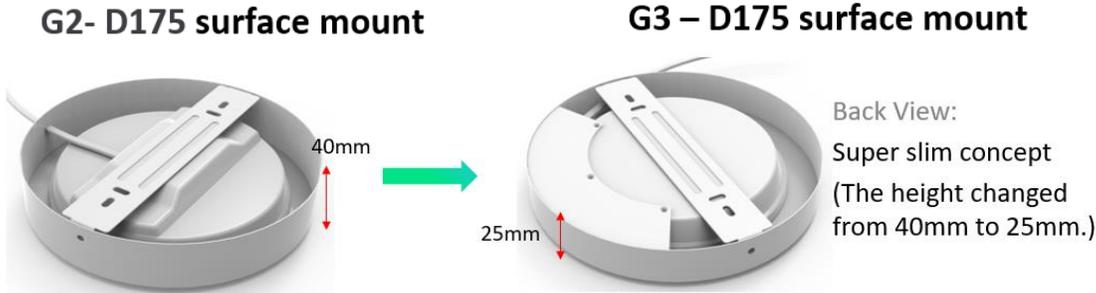
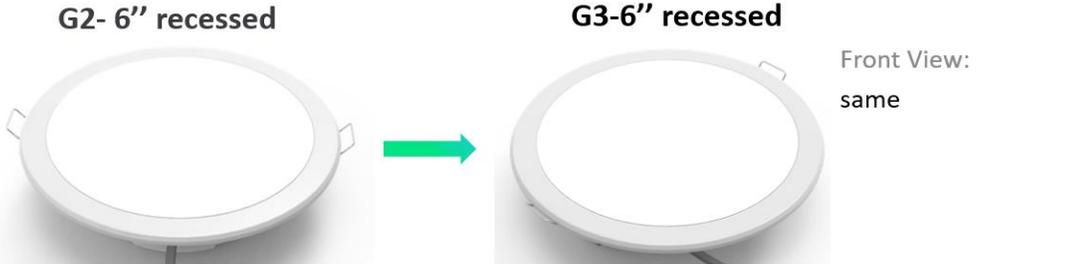
	G2	G3
Look&Feel For Recessed	Same	Same
Look&Feel For SF	Height 40mm	Height 27mm
Body Colour	White	Brighter White
Spec Changes		
Lumen Output	LED3-LED20	LED6-LED20
Cut Out Diversity	90-225	90-225
Lifetime	20,000hrs	30,000hrs
Switch Cycle	Up to 12,000	Up to 30,000
IP Rating	IP20	IP20 (IP40 Front)
PF	0.75	0.9
Energy Efficacy	≥85	≥100

Improvement in the latest generation

- ❖ Height is reduced to 27mm – Adapt to diversified ceilings
- ❖ The brighter body is integrated with the ceilings
- ❖ Abandon the low lumen output – Simplified size selection
- ❖ **Outstanding performance**
 1. Long hour lifetime
 2. Increased durability
 3. IP40 front applied
 4. Higher power factor
 5. Higher energy efficacy



L&F Compared with G2



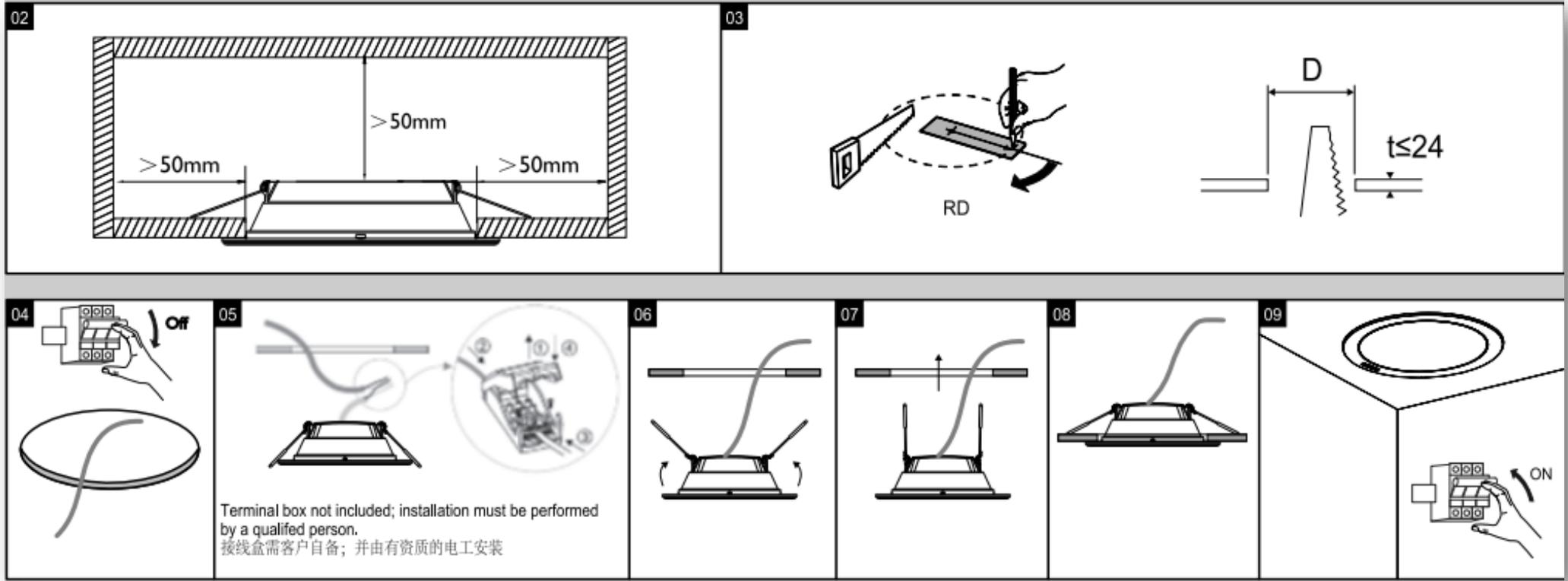
DN027 G3 latest Images:



DN027 G3 Round

DN027 C G3

Product Installation



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SmartBright Solar All-in-One Generation 2

Solar product management, DDS



Upto 18000 lumens

Upto 200 lm/W

High efficiency Mono Panel

2000 cycles LiFePO₄ battery

3G vibration tested

Withstands Class 4 typhoon

IP65 / IK08

Microwave sensor

CE certified

signify

All new BRP110 Generation 2



5000 lumens

8500 lumens

12000 lumens

18000 lumens

SmartBright Solar All-in-One Streetlight

BRP110 Generation 2



Application Area's: Streets, parks & plazas, parking, pedestrian path lighting, shopping centers, corporate campuses, industries, schools

Claim/USP/Differentiator:

- Easy installation.
- Wide range of outdoor application.
- Suitable for areas where electrical connections are difficult to make/maintain.

Reasons to Believe

- All in one construction with
 - inbuilt monocrystalline panel
 - LiFePO₄ battery.
- Range of 3 products upto 12000 lumen.
- Brings light to areas with problem in grid -
 - No trenching for cabling required on landscape
 - Flexibility in mounting methods.

Key specifications

- 5000, 8500, 12000, 18000 lumen versions available.
- Mono crystalline type PV panel, LiFePO₄ battery.
- Auto turn on/off by sensing dusk and dawn with the help of PV panel.
- Wireless remote for demo configuration / hibernation activation.
- Microwave sensor based dimming profile. Which can be configured.
- Integrated MPPT charge controller with efficiency > 90%
- CRI>70, CCT 5700K.
- IP65 protection.
- Adjustable pole mounting piece.
- Optional remote for configuration of lumen and dimming profile.

Detailed specification : 5000 lumen version



Specification	Parameters
Lumen output (typ.Avg) (lm)	5000lm
CRI	>70
CCT	5700K
Output power and current	27W
Efficacy	185lm/w
Controller Type	MPPT
Sensor	Microwave
Protection	Over voltage, Under voltage, Over current, Over temperature
Lighting Mode	0 - 2hrs----> 100% brightness when detected moving object, 30% when no movement is detected 2hrs-5hrs -----> 60% brightness when detected moving object, 20% when no movement is detected 5hrs - 11hrs ----->30% brightness when detected moving object, 10% when no movement is detected >11 hrs till Dawn ----->50% brightness when detected moving object, 30% when no movement is detected
Battery Capacity	3.2V 60Ah
Battery Type	LiFeP04 (LFP)
Battery Cycle Life	2000Cycle
Working Temperature range	0~50°C
PV Panel Power	35W
PV Panel Voltage	12V
PV Panel Type	Mono crystalline
Housing material	Body material Al1060 aluminum, housing side material & Pole adapter material Al6063 aluminum. Bracket material SPCC
IPxx	IP65
IKxx	Housing IK08, PV IK05
Size (LxWxH) + considerations	562mm(L)x363mm(W)x85mm(T)
Weight (Kg)	8.73 kg
Packaging concept	1pcs/carton
Operating temperature range (°C)	0~45°C
Approbation	CE

Detailed specification : 8500 lumen version



Specification	Parameters
Lumen output (typ.Avg) (lm)	8500lm
CRI	>70
CCT	5700K
Output power and current	42W
Efficacy	202 lm/w
Controller Type	MPPT
Seonsor	Microwave
Protection	Over voltage, Under voltage, Over current, Over temperature
Lighting Mode	0 - 2hrs----> 100% brightness when detected moving object, 30% when no movement is detected 2hrs-5hrs -----> 60% brightness when detected moving object, 20% when no movement is detected 5hrs - 11hrs ---->30% brightness when detected moving object, 10% when no movement is detected >11 hrs till Dawn ---->50% brightness when detected moving object, 30% when no movement is detected
Battery Capacity	6.4V 54Ah
Battery Type	LiFeP04 (LFP)
Battery Cycle Life	2000Cycle
Working Temperature range	0~50°C
PV Panel Power	55W
PV Panel Voltage	14V
PV Panel Type	Mono crystalline
Housing material	Body material Al1060 aluminum, housing side material & Pole adapter material Al6063 aluminum. Bracket material SPCC
IPxx	IP65
IKxx	Housing IK08, PV IK05
Size (LxWxH) + considerations	842mm(L)x363mm(W)x85mm(T)
Weight (Kg)	11.76 kg
Packaging concept	1pcs/carton
Operating temperature range (°C)	0~45°C
Approbation	CE

Detailed specification : 12000 lumen version



Specification	Parameters
Lumen output (typ.Avg) (lm)	12000lm
CRI	>70
CCT	5700K
Output power and current	65W
Efficacy	185lm/w
Controller Type	MPPT
Sensor	Microwave
Protection	Over voltage, Under voltage, Over current, Over temperature
Lighting Mode	0 - 2hrs----> 100% brightness when detected moving object, 30% when no movement is detected 2hrs-5hrs -----> 60% brightness when detected moving object, 20% when no movement is detected 5hrs - 11hrs ---->30% brightness when detected moving object, 10% when no movement is detected >11 hrs till Dawn ---->50% brightness when detected moving object, 30% when no movement is detected
Battery Capacity	6.4V 72Ah
Battery Type	LiFePO4 (LFP)
Battery Cycle Life	2000Cycle
Working Temperature range	0~50°C
PV Panel Power	80W
PV Panel Voltage	13V
PV Panel Type	Mono crystalline
Housing material	Body material Al1060 aluminum, housing side material & Pole adapter material Al6063 aluminum. Bracket material SPCC
IPxx	IP65
IKxx	Housing IK08, PV IK05
Size (LxWxH) + considerations	1142mm(L)x363mm(W)x85mm(T)
Weight (Kg)	25Kg
Packaging concept	1pcs/carton
Operating temperature range (°C)	0~45°C
Approbation	CE

Detailed specification : 18000 lumen version



Specification	Parameters
Lumen output (typ.Avg) (lm)	18000lm
CRI	>70
CCT	5700K
Output power and current	92W
Efficacy	195lm/w
Controller Type	MPPT
Sensor	Microwave
Protection	Over voltage, Under voltage, Over current, Over temperature
Lighting Mode	0 - 2hrs----> 100% brightness when detected moving object, 30% when no movement is detected 2hrs-5hrs -----> 60% brightness when detected moving object, 20% when no movement is detected 5hrs - 11hrs ---->30% brightness when detected moving object, 10% when no movement is detected >11 hrs till Dawn ---->50% brightness when detected moving object, 30% when no movement is detected
Battery Capacity	25.6V 30Ah
Battery Type	LiFeP04 (LFP)
Battery Cycle Life	2000Cycle
Working Temperature range	0~50°C
PV Panel Power	125W
PV Panel Voltage	34.5V
PV Panel Type	Mono crystalline
Housing material	Body material Al1060 aluminum, housing side material & Pole adapter material Al6063 aluminum. Bracket material SPCC
IPxx	IP65
IKxx	Housing IK08, PV IK05
Size (LxWxH) + considerations	1320mm(L)x525mm(W)x161mm(T)
Weight (Kg)	29.29 kg
Packaging concept	1pcs/carton
Operating temperature range (°C)	0~45°C
Approbation	CE

Optional configuration remote



- To configure on site dimming profile.
- TO enable / disable sensor function onsite.
- To read critical system parameters such as voltage / current of battery and PV panel.



Application pictures

Ordering information

12NC	Description	PL IDR
911401833902	BRP110 LED50/757 G2	9,590,000
911401834002	BRP110 LED85/757 G2	13,390,000
911401834102	BRP110 LED120/757 G2	21,390,000
911401834202	BRP110 LED180/757 G2	39,590,000

Pack size : 1 pcs / Carton

Warranty : 3 years

Customer service package



- Product warranty : 3 years
- Service Class : C
- Cleaning instruction : PV panel may be cleaned as per regular maintenance cycle.
- Remote controller can be used to read critical system parameters (refer user manual).



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FlexCove G4



June 2019

Contents

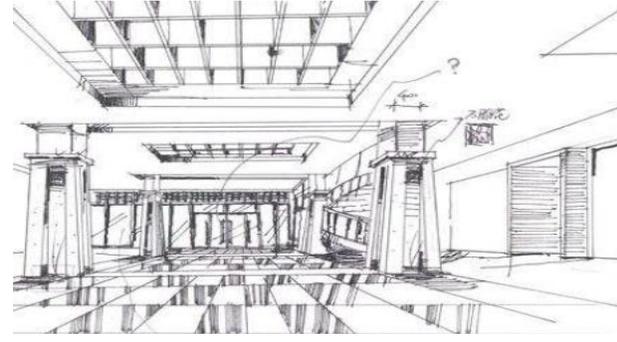
- Value Proposition
- Product Features and Benefits
- Product Applications
- Product Designation
- Product Accessory
- Product Specifications & Recommended drivers
- System architecture
- Comparison with Last Generation
- Product Installation
- Product Photometry
- Product Ordering Information
- Accessory Ordering Information

Value propositions



Why this product

- To create comfortable lighting ambience
- To cater to various needs for different customers/applications
- To give extreme flexibility by dimension and installation
- To offer dynamic lighting for enhanced experience



How to realize

- Superior light quality
- Great diversity to cater to different customers' needs
- Mechanical flexibility
- Dimming compatibility & Tunable White



What we offer

- SDCM 3 , CRI 80 &90
- 4 lumens x 5 CCTs x 2 CRIs x 2 IP ratings
- Min cut length -100mm, multiple AL extrusion track
- 1-10V, DALI, Plug & play Tunable white solution (1000~4000K, 2700~6500K)

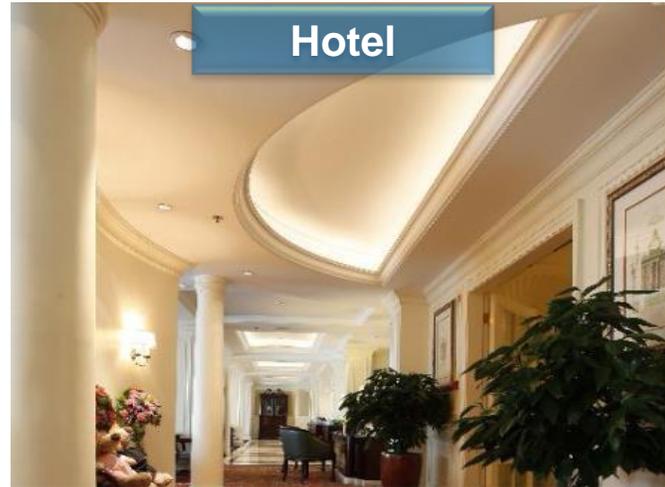
FlexCove G4 – Features and benefits



Features and benefits:

- Energy efficient - System efficacy up to **110 lm/W**
- Product diversity – **4 lumens**, **5 CCTs**, CRI 80 & **90**, IP20 & **IP44** available
- Excellent light quality – **SDCM 3** for 2400/2700/4000K (between rolls), SDCM 4 for 6500K
- Reliable performance - Lifetime **30,000hours** L70 Ta 25° C
- **Dimming flexibility** – DALI, 1-10V.dimming compatible, **Tunable white with simple control system** available

Applications



FlexCove G4 designation

LS170S LED8 8 27 IP20 L5000



1 Lumen package

LS170S LED4 – 400lm

LS170S LED8 - 800lm

LS170S LED12- 1200lm

LS170S LED16- 1600lm

LS170S LED9 – 900lm (Max. lm for TNW 1000~4000K version)

LS170S LED10 – 1000lm (Max. lm for TNW 2700~6500K version)

2 Color rendering

8 XX – CRI 80

9 XX – CRI 90

3 CCT

X 24 – 2400K

X 27 - 2700K

X 40 – 4000K

X 65 - 6500K

TNW – Tunable White:1000~4000K(LED9)/
2700~6500K(LED10)

4 IP rating

IP20 - without silicon tube

IP44 - with silicon tube

5 Dimension

L5000 – 5m/roll (1pc)

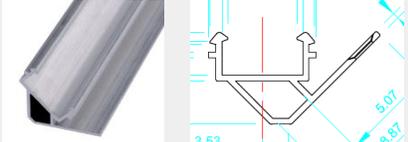
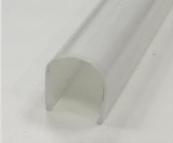
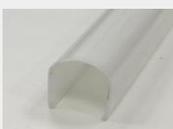


IP20



IP44

FlexCove G4 Accessories _1

Description	Explanation	Used for	Picture
AC170Z TR-U L1000	U track 1m in length	LED4&LED8, IP20&IP44 version	
AC170Z TR-V L1000	V track 1m in length		
AC170Z PC-OP L1000	PC optical cover coupling with U track and V track		
AC170Z TR-U L1000 TW	Wide U track for high lumen and Tunable white version	LED12,LED16 IP20&IP44 and Tunable white version	
AC170Z TR-V L1000 TW	Wide V track for high lumen and Tunable white version		
AC170Z PC-OP L1000 TW	PC optical cover coupling with wide U track and V track		

FlexCove G4 Accessories _2

Description	Explanation	Used for	Picture
AC170Z mounting clip	Fixation kit for IP20 version (12NC including screws)	All IP20 models	
AC170Z mounting clip WP	Fixation kit for IP44 version (12NC including screws)	All IP44 models	
AC170Z end cap	End cap used after cutting	LED4&LED8, IP20&IP44 version	
AC170Z connector	For mechanical connection after cutting		
AC170Z Connector with leader cable L	For electrical connection after cutting		
AC170Z end cap TW	End cap used after cutting	LED12,LED16 IP20&IP44 and Tunable white version	
AC170Z connector TW	For mechanical connection after cutting		
AC170Z Connector with leader cable H	For electrical connection after cutting	LED12,LED16 IP20&IP44 version	
AC170Z Connector with leader cable TW	For electrical connection after cutting	Tunable white version	

Specification of IP20 version

		Flex Cove IP20				
		824	827	840	865	927
System performance	Working temperature range	-20°C ~ +35°C				
	Lifetime (ta 25°C) @L70B50	30,000 hours				
	Ambient temperature of operation	25°C				
Optical	Color consistency	SDCM ≤3(between rolls); SDCM≤4 @ 6500K				
	CRI	≥80			≥90	
	CCT	2400K±62K	2730K±62K	4050K±118K	6570K±291K	2730K±62K
	Initial lumen output range (based on 2700K)	1. Typical: 400 lm/m, Range: 360-440 lm/m 2. Typical: 800 lm/m, Range: 720-880 lm/m 3. Typical: 1200 lm/m, Range: 1080-1320 lm/m 4. Typical: 1600 lm/m; Range: 1440-1760 lm/m				
	Typ. efficacy - 400lm/m	95lm/W	100lm/W	110lm/W	105lm/W	85lm/W
	Typ. efficacy - 800lm/m	90lm/W	90lm/W	105lm/W	105lm/W	80lm/W
	Typ. efficacy - 1200lm/m	85lm/W	90lm/W	100lm/W	100lm/W	80lm/W
	Typ. efficacy - 1600lm/m	85lm/W	90lm/W	100lm/W	100lm/W	80lm/W
Mechanical & appearance	IP	IP20				
	Min cut length	10cm				
Electrical	Supply Voltage	24VDC ±10%				
Control function		On/off & Dimmable (1-10V, Dali)				
Approbation & Report		CB report, LM79, IP test, thermal test				
Others	ETO option	2200K / 3000K			2200K / 2400K / 3000K / 4000K	

Remarks

Compatible transformers – (1) 913710032267 LED Transformer 60W 24VDC
OR (2) 913710032567 LED Transformer 120W 24VDC

Specification of IP44 version

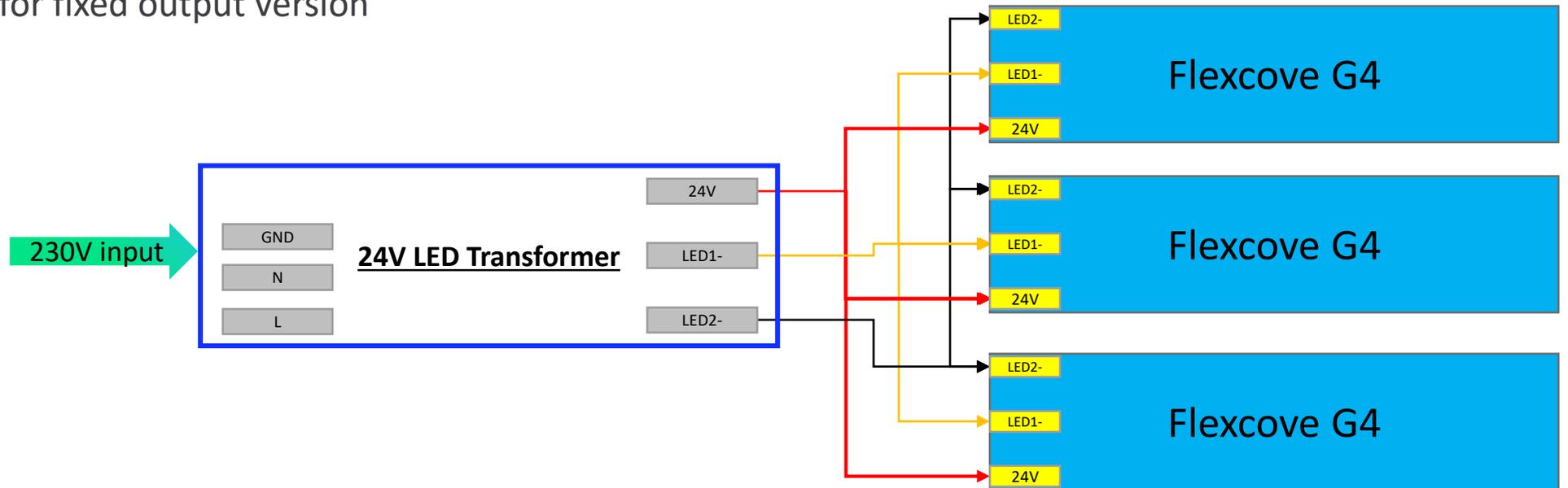
		Flex Cove IP44						
		824	827	840	865	927	Tunable White version	
System performance	Working temperature range	-20°C ~ +35°C						
	Lifetime (ta 25°C) @L70B50	30,000 hours						
	Ambient temperature of operation	25°C						
Optical	Color consistency	SDCM ≤3(between rolls); SDCM≤4 @ 6500K					NA	
	CRI	≥80			≥90		≥80	
	CCT	2380K±62K	2700K±62K	3980K±118K	6400K±291K	2700K±62K	1000K~ 4000K	2700K~6500K
	Initial lumen output range	Based on 2700K 1. Typical: 400 lm/m, Range: 360-440 lm/m 2. Typical: 800 lm/m, Range: 720-880 lm/m 3. Typical: 1200 lm/m, Range: 1080-1320 lm/m 4. Typical: 1600 lm/m, Range: 1440-1760 lm/m					200lm/m@1000K; 900lm/m@2400K; 900lm/m@2700K; 900lm/m@3000K; 800lm/m@4000K;	500lm/m@2700K; 500lm/m@3000K; 1000lm/m@4000K; 550lm/m@5700K; 500lm/m@6500K;
	Typ. efficacy - 400lm/m	95lm/W	95lm/W	105lm/W	105lm/W	85lm/W	NA	
	Typ. efficacy - 800lm/m	85lm/W	90lm/W	100lm/W	100lm/W	75lm/W	NA	
	Typ. efficacy - 1200lm/m	80lm/W	85lm/W	95lm/W	95lm/W	75lm/W	NA	
	Typ. efficacy - 1600lm/m	80lm/W	85lm/W	95lm/W	95lm/W	75lm/W	NA	
Mechanical & appearance	IP	IP44				IP44		IP44
	Min cut length	10cm					12.5cm	
	IK	IK03						
Electrical	Supply Voltage	24VDC ±10%						
Tunable White	Tunable White	NA			NA		Yes	
Control function		On/off & Dimmable (1-10V, Dali)						
Approbation & Report		CB report, LM79, IP test, thermal test						
Others	ETO option	2200K / 3000K			2200K/2400K/3000K/4000K		NA	

Remarks

Compatible transformers – (1) 913710032267 LED Transformer 60W 24VDC
OR (2) 913710032567 LED Transformer 120W 24VDC

System architecture – On/off

Wiring /connection for fixed output version



Note :

1. 24V DC Power Supply:

913710032567 LED transformer 120W 24VDC OR

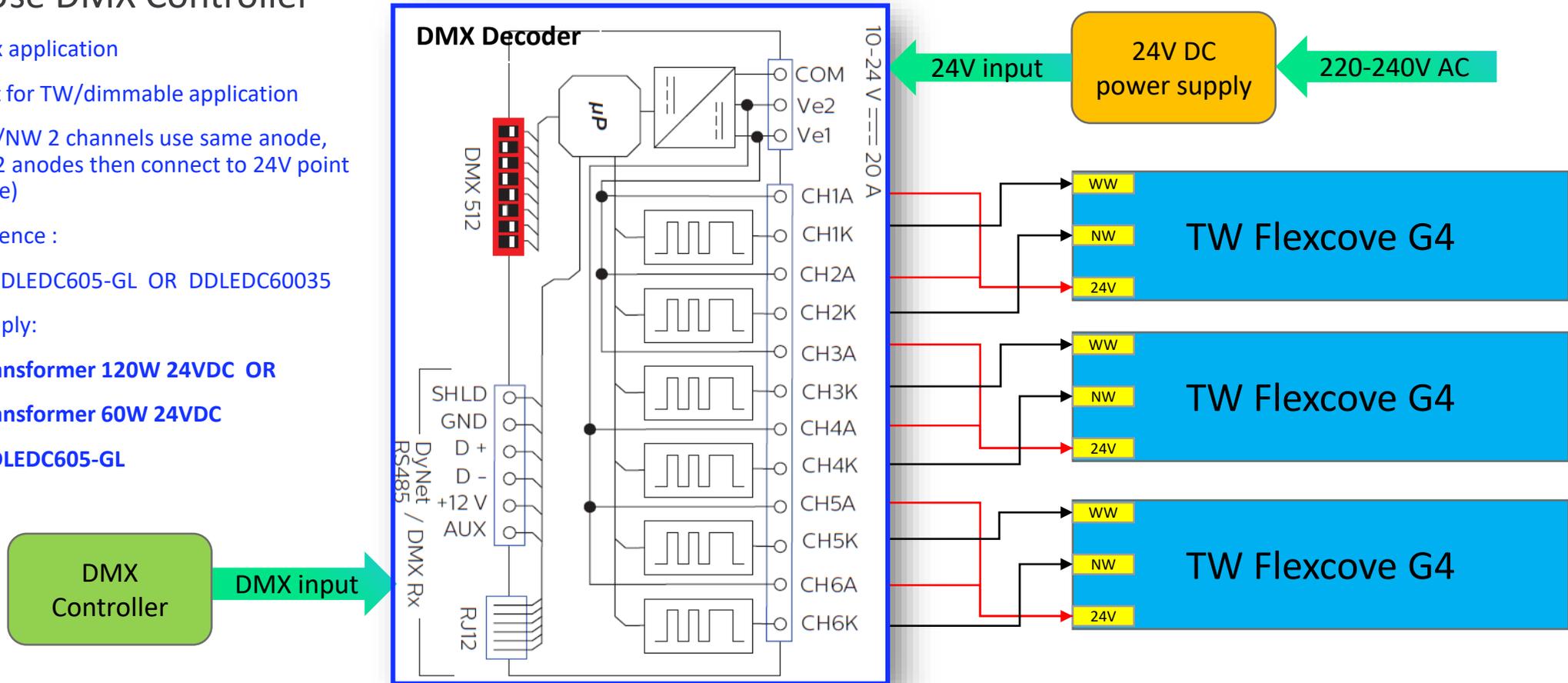
913710032267 LED transformer 60W 24VDC

2. The FlexCove LED1-/LED2- 2 channels use same anode, need to short the 2 anodes then connect to 24V point (24V point is Anode), check detailed design in info for the connection.

System architecture – Tunable white (DMX)

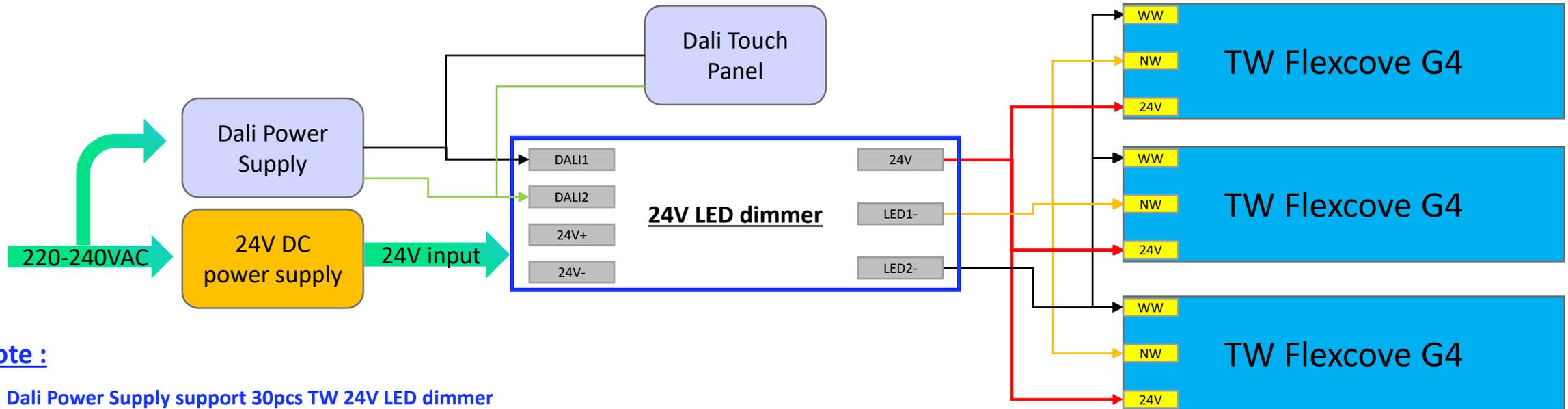
Scenario 1: Use DMX Controller

- I. 24VDC input for fix application
 - II. 24VDC PWM input for TW/dimmable application
 - III. The FlexCove WW/NW 2 channels use same anode, need to short the 2 anodes then connect to 24V point (24V point is Anode)
 - IV. DMX System Reference :
 - a) DMX controller: DDLEDC605-GL OR DDLEDC60035
 - b) 24V DC Power Supply:
- 913710032567 LED transformer 120W 24VDC OR**
913710032267 LED transformer 60W 24VDC
- c) DMX decoder: DDLEDC605-GL



System architecture – Tunable white (Simple control)

Scenario 2 (For tunable white): Simple control system



Note :

1. Dali Power Supply support 30pcs TW 24V LED dimmer
2. The FlexCove WW/NW 2 channels use same anode, need to short the 2 anodes then connect to 24V point (24V point is Anode)
3. Dali System Reference :
 - a) Dali Power Supply : 911401735742 Dali-130 Dali power supply
 - b) Dali Touch Panel: 911401735732 Dali-P03 Dali touch panel controller
 - c) 24V LED dimmer: Bought by end user (DALI 6002E1)

FlexCove G4 Vs G3

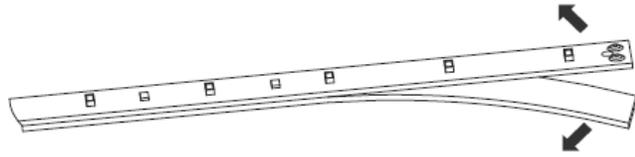
	FlexCove G3	FlexCove G4
Lumen output	400lm, 800lm,1200lm	400lm, 800lm, 1200lm, 1600lm
System efficacy Ave.	Up to 105 lm/W	Up to 110lm/W
CCT	2400K, 2700K, 4000K, 5700K (ETO-3000K)	2400K, 2700K, 4000K, 6500K (ETO-3000K)
CRI	80 & 90	80 & 90
SDCM	≤3 (between rolls); ≤4 @ 5700K	≤3 (between rolls); ≤4 @ 6500K
System compatibility	PWM, 1-10V, Tunable white (1000~4000K)	PWM, 1-10V, DALI , Tunable white(1000~4000K, 2700~6500K)
Tunable white system	DMX	DMX, DALI simple control (Dali power & control panel)
Lifetime	30,000hours L70 Ta 25° C	30,000hours L70 Ta 25° C (50,000hours option via ETO)



New Tunable white solution

- **Plug & play** – *No commissioning required on site*
- **User friendly** – *Easy dimming and CCT changing interface*
- **Cost effective** – *Minimal system cost per light point*

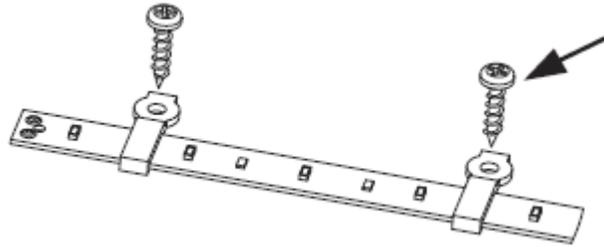
Product Installation



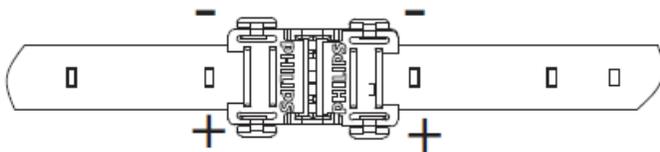
IP20 -Tear off the adhesive tape for installation



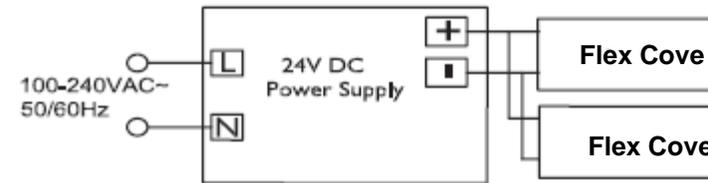
IP44 - Mounting clip for fixation



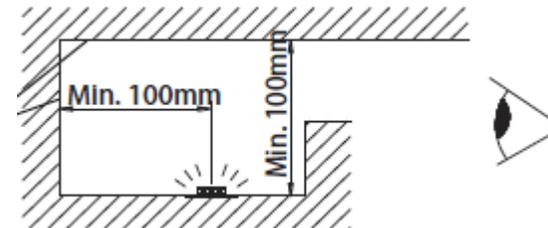
IP20 -Mounting clip for fixation



IP20 - Connection after cutting



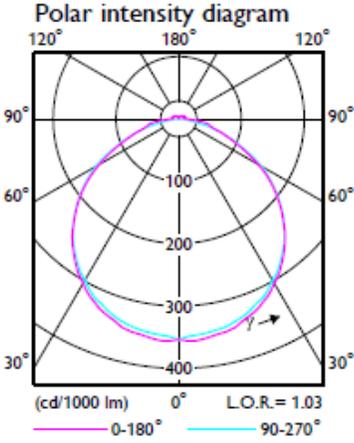
Power supply wiring – On/off



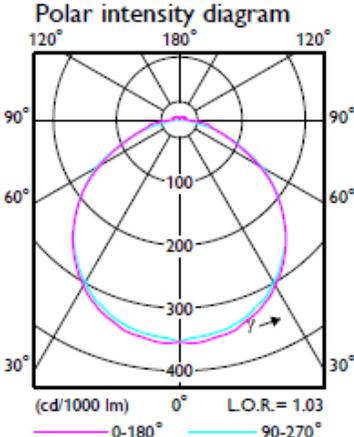
Recommended min, distance between FlexCove and visible illuminated surface

More details about installation and connection can be found in the mounting instruction

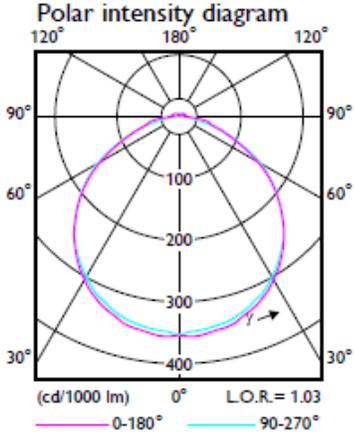
Product Photometry



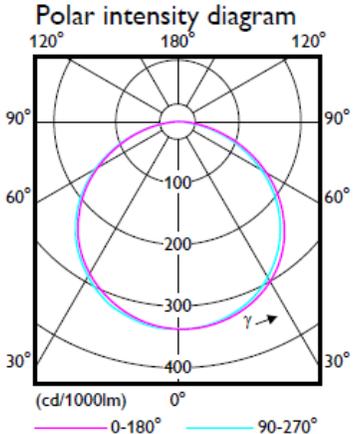
IP20 400lm CRI80



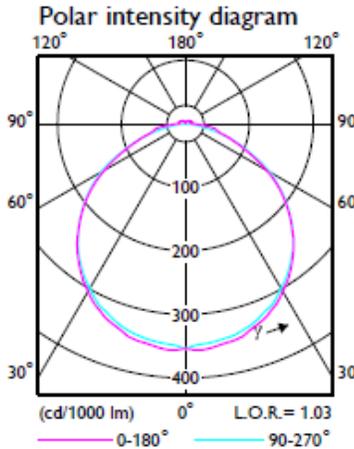
IP20 800lm CRI80



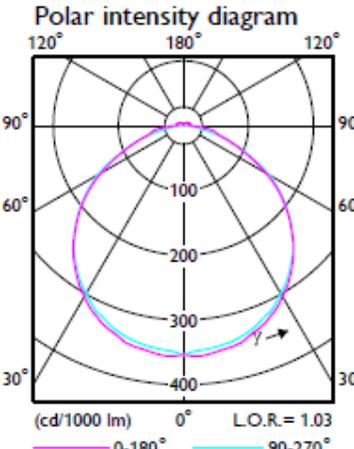
IP20 1200lm CRI80



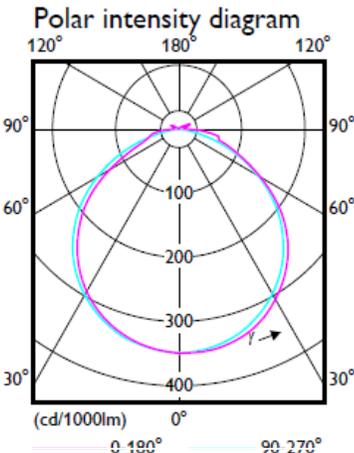
IP20 1600lm CRI80



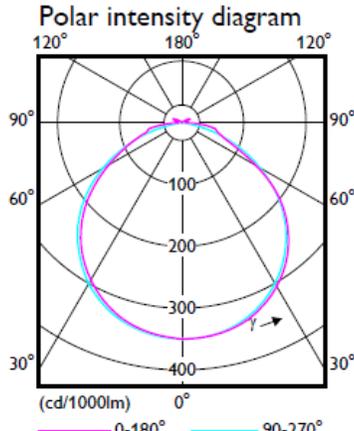
IP44 400lm CRI80



IP44 1200lm CRI80



Tunable white 1000~4000K



Tunable white 2700~6500K

More types of photometric files available on request

Product ordering information

12NC	Description	Typ.Lumen	CCT	CRI	IP Rating	MOQ (pc)
911401759402	LS170S LED4 827 IP20 L5000	400lm	2700K	80	IP20	10
911401759412	LS170S LED4 840 IP20 L5000	400lm	4000K	80	IP20	10
911401759422	LS170S LED4 865 IP20 L5000	400lm	6500K	80	IP20	10
911401759432	LS170S LED8 824 IP20 L5000	800lm	2400K	80	IP20	10
911401759442	LS170S LED8 827 IP20 L5000	800lm	2700K	80	IP20	10
911401759452	LS170S LED8 840 IP20 L5000	800lm	4000K	80	IP20	10
911401759482	LS170S LED12 827 IP20 L5000	1200lm	2700K	80	IP20	10
911401759492	LS170S LED12 840 IP20 L5000	1200lm	4000K	80	IP20	10
911401759522	LS170S LED16 827 IP20 L5000	1600lm	2700K	80	IP20	10
911401759532	LS170S LED16 840 IP20 L5000	1600lm	4000K	80	IP20	10
911401759552	LS170S LED4 824 IP44 L5000	400lm	2400K	80	IP44	10
911401759562	LS170S LED4 827 IP44 L5000	400lm	2700K	80	IP44	10
911401759572	LS170S LED4 840 IP44 L5000	400lm	4000K	80	IP44	10
911401759582	LS170S LED4 865 IP44 L5000	400lm	6500K	80	IP44	10
911401759602	LS170S LED8 827 IP44 L5000	800lm	2700K	80	IP44	10
911401759612	LS170S LED8 840 IP44 L5000	800lm	4000K	80	IP44	10
911401759642	LS170S LED12 827 IP44 L5000	1200lm	2700K	80	IP44	10
911401759652	LS170S LED12 840 IP44 L5000	1200lm	4000K	80	IP44	10
911401759672	LS170S LED16 824 IP44 L5000	1600lm	2400K	80	IP44	10
911401759682	LS170S LED16 827 IP44 L5000	1600lm	2700K	80	IP44	10
911401759692	LS170S LED16 840 IP44 L5000	1600lm	4000K	80	IP44	10
911401759712	LS170S LED4 927 IP20 L5000	400lm	2700K	90	IP20	10
911401759722	LS170S LED8 927 IP20 L5000	800lm	2700K	90	IP20	10
911401759732	LS170S LED12 927 IP20 L5000	1200lm	2700K	90	IP20	10
911401759742	LS170S LED16 927 IP20 L5000	1600lm	2700K	90	IP20	10
911401759752	LS170S LED4 927 IP44 L5000	400lm	2700K	90	IP44	10
911401759762	LS170S LED8 927 IP44 L5000	800lm	2700K	90	IP44	10
911401759772	LS170S LED12 927 IP44 L5000	1200lm	2700K	90	IP44	10
911401759782	LS170S LED16 927 IP44 L5000	1600lm	2700K	90	IP44	10
911401759792	LS170S LED9 TNW IP44 L5000	900lm (Max.) @ 2700K	1000~4000K	80	IP44	10
911401759802	LS170S LED10 TNW IP44 L5000	1000lm (Max.)@4000K	2700~6500K	80	IP44	10

- More options available on request

Product ordering information – accessory & track

12NC	Description	Remarks	MOQ (pc)
911401760352	AC170Z PC-OP L1000	Opal diffused cover (For LED4&LED8, IP20&IP44 version)	50
911401760362	AC170Z TR-U L1000	U type track (For LED4&LED8, IP20&IP44 version)	50
911401760372	AC170Z TR-V L1000	V type track (For LED4&LED8, IP20&IP44 version)	50
911401760382	AC170Z PC-OP L1000 TW	Opal diffused cover (LED12,LED16 IP20&IP44 and TNW version)	50
911401760392	AC170Z TR-U L1000 TW	U type track (LED12,LED16 IP20&IP44 and TNW version)	50
911401760402	AC170Z TR-V L1000 TW	V type track (LED12,LED16 IP20&IP44 and TNW version)	50
911401760412	AC170Z mounting clip	Fixation kit for IP20 version	500
911401760422	AC170Z mounting clip WP	Fixation kit for IP44 version	500
911401760432	AC170Z End cap	End cap used after cutting (For LED4&LED8, IP20&IP44 version)	300
911401760442	AC170Z End cap TW	End cap used after cutting (LED12,LED16 IP20&IP44 and TNW version)	300
911401760452	AC170Z connector	Mechanical connection after cutting (For LED4&LED8, IP20&IP44 version)	100
911401760462	AC170Z connector TW	Mechanical connection after cutting (LED12,LED16 IP20&IP44 and TNW version)	100
911401760472	AC170Z connector with leader cable L	Eelectrical connection after cutting (For LED4&LED8, IP20&IP44 version)	50
911401760482	AC170Z connector with leader cable H	Eelectrical connection after cutting (For LED12,LED16 IP20&IP44 version)	50
911401760492	AC170Z connector with leader cable TW	Eelectrical connection after cutting (For Tunable white version)	50

Signify



Smartbright Waterproof TCW069



Classified

1x TLD 18W



2x TLD 18W



1x TLD 36W



2 x TLD 36W



	Safety Class (driver+system)	Class I
	fuse	Yes
	Power consumption (system)	L600 1 tube: 1*18W; L600 2 tube: 2*18W L1200 1 tube: 1*36W; L1200 2 tube: 2*36W
Mechanics	Housing material	PC
	Cover material (Diffuser)	PC
	Clips	Plastic
	Cable Gland	M20 (same as Coreline Waterproof)
	IPxx	IP65
	IKxx	IK08
	Ball-proof	follow IEC
	Glow wire rating	850C
	fire-rated	follow IEC
	Mounting	Via SS Brackets
	Power connection	Through connector (integrated fuse)
	Color(s) (and RAL code)	RAL 7035 (same as Coreline Waterproof)
	Size (LxWxH) + considerations	1xTLED L600: 665*70*84; 2xTLED L600: 665*95*84; 1xTLED L1200: 1275*70*84; 2xTLED L1200: 1275*95*84
Weight (Kg)	1xTLED L600: 0.6kg; 2xTLED L600:0.75kg; 1xTLED L1200: 1.1kg; 2xTLED L1200: 1.25kg	
	Packaging concept	1-in-1 brown box + 12/9-in-1 carton box
Thermal	Temperature Range	-10C - +35C (housing)
	Warranty (FCR<1%)	2 yr (housing only) Ta25C;
Maintenance	Luminaire Service class	B
Approbation	Approbation	ID: SNI (local complete)
	brand	PHILIPS
	Ta	25C
Others	RoHS/REACH	Yes
	PVC requirements	PVC cable
Accessories	SC, louvres, suspension set, braket,...	PVC cap(1pc); bracket(2pc); bulged tube 6*30(4pc); scew 4*30(4pc);
	add back plate (reflector)	Q215/mild steel with paiting(Ral 9003) thickness 0.35mm



Smartbright Waterproof TCW069



Classified

1x TLD 18W



2x TLD 18W



1x TLD 36W



2 x TLD 36W



	Safety Class (driver+system)	Class I
	fuse	Yes
	Power consumption (system)	L600 1 tube: 1*18W; L600 2 tube: 2*18W L1200 1 tube: 1*36W; L1200 2 tube: 2*36W
Mechanics	Housing material	PC
	Cover material (Diffuser)	PC
	Clips	Plastic
	Cable Gland	M20 (same as Coreline Waterproof)
	IPxx	IP65
	IKxx	IK08
	Ball-proof	follow IEC
	Glow wire rating	850C
	fire-rated	follow IEC
	Mounting	Via SS Brackets
	Power connection	Through connector (integrated fuse)
	Color(s) (and RAL code)	RAL 7035 (same as Coreline Waterproof)
	Size (LxWxH) + considerations	1xTLED L600: 665*70*84; 2xTLED L600: 665*95*84; 1xTLED L1200: 1275*70*84; 2xTLED L1200: 1275*95*84
Weight (Kg)	1xTLED L600: 0.6kg; 2xTLED L600:0.75kg; 1xTLED L1200: 1.1kg; 2xTLED L1200: 1.25kg	
	Packaging concept	1-in-1 brown box + 12/9-in-1 carton box
Thermal	Temperature Range	-10C - +35C (housing)
	Warranty (FCR<1%)	2 yr (housing only) Ta25C;
Maintenance	Luminaire Service class	B
Approbation	Approbation	ID: SNI (local complete)
	brand	PHILIPS
	Ta	25C
Others	RoHS/REACH	Yes
	PVC requirements	PVC cable
Accessories	SC, louvres, suspension set, braket,...	PVC cap(1pc); bracket(2pc); bulged tube 6*30(4pc); scew 4*30(4pc);
	add back plate (reflector)	Q215/mild steel with paiting(Ral 9003) thickness 0.35mm



Green Up Deep Recessed



Further **Directions** to be driven



Recessed Downlight – Deep Recessed is Trend

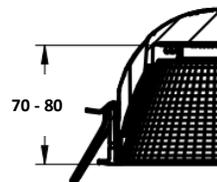
LUX SPACE PRO



Climate action

Continuous LUX SPACE design language.
Narrow rim width.
Deep recessed
Refreshed reflector pattern.

Brighter Lives



- Differentiated look & feel
- Differentiated offering
- Differentiated SPEC

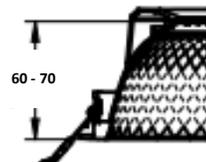
GreenSpace G6



Climate action



Brighter Lives



- Mainstream market trend
- Complete family offering
- Strong SPEC IN features
- Price & Performance balance

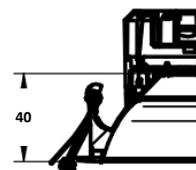
20%-30%
cost delta



GreenUp deep recessed



Climate action



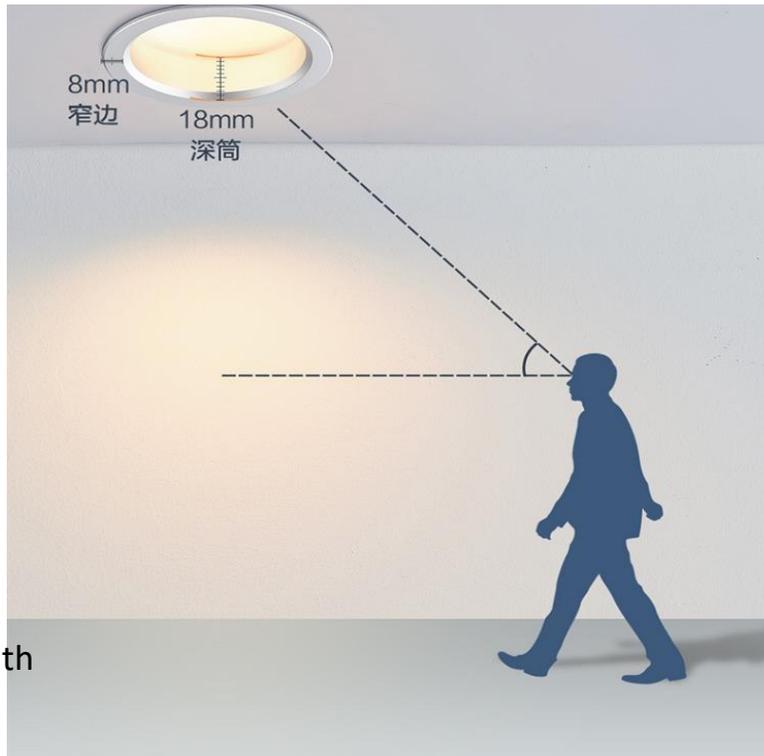
- COST fighter for MEGA projects
- Good enough SPEC
- Key runner SKU

What We perceived is happening today.

- Entry LEVEL deep recessed downlight
- Is starting being a new category even online.



OPPLE

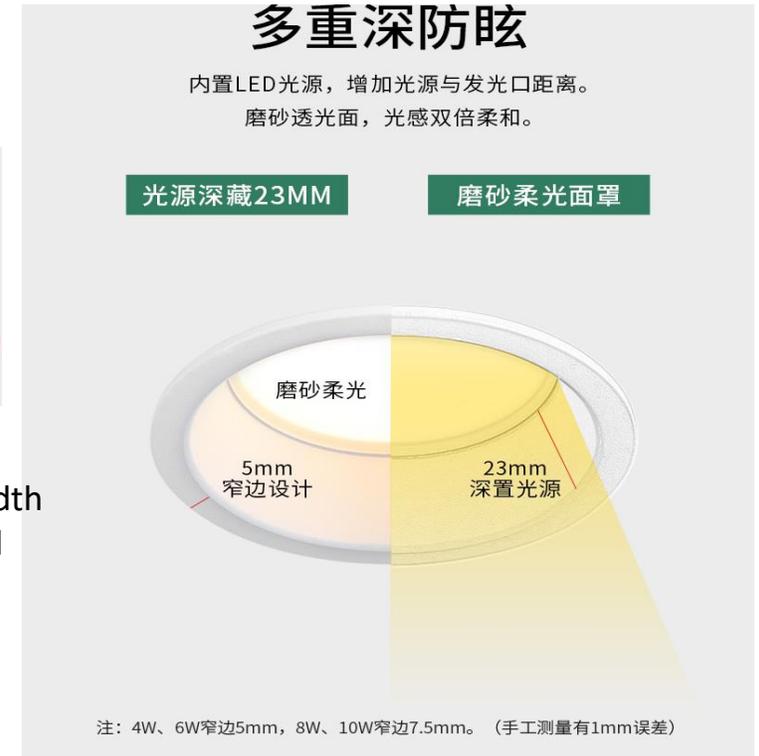


- 8mm narrow trim width
- 18mm deep recessed

NVC



- 5mm narrow trim width
- 23mm deep recessed



GreenUp – MRS

	GreenUp Downlight - DN035	GreenUp Downlight G2 - deep recessed			
pic					
Flux packages (lm)	D100: 600/ D150:800/D175: 1200/D200: 1500	D75	D100	D150	D200
Dimensions cut-out(mm)	D100/D150/D175/D200	380lm/600lm	620lm , 950lm	1600lm, 2000lm, 2200lm(ETO)	2200lm, 3200lm
Power (W)	7/9/14/16 (W)	4W/5.5W	6W/8.5W	13W/16.5W/18W(ETO)	18W/26W
CCT (K)	3000/4000/5000	3000K,4000K, 6500K			
CRI	80	80			
SDCM	<5	≤5			
Beam shapes	WB (100°)	WB (90°±10°)			
Glare control	NA	NA	NA	NA	NA
exit window (material, clear, diffuse...)	Diffuser	Diffuser			
Flicker performance	NA	Flicker Free, integrated driver			
Input voltage	220-240V 50/60Hz	220-240V 50/60Hz			
Power Factor	>0.9	0.5	0.9		
System efficiency	>85lm/w	100lm/W(≥90% @840)		110lm/W (≥90% @840)	
Dimension	D100/D150/D175/D200	φ85*H45	φ110*H60	φ160*H80.5	φ214*H105.5
Dimming/Control	PSU	PSU			
LED life time	30k hrs L70B50	30k hrs L70B50 Ta 25°C			
Electrical Class		Class II			
Operating temperature	-20°C - +40°C	-20°C - +40°C			
IP	IP20	IP20 / IP54 – front light exit window(ETO option)			
IK		IK03			
Housing material	Metal	Plastic			
Housing Color	White housing, black back	White housing, black back			
Installation options	Recessed	Recessed			

Launch Schedule (SR)

Q1 2024

MOCK UP SAMPLE



Signify

The Signify logo, consisting of a stylized 'S' inside a circle followed by the word 'ignify' in a lowercase sans-serif font, is centered at the top of the image. The background is a dark, monochromatic rendering of a modern, dome-shaped ceiling light fixture with a textured, geometric pattern on its surface.

©ignify

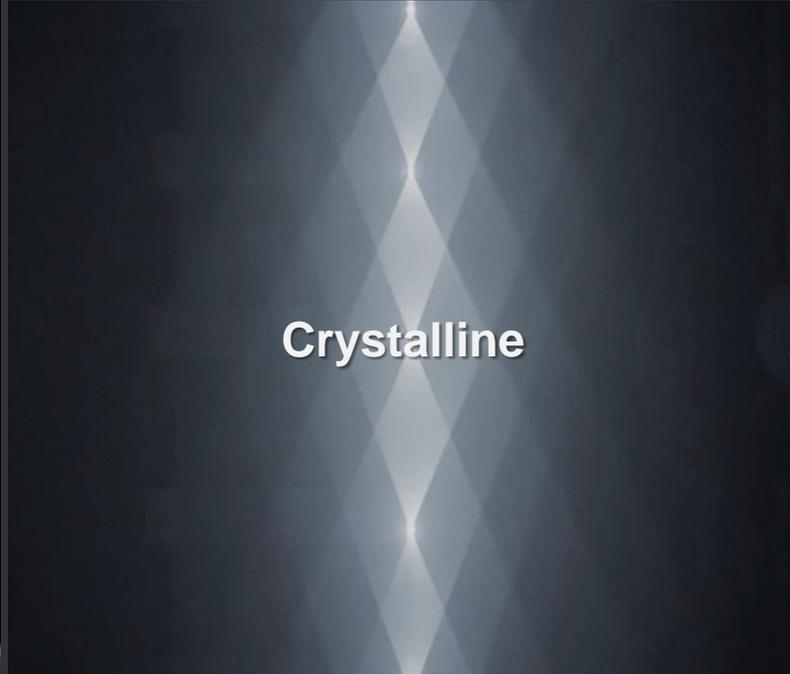
LuxSpace Pro

April.2024

Where do we **START** LuxSpace Pro?



Trustworthy



Outperformed



User Friendly

What can you **EXPECT** from LuxSpace Pro?

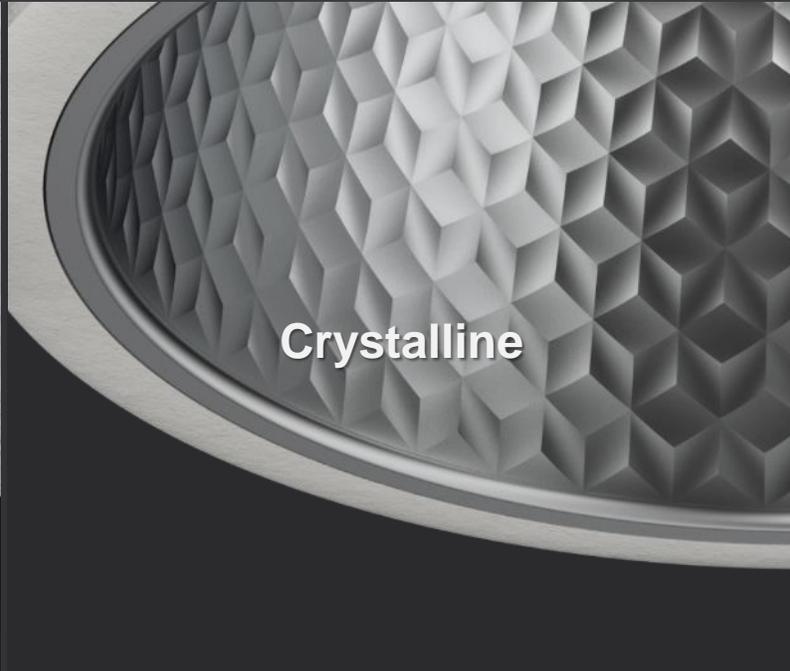


Nature of Airflow

75Khrs L70B50 | **50Khrs** **L80B10**

5 years warranty

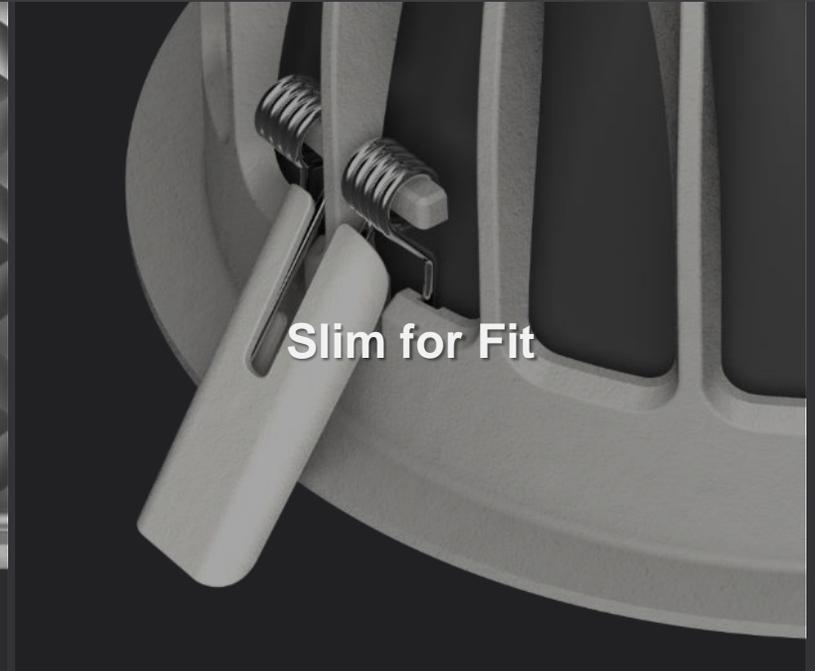
Improved **heat sink** design holding Signify **signature DNA** and managing extreme **thermal challenge**.



Crystalline

Best Balance between **energy saving (up to 170lm/W)** and **visual comfort (UGR19)**

Faceted reflector pattern design, enabling the less brightness, UGR19 and up to 170lm/W.



Slim for Fit

Elegant look & feel after easy installation.

Narrow rim width design with consideration of enough installation space.

What can you expect from LuxSpace Pro?

High ceiling

Airport | Exhibition Center | Lobby



Up to 8000lm

IP65 for front light exit window

Self-Owned Office

Meeting room | Reception



Wireless Interact

Tunable white with DALI2.0 & Wireless interact

R & H

Shopping Mall | Reception



Complete and comprehensive family

Cut out | Lumen output | optic | look & feel

©signify

Recessed Downlight Portfolio & Proposition – Deep Recessed is Trend

LuxSpace Pro



50Khrs L80B10

75Khrs L70B50

Climate action

Brighter Lives

- **Differentiated** look & feel
- **Differentiated** offering
- **Differentiated** SPEC

GreenSpace G6



50Khrs L80B50

Climate action

- **Mainstream** market trend
- Complete family offering
- Strong SPEC IN features
- Price & Performance balance

GreenUp deep recessed G2



30Khrs L70B50

Climate action

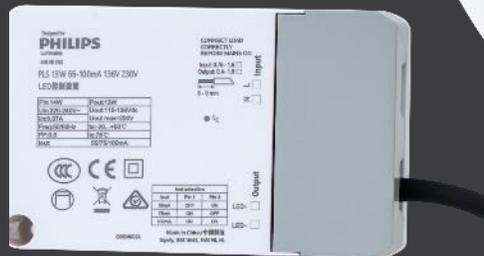
- **Entry Level** deep recessed
- COST fighter for MEGA projects
- Good enough SPEC
- Key runner SKU

Leading in specifications!

UE

Cut Out	Flux (lm)	Lm/W	UGR
D125	1200	160	<19
D150	1660	165	<19
D200	2280	170	<19

*The claim is based on 840



STD

Cut Out	Flux (lm)	Lm/W	UGR
D75	990	117	<16
D100	1070	128	<19
D125	1120	136	<19
D150	1790	137	<19
D200	2940	146	<19

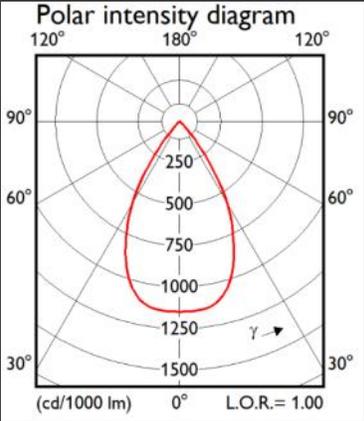
*The claim is based on 840



Create your lighting Environments!

Visual Comfort

More light into the task



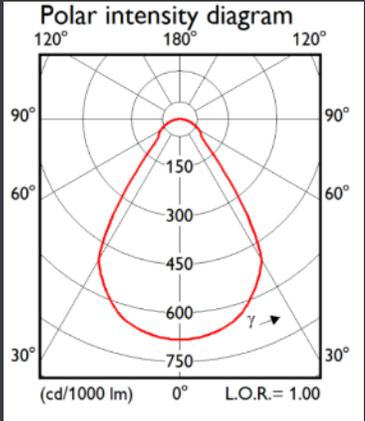
ALU Faceted, All cut out



ALU MATT, D125 & D200 only

Spacious lighting environment

More light into the space



WH Faceted, All cut out



WH MATT, D125 & D200 only

Versatile in Colorful offerings!



TimeLine in different WAVEs



UE version – all reflector

- D125 & D150 & D200
- **Standard code available**
- Readiness by **end of May. 2024.**



Aluminized reflector – Clear version.

- D125 & D200
- ETO available only
- Readiness by **end of June. 2024.**



Tunable White & Bio Up – all reflector

- D100 & D125 & D150 & D200
- **Standard code available**
- Readiness by **end of July. 2024.**

Family Overview – Standard



Reflector Types	Lumen Outputs	Lm/W	Wattage	UGR	Optic
Aluminized Faceted/Matt	1920	150	12.8	< 16	60°
	2940	146	20.1	< 19	60°
	4220	142	29.7	< 19	60°
	6120	134	45.5	< 22	60°
	8000	130	61.6	< 22	60°

Reflector Types	Lumen Outputs	Lm/W	Wattage	UGR	Optic
White Faceted/Matt	1950	153	12.8	< 25	80°
	3020	150	20.1	< 25	80°
	4320	146	29.7	> 25	80°
	6270	138	45.5	> 25	80°
	8170	133	61.6	> 25	80°

*The claim is based on 840

Family Overview – Standard



Reflector Types	Lumen Outputs	Lm/W	Wattage	UGR	Optic
Aluminized Faceted	1160	141	8.2	< 16	60°
	1790	137	13.1	< 19	60°
	2260	134	16.8	< 19	60°
	2700	130	20.8	< 19	60°



Reflector Types	Lumen Outputs	Lm/W	Wattage	UGR	Optic
White Faceted	1190	144	8.2	< 25	77°
	1830	140	13.1	> 25	77°
	2320	138	16.8	> 25	77°
	2790	134	20.8	> 25	77°

*The claim is based on 840

Family Overview – Standard



Reflector Types	Lumen Outputs	Lm/W	Wattage	UGR	Optic
Aluminized Faceted/Matt	520	126	4.1	< 16	60°
	870	134	6.5	< 16	60°
	1120	136	8.3	< 19	60°
	1740	131	13.3	< 19	60°
	2220	130	17.1	< 19	60°
	2640	125	21.2	< 22	60°

Reflector Types	Lumen Outputs	Lm/W	Wattage	UGR	Optic
White Faceted/Matt	530	129	4.1	< 25	73°
	900	138	6.5	< 25	73°
	1140	139	8.3	< 25	73°
	1790	134	13.3	> 25	73°
	2270	133	17.1	> 25	73°
	2700	128	21.2	> 25	73°

*The claim is based on 840

Family Overview – Standard



Reflector Types	Lumen Outputs	Lm/W	Wattage	UGR	Optic
Aluminized Faceted	500	121	4.1	< 16	60°
	1070	128	8.4	< 19	60°
	1650	122	13.5	< 22	60°

Reflector Types	Lumen Outputs	Lm/W	Wattage	UGR	Optic
White Faceted	530	127	4.1	< 25	78°
	1130	135	8.4	> 25	78°
	1740	129	13.5	> 25	78°

*The claim is based on 840

Family Overview – Standard



Reflector Types	Lumen Outputs	Lm/W	Wattage	UGR	Optic
Aluminized Faceted	450	108	4.2	< 16	57°
	990	117	8.5	< 16	57°
	1510	111	13.6	< 19	57°
	450	108	4.2	<9	36°
	990	117	8.5	<13	36°
	1510	111	13.6	<13	36°
	450	108	4.2	<9	24°
	990	117	8.5	<13	24°
	1510	111	13.6	13	24°

Reflector Types	Lumen Outputs	Lm/W	Wattage	UGR	Optic
White Faceted	470	113	4.2	> 25	61°
	1040	123	8.5	> 25	61°
	1590	117	13.6	> 25	61°

*The claim is based on 940

UE version – SPECIFICATION

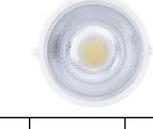
	Item	Recessed Round UE (5/6/8")
Luminaire	Lumen	5":1200lm / 6":1660lm / 8":2280lm
	Power	7.5W/10W/13.2W
	lm/W	5": 160lm/W , 6": 165lm/W, 8":170lm/W
	Lifetime	75khrs L70B50 50khrs L80B10
LED	CCT	4000K
	CRI	80
	SDCM	<=3
Optics	Reflector	Faceted Alu. / Matt. Alu. / Matt. White
	UGR	UGR19
Electrical	Input voltage	220~240V
	Frequency	50/60Hz
	Safety class	class II
	PF	0.9
	THD	<=20%
	Control type	PSU
	Flicking effect	Modulation depth<=3.2% PST<=0.5 SVM<=0.4
Mechanical	Mounting	Recessed
	IPxx	IP20 & Front face IP65
	IKxx	IK03
	Cut-out	5"/6"/8"
Thermal	Ta_typ	25 °C
	Thermal class	DO-NOT-COVER
Look&feel	Operating temperature	-20~40 C
	Housing material	Die Casting
	Colour of housing	White (Black & other ETO available)
Approbation	Certification	CCC/CB/CE/EMC
	Sustainability	RoHS/Reach
others	Packaging	Industry Package (1in1)
	Service part	Driver

STD version – SPECIFICATION

	Item	Recessed Round (3/4/5/6/8")
Luminaire	Lumen	450lm – 8000lm
	Power	4.2W – 61.6W
	lm/W	Typ. 130lm/W
	Lifetime	75khrs L70B50 50khrs L80B10
LED	CCT	2700/3000/3500/4000
	CRI	80 & 90
	SDCM	<=3
Optics	Reflector	Faceted Alu. / Matt. Alu. / Matt. White
	UGR	UGR16 / UGR 19 / Others
Electrical	Input voltage	220~240V
	Frequency	50/60Hz
	Safety class	class II
	PF	0.9
	THD	<=20%
	Control type	fix/1-10V/DALI 2.0/WIA
	Flickling effect	Modulation depth<=3.2% PST<=0.5 SVM<=0.4
Mechanical	Mounting	Recessed
	IPxx	IP20 & Front face IP65
	IKxx	IK03
	Cut-out	3/4/5/6/8"
Thermal	Ta_typ	25 C
	Thermal class	DO-NOT-COVER
Look&feel	Operating temperature	-20~40 C
	Housing material	Die Casting
Approbation	Colour of housing	White (Black & other ETO available)
	Certification	CCC/CB/CE/EMC
others	Sustainability	RoHS/Reach
	Packaging	Industry Package (1in1)
	Service part	Driver

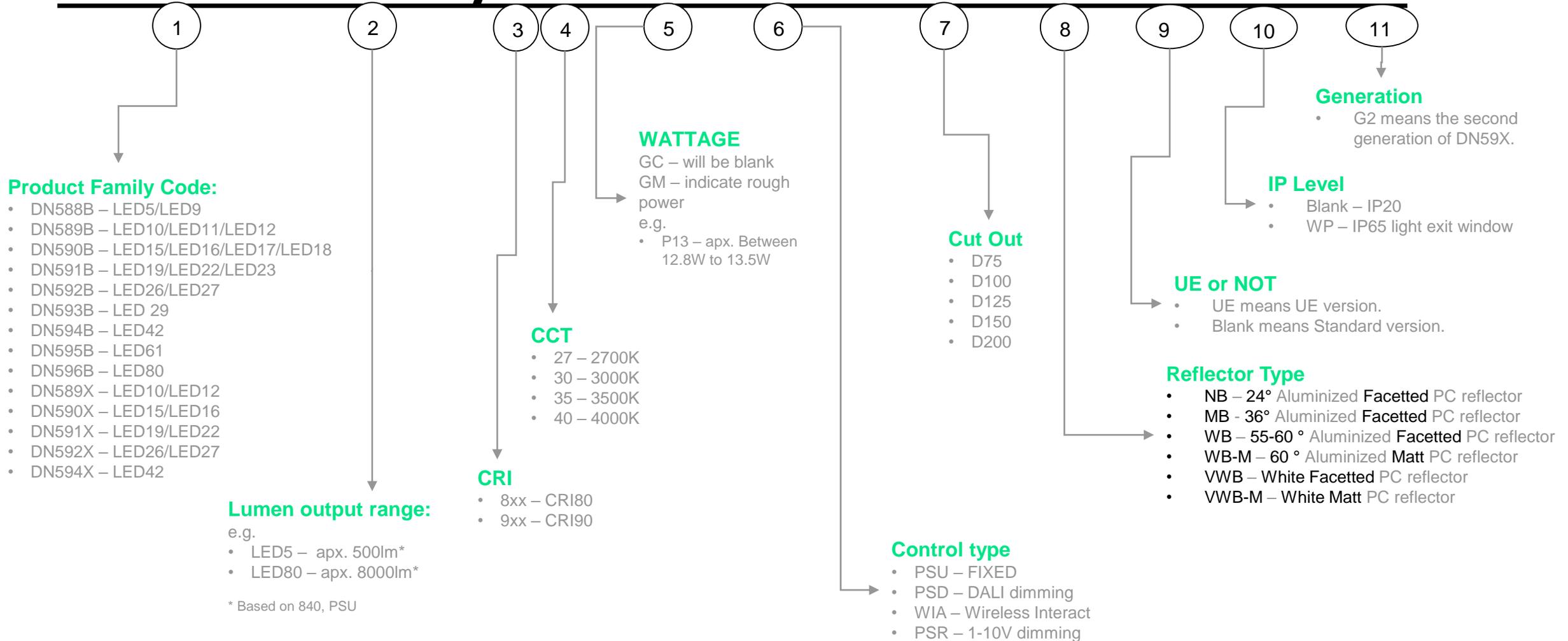
Product Specification – PF & THD overview

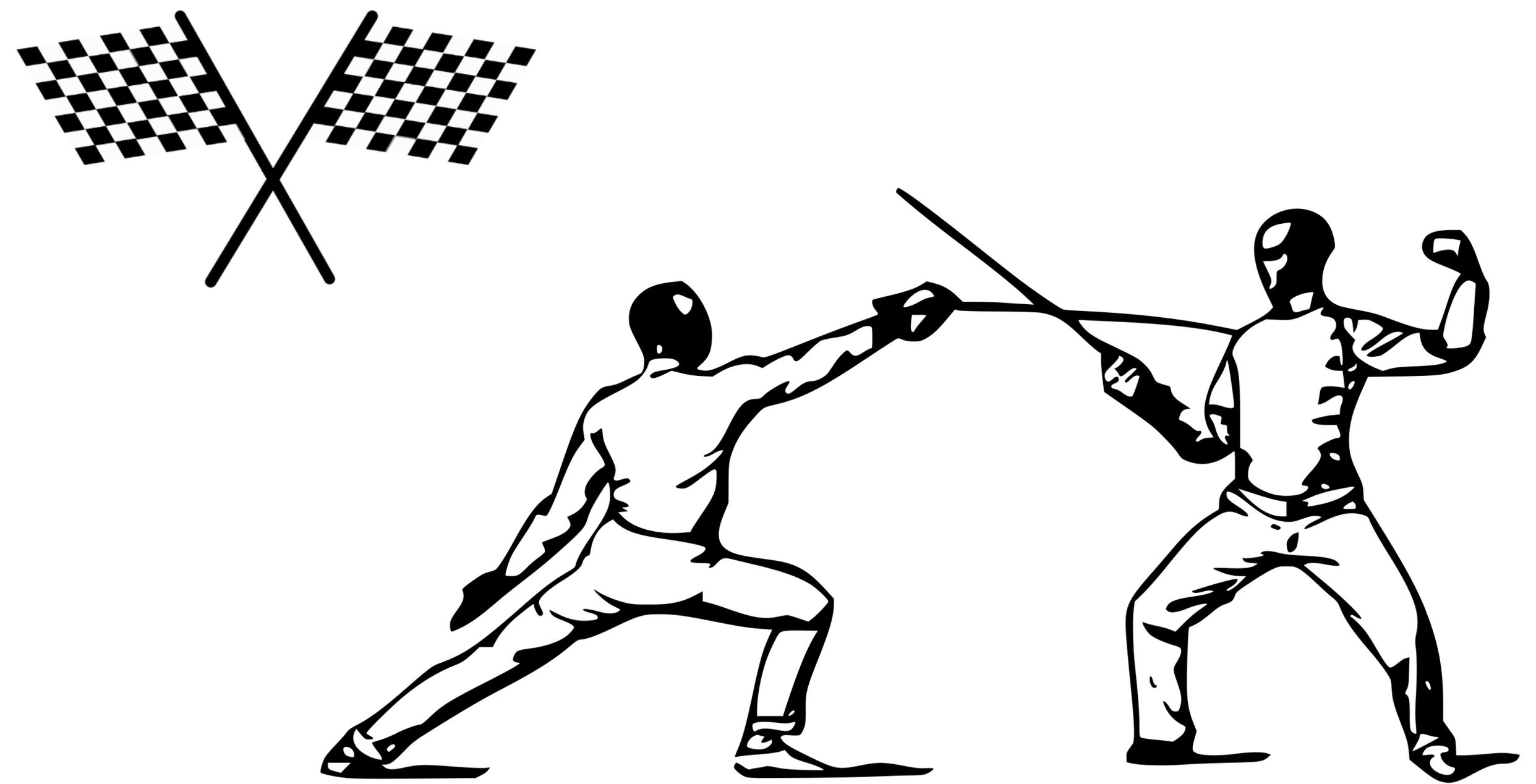
	PSU			1-10V		PSD		WIA	
Cut-out	Lumen Package	PF	THD	PF	THD	PF	THD	PF	THD
3"	450	0.95	<20	-	-	-	-	-	-
	990	0.95	<15	0.9	<20	0.9	<20	0.9	<20
	1510	0.95	<10	0.95	<20	0.95	<15	0.95	<15
4"	500	0.95	<20	-	-	-	-	-	-
	1070	0.95	<15	0.9	<20	0.9	<20	0.9	<20
	1650	0.95	<10	0.95	<20	0.95	<15	0.95	<15
5"	520	0.95	<20	-	-	-	-	-	-
	870	0.95	<15	-	-	-	-	-	-
	1120	0.95	<15	0.9	<20	0.9	<20	0.9	<20
	1740	0.95	<10	0.95	<20	0.95	<15	0.95	<15
	2220	0.95	<10	-	-	0.9	<20	0.95	<15
	2640	0.95	<10	0.95	<20	0.95	<10	0.95	<15
6"	1160	0.95	<15	0.9	<20	0.9	<20	0.9	<20
	1790	0.95	<10	0.95	<20	0.95	<15	0.95	<15
	2260	0.95	<10	-	-	0.9	<20	0.95	<15
	2700	0.95	<10	0.95	<20	0.95	<10	0.95	<15
8"	1920	0.95	<10	0.95	<20	0.95	<15	0.95	<15
	2940	0.95	<10	0.95	<20	0.95	<15	0.95	<15
	4220	0.95	<15	0.95	<15	0.95	<15	0.95	<15
	6120	0.95	<15	0.95	<15	0.95	<10	-	-
	8000	0.95	<15	-	-	0.95	<10	-	-
5"	1200	0.9	<20						
6"	1660	0.9	<20						
8"	2280	0.9	<20						

Flux	PSU						PSD						WIA					
	AL-F			WH-F	AL-M	WH-M	AL-F			WH-F	AL-M	WH-M	AL-F			WH-F	AL-M	WH-M
																		
	NB	MB	WB	VWB	WB-M	VWB-M	NB	MB	WB	VWB	WB-M	VWB-M	NB	MB	WB	VWB	WB-M	VWB-M
D75	450	IP20 / 930,940	IP20 / 930,940	IP20 / 930,940	ETO	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
D75	990	IP20 / 930,940	IP20 / 930,940	IP20 / 930,940	ETO	NA	NA	ETO	ETO	ETO	ETO	NA	NA	ETO	ETO	ETO	NA	
D75	1510	IP20 / 930,940	IP20 / 930,940	IP20 / 930,940	ETO	NA	NA	ETO	ETO	IP20 / 930,940	ETO	NA	NA	ETO	ETO	IP20 / 940	ETO	
D100	500	NA	NA	IP20 / 930,940	ETO	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
D100	1070	NA	NA	IP20 / IP65 840,930,940	ETO	NA	NA	IP20 / 930,940	ETO	NA	NA	NA	NA	NA	NA	IP20 / 940	ETO	
D100	1650	NA	NA	IP20 / 930,940	ETO	NA	NA	IP20 / 930,940	ETO	NA	NA	NA	NA	NA	NA	IP20 / 940	ETO	
D125	520	NA	NA	ETO	ETO	ETO	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
D125	870	NA	NA	IP20 / 830,840	ETO	ETO	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
D125	1120	NA	NA	IP20 / 830,840	ETO	ETO	NA	NA	IP20 / 830,840	ETO	ETO	ETO	IP20 / 830,840	NA	NA	ETO	ETO	
D125	1740	NA	NA	IP20 / IP65 830,840	ETO	ETO	NA	NA	IP20 / 830,840	ETO	ETO	ETO	IP20 / 830,840	NA	NA	ETO	ETO	
D125	2220	NA	NA	IP20 / 830,840	ETO	ETO	NA	NA	IP20 / 830,840	ETO	ETO	ETO	IP20 / 830,840	NA	NA	IP20 / 840	ETO	
D125	2640	NA	NA	IP20 / 830,840	ETO	ETO	NA	NA	IP20 / 830,840	ETO	ETO	ETO	IP20 / 830,840	NA	NA	IP20 / 840	ETO	
D150	1160	NA	NA	IP20 / 830,840	ETO	NA	NA	IP20 / 830,840	ETO	NA	NA	NA	NA	NA	NA	IP20 / 840	ETO	
D150	1790	NA	NA	IP20 / 830,840	ETO	NA	NA	IP20 / 830,840	ETO	NA	NA	NA	NA	NA	NA	ETO	ETO	
D150	2260	NA	NA	IP20 / IP65 830,840	ETO	NA	NA	IP20 / 830,840	ETO	NA	NA	NA	NA	NA	NA	ETO	ETO	
D150	2700	NA	NA	IP20 / 830,840	ETO	NA	NA	IP20 / 830,840	ETO	NA	NA	NA	NA	NA	NA	IP20 / 840	ETO	
D200	1920	NA	NA	IP20 / 830,840	ETO	ETO	NA	NA	IP20 / 830,840	ETO	ETO	ETO	IP20 / 830,840	NA	NA	IP20 / 840	ETO	
D200	2940	NA	NA	IP20 / 830,840	ETO	ETO	NA	NA	IP20 / 830,840	ETO	ETO	ETO	IP20 / 830,840	NA	NA	ETO	ETO	
D200	4220	NA	NA	IP20 / 830,840	ETO	ETO	NA	NA	IP20 / 830,840	ETO	ETO	ETO	IP20 / 830,840	NA	NA	IP20 / 840	ETO	
D200	6120	NA	NA	IP20 / 830,840	ETO	ETO	NA	NA	IP20 / 830,840	ETO	ETO	ETO	IP20 / 830,840	NA	NA	NA	NA	
D200	8000	NA	NA	IP20 / 830,840	ETO	ETO	NA	NA	IP20 / 830,840	ETO	ETO	ETO	IP20 / 830,840	NA	NA	NA	NA	

LuxSpace Pro – Designation

DN591B LED23/930 P13PSU D200 WB UE WP G2

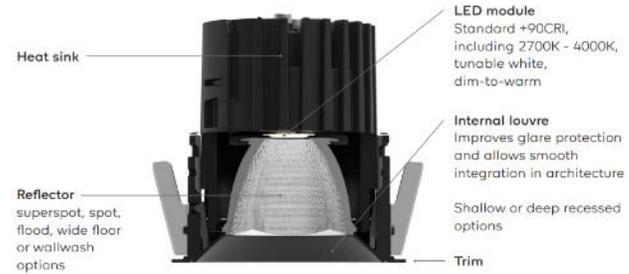




What is there in the Market? – Make Downlight from Accent



kreon aplis 60



CON 西顿照明



YHJ075C2PW
1-28



CEJ62055
1-30



CEJ62055W
1-31



CEJ62055R
1-32



CEJ62055RW
1-33



CEJ62055R-2
1-34

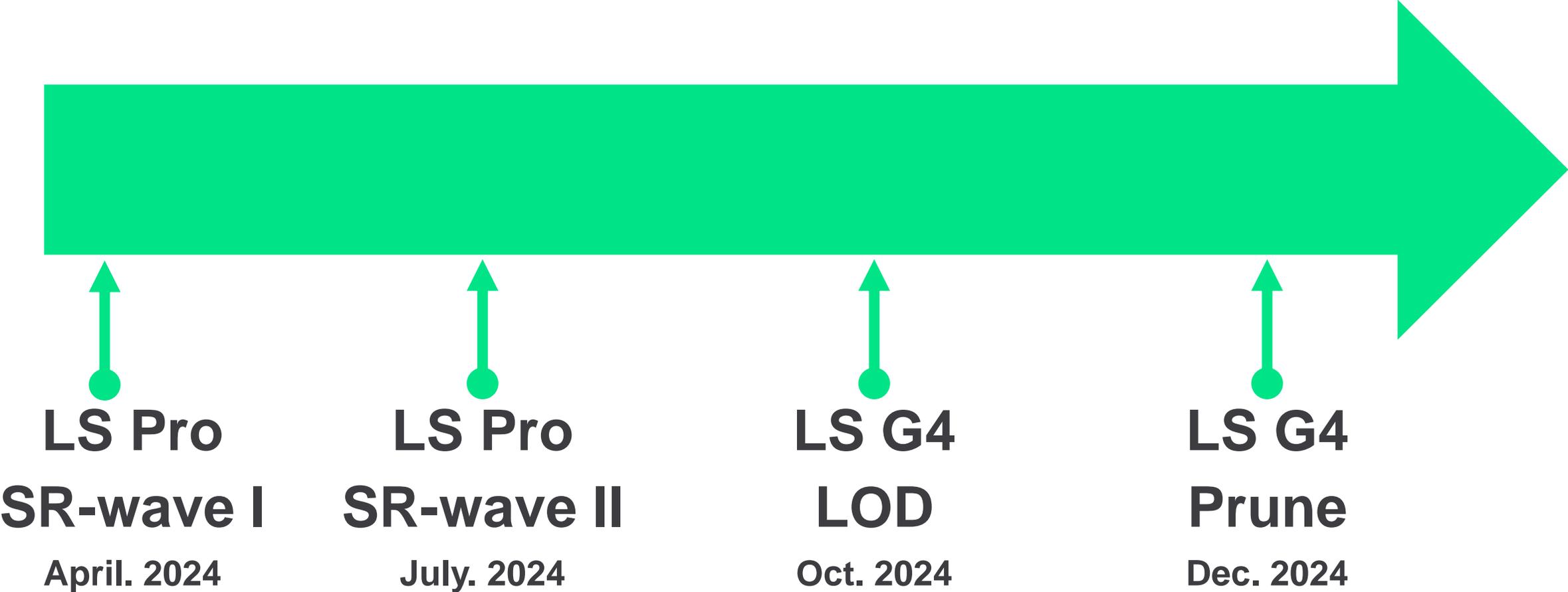


CEJ61075
1-35



	Brand	PHILIPS	ENDO	VF	iGuzzini
	Photo				
Profile	Range name	LuxSpace Pro	synclite GENERAL	AIPS	EasyQF80
Electrical /Optical	Wattage	4.2 ~ 61.6W	10~35w	5~100W	16.7W/24.5W
	Lumen	450~8000lm	900lm/1400lm/2000lm/2400lm/3000lm	520~10000lm (D125_2150lm)	2193lm/3053lm
	UGR	UGR16, UGR<19, others	UGR<19	UGR<19	UGR<19
	Efficacy @D125	130lm/W & 160lm/W	100 lm/W	100~115 lm/W	typ. 130lm/W
	CRI (Ra)/CCT	827/830/835/840/927/930/935/940	830/835/840;930/935/940	927/930/940	830/840/930/940
	SDCM	<3	/	/	<2
	Beam Angle	D75: 24°/36°/60° D100/D125/D150/D200: 60° & 70°-80°	29° & 72°	15°/26°/36°/50°	46°
	Flicker	Flicker free	/	Flicker free	Flicker free
Mechanical	IP/IK	IP20 / IP65 (front cover)	IP20	IP20	IP20 / IP54 (front cover)
	cut-out Size	Ø3"/Ø4"/Ø5"/ Ø6"/ Ø8"	Ø3"/Ø4"/Ø5"	Ø3"/Ø4"/Ø5"/ Ø6"/ Ø8"	Ø6"/ Ø8"
	Housing	Die-cast Al, Black	Die-cast Al, Black	Die-cast Al, Black	Die-cast Al, Grey
	Frame	die-cast Al	die-cast Al	die-cast Al	die-cast Al
	reflector	Alu F / Alu M/ WH F/ WH M	coating: Polished Matt /white /black;(Aluminum)	mirror(Aluminum)	mirror(Aluminum)
Others	Control Type	Fixed output / DALI / 1-10V / WIA	Fixed output /0-10V	Fixed output / DALI /0-10V/Triac	Fixed output / DALI /0-10V/Triac
	Lifetime	75Khrs L70B50 & 50Khrs L80B10	/	50Khrs @ L70	50Khrs @ L90B10

Phase IN & Phase Out



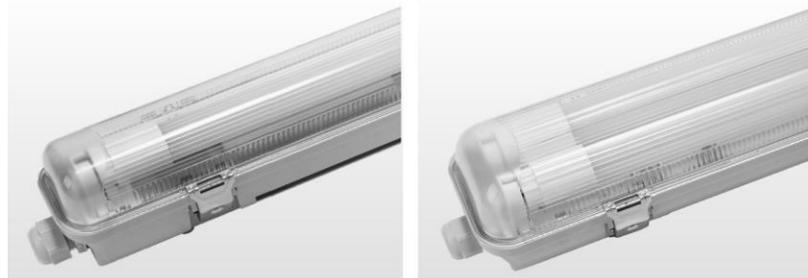
Signify



Bare TLED Waterproof

Dec 2019

Bare TLED Waterproof (Specifications)



Single TLED and Double TLED
2 ft and 4 ft



Steel Clips



No Base plate. Helps in
Thermal performance

	A Brand Bare TLED Waterproof
Safety Class (driver+system)	Class II
Housing material	PC
Cover material (Diffuser)	PC
Clips	Stainless Steel
Cable Gland	M20 (same as Coreline Waterproof)
IPxx	IP65
IKxx	IK08
Ball-proof	follow IEC
Glow wire rating	850C
fire-rated	follow IEC
Mounting	Via SS Brackets
Power connection	Through connector (integrated fuse)
Color(s) (and RAL code)	Light Grey (same as coreline waterproof)
Size (LxWxH) + considerations	Supplier provided
Weight (Kg)	Supplier provided
Packaging concept	1-in-1 + carton box
Temperature Range (depending on TLED)	-20C - +35C (housing only). (possible to have 10% lower lamp life at 35C for 2x4ft lamps)
Luminaire Service class	B
RoHS/REACH	Yes



**Essential Smartbright Projector
ST033T**
Product Information

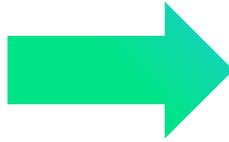


Saurabh Sinha. Sept 2021

Roadmap 2020-21 Commitment

SmartBright	SmartBright Projector ST031T&ST041T  CR180/CR190 21W/33W 2000lm/3000lm 15° /24° /36° 30K hrs @ L70 B50 @Ta 25° C		
Essential SmartBright	Essential SmartBright Projector ST030T  Black&White 800/1200/2000/3000lm 20K hours CR180, IP20, Class II 1C track	Par 30 Housing 	Essential SmartBright Track  Length: 1M
B Brand			

Market Feedback
 New Essential Smartbright Version needed
 A track need to be released with the luminaire
 Lower MOQ is needed



New Sleek and attractive Design

MOQ 500 -> 200 Pcs (resolve issues in ordering)

Release Track and accessories to support sales

Essential Smartbright Projector: ST033T



Application: Fashion, Retail, Hospitality

Unique selling point

- Unobtrusive design in white or black finish
- Different beam angle with Lumen output ranging from 550-2500 Lm.
- Energy-efficient: 80 lm/W
- Integrated driver and uniform track adaptor
- Color temperature 3000 or 4000 K

Essential SmartBright Projector ST033T is a value for money product designed for Mass market trade. This track based luminaire supports retailers to let their products stand out or highlight certain objects. The clean and contemporary design with integrated driver, and choices beam angle makes the Essential SmartBright Projector relevant to many applications. The choice of 2 colors in White and Black helps the Retailer to choose products best suited to blend into the Store Environment.

Compared to it's predecessor, it is not only cost effective, but also a more sleek and lighter product design. The product family includes 1M and 2M Track in Black and white color with I and L connector to support various applications.

Essential SmartBright Projector: ST033T Specification

Spec	Product Portfolio			
Product SKU	7W	10W	20W	30W
LED	SMD	COB		
Lumen output (typ.Avg) (lm)	3000K/4000K: 560lm/595lm	3000K/4000K: 800lm/850lm	3000K/4000K: 1600lm/1700lm	3000K/4000K: 2400lm/2500lm
lumen output tolerance (+/-)	±10%			
CRI	≥80			
CCT	3000K/4000K			
Beam Angle	33°±4°	24° (±4°) /36° (±4°)		
Input Voltage and Frenquency	220-240V ; 50/60Hz			
Protection class of the luminaire against electrical shock hazard according to IEC 61140	Class I			
fuse or short-circuit protection	Fuse/resistance			
Power Factor (system)	> 0.5	> 0.5	> 0.5	> 0.9
Power consumption (system)	7W	10W	20W	30W
power consumption tolerance (+/-)	±10%			
System Efficacy (lm/W)	3000K : ≥80lm/W 4000K : ≥85lm/W			
Ripple	ripple current<30% Pst<0.4 SVM<1.3			
Surge Protection	1/2kV			
Housing material	housing is aluminium			
Reflector/lens material (LG)	Lens is Polycarbonate			
Cover material (Diffuser)	ABS (Acrylonitrile Butadiene Styrene) for back cover			
Ring material (IPS)	Polycarbonate			
Tilt adjustable (IPS)	Swing 0-335°, Tilt 0-90°			
IPxx	IP20			
IKxx	IK03			
Ball-proof	No			
Glow wire rating	650°C, 30s			
Salt spray	48H for projector, track and connector			
Mounting	Track			

Track	Spec
Input Voltage and Frenquency	220~240V, 50/60Hz
max.current, A	11A
max. Power	2.4kW~2.6kW
working temp. range	-20~45°C
max relative humidity	93%
Fire test (ball pressure, glow wire, etc)	ball pressure 125°C, glow wire 650°C, current-carrying part can pass the needle flame test
max weight/m, kg	12kg
adapter max weight, kg	5kg
cable diameter	3*2.5mm ²
track color	white RAL9003/black RAL9017
track length	1m/2m
track size, mm	1000*35*17/2000*35*17
material and size of copper core	brass with copper plated
size, mm	928*3.7*0.6mm
housing material, thickness	Alumium, thickness 0.7mm
package	outer box 20 in 1/Shrink wrap
approbation	GB13961-2008, CB (IEC 60570)
connector	I type, L type

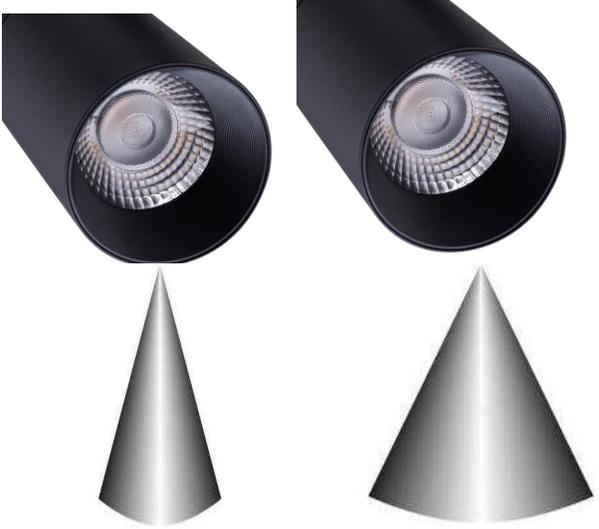
Essential SmartBright Projector: ST033T



Black & White Housing
color Choice



4 wattages and Lumen O/P to choose from



24 degree (NB) 36 degree (WB)
2 Beam Angles 7W is 33D (SMD Design)



4000K 3000K
2 CCTs to cover various applications



Comes with a CB compliant Track
compatible with Product 

Essential SmartBright Projector: ST033T.

Product Pictures



7W



10W



20W



30W



Essential SmartBright Projector: ST033T.

Product Pictures

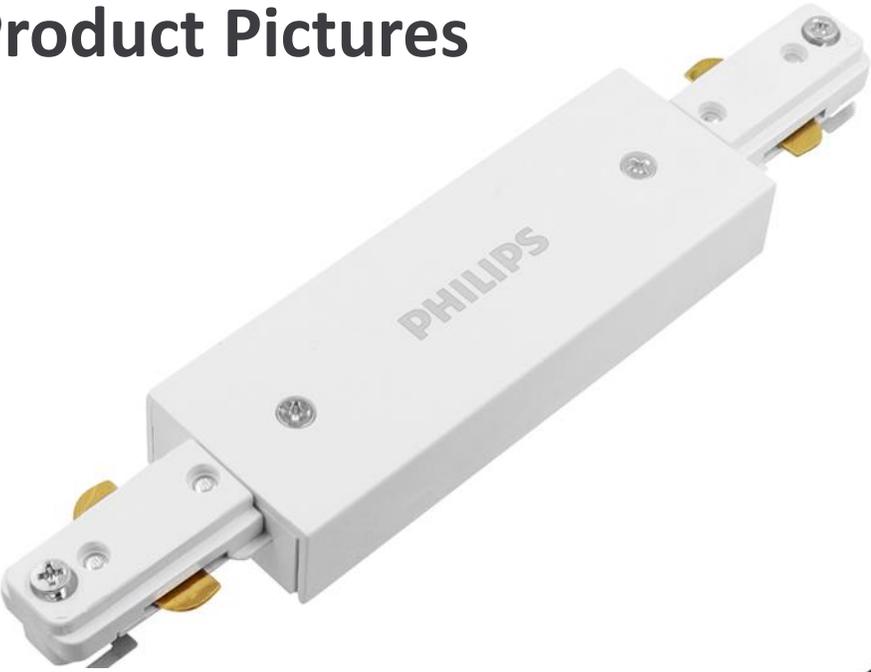


Essential SmartBright Projector: ST033T. Product Pictures



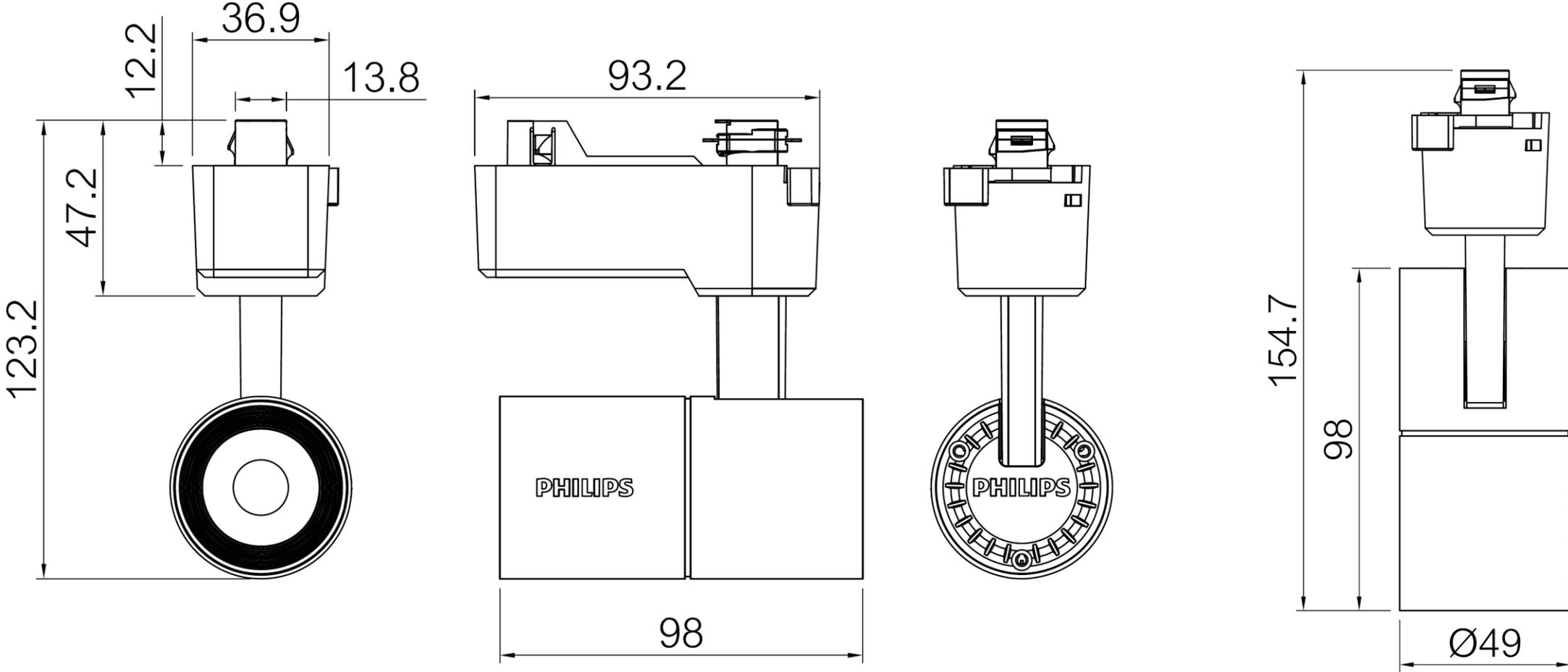
Track 1M/2M, Black/White

Essential SmartBright Projector: ST033T. Product Pictures



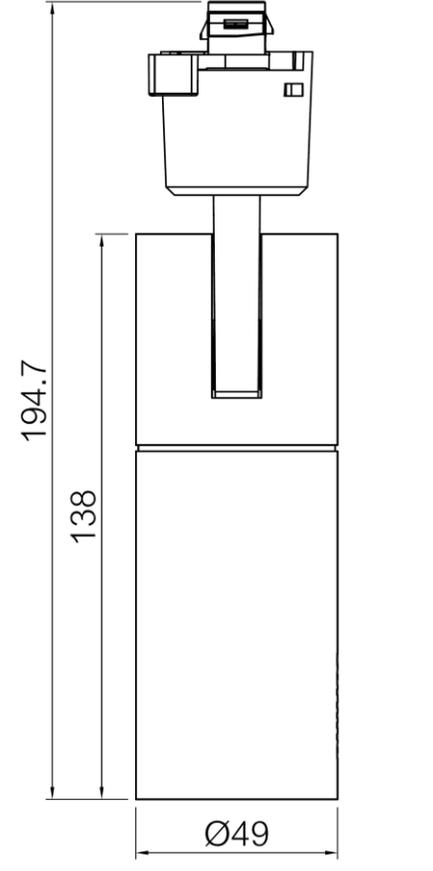
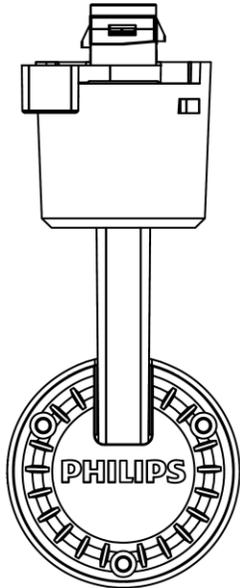
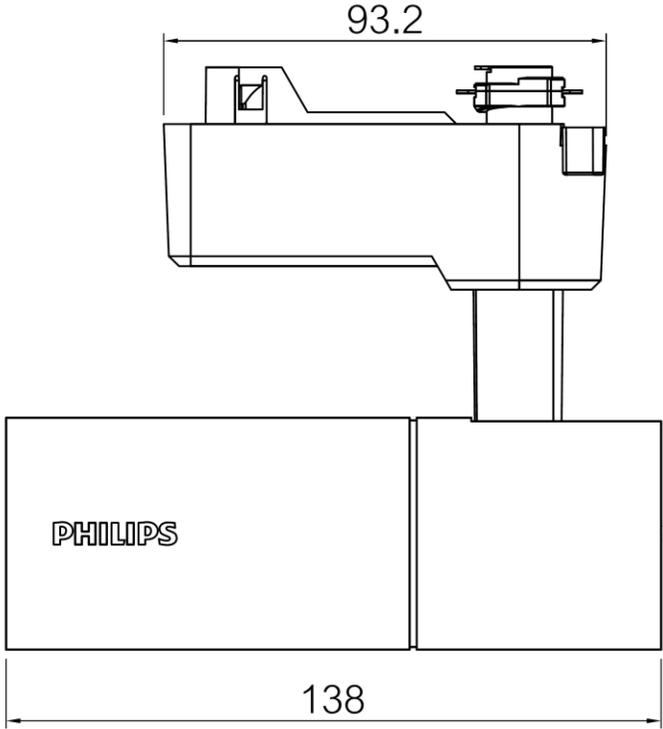
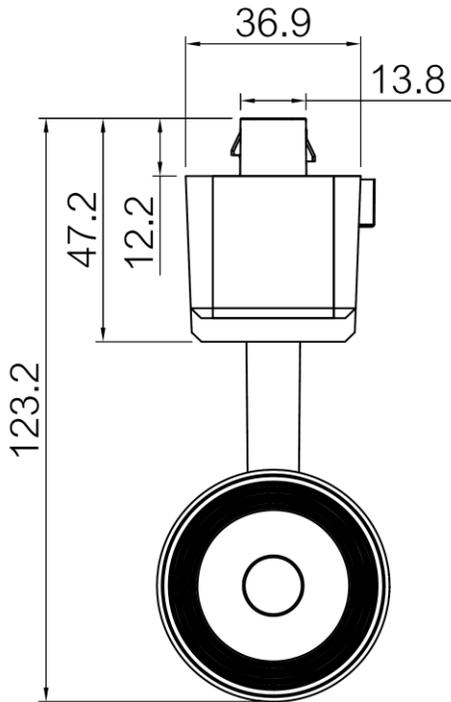
I & L Connectors

Essential SmartBright Projector: ST033T



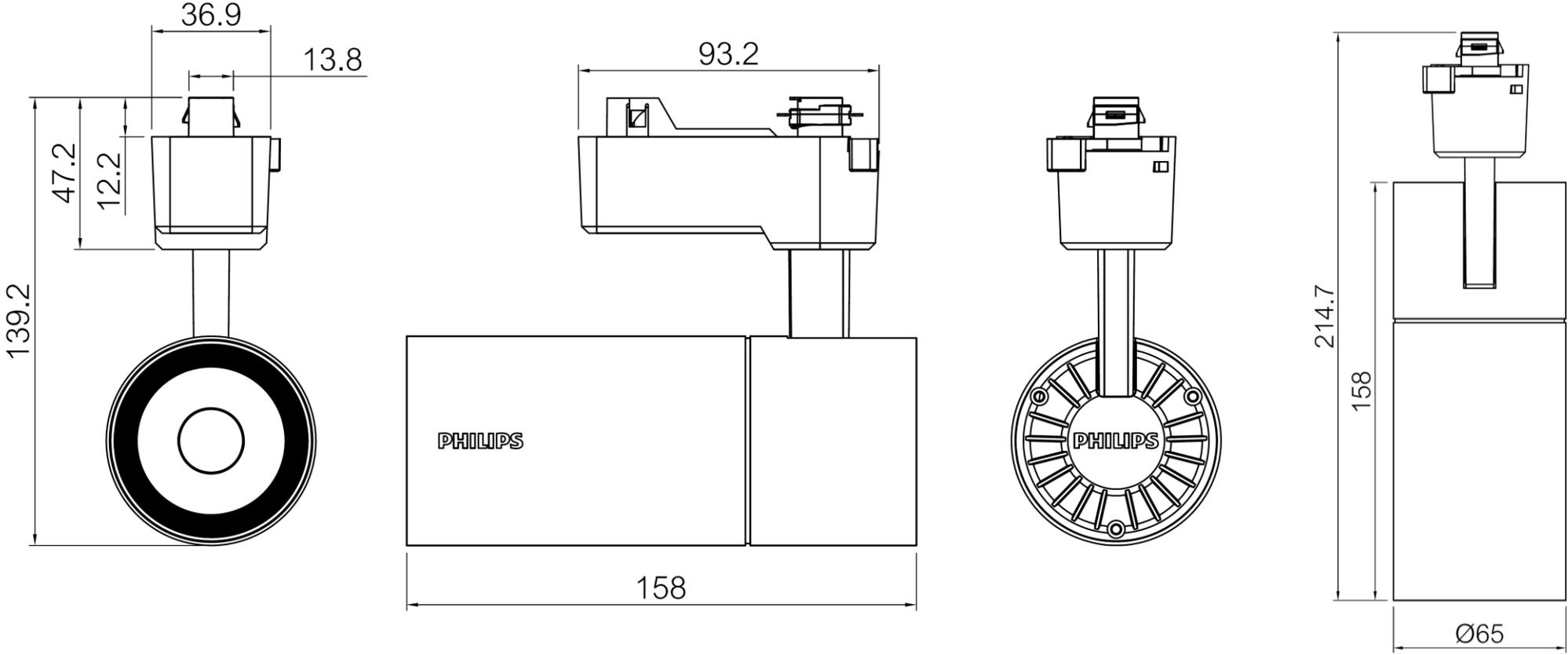
7W Dimensions

Essential SmartBright Projector: ST033T



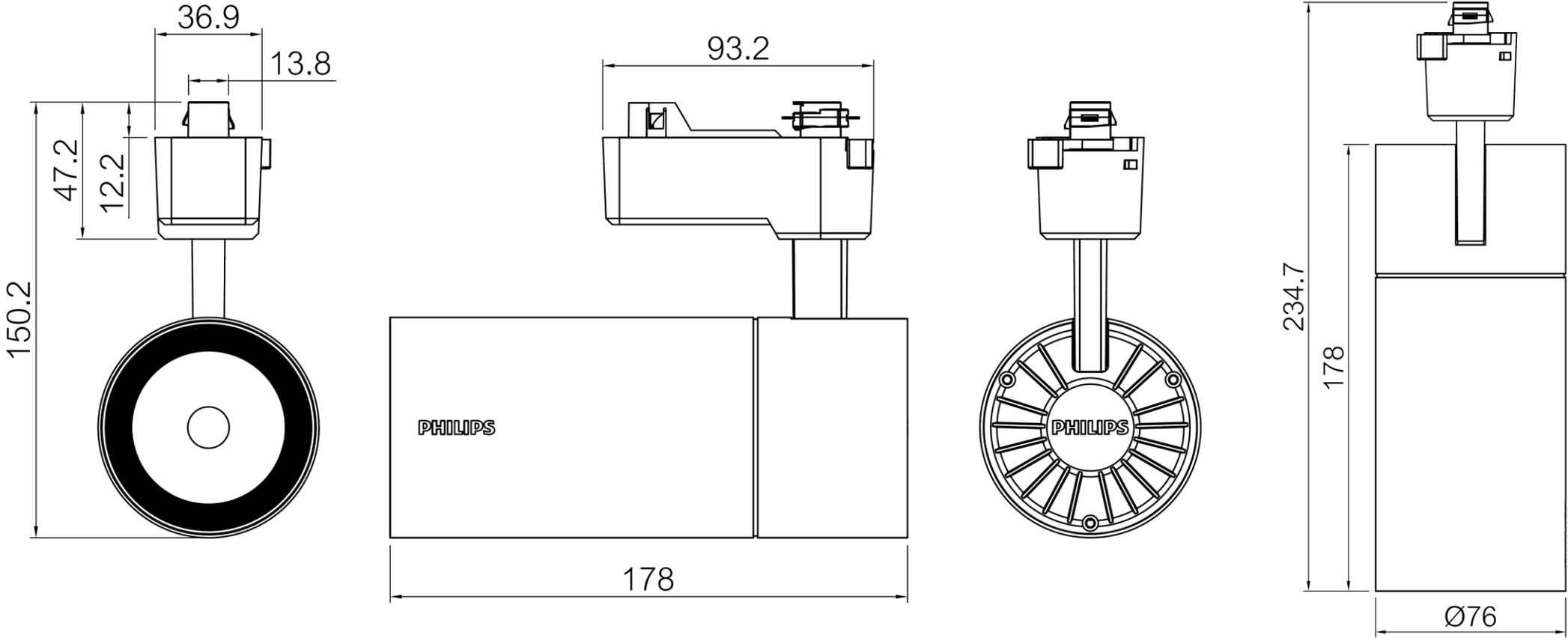
10W Dimensions

Essential SmartBright Projector: ST033T



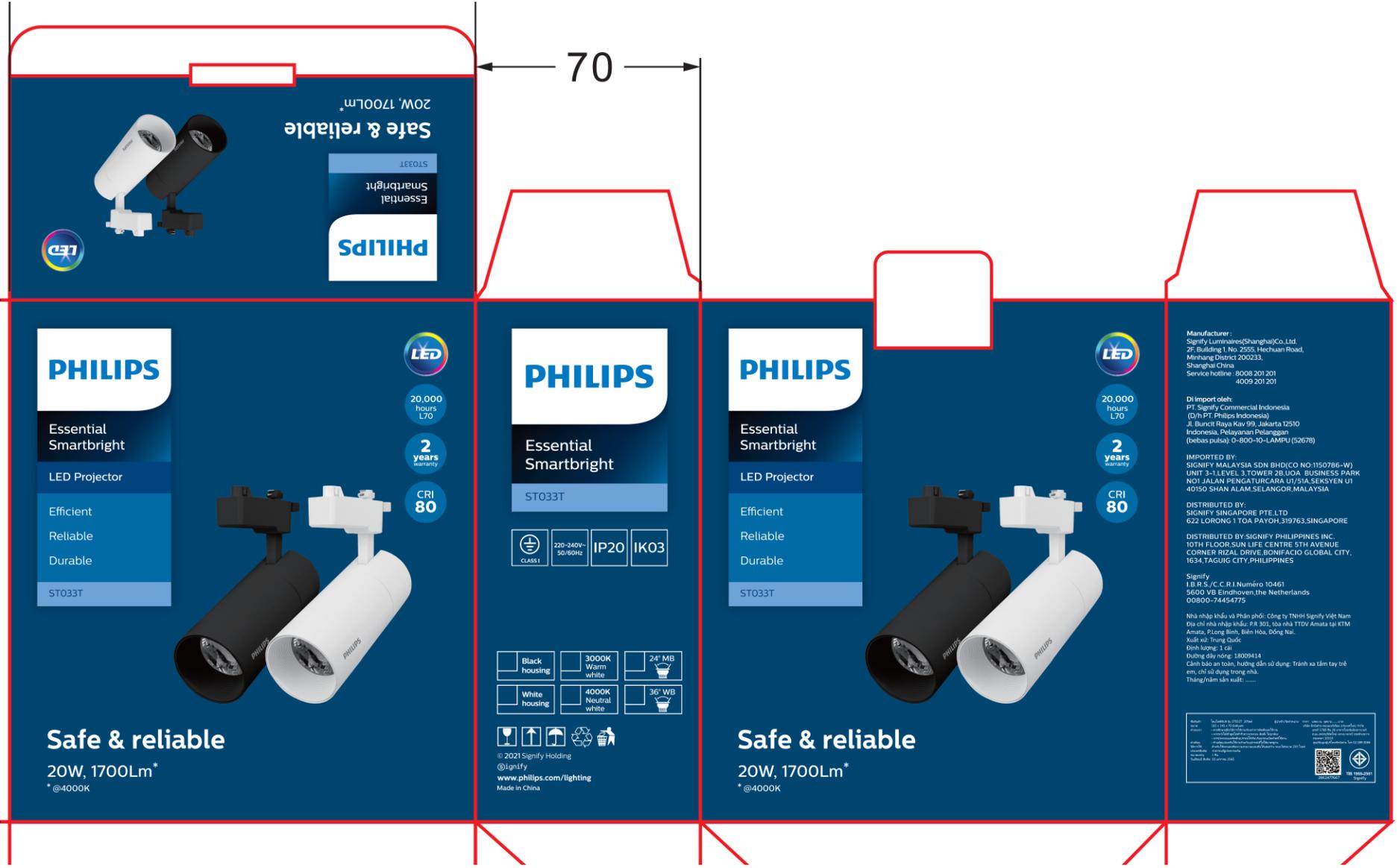
20W Dimensions

Essential SmartBright Projector: ST033T



30W Dimensions

Essential SmartBright Projector: ST033T



Attractive Color Box packaging to stand out in Retail Shops

Essential SmartBright Projector: ST033T. 12NC List

MOQ	
Luminaire	200 Pcs
Track	600 (1m), 300 (2m)
Connectors	60 Pcs

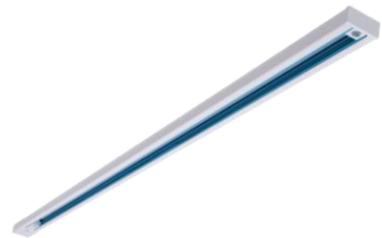
Hierarchy
90029520 B42 3223 02
MAG: B42
AG: 3223
CAG: 02

12NC	Description
911401888282	ST033T LED5/830 7W 220-240V I WB WH GM
911401888382	ST033T LED5/840 7W 220-240V I WB WH GM
911401888482	ST033T LED5/830 7W 220-240V I WB BK GM
911401888582	ST033T LED5/840 7W 220-240V I WB BK GM
911401888682	ST033T LED8/830 10W 220-240V I MB WH GM
911401888782	ST033T LED8/830 10W 220-240V I WB WH GM
911401888882	ST033T LED8/840 10W 220-240V I MB WH GM
911401888982	ST033T LED8/840 10W 220-240V I WB WH GM
911401889082	ST033T LED8/830 10W 220-240V I MB BK GM
911401889182	ST033T LED8/830 10W 220-240V I WB BK GM
911401889282	ST033T LED8/840 10W 220-240V I MB BK GM
911401889382	ST033T LED8/840 10W 220-240V I WB BK GM
911401889482	ST033T LED17/830 20W 220-240V I MB WH GM
911401889582	ST033T LED17/830 20W 220-240V I WB WH GM
911401889682	ST033T LED17/840 20W 220-240V I MB WH GM
911401889782	ST033T LED17/840 20W 220-240V I WB WH GM
911401889882	ST033T LED17/830 20W 220-240V I MB BK GM
911401889982	ST033T LED17/830 20W 220-240V I WB BK GM
911401890082	ST033T LED17/840 20W 220-240V I MB BK GM
911401890182	ST033T LED17/840 20W 220-240V I WB BK GM
911401890282	ST033T LED25/830 30W 220-240V I MB WH GM
911401890382	ST033T LED25/830 30W 220-240V I WB WH GM
911401890482	ST033T LED25/840 30W 220-240V I MB WH GM
911401890582	ST033T LED25/840 30W 220-240V I WB WH GM
911401890682	ST033T LED25/830 30W 220-240V I MB BK GM
911401890782	ST033T LED25/830 30W 220-240V I WB BK GM
911401890882	ST033T LED25/840 30W 220-240V I MB BK GM
911401890982	ST033T LED25/840 30W 220-240V I WB BK GM
911401891082	RCS033 1C L1000 WH
911401891182	RCS033 1C L1000 BK
911401891282	RCS033 1C L2000 WH
911401891382	RCS033 1C L2000 BK
911401891482	ZCS033 ICP WH
911401891582	ZCS033 ICP BK
911401891682	ZCS033 LCP WH
911401891782	ZCS033 LCP BK

Projector Luminaire



Track



Connectors



Essential SmartBright Projector: ST033T

12NC	AG	CAG	EOC	HSCode	ProductDescription	ConsumerUnit(EAN)	Outerbox(EAN)
911401891782	3223	322302	871951454470399	94059200	ZCS033 LCP BK	0000000000000	8719514544703
911401891682	3223	322302	871951454469799	94059200	ZCS033 LCP WH	0000000000000	8719514544697
911401891582	3223	322302	871951454468099	94059200	ZCS033 ICP BK	0000000000000	8719514544680
911401891482	3223	322302	871951454467399	94059200	ZCS033 ICP WH	0000000000000	8719514544673
911401891382	3223	322302	871951454466699	94059900	RCS033 1C L2000 BK	0000000000000	8719514544666
911401891282	3223	322302	871951454465999	94059900	RCS033 1C L2000 WH	0000000000000	8719514544659
911401891182	3223	322302	871951454464299	94059900	RCS033 1C L1000 BK	0000000000000	8719514544642
911401891082	3223	322302	871951454463599	94059900	RCS033 1C L1000 WH	0000000000000	8719514544635
911401890982	3223	322302	871951454434599	94051000	ST033T LED25/840 30W 220-240V I WB BK GM	8719514544345	8719514544628
911401890882	3223	322302	871951454433899	94051000	ST033T LED25/840 30W 220-240V I MB BK GM	8719514544338	8719514544611
911401890782	3223	322302	871951454432199	94051000	ST033T LED25/830 30W 220-240V I WB BK GM	8719514544321	8719514544604
911401890682	3223	322302	871951454431499	94051000	ST033T LED25/830 30W 220-240V I MB BK GM	8719514544314	8719514544598
911401890582	3223	322302	871951454430799	94051000	ST033T LED25/840 30W 220-240V I WB WH GM	8719514544307	8719514544581
911401890482	3223	322302	871951454429199	94051000	ST033T LED25/840 30W 220-240V I MB WH GM	8719514544291	8719514544574
911401890382	3223	322302	871951454428499	94051000	ST033T LED25/830 30W 220-240V I WB WH GM	8719514544284	8719514544567
911401890282	3223	322302	871951454427799	94051000	ST033T LED25/830 30W 220-240V I MB WH GM	8719514544277	8719514544550
911401890182	3223	322302	871951454426099	94051000	ST033T LED17/840 20W 220-240V I WB BK GM	8719514544260	8719514544543
911401890082	3223	322302	871951454425399	94051000	ST033T LED17/840 20W 220-240V I MB BK GM	8719514544253	8719514544536
911401889982	3223	322302	871951454424699	94051000	ST033T LED17/830 20W 220-240V I WB BK GM	8719514544246	8719514544529
911401889882	3223	322302	871951454423999	94051000	ST033T LED17/830 20W 220-240V I MB BK GM	8719514544239	8719514544512
911401889782	3223	322302	871951454422299	94051000	ST033T LED17/840 20W 220-240V I WB WH GM	8719514544222	8719514544505
911401889682	3223	322302	871951454421599	94051000	ST033T LED17/840 20W 220-240V I MB WH GM	8719514544215	8719514544499
911401889582	3223	322302	871951454420899	94051000	ST033T LED17/830 20W 220-240V I WB WH GM	8719514544208	8719514544482
911401889482	3223	322302	871951454419299	94051000	ST033T LED17/830 20W 220-240V I MB WH GM	8719514544192	8719514544475
911401889382	3223	322302	871951454418599	94051000	ST033T LED8/840 10W 220-240V I WB BK GM	8719514544185	8719514544468
911401889282	3223	322302	871951454417899	94051000	ST033T LED8/840 10W 220-240V I MB BK GM	8719514544178	8719514544451
911401889182	3223	322302	871951454416199	94051000	ST033T LED8/830 10W 220-240V I WB BK GM	8719514544161	8719514544444
911401889082	3223	322302	871951454415499	94051000	ST033T LED8/830 10W 220-240V I MB BK GM	8719514544154	8719514544437
911401888982	3223	322302	871951454414799	94051000	ST033T LED8/840 10W 220-240V I WB WH GM	8719514544147	8719514544420
911401888882	3223	322302	871951454413099	94051000	ST033T LED8/840 10W 220-240V I MB WH GM	8719514544130	8719514544413
911401888782	3223	322302	871951454412399	94051000	ST033T LED8/830 10W 220-240V I WB WH GM	8719514544123	8719514544406
911401888682	3223	322302	871951454411699	94051000	ST033T LED8/830 10W 220-240V I MB WH GM	8719514544116	8719514544390
911401888582	3223	322302	871951454410999	94051000	ST033T LED5/840 7W 220-240V I WB BK GM	8719514544109	8719514544383
911401888482	3223	322302	871951454409399	94051000	ST033T LED5/830 7W 220-240V I WB BK GM	8719514544093	8719514544376
911401888382	3223	322302	871951454408699	94051000	ST033T LED5/840 7W 220-240V I WB WH GM	8719514544086	8719514544369
911401888282	3223	322302	871951454407999	94051000	ST033T LED5/830 7W 220-240V I WB WH GM	8719514544079	8719514544352

Signify



TLED Batten
BN011 C
Product Information



Essential TLED Batten: BN011C



Application: Retail, Home, Factory, Warehouse

Unique selling point

- Available in Both Single and Double ended versions
- Power supply for Single ended TLED battens as well
- Different form Factors with Reflectors
- Strong and sturdy

Essential TLED Batten: BN011C

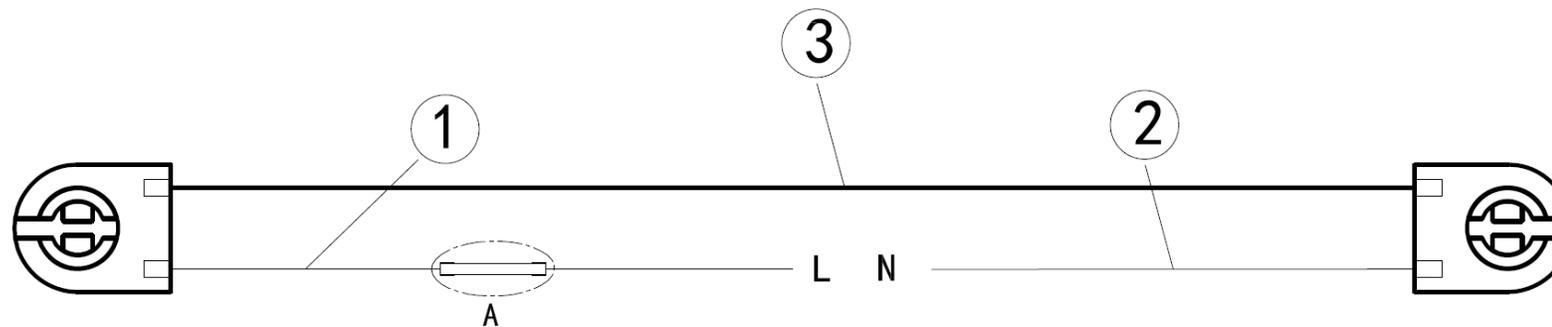
Specifications

Length (m)	L600,LI200
Voltage	220-240V~ 50/60Hz
IP rating	IP20
Wiring	Single and Double ended. Refer wiring diagrams
Insulation	Class I
Working temp	-20 ~ 40°C. (For Housing)
Connection	Inside wiring ; Middle entry;
Installation	Surface mounted, suspension
Housing material	SPCC
Housing coating	Powder painting, RAL9003
Housing thickness	0.3mm±0.02
Fuse	1000mA, with VDE
Accessory	Two screws: ST4x20mm ; two expansion bolts: 25xφ5.5mm *2
Packaging	PE Bag for each Batten, 40 Pcs in one Outercarton. One MI in each outercarton
Approbation	Compliant with IEC 60598

Essential TLED Batten: BN011C

Wiring

Single Ended



BN011C GM 接线图					
型号	序号	总长m	左剥线长度mm	右剥线长度mm	颜色
BN011C 1×L600 GM	1	0.25	8	8	红
	2	0.45	8	8	白
	3	0.65	8	8	白
BN011C 1×L1200 GM	1	0.25	8	8	红
	2	1.05	8	8	白
	3	1.25	8	8	白

Essential TLED Batten: BN011C

Form Factors



1XTLED
L1200
L600



2XTLED
L1200
L600



1XTLED
2R
L1200

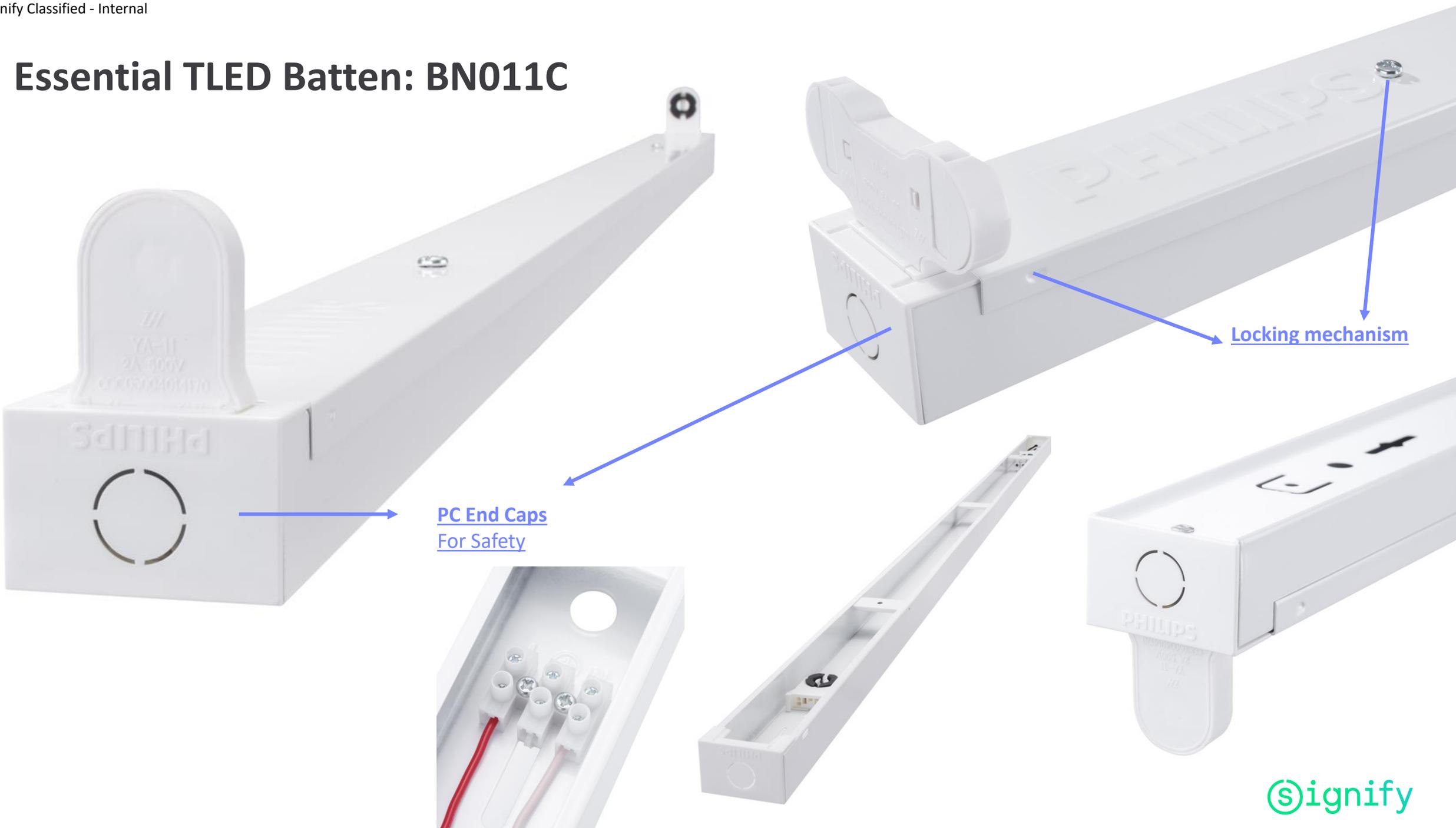


2XTLED
2R
L1200



1XTLED
1R
L1200

Essential TLED Batten: BN011C



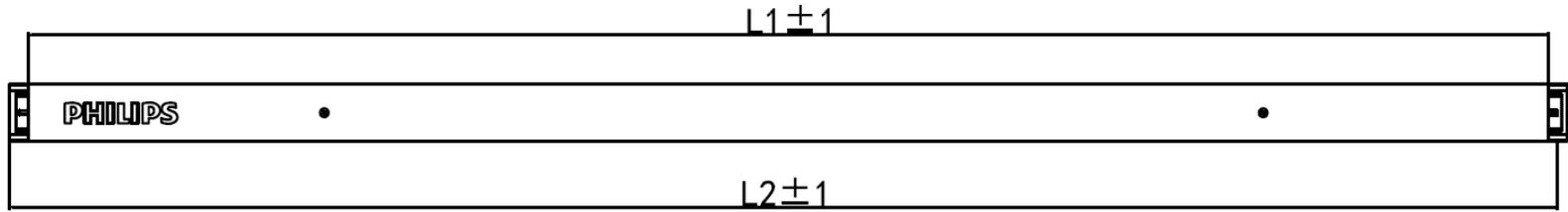
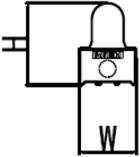
PC End Caps
For Safety

Locking mechanism

Essential TLED Batten: BN011C

Dimensions

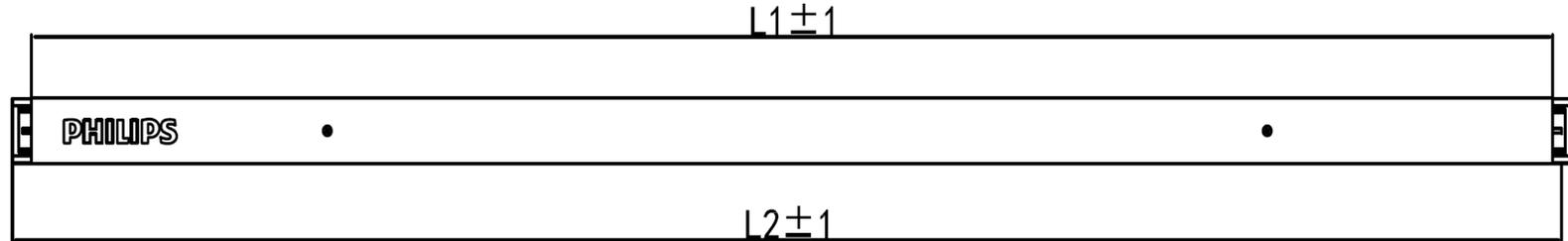
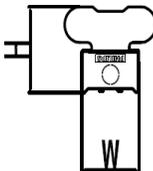
BN011C 1×TLED



	L1	L2	W	H
L600	590	620	47	63
L1200	1200	1230	47	63

Data in mm

BN011C 2×TLED



	L1	L2	W	H
L600	590	620	72	59
L1200	1200	1230	72	59

Data in mm

Essential TLED Batten: BN011C

12NCs

12NC	Material Description
911401817082	BN011C 1xTLED L1200 G2 GM
911401816982	BN011C 1xTLED L600 G2 GM
911401817282	BN011C 2xTLED L1200 G2 GM
911401817182	BN011C 2xTLED L600 G2 GM
911401817582	BN011C 2xTLED L1200 2R G2 GM
911401817482	BN011C 1xTLED L1200 1R G2 GM
911401817382	BN011C 1xTLED L1200 2R G2 GM

Signify



Bare TLED Waterproof

Dec 2019

Bare TLED Waterproof (Specifications)



Single TLED and Double TLED
2 ft and 4 ft



Steel Clips



No Base plate. Helps in
Thermal performance

	A Brand Bare TLED Waterproof
Safety Class (driver+system)	Class II
Housing material	PC
Cover material (Diffuser)	PC
Clips	Stainless Steel
Cable Gland	M20 (same as Coreline Waterproof)
IPxx	IP65
IKxx	IK08
Ball-proof	follow IEC
Glow wire rating	850C
fire-rated	follow IEC
Mounting	Via SS Brackets
Power connection	Through connector (integrated fuse)
Color(s) (and RAL code)	Light Grey (same as coreline waterproof)
Size (LxWxH) + considerations	Supplier provided
Weight (Kg)	Supplier provided
Packaging concept	1-in-1 + carton box
Temperature Range (depending on TLED)	-20C - +35C (housing only). (possible to have 10% lower lamp life at 35C for 2x4ft lamps)
Luminaire Service class	B
RoHS/REACH	Yes