

LEDTRON
Beleuchtung & Tankstellentechnik

presents products from

ARRLUX

Unique Excellence

Unique Excellence

10 years
warranty

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ARRLUX

Unique Excellence



Outdoor lighting expert

Product Catalog
2014-2015

About Arrlux



ARRLUX OPTOELECTRONIC CO., LTD as a subsidiary of TTC Investment Co., Ltd has been dedicated to LED lighting luminaires for professionals since 2009 when the R & D team was organized, and accumulated abundant experience in professional LED lighting luminaire R & D, manufacturing, and application. The professional LED lighting luminaires e.g roadway/street/area light, industrial lighting products, sports venue lighting products, and special purpose lighting products have been satisfying and guiding worldwide market needs, acquired very positive comments from the end users and our business partners.

ARRLUX STRENGTH:

Strength A - Financing and facility

1. 2000+ employees, and 500+ million USD yearly turnover for TTC group companies incl. Arrlux LED lighting business.
2. 30,000 sq.m. industrial park worth USD 20 million, and in possession of 12,000 sq.m. hotel style dormitory.
3. 800 sq.m. optoelectronic test lab worth USD 2 million, which has been accredited by UL and ENEC with witness data program since 2013. This Lab has been one of the few accredited labs awarded witness data program by UL and ENEC, is one of even fewer labs affiliated to the manufacturer rather than an independent institution.
4. In possession of advanced metal punching, precision plastic injection workshops equipped with high precision processing machines, which guarantees the material supply for big production capacity need.
5. SAP-ERP enterprise resources planning system is utilized in the group companies.

Strength B - Product portfolio, and its R & D

1. Arrlux focuses on led lighting luminaires for professionals, and is the owner of 80+ patents obtained or under application, 10+ PCT protected patents (applications were submitted).
2. Worldwide top led luminaire R & D team. The LED lights developed by this team have been installed globally, which is worth USD 300+ million.
3. Most rapid response capability worldwide to product development requests.
4. Globally leading smart motion sensing dimming system, applicable for our professional led lighting luminaires for further energy savings, the patent applications to American and German authorities have been submitted.
5. Most abundant optical lenses in LED lighting industry, strong optics solutions R & D as well.
















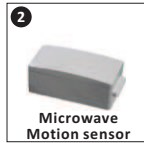


Strength C - Production capacity and quality management

1. ISO9001 certified
2. Higher in quality criteria than that of international premium lighting brands. 8 quality management processes for the whole portfolio of products ranging from raw material to finished product delivery.
3. One and only product identification number for each product, which enables Arrlux to trace any process of manufacturing.
4. 10 years limited warranty for the whole product portfolio.
5. 500k units yearly production capacity

Strength D - Market network and services

1. Subsidiary company Arrlux Inc. is operating in California USA, providing north American regions with technical support and door-to-door services. Subsidiaries in Canada, south America, Australia, and Germany are to be established, so as to provide the clients in the regions with high efficient and quality technical services.
2. Capable to assist clients in efficient technical proposals and rapid product development, also able to assist clients to win the award of project contracts for the whole course.
3. Top assured after sales services, e.g. 10 years limited warranty, and other quality commitments.
4. Diversified cooperation models with clients/partners, e.g. optional dealership, entrusted mode, joint venture model, and local assembly facility.

Directory

ALFA Series		GAMA Series	
	ALFA P1-8		GAMA (Mounting Type: U) P9-11
			GAMA (Mounting Type: UR) P12-14
			GAMA (Mounting Type: D) P15-17
		FIND Series	
	GAMA (Mounting Type: E) P18-20		GAMA (Mounting Type: T) P21-23
			GAMA (Mounting Type: W) P24-26
			FIND P28-31
AURORA Series		BRIGHT Series	
	AURORA (Mounting Type: C) P32-32		AURORA (Mounting Type: U) P32-34
			AURORA(FLE) P35-37
			BRIGHT(BLA) P38-40
		VENUS Series	
	BRIGHT(BLB) P41-43		BRIGHT(BLC) P44-46
			VENUS(BLD) P47-49
		Appendix	
			
			
		Appendix	P50-53

LED Roadway /Street /Area Light

10
Years
WarrantycULus and DLC QPL listed.
(UL File No.: E467349)**CB IP67 IK08 ErP**

Certified by TUV-sud according to the following standards:

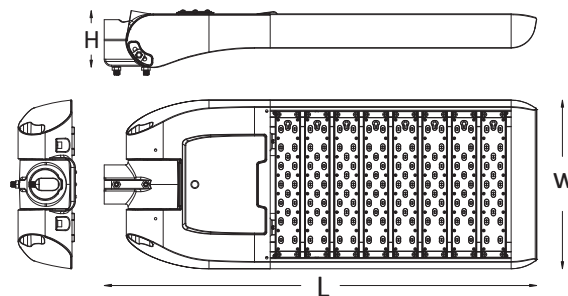
IEC /EN 60598-1: 2008
 IEC /EN 60598-2-3/A1: 2011
 EN 62493:2010
 IEC62471: 2008
 IEC62471-2:2009
 EN 55015: 2013
 EN61547:2009
 EN61000-3-2/A2:2009
 EN 61000-3-3:2013
 (EU) 1194/2012:2012-12-12
 (EC) 244/2009:2009-03-18

ENEC: No.: U6140888771007 (SLA models)

CB: No.: SG-LE-00951 (SLA models)

Ik08 rating, 3G vibration, 1000 hours salt mist test reports are furnished upon request.

Dimensional Drawing



Features & Benefits

- 1) Based on the most successful product development, manufacturing and application expertise and experience.
- 2) Powered by the worldwide best LED, LED drivers, and other key components.
- 3) cULus, DLC listed, and certified as per CE (lvd, emc, RoHs, Erp directives), CB, ENEC standards.
- 4) Sufficient optics solutions at option to meet almost all roadway/street and area lighting application standards.
- 5) Modular mechanical construction, and the most thoughtful design, make the product the most user friendly and easiest for assembly, maintenance and installation.
- 6) The most competitive in cost performance, and one of the best ownership costs. 10 years limited warranty, free from maintenance for 10 years at least, the most competitive in operating cost, soonest in return on investment (ROI) or payback.
- 7) Environmentally friendly packaging materials (EPE).

Applications

Municipal and rural street, roadway, or area lighting.

LED Roadway /Street /Area Light

Ordering Information

Example 1: SLA-30-T3L-50K-GR-00
Example 3: SLC-80-T3L-50K-GR-00

Example 2: SLB-40-T3L-50K-GR-00
Example 4: SLD-40-T3L-50K-GR-00

Product ID	Power (W)	or	Product ID	Power (W)	or	Product ID	Power (W)	Optic Lens	CCT* (ANSI)	Housing Color**	Lighting Control
SLA ₅	30 ₁ 30W		SLB ₆	40 ₃ 40W		SLC ₇	80 80W				
	60 ₂ 60W			80 ₄ 80W			120 120W	T1M T2M	30K 3045 ±175K	GR Grey (RAL:7004)	00 Not required
	90 90W			120 120W			160 160W	T3M T3L	40K 3985 ±275K	BK Black (RAL:9011)	01 Photocell
	120 120W			160 160W			200 200W	T4S T5U	50K 5028 ±283K	WH White (RAL:9010)	02 Motion Sensor
	150 150W			200 200W			240 240W	T5V T5W	57K 5665 ±355K	BZ Bronze (RAL:8017)	03 Photocell+ Motion Sensor
	180 180W			240 240W			280 280W	T5S T5M			04 DALI
	210 210W			280 280W			320 320W	T5L T5D			05 1-10V dimming
	240 240W			320 320W							
	270 270W										
	300 300W										

Footnotes:

● CCT*:

- LEDs at 5000k CCT are always in stock largely to support prompt delivery of finished products.
- LEDs at 3000k, 4000k, 5700k CCT are in stock as well, but the quantity is small to meet small needs, and the shipment for the finished products with these LEDs cannot be made sooner than those with LEDs at 5000k CCT.
- LEDs at CCT or wavelength (unit nm) which is not in stock are available upon request, but the lead time for the finished products with these types of LEDs cannot be soon, also the unit price is higher.

● Housing Color**:

- GR (Grey) housings are always in stock largely to support prompt delivery of finished products.
- BK (Black), WH (White), BZ (Bronze) housing are available too, and the unit price of the finished product with these types of housings may be different from that with grey housing, but the lead time is longer relatively.
- Other housing colors which are not mentioned can be customized, but the unit price is higher, the lead time is much longer.

● Optic Lens Options:

- | | |
|-------------------------|------------------------------------|
| 1) T1M: Type I Medium | 7) T5V: 25° |
| 2) T2M: Type II Medium | 8) T5W: 40° |
| 3) T3M: Type III Medium | 9) T5S: 60° |
| 4) T3L: Type III Long | 10) T5M: 90° |
| 5) T4S: Type IV Short | 11) T5L: 120° |
| 6) T5U: 10° | 12) T5D: Glare resistant diffuser. |

1, 2, 3, 4, 7, 8: DALI control is not available.

7, 8: motion sensing is not available.

Photocell is available based on customization request.

8: 1-10V dimming and motion sensing are not available.

LED Roadway /Street /Area Light

BRIEF SPECIFICATIONS

Model No.	SLA30	SLA60	SLA90	SLA120	SLA150	SLA180	SLA210	SLA240	SLA270	SLA300
No. of LEDs	18	36	54	72	90	108	126	144	162	180
Nominal Power	30W	60W	90W	120W	150W	180W	210W	240W	270W	300W
Net Weight	6.46kg	7.09kg	8.22kg	8.88kg	9.47kg	10.83kg	11.47kg	12.49kg	13.12kg	13.88kg
EPA (1 Fixture at 0° mount)	0.46sq. ft.	0.5sq. ft.	0.54sq. ft.	0.59sq. ft.	0.63sq. ft.	0.67sq. ft.	0.72sq. ft.	0.76sq. ft.	0.8sq. ft.	0.84sq. ft.
Gross Weight	7.46kg	8.16kg	9.35kg	10.05kg	10.73kg	12.15kg	12.84kg	13.91kg	14.64kg	15.44kg
Dimensions (L x W x H)	463 x 345 x 116(mm)	523 x 345 x 116(mm)	583 x 345 x 116(mm)	643 x 345 x 116(mm)	703 x 345 x 116(mm)	763 x 345 x 116(mm)	823 x 345 x 116(mm)	883 x 345 x 116(mm)	943 x 345 x 116(mm)	1033 x 345 x 116(mm)
Carton Dimensions (L x W x H)	535 x 425 x 160(mm)	595 x 425 x 160(mm)	655 x 425 x 160(mm)	715 x 425 x 160(mm)	775 x 425 x 160(mm)	835 x 425 x 160(mm)	895 x 425 x 160(mm)	955 x 425 x 160(mm)	1015 x 425 x 160(mm)	1075 x 425 x 160(mm)
Input	120V-277V AC 50/60Hz or 220-240V AC 50/60Hz									

Model No.	SLB40	SLB80	SLB120	SLB160	SLB200	SLB240	SLB280	SLB320
No. of LEDs	18	36	54	72	90	108	126	144
Nominal Power	40W	80W	120W	160W	200W	240W	280W	320W
Net Weight	6.46kg	7.09kg	8.22kg	8.88kg	10kg	10.83kg	11.47kg	12.49kg
EPA (1 Fixture at 0° mount)	0.46sq. ft.	0.5sq. ft.	0.54sq. ft.	0.59sq. ft.	0.63sq. ft.	0.67sq. ft.	0.72sq. ft.	0.76sq. ft.
Gross Weight	7.46kg	8.16kg	9.35kg	10.05kg	11kg	12.15kg	12.84kg	13.91kg
Dimensions (L x W x H)	463 x 345 x 116(mm)	523 x 345 x 116(mm)	583 x 345 x 116(mm)	643 x 345 x 116(mm)	703 x 345 x 116(mm)	763 x 345 x 116(mm)	823 x 345 x 116(mm)	883 x 345 x 116(mm)
Carton Dimensions (L x W x H)	535 x 425 x 160(mm)	595 x 425 x 160(mm)	655 x 425 x 160(mm)	715 x 425 x 160(mm)	775 x 425 x 160(mm)	835 x 425 x 160(mm)	895 x 425 x 160(mm)	955 x 425 x 160(mm)
Input	120V-277V AC 50/60Hz or 220-240V AC 50/60Hz							

Model No.	SLC80	SLC120	SLC160	SLC200	SLC240	SLC280	SLC320
No. of LEDs	36	54	72	90	108	126	144
Nominal Power	80W	120W	160W	200W	240W	280W	320W
Net Weight	7.09kg	8.22kg	8.88kg	10kg	10.83kg	11.47kg	12.49kg
EPA (1 Fixture at 0° mount)	0.5sq. ft.	0.54sq. ft.	0.59sq. ft.	0.63sq. ft.	0.67sq. ft.	0.72sq. ft.	0.76sq. ft.
Gross Weight	8.16kg	9.35kg	10.05kg	11kg	12.15kg	12.84kg	13.91kg
Dimensions (L x W x H)	523 x 345 x 116(mm)	583 x 345 x 116(mm)	643 x 345 x 116(mm)	703 x 345 x 116(mm)	763 x 345 x 116(mm)	823 x 345 x 116(mm)	883 x 345 x 116(mm)
Carton Dimensions (L x W x H)	595 x 425 x 160(mm)	655 x 425 x 160(mm)	715 x 425 x 160(mm)	775 x 425 x 160(mm)	835 x 425 x 160(mm)	895 x 425 x 160(mm)	955 x 425 x 160(mm)
Input	347-480V AC 50/60Hz						

Drive current: SLA:530mA SLB:700mA SLC:700mA

Model No.	SLD20	SLD30	SLD40	SLD60	SLD80	SLD90	SLD120
No. of LEDs	18			36		54	
Nominal Power	20W	30W	40W	60W	80W	90W	120W
Net Weight	5.95Kg			6.58Kg		7.40Kg	
EPA (1 Fixture at 0° mount)	0.46sq. ft.			0.5sq. ft.		0.54sq. ft.	
Gross Weight	6.95kg			7.65kg		8.53kg	
Dimensions (L x W x H)	463 x 345 x 116mm			523 x 345 x 116mm		583 x 345 x 116mm	
Carton Dimensions (L x W x H)	535 x 425 x 160mm			595 x 425 x 160mm		655 x 425 x 160mm	
Input	9-18V DC or 18-32V DC						
Drive current:	350mA	500mA	700mA	500mA	700mA	500mA	700mA

General specifications for all the above models.

Electrical:

- Power Factor: >0.95 at full load.
- Total Harmonic Distortion: <20% at full load.

Lifetime per TM21 and working temperature:

- Reported L70 Lifetime: >60,000 hours .
Calculated L70 Lifetime: >100,000 hours.
- Ambient Temperature (Ta):
-40 to 50 degrees celcius (-40 to 122 degrees Fahrenheit).

Typical Luminous Efficacy:

- SLA models: 110 lm/w (5000K CCT, Ra>70).
 - SLB, SLC and SLD models: 100 lm/w (5000K CCT, Ra>70).
- System Efficacy and power are customized, e.g. 130 lm/W.

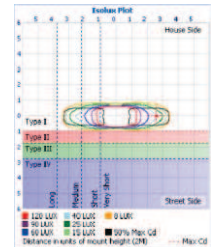
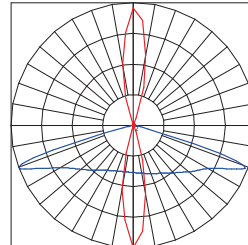
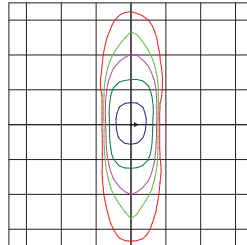
Materials:

- LED option: CREE or PHILIPS Lumileds.
- LED Driver Origin: PHILIPS or MEANWELL.
- Optional NEMA photocell with its receptacle, or shorting cap with its receptacle.
- Optional motion sensing dimmer for future energy saving and intelligent lighting control.
- Optional bird spike to avoid bird waste pollution
- Worldwide top brand quick connector for tool-free wiring, and terminal block for easiest wiring, two axis T-shaped bubble level for ease of leveling and tilting angle setup as well.
- Die cast aluminium LED driver compartment, spigot, and led light bar end cap with corrosion resistant powder coating. Extruded aluminium alloy heat sink with anodized finish. 304 graded stainless steel protective cover to protect UV resistant polycarbonate lenses.

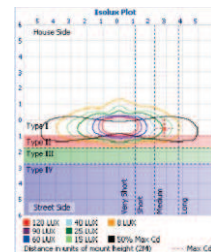
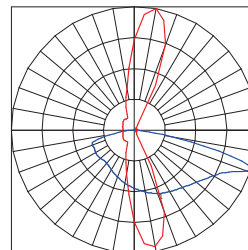
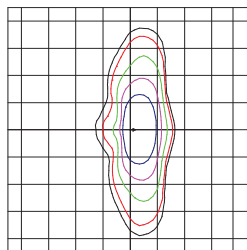
LED Roadway /Street /Area Light

Photometrics

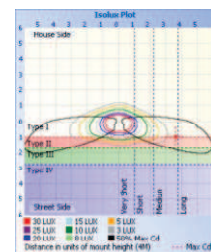
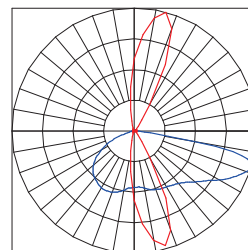
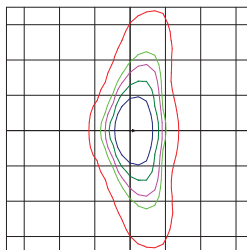
Optic Lens code: T1M
IES Classification: IES Type I Medium



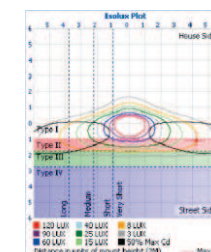
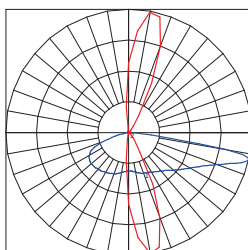
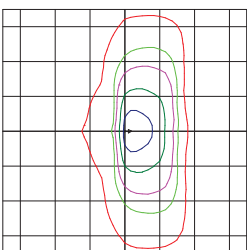
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IES Classification: IES Type II Medium



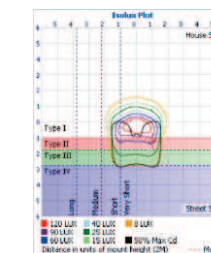
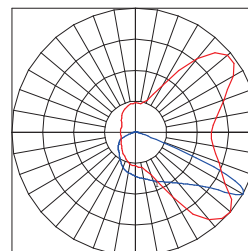
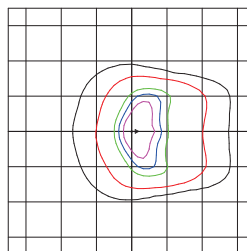
Optic Lens code: T3M
IES Classification: IES Type III Medium



Optic Lens code: T3L
IES Classification: IES Type III Long

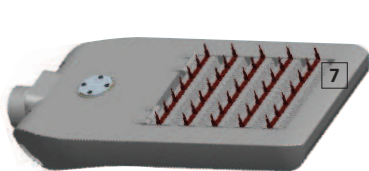
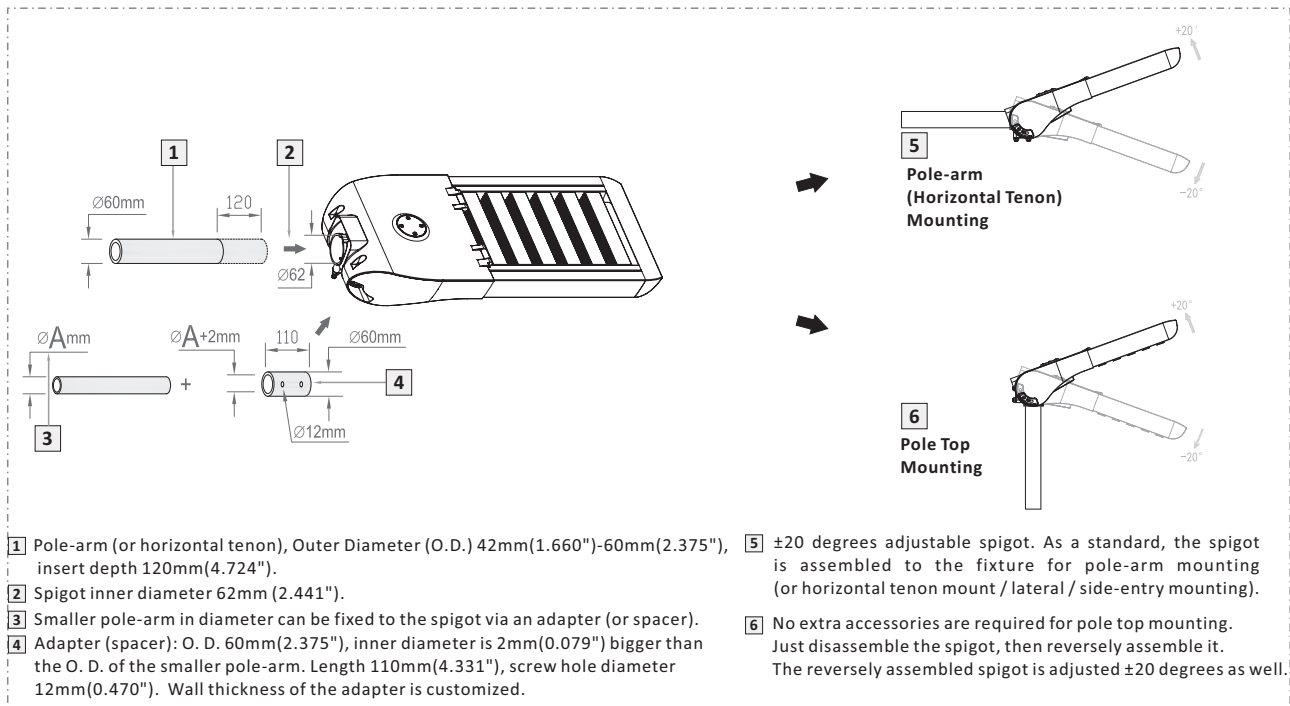


Optic Lens code: T4S
IES Classification: IES Type IV Short

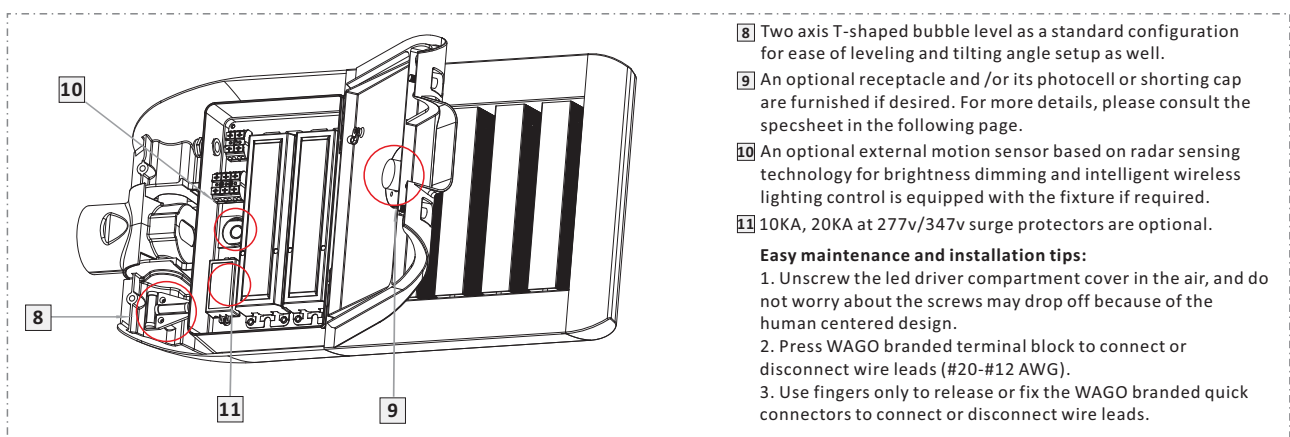


LED Roadway /Street /Area Light

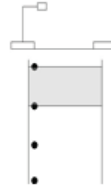
Mounting and Optional Accessories



Optional Field-installed Accessory: Bird Spikes for LED Light Bars.



Simulation Calculation Summary Reference



Pole Arrangement: Single Sided

MH=Mounting Height (unit: m)

Area = Pole Spacing x Road Width (unit: m)

Lav* (cd/sq.m.) and Eav* (lux) are the values based on Dialux simulation calculations for one typical section of street.

Model No.		SLA30		SLA60		SLA90		SLA120		SLA150		SLA180		SLA210		SLA240		SLA270		SLA300	
T2M lens		Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx
MH	Area	cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2	
8	35 x 7	0.57	8.03	1.14	16	1.74	24	2.33	33	2.89	41	3.46	49	4.03	57	4.64	65	5.21	73	5.78	81
10	40 x 10.5	0.35	5.02	0.7	10	1.07	15	1.43	20	1.78	25	2.13	30	2.47	35	2.85	41	3.2	46	3.55	51
12	45 x 10.5	0.28	4.01	0.55	7.99	0.84	12	1.12	16	1.4	20	1.67	24	1.94	28	2.24	33	2.51	37	2.79	41

Model No.		SLA30		SLA60		SLA90		SLA120		SLA150		SLA180		SLA210		SLA240		SLA270		SLA300	
T3M lens		Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx
MH	Area	cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2	
8	35 x 10.5	0.43	6.53	0.86	13	1.33	20	1.75	26	2.2	33	2.61	39	3.06	46	3.5	53	3.95	60	4.39	66
10	40 x 10.5	0.34	4.74	0.67	9.44	1.03	15	1.36	19	1.71	24	2.03	29	2.38	34	2.72	38	3.08	43	3.42	48
12	45 x 14	0.24	3.57	0.48	7.12	0.74	11	0.98	14	1.23	18	1.46	22	1.71	25	1.95	29	2.21	33	2.45	36

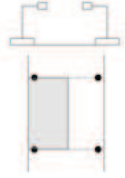
Model No.		SLA30		SLA60		SLA90		SLA120		SLA150		SLA180		SLA210		SLA240		SLA270		SLA300	
T3L lens		Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx
MH	Area	cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2	
8	35 x 10.5	0.46	6.02	0.91	12	1.4	18	1.85	24	2.33	31	2.76	36	3.23	43	3.7	49	4.18	55	4.65	61
10	40 x 10.5	0.33	4.15	0.65	8.27	1	13	1.32	17	1.66	21	1.97	25	2.31	29	2.64	34	2.99	38	3.32	42
12	50 x 14	0.22	2.96	0.43	5.9	0.66	9	0.88	12	1.1	15	1.3	18	1.53	21	1.75	24	1.98	27	2.2	30

Model No.		SLB40		SLB80		SLB120		SLB160		SLB200		SLB240		SLB280		SLB320	
T2M lens		Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx
MH	Area	cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2	
8	35 x 7	0.68	9.47	1.35	19	2.02	28	2.66	37	3.36	47	4.01	56	4.65	65	5.34	75
10	40 x 10.5	0.41	5.92	0.83	12	1.24	18	1.63	23	2.06	29	2.47	35	2.86	41	3.28	47
12	45 x 10.5	0.33	4.73	0.65	9.46	0.98	14	1.28	19	1.62	24	1.94	28	2.25	33	2.58	37

Model No.		SLB40		SLB80		SLB120		SLB160		SLB200		SLB240		SLB280		SLB320	
T3M lens		Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx
MH	Area	cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2	
8	35 x 10.5	0.52	7.83	1.04	16	1.56	24	2.09	32	2.56	39	3.09	47	3.6	54	4.12	62
10	40 x 10.5	0.4	5.68	0.81	11	1.21	17	1.63	23	1.99	28	2.41	34	2.8	39	3.21	45
12	45 x 14	0.29	4.29	0.58	8.65	0.87	13	1.17	17	1.43	21	1.73	26	2.01	30	2.30	34

Model No.		SLB40		SLB80		SLB120		SLB160		SLB200		SLB240		SLB280		SLB320	
T3L lens		Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx
MH	Area	cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2	
8	35 x 10.5	0.55	7.22	1.11	15	1.65	22	2.21	29	2.71	36	3.27	43	3.81	73	4.36	57
10	45 x 10.5	0.39	4.98	0.79	10	1.18	15	1.58	20	1.93	25	2.34	30	2.72	49	3.11	40
12	50 x 14	0.26	3.55	0.52	7.17	0.78	11	1.05	14	1.28	18	1.55	21	1.80	41	2.06	28

Simulation Calculation Summary Reference



Pole Arrangement: Opposite (double rows opposing)

MH=Mounting Height (unit: m)

Area = Pole Spacing x Road Width (unit: m)

Lav* (cd/sq.m.) and Eav* (lux) are the values based on Dialux simulation calculations for one typical section of street.

Model No.		SLA30		SLA60		SLA90		SLA120		SLA150		SLA180		SLA210		SLA240		SLA270		SLA300	
T2M lens		Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx
MH	Area	cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2	
8	35 x 14	0.63	9.03	1.26	18	1.92	27	2.57	37	3.2	46	3.83	55	4.45	64	5.13	73	5.76	82	6.39	91
10	40 x 21	0.42	6.02	0.84	12	1.28	18	1.71	24	2.13	30	2.55	36	2.97	42	3.42	49	3.84	55	4.26	61
12	45 x 21	0.37	5.02	0.73	10	1.12	15	1.49	20	1.85	25	2.22	30	2.58	35	2.97	41	3.34	46	3.7	51

Model No.		SLA30		SLA60		SLA90		SLA120		SLA150		SLA180		SLA210		SLA240		SLA270		SLA300	
T3M lens		Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx
MH	Area	cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2	
8	35 x 21	0.51	7.53	1.02	15	1.57	23	2.08	31	2.61	38	3.09	46	3.63	53	4.15	61	4.69	69	5.21	77
10	40 x 21	0.43	6.02	0.85	12	1.31	18	1.73	24	2.17	31	2.58	36	3.02	43	3.46	49	3.91	55	4.34	61
12	45 x 28	0.31	4.21	0.61	8.23	0.94	13	1.24	17	1.56	21	1.85	25	2.17	30	2.48	34	2.8	39	3.11	43

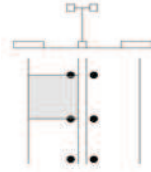
Model No.		SLA30		SLA60		SLA90		SLA120		SLA150		SLA180		SLA210		SLA240		SLA270		SLA300	
T3L lens		Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx
MH	Area	cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2	
8	35 x 21	0.5	7.03	1	14	1.54	22	2.04	29	2.56	36	3.03	42	3.55	50	4.07	57	4.6	64	5.11	71
10	45 x 21	0.36	4.98	0.72	9.92	1.11	15	1.47	20	1.84	25	2.18	30	2.56	35	2.93	40	3.31	46	3.68	51
12	50 x 28	0.26	3.59	0.52	7.16	0.8	11	1.06	15	1.33	18	1.58	22	1.85	25	2.11	29	2.39	33	2.65	37

Model No.		SLB40		SLB80		SLB120		SLB160		SLB200		SLB240		SLB280		SLB320	
T2M lens		Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx
MH	Area	cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2	
8	35 x 14	0.75	11	1.49	21	2.24	32	2.94	42	3.71	53	4.44	63	5.14	73	5.91	84
10	40 x 21	0.5	7.11	0.99	14	1.49	21	1.96	28	2.48	35	2.96	42	3.43	49	3.94	56
12	45 x 21	0.43	5.92	0.86	12	1.3	18	1.7	23	2.15	2	2.57	35	2.98	41	3.42	47

Model No.		SLB40		SLB80		SLB120		SLB160		SLB200		SLB240		SLB280		SLB320	
T3M lens		Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx
MH	Area	cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2	
8	35 x 21	0.61	9.03	1.24	18	1.85	27	2.48	36	3.04	45	3.67	54	4.27	63	4.88	72
10	40 x 21	0.51	7.22	1.03	15	1.54	22	2.07	29	2.53	36	3.06	43	3.56	50	4.07	57
12	45 x 28	0.37	5.04	0.74	10	1.11	15	1.48	20	1.82	25	2.19	30	2.55	35	2.92	40

Model No.		SLB40		SLB80		SLB120		SLB160		SLB200		SLB240		SLB280		SLB320	
T3L lens		Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx
MH	Area	cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2	
8	35 x 21	0.6	8.43	1.21	17	1.81	25	2.43	34	2.98	42	3.6	50	4.18	59	4.79	67
10	45 x 21	0.43	5.97	0.87	12	1.31	18	1.75	24	2.14	30	2.59	36	3.01	42	3.45	47
12	50 x 28	0.31	4.31	0.63	8.7	0.94	13	1.26	17	1.55	21	1.87	26	2.18	30	2.49	34

Simulation Calculation Summary Reference



Pole Arrangement: Median

MH=Mounting Height (unit: m)

Area = Pole Spacing x Road Width (unit: m)

Lav* (cd/sq.m.) and Eav* (lux) are the values based on Dialux simulation calculations for one typical section of street.

Model No.		SLA30		SLA60		SLA90		SLA120		SLA150		SLA180		SLA210		SLA240		SLA270		SLA300	
T2M lens		Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx
MH	Area	cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2	
8	35 x 14	0.73	9.54	1.46	19	2.32	29	2.98	39	3.7	48	4.44	58	5.16	67	5.95	77	6.67	87	7.4	96
10	40 x 21	0.4	5.52	0.79	11	1.21	17	1.61	22	2	28	2.4	33	2.79	39	3.22	45	3.61	50	4.01	56
12	45 x 21	0.38	5.01	0.75	9.98	1.15	15	1.53	20	1.9	25	2.28	30	2.65	35	3.06	40	3.43	46	3.8	51

Model No.		SLA30		SLA60		SLA90		SLA120		SLA150		SLA180		SLA210		SLA240		SLA270		SLA300	
T3M lens		Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx
MH	Area	cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2	
8	35 x 21	0.48	7.03	0.95	14	1.46	22	1.93	29	2.43	36	2.88	42	3.38	50	3.86	57	4.37	64	4.85	71
10	40 x 21	0.43	6.02	0.85	12	1.31	18	1.73	24	2.17	31	2.58	36	3.02	43	3.46	49	3.91	55	4.34	61
12	45 x 28	0.25	3.87	0.49	7.7	0.76	12	1	16	1.25	20	1.49	23	1.74	27	1.99	31	2.25	35	2.5	39

Model No.		SLA30		SLA60		SLA90		SLA120		SLA150		SLA180		SLA210		SLA240		SLA270		SLA300	
T3L lens		Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx
MH	Area	cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2	
8	35 x 21	0.43	6.53	0.85	13	1.31	20	1.73	26	2.17	33	2.58	39	3.02	46	3.46	53	3.91	60	4.34	66
10	45 x 21	0.34	4.91	0.67	9.78	1.03	15	1.36	20	1.71	25	2.03	30	2.38	35	2.72	40	3.08	45	3.42	50
12	50 x 28	0.19	3.08	0.38	6.14	0.59	9.46	0.77	13	0.97	16	1.15	19	1.35	22	1.54	25	1.75	28	1.94	31

Model No.		SLB40		SLB80		SLB120		SLB160		SLB200		SLB240		SLB280		SLB320	
T2M lens		Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx
MH	Area	cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2	
8	35 x 14	0.86	11	1.73	22	2.59	34	3.41	44	4.3	56	5.14	67	5.96	78	6.84	89
10	40 x 14	0.47	6.51	0.94	13	1.4	20	1.85	26	2.33	32	2.78	39	3.23	45	3.7	52
12	45 x 22.5	0.44	5.91	0.89	12	1.33	18	1.75	23	2.21	29	2.64	35	3.06	41	3.52	47

Model No.		SLB40		SLB80		SLB120		SLB160		SLB200		SLB240		SLB280		SLB320	
T3M lens		Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx
MH	Area	cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2	
8	35 x 21	0.57	8.43	1.15	17	1.72	25	2.31	34	2.83	42	3.42	50	3.97	59	4.55	67
10	40 x 21	0.51	7.22	1.03	15	1.54	22	2.07	29	2.53	36	3.06	43	3.56	50	4.07	57
12	45 x 28	0.29	4.64	0.6	9.35	0.89	14	1.19	19	1.46	23	1.76	28	2.05	32	2.35	37

Model No.		SLB40		SLB80		SLB120		SLB160		SLB200		SLB240		SLB280		SLB320	
T3L lens		Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx
MH	Area	cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2	
8	35 x 10.5	0.51	7.83	1.03	16	1.54	24	2.07	32	2.53	39	3.06	47	3.56	54	4.07	62
10	45 x 10.5	0.4	5.89	0.81	12	1.21	18	1.63	24	1.99	29	2.41	35	2.8	41	3.21	47
12	50 x 14	0.23	3.7	0.46	7.46	0.69	11	0.92	15	1.13	18	1.37	22	1.59	26	1.82	29

LED Floodlight (Mounting bracket code: U)



cULus and DLC QPL listed.
(UL File No.: E467349)



CB IP67 IK08 ErP



Certified by TUV-sud according to the following standards:

IEC /EN 60598-1: 2008

IEC /EN 60598-2-3/A1: 2011

EN 62493:2010

IEC62471: 2008

IEC62471-2:2009

EN 55015: 2013

EN61547:2009

EN61000-3-2/A2:2009

EN 61000-3-3:2013

(EU) 1194/2012:2012-12-12

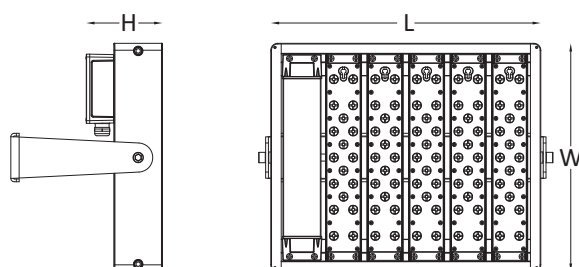
(EC) 244/2009:2009-03-18

ENEC: No.: U6140888771008(FLA Models)

CB:No. : SG-LE-00945(FLA Models)

Ik08 rating, 1000 hours salt mist test reports are furnished upon request.

Dimensional Drawing



Features & Benefits

- 1) Based on the most successful product development, manufacturing and application expertise and experience.
- 2) Powered by the worldwide best LED, LED drivers, and other key components.
- 3) Meet all the major product qualifications.
- 4) Sufficient optics solutions at option to meet almost all lighting standards.
- 5) Modular mechanical construction, and the most thoughtful design, make the product the most user friendly and easiest for assembly, maintenance and installation.
- 6) The most competitive in cost performance, and one of the best ownership costs. 10 years limited warranty, free from maintenance for 10 years at least, the most competitive in operating cost, soonest in return on investment (ROI) or payback.
- 7) Environmentally friendly packaging materials (EPE).

Applications

Commercial and industrial lighting

LED Floodlight (Mounting bracket code: U)

Ordering Information

Example 1: FLA-60-U-T5M-50K-BK-00

Example 2: FLB-200-U-T5L-50K-BK-00

Example 3: FLC-80-U-T5L-50K-GR-00

Product ID	Power (W)	or	Product ID	Power (W)	or	Product ID	Power (W)	Mounting	Optic Lens	CCT* (ANSI)	Housing Color**	Lighting Control
FLA ₃	60 ₁ 60W		FLB ₄	80 ₂ 80W		FLC ₅	80 80W	U	T1M	30K	BK	00
									T2M	3045	Black (RAL:9011)	Not required
	90 90W		120 120W			120 120W			T3M	±175K		
	120 120W		160 160W			160 160W			T3L	40K	GR	01
	150 150W		200 200W			200 200W			T4S	3985	Grey (RAL:7004)	Photocell
	180 180W		240 240W			240 240W			T5U	±275K		02
	210 210W		280 280W			280 280W			T5V	50K	WH	Motion Sensor
	240 240W		320 320W			320 320W			T5W	5028	White (RAL:9010)	03
	270 270W								T5S	±283K		Photocell+
	300 300W								T5M	57K	BZ	Motion Sensor
									T5L	5665	Bronze (RAL:8017)	04
									T5D	±355K		DALI
												05
												1-10V dimming

Footnotes:

● CCT*:

- LEDs at 5000k CCT are always in stock largely to support prompt delivery of finished products.
- LEDs at 3000k, 4000k, 5700k CCT are in stock as well, but the quantity is small to meet small needs, and the shipment for the finished products with these LEDs cannot be made sooner than those with LEDs at 5000k CCT.
- LEDs at CCT or wavelength (unit nm) which is not in stock are available upon request, but the lead time for the finished products with these types of LEDs cannot be soon, also the unit price is higher.

● Housing Color**:

- BK (Black) housings are always in stock largely to support prompt delivery of finished products.
- GR (Grey), WH (White), BZ (Bronze) housing are available too, and the unit price of the finished product with these types of housings may be different from that with black housing, but the lead time is longer relatively.
- Other housing colors which are not mentioned can be customized, but the unit price is higher, the lead time is much longer.

● Optic Lens Options:

- | | |
|-------------------------|---|
| 1) T1M: Type I Medium | 7) T5V: 25° |
| 2) T2M: Type II Medium | 8) T5W: 40° |
| 3) T3M: Type III Medium | 9) T5S: 60° |
| 4) T3L: Type III Long | 10) T5M: 90° |
| 5) T4S: Type IV Short | 11) T5L: 120° |
| 6) T5U: 10° | 12) T5D: (frosted front cover, glare resistant) |

1, 2, 5: DALI control is not available.

3, 4: Photocell and motion sensing are available based on customization request.

5: Photocell is available based on customization request.

LED Floodlight (Mounting bracket code: U)

BRIEF SPECIFICATIONS

Model No.	FLA60-U	FLA90-U	FLA120-U	FLA150-U	FLA180-U	FLA210-U	FLA240-U	FLA270-U	FLA300-U
No. of LEDs	36	54	72	90	108	126	144	162	180
Power	60W	90W	120W	150W	180W	210W	240W	270W	300W
Net Weight	4.97kg	6.10kg	7.01kg	7.74kg	10.13kg	10.96kg	12.23kg	12.98kg	13.68kg
Gross Weight	5.62kg	6.85kg	7.89kg	8.71kg	11.21kg	12.09kg	13.40kg	14.20kg	14.96kg
Dimensions (L x W x H)	210 x 330 110mm	270 x 330 x 100mm	330 x 330 110mm	390 x 330 x 100mm	510 x 330 x 110mm	570 x 330 x 110mm	630 x 330 x 110mm	690 x 330 x 110mm	750 x 330 x 110mm
Carton Dimensions (L x W x H)	315 x 425 x 160mm	375 x 425 160mm	435 x 425 x 160mm	495 x 425 160mm	615 x 425 x 160mm	675 x 425 x 160mm	735 x 425 x 160mm	795 x 425 x 160mm	855 x 425 x 160mm
Input	120-277V AC or 220-240V AC 50/60Hz								

Model No.	FLB80-U	FLB120-U	FLB160-U	FLB200-U	FLB240-U	FLB280-U	FLB320-U
No. of LEDs	36	54	72	90	108	126	144
Power	80W	120W	160W	200W	240W	280W	320W
Net Weight	4.97kg	6.10kg	7.01kg	8.80kg	10.13kg	10.96kg	12.23kg
Gross Weight	5.62kg	6.85kg	7.89kg	9.77kg	11.21kg	12.09kg	13.40kg
Dimensions (L x W x H)	210 x 330 x 110mm	270 x 330 x 110mm	330 x 330 x 110mm	450 x 330 x 110mm	510 x 330 x 110mm	570 x 330 x 110mm	630 x 330 x 110mm
Carton Dimensions (L x W x H)	315 x 425 x 160mm	375 x 425 x 160mm	435 x 425 x 160mm	555 x 425 x 160mm	615 x 425 x 160mm	675 x 425 x 160mm	735 x 425 x 160mm
Input	120-277V AC or 220-240V AC 50/60Hz						

Model No.	FLC80-U	FLC120-U	FLC160-U	FLC200-U	FLC240-U	FLC280-U	FLC320-U
No. of LEDs	36	54	72	90	108	126	144
Power	80W	120W	160W	200W	240W	280W	320W
Net Weight	4.97kg	6.10kg	7.01kg	8.80kg	10.13kg	10.96kg	12.23kg
Gross Weight	5.62kg	6.85kg	7.89kg	9.77kg	11.21kg	12.09kg	13.40kg
Dimensions (L x W x H)	210 x 330 x 110mm	270 x 330 x 110mm	330 x 330 x 110mm	450 x 330 x 110mm	510 x 330 x 110mm	570 x 330 x 110mm	630 x 330 x 110mm
Carton Dimensions (L x W x H)	315 x 425 x 160mm	375 x 425 x 160mm	435 x 425 x 160mm	555 x 425 x 160mm	615 x 425 x 160mm	675 x 425 x 160mm	735 x 425 x 160mm
Input	347-480V AC 50/60Hz						

Drive current

1. FLA*U: 530mA
2. FLB*U: 700mA
3. FLC*U: 700mA

General specifications for all the above items:

Electrical:

1. Power Factor: >0.95 at full load.
2. Total Harmonic Distortion: <20% at full load.

Lifetime per TM21 and working temperature:

3. Reported L70 Lifetime: >60,000 hours.
Calculated L70 Lifetime: >100,000 hours.
4. Ambient Temperature (Ta): -40 to 50 degrees celcius (-40 to 122 degrees Fahrenheit).

Typical Luminous Efficacy:

5. Typical Luminous Efficacy (FLA models): 110 lm/w (5000K CCT, Ra>70).
6. Typical Luminous Efficacy (FLB, FLC models): 100 lm/w (5000K CCT, Ra>70).
7. System Efficacy and power are customized, e.g. 130 lm/W.

Materials:

8. LED option: CREE or PHILIPS Lumileds.
9. LED Driver Origin: PHILIPS or MEANWELL.
10. Worldwide top brand quick connector for tool-free wiring, and terminal block for easiest wiring.
11. Extruded aluminium LED driver compartment with die cast aluminium end cap, and led light bar end caps with corrosion resistant powder coating. Extruded aluminium alloy heat sink with anodized finish. 304 graded stainless steel protective cover to protect UV resistant polycarbonate lenses.

LED Flood/ Projection Light (Mounting bracket code: UR)



cULus and DLC QPL listed.
(UL File No.: E467349)



CB IP67 IK08 ErP

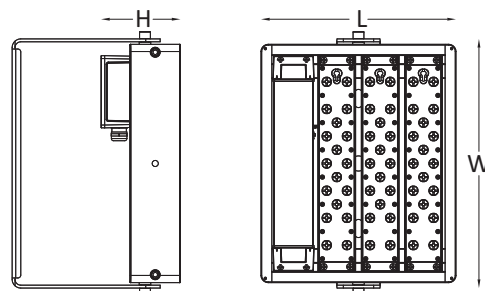
Certified by TUV-sud according to the following standards:

IEC /EN 60598-1: 2008
IEC /EN 60598-2-3/A1: 2011
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EN61000-3-2/A2:2009
EN 61000-3-3:2013
(EU) 1194/2012:2012-12-12
(EC) 244/2009:2009-03-18

ENEC: No.: U6140888771008 (FLA Models)
CB:No.: SG-LE-00945 (FLA Models)

Ik08 rating, 1000 hours salt mist test reports are furnished upon request.

Dimensional Drawing



Features & Benefits

- 1) Based on the most successful product development, manufacturing and application expertise and experience.
- 2) Powered by the worldwide best LED, LED drivers, and other key components.
- 3) Meet all the major product qualifications.
- 4) Sufficient optics solutions at option to meet almost all lighting standards.
- 5) Modular mechanical construction, and the most thoughtful design, make the product the most user friendly and easiest for assembly, maintenance and installation.
- 6) The most competitive in cost performance, and one of the best ownership costs. 10 years limited warranty, free from maintenance for 10 years at least, the most competitive in operating cost, soonest in return on investment (ROI) or payback.
- 7) Environmentally friendly packaging materials (EPE).

Applications

Commercial and industrial lighting

LED Flood/ Projection Light (Mounting bracket code: UR)

Ordering Information

Example 1: FLA-30-UR-T5S-50K-BK-00

Example 2: FLB-120-UR-T4S-50K-BK-00

Example 3: FLC-80-UR-T5M-50K-BK-00

Product ID	Power (W)	or	Product ID	Power (W)	or	Product ID	Power (W)	Mounting	Optic Lens	CCT* (ANSI)	Housing Color**	Lighting Control
FLA ₅	30 ₁ 30W		FLB ₆	40 ₃ 40W		FLC ₇	80 80W	UR	T1M	30K	BK	00
									T2M	3045	Black (RAL:9011)	Not required
	60 ₂ 60W			80 ₄ 80W			120 120W		T3M	±175K		
									T3L	40K	GR	04
	90 90W			120 120W			160 160W		T4S	3985	Grey (RAL:7004)	DALI
									T5U	±275K		05
	120 120W			160 160W			200 200W		T5V	50K	WH	1-10V dimming
	150 150W			200 200W			240 240W		T5W	5028	White (RAL:9010)	
180 180W			240 240W						T5S	±283K		
									T5M	57K	BZ	
									T5L	5665	Bronze (RAL:8017)	
									T5D	±355K		

Footnotes:

● CCT*:

- LEDs at 5000k CCT are always in stock largely to support prompt delivery of finished products.
- LEDs at 3000k, 4000k, 5700k CCT are in stock as well, but the quantity is small to meet small needs, and the shipment for the finished products with these LEDs cannot be made sooner than those with LEDs at 5000k CCT.
- LEDs at CCT or wavelength (unit nm) which is not in stock are available upon request, but the lead time for the finished products with these types of LEDs cannot be soon, also the unit price is higher.

● Housing Color**:

- BK (Black) housings are always in stock largely to support prompt delivery of finished products.
- GR (Grey), WH (White), BZ (Bronze) housing are available too, and the unit price of the finished product with these types of housings may be different from that with black housing, but the lead time is longer relatively.
- Other housing colors which are not mentioned can be customized, but the unit price is higher, the lead time is much longer.

● Optic Lens Options:

- | | |
|-------------------------|---|
| 1) T1M: Type I Medium | 7) T5V: 25° |
| 2) T2M: Type II Medium | 8) T5W: 40° |
| 3) T3M: Type III Medium | 9) T5S: 60° |
| 4) T3L: Type III Long | 10) T5M: 90° |
| 5) T4S: Type IV Short | 11) T5L: 120° |
| 6) T5U: 10° | 12) T5D: (frosted front cover, glare resistant) |

1, 2, 3, 4, 7: DALI control is not available.

5, 6: Photocell and motion sensing are available based on customization request.

7: Photocell is available based on customization request.

LED Flood/ Projection Light (Mounting bracket code: UR)

BRIEF SPECIFICATIONS

Model No.	FLA30-UR	FLA60-UR	FLA90-UR	FLA120-UR	FLA150-UR	FLA180-UR
No. of LEDs	18	36	54	72	90	108
Power	30W	60W	90W	120W	150W	180W
Net Weight	5.06kg	5.69kg	6.35kg	7.01kg	7.67kg	9.69kg
Gross Weight	5.71kg	6.34kg	7kg	7.89kg	8.78kg	10.86kg
Dimensions (L x W x H)	150 x 345 x 110mm	310 x 345 x 110mm	270 x 345 x 110mm	330 x 345 x 110mm	390 x 345 x 110mm	510 x 345 x 110mm
Carton Dimensions (L x W x H)	315 x 425 x 160mm	315 x 425 x 160mm	375 x 425 x 160mm	435 x 425 x 160mm	495 x 425 x 160mm	615 x 425 x 160mm
Input	120-277V AC or 220-240V AC 50/60Hz					

Model No.	FLB40-UR	FLB80-UR	FLB120-UR	FLB160-UR	FLB200-UR	FLB240-UR
No. of LEDs	18	36	54	72	90	108
Power	40W	80W	120W	160W	200W	240W
Net Weight	5.06kg	5.69kg	6.35kg	7.01kg	8.30kg	9.69kg
Gross Weight	5.71kg	6.34kg	7kg	7.89kg	9.41kg	10.86kg
Dimensions (L x W x H)	150 x 345 x 110mm	310 x 345 x 110mm	270 x 345 x 110mm	330 x 345 x 110mm	450 x 345 x 110mm	510 x 345 x 110mm
Carton Dimensions (L x W x H)	315 x 425 x 160mm	315 x 425 x 160mm	375 x 425 x 160mm	435 x 425 x 160mm	555 x 425 x 160mm	615 x 425 x 160mm
Input	120-277V AC or 220-240V AC 50/60Hz					

Model No.	FLC80-UR	FLC120-UR	FLC160-UR	FLC200-UR	FLC240-UR
No. of LEDs	36	54	72	90	108
Power	80W	120W	160W	200W	240W
Net Weight	5.69kg	6.35kg	7.01kg	8.30kg	9.69kg
Gross Weight	6.34kg	7kg	7.89kg	9.41kg	10.86kg
Dimensions (L x W x H)	310 x 345 x 110mm	270 x 345 x 110mm	330 x 345 x 110mm	450 x 345 x 110mm	510 x 345 x 110mm
Carton Dimensions (L x W x H)	315 x 425 x 160mm	375 x 425 x 160mm	435 x 425 x 160mm	555 x 425 x 160mm	615 x 425 x 160mm
Input	347-480V AC 50/60Hz				

Drive current

1. FLA*UR: 530mA
2. FLB*UR: 700mA
3. FLC*UR: 700mA

General specifications for all the above items:

Electrical:

1. Power Factor: >0.95 at full load.
2. Total Harmonic Distortion: <20% at full load.

Lifetime per TM21 and working temperature:

3. Reported L70 Lifetime: >60,000 hours.
Calculated L70 Lifetime: >100,000 hours.
4. Ambient Temperature (Ta): -40 to 50 degrees celcius (-40 to 122 degrees Fahrenheit).

Typical Luminous Efficacy:

5. Typical Luminous Efficacy (FLA models): 110 lm/w (5000K CCT, Ra>70).
6. Typical Luminous Efficacy (FLB, FLC models): 100 lm/w (5000K CCT, Ra>70).
7. System Efficacy and power are customized, e.g. 130 lm/W.

Materials:

8. LED option: CREE or PHILIPS Lumileds.
9. LED Driver Origin: PHILIPS or MEANWELL.
10. Worldwide top brand quick connector for tool-free wiring, and terminal block for easiest wiring.
11. Extruded aluminium LED driver compartment with die cast aluminium end cap, and led light bar end caps with corrosion resistant powder coating. Extruded aluminium alloy heat sink with anodized finish. 304 graded stainless steel protective cover to protect UV resistant polycarbonate lenses.

LED low bay / high bay light (Mounting bracket code: D)



cULus and DLC QPL listed.
(UL File No.: E467349)



CB IP67 IK08 ErP



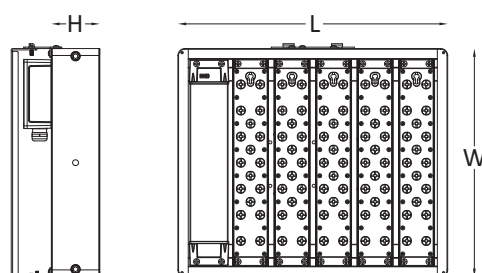
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(EU) 1194/2012:2012-12-12
(EC) 244/2009:2009-03-18

ENEC: No.: U6140888771008 (FLA Models)
CB:No.: SG-LE-00945 (FLA Models)

Ik08 rating, 1000 hours salt mist test reports are furnished upon request.

Dimensional Drawing



Features & Benefits

- 1) Based on the most successful product development, manufacturing and application expertise and experience.
- 2) Powered by the worldwide best LED, LED drivers, and other key components.
- 3) Meet all the major product qualifications.
- 4) Sufficient optics solutions at option to meet almost all lighting standards.
- 5) Modular mechanical construction, and the most thoughtful design, make the product the most user friendly and easiest for assembly, maintenance and installation.
- 6) The most competitive in cost performance, and one of the best ownership costs. 10 years limited warranty, free from maintenance for 10 years at least, the most competitive in operating cost, soonest in return on investment (ROI) or payback.
- 7) Environmentally friendly packaging materials (EPE).

Applications

Commercial and industrial low bay / high bay lighting.

LED low bay / high bay light (Mounting bracket code: D)

Ordering Information

Example 1: FLA-30-D-T5M-50K-BK-00

Example 2: FLB-200-D-T5L-50K-BK-00

Example 3: FLC-80-D-T5L-50K-GR-00

Product ID	Power (W)	or	Product ID	Power (W)	or	Product ID	Power (W)	Mounting	Optic Lens	CCT* (ANSI)	Housing Color**	Lighting Control
FLA ₅	30 ₁ 30W		FLB ₆	40 ₃ 40W		FLC ₇	80 80W	D	T1M	30K	BK	00
									T2M	3045	Black (RAL:9011)	Not required
	60 ₂ 60W			80 ₄ 80W			120 120W		T3M	±175K		
									T3L	40K	GR	01
	90 90W			120 120W			160 160W		T4S	3985	Grey (RAL:7004)	DALI
	120 120W			160 160W			200 200W		T5U	±275K		02
	150 150W			200 200W			240 240W		T5V	50K	WH	1-10V dimming
									T5W	5028	White (RAL:9010)	
	180 180W			240 240W			280 280W		T5S	±283K		
	210 210W			280 280W			320 320W		T5M	57K	BZ	
									T5L	5665	Bronze (RAL:8017)	
	240 240W			320 320W					T5D	±355K		
	270 270W											
	300 300W											

Footnotes:

● CCT*:

- LEDs at 5000k CCT are always in stock largely to support prompt delivery of finished products.
- LEDs at 3000k, 4000k, 5700k CCT are in stock as well, but the quantity is small to meet small needs, and the shipment for the finished products with these LEDs cannot be made sooner than those with LEDs at 5000k CCT.
- LEDs at CCT or wavelength (unit nm) which is not in stock are available upon request, but the lead time for the finished products with these types of LEDs cannot be soon, also the unit price is higher.

● Housing Color**:

- BK (Black) housings are always in stock largely to support prompt delivery of finished products.
- GR (Grey), WH (White), BZ (Bronze) housing are available too, and the unit price of the finished product with these types of housings may be different from that with black housing, but the lead time is longer relatively.
- Other housing colors which are not mentioned can be customized, but the unit price is higher, the lead time is much longer.

● Optic Lens Options:

- | | |
|-------------------------|---|
| 1) T1M: Type I Medium | 7) T5V: 25° |
| 2) T2M: Type II Medium | 8) T5W: 40° |
| 3) T3M: Type III Medium | 9) T5S: 60° |
| 4) T3L: Type III Long | 10) T5M: 90° |
| 5) T4S: Type IV Short | 11) T5L: 120° |
| 6) T5U: 10° | 12) T5D: (frosted front cover, glare resistant) |

1, 2, 3, 4, 7: DALI control is not available.

5, 6: Photocell and motion sensing are available based on customization request.

7: Photocell is available based on customization request.

LED low bay / high bay light (Mounting bracket code: D)

BRIEF SPECIFICATIONS

Model No.	FLA30-D	FLA60-D	FLA90-D	FLA120-D	FLA150-D	FLA180-D	FLA210-D	FLA240-D	FLA270-D	FLA300-D
No. of LEDs	18	36	54	72	90	108	126	144	162	180
Power	30W	60W	90W	120W	150W	180W	210W	240W	270W	300W
Net Weight	4.84Kg	4.84Kg	5.83Kg	6.49Kg	7.16Kg	9.18Kg	9.82Kg	10.8Kg	11.58Kg	12.24Kg
Gross Weight	5.49Kg	5.49Kg	6.58Kg	7.34Kg	8.13Kg	10.21Kg	10.97Kg	11.92Kg	12.77Kg	13.49Kg
Dimensions (L x W x H)	210 x 330 x 128mm	210 x 330 x 128mm	270 x 330 x 128mm	330 x 330 x 128mm	390 x 330 x 128mm	510 x 330 x 128mm	570 x 330 x 128mm	630 x 330 x 128mm	690 x 330 x 128mm	750 x 330 x 128mm
Carton Dimensions (L x W x H)	315 x 425 x 160mm	315 x 425 x 160mm	375 x 425 x 160mm	435 x 425 x 160mm	495 x 425 x 160mm	615 x 425 x 160mm	675 x 425 x 160mm	735 x 425 x 160mm	795 x 425 x 160mm	855 x 425 x 160mm
Input	120-277V AC or 220-240V AC 50/60Hz									

Model No.	FLB40-D	FLB80-D	FLB120-D	FLB160-D	FLB200-D	FLB240-D	FLB280-D	FLB320-D
No. of LEDs	18	36	54	72	90	108	126	144
Power	40W	80W	120W	160W	200W	240W	280W	320W
Net Weight	4.84Kg	4.84Kg	5.83Kg	6.49Kg	8.22Kg	9.18Kg	9.82Kg	10.8Kg
Gross Weight	5.49Kg	5.49Kg	6.58Kg	7.34Kg	9.19Kg	10.21Kg	10.97Kg	11.92Kg
Dimensions (L x W x H)	210 x 330 x 128mm	210 x 330 x 128mm	270 x 330 x 128mm	330 x 330 x 128mm	450 x 330 x 128mm	510 x 330 x 128mm	570 x 330 x 128mm	630 x 330 x 128mm
Carton Dimensions (L x W x H)	315 x 425 x 160mm	315 x 425 x 160mm	375 x 425 x 160mm	435 x 425 x 160mm	555 x 425 x 160mm	615 x 425 x 160mm	675 x 425 x 160mm	735 x 425 x 160mm
Input	120-277V AC or 220-240V AC 50/60Hz							

Model No.	FLC80-D	FLC120-D	FLC160-D	FLC200-D	FLC240-D	FLC280-D	FLC320-D
No. of LEDs	36	54	72	90	108	126	144
Power	80W	120W	160W	200W	240W	280W	320W
Net Weight	4.84Kg	5.83Kg	6.49Kg	8.22Kg	9.18Kg	9.82Kg	10.8Kg
Gross Weight	5.49Kg	6.58Kg	7.34Kg	9.19Kg	10.21Kg	10.97Kg	11.92Kg
Dimensions (L x W x H)	210 x 330 x 128mm	270 x 330 x 128mm	330 x 330 x 128mm	450 x 330 x 128mm	510 x 330 x 128mm	570 x 330 x 128mm	630 x 330 x 128mm
Carton Dimensions (L x W x H)	315 x 425 x 160mm	375 x 425 x 160mm	435 x 425 x 160mm	555 x 425 x 160mm	615 x 425 x 160mm	675 x 425 x 160mm	735 x 425 x 160mm
Input	347-480V AC 50/60Hz						

Drive current

1. FLA*D: 530mA
2. FLB*D: 700mA
3. FLC*D: 700mA

General specifications for all the above items:

Electrical:

1. Power Factor: >0.95 at full load.
2. Total Harmonic Distortion: <20% at full load.

Lifetime per TM21 and working temperature:

3. Reported L70 Lifetime: >60,000 hours .
- Calculated L70 Lifetime: >100,000 hours.
4. Ambient Temperature (Ta): -40 to 50 degrees celcius (-40 to 122 degrees Fahrenheit).

Typical Luminous Efficacy:

5. Typical Luminous Efficacy (FLA models): 110 lm/w (5000K CCT, Ra>70).
6. Typical Luminous Efficacy (FLB, FLC models): 100 lm/w (5000K CCT, Ra>70).
7. System Efficacy and power are customized, e.g. 130 lm/W.

Materials:

8. LED option: CREE or PHILIPS Lumileds.
9. LED Driver Origin: PHILIPS or MEANWELL.
10. Worldwide top brand quick connector for tool-free wiring, and terminal block for easiest wiring.
11. Extruded aluminium LED driver compartment with die cast aluminium end cap, and led light bar end caps with corrosion resistant powder coating. Extruded aluminium alloy heat sink with anodized finish. 304 graded stainless steel protective cover to protect UV resistant polycarbonate lenses.

LED canopy light (Mounting bracket code: E)



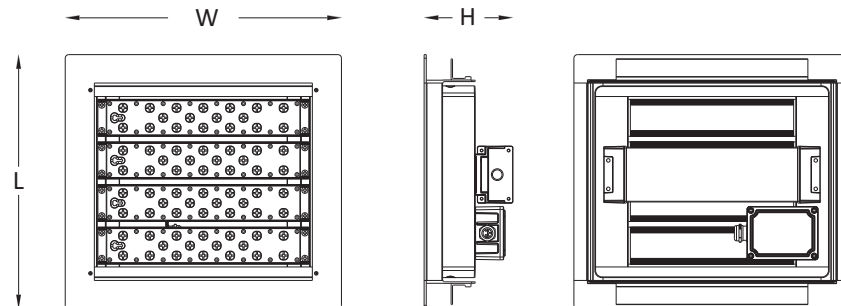
CE CB IP67 IK08 ErP 

Compliant with the following standards:

IEC /EN 60598-1: 2008
IEC /EN 60598-2-3/A1: 2011
EN 62493:2010
IEC62471: 2008
IEC62471-2:2009
EN 55015: 2013
EN61547:2009
EN61000-3-2/A2:2009
EN 61000-3-3:2013
(EU) 1194/2012:2012-12-12
(EC) 244/2009:2009-03-18

Ik08 rating, 1000 hours salt mist test reports are furnished upon request.

Dimensional Drawing



Features & Benefits

- 1) Based on the most successful product development, manufacturing and application expertise and experience.
- 2) Powered by the worldwide best LED, LED drivers, and other key components.
- 3) Compliant with almost all the major product qualifications.
- 4) Sufficient optics solutions at option to meet almost all the lighting standards.
- 5) Modular mechanical construction, and the most thoughtful design, make the product the most user friendly and easiest for assembly, maintenance and installation.
- 6) The most competitive in cost performance, and one of the best ownership costs. 10 years limited warranty, free from maintenance for 10 years at least, the most competitive in operating cost, soonest in return on investment (ROI) or payback.
- 7) Environmentally friendly packaging materials (EPE).

Applications

Commercial and industrial lighting.

LED canopy light (Mounting bracket code: E)

Ordering Information

Example 1: FLA-90-E-T5L-50K-WH-00

Example 2: FLB-200-E-T5L-50K-WH-00

Example 3: FLC-240-E-T5L-50K-WH-00

Product ID	Power (W)	or	Product ID	Power (W)	or	Product ID	Power (W)	Mounting	Optic Lens	CCT* (ANSI)	Housing Color**	Lighting Control
FLA	90		FLB	120		FLC ₁	120	E	T1M	30K	WH	00
	90W			120W			120W		T2M	3045	White (RAL:9010)	Not required
	120			160			160		T3M	±175K		
	120W			160W			160W		T3L	40K	GR	01
	150			200			200		T4S	3985	Grey (RAL:7004)	DALI
	150W			200W			200W		T5U	±275K		02
	180			240			240		T5V	50K	BK	1-10V dimming
	180W			240W			240W		T5W	5028	Black (RAL:9011)	
									T5S	±283K		
									T5M	57K	BZ	
									T5L	5665	Bronze (RAL:8017)	
									T5D	±355K		

Footnotes:

● CCT*:

1. LEDs at 5000k CCT are always in stock largely to support prompt delivery of finished products.
2. LEDs at 3000k, 4000k, 5700k CCT are in stock as well, but the quantity is small to meet small needs, and the shipment for the finished products with these LEDs cannot be made sooner than those with LEDs at 5000k CCT.
3. LEDs at CCT or wavelength (unit nm) which is not in stock are available upon request, but the lead time for the finished products with these types of LEDs cannot be soon, also the unit price is higher.

● Housing Color**:

1. WH (White) housings are always in stock largely to support prompt delivery of finished products.
2. BK (Black), GR (Grey), BZ (Bronze) housing are available too, and the unit price of the finished product with these types of housings may be different from that with white housing, but the lead time is longer relatively.
3. Other housing colors which are not mentioned can be customized, but the unit price is higher, the lead time is much longer.

● Optic Lens Options:

- 1) T1M: Type I Medium
- 2) T2M: Type II Medium
- 3) T3M: Type III Medium
- 4) T3L: Type III Long
- 5) T4S: Type IV Short
- 6) T5U: 10°
- 7) T5V: 25°
- 8) T5W: 40°
- 9) T5S: 60°
- 10) T5M: 90°
- 11) T5L: 120°
- 12) T5D: (frosted front cover, glare resistant)

1: DALI control is not available.

LED canopy light (Mounting bracket code: E)

BRIEF SPECIFICATIONS

Model No.	FLA90-E	FLA120-E	FLA150-E	FLA180-E
No. of LEDs	54	72	90	108
Power	90W	120W	150W	180W
Net Weight	6.13kg	6.89kg	7.62kg	9.68kg
Gross Weight	7kg	7.83kg	8.66kg	10.78kg
Dimensions (L x W x H)	298 x 389 x 125mm	358 x 389 x 125mm	418 x 389 x 125mm	478 x 389 x 125mm
Carton Dimensions (L x W x H)	375 x 425 x 160mm	435 x 425 x 160mm	495 x 425 x 160mm	615 x 425 x 160mm
Cut-out(L x W)	240 x 360mm	300 x 360mm	360 x 360mm	420 x 360mm
Input	120-277V AC or 220-240V AC 50/60Hz			

Model No.	FLB120-E	FLB160-E	FLB200-E	FLB240-E
No. of LEDs	54	72	90	108
Power	120W	160W	200W	240W
Net Weight	6.13kg	6.89kg	8.69kg	9.68kg
Gross Weight	7kg	7.83kg	9.42kg	10.78kg
Dimensions (L x W x H)	298 x 389 x 125mm	358 x 389 x 125mm	418 x 389 x 125mm	478 x 389 x 125mm
Carton Dimensions (L x W x H)	375 x 425 x 160mm	435 x 425 x 160mm	555 x 425 x 160mm	615 x 425 x 160mm
Cut-out(L x W)	240 x 360mm	300 x 360mm	360 x 360mm	420 x 360mm
Input	120-277V AC or 220-240V AC 50/60Hz			

Model No.	FLC120-E	FLC160-E	FLC200-E	FLC240-E
No. of LEDs	54	72	90	108
Power	120W	160W	200W	240W
Net Weight	6.13kg	6.89kg	8.69kg	9.68kg
Gross Weight	7kg	7.83kg	9.42kg	10.78kg
Dimensions (L x W x H)	298 x 389 x 125mm	358 x 389 x 125mm	418 x 389 x 125mm	478 x 389 x 125mm
Carton Dimensions (L x W x H)	375 x 425 x 160mm	435 x 425 x 160mm	555 x 425 x 160mm	615 x 425 x 160mm
Cut-out(L x W)	240 x 360mm	300 x 360mm	360 x 360mm	420 x 360mm
Input	347-480V AC 50/60Hz			

Drive current

1. FLA*: 530mA
2. FLB*: 700mA
3. FLC*: 700mA

General specifications for all the above items:

Electrical:

1. Power Factor: >0.95 at full load.
2. Total Harmonic Distortion: <20% at full load.

Lifetime and working temperature:

3. Reported L70 Lifetime: >60,000 hours .
Calculated L70 Lifetime: >100,000 hours.
4. Ambient Temperature (Ta): -40 to 50 degrees celcius (-40 to 122 degrees Fahrenheit).

Typical Luminous Efficacy:

5. Typical Luminous Efficacy (FLA models): 110 lm/w (5000K CCT, Ra>70).
6. Typical Luminous Efficacy (FLB, FLC models): 100 lm/w (5000K CCT, Ra>70).
7. System Efficacy and power are customized, e.g. 130 lm/W.

Materials:

8. LED option: CREE or PHILIPS Lumileds.
9. LED Driver Origin: PHILIPS or MEANWELL.
10. Worldwide top brand quick connector for tool-free wiring, and terminal block for easiest wiring.
11. Extruded aluminium LED driver compartment with die cast aluminium end cap, and led light bar end caps with corrosion resistant powder coating. Extruded aluminium alloy heat sink with anodized finish. 304 graded stainless steel protective cover to protect UV resistant polycarbonate lenses.

LED area light (Mounting bracket code: T)

lighting
facts (Pending)CE IP67 IK08 ErP 

Compliant with the following standards:

IEC /EN 60598-2-3/A1: 2011

EN 62493:2010

IEC62471: 2008

IEC62471-2:2009

EN 55015: 2013

EN61547:2009

EN61000-3-2/A2:2009

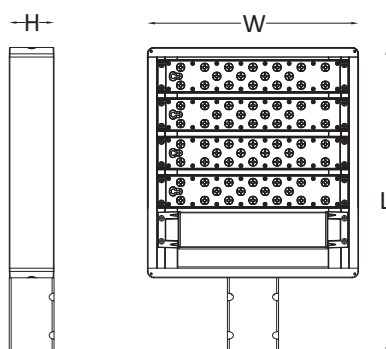
EN 61000-3-3:2013

(EU) 1194/2012:2012-12-12

(EC) 244/2009:2009-03-18

Ik08 rating, 1000 hours salt mist test reports are furnished upon request.

Dimensional Drawing



Features & Benefits

- 1) Based on the most successful product development, manufacturing and application expertise and experience.
- 2) Powered by the worldwide best LED, LED drivers, and other key components.
- 3) Meet all the major product qualifications e. g cULus, DLC, CE, CB etc.
- 4) Sufficient optics solutions at option to meet almost all the lighting standards.
- 5) Modular mechanical construction, and the most thoughtful design, make the product the most user friendly and easiest for assembly, maintenance and installation.
- 6) The most competitive in cost performance, and one of the best ownership costs. 10 years limited warranty, free from maintenance for 10 years at least, the most competitive in operating cost, soonest in return on investment (ROI) or payback.
- 7) Environmentally friendly packaging materials (EPE).

Applications

- Airport Illumination
- Company Campus Illumination
- Healthcare Facilities Illumination
- Municipal Illumination
- Petroleum & Convenience Illumination
- Restaurant & Hotel Illumination
- Retail & Grocery Illumination
- Education Facilities Illumination
- Government Facilities Illumination

LED area light (Mounting bracket code: T)

Ordering Information

Example 1: FLB-200-T-T3L-50K-BK-00

Example 2: FLC-240-T-T3L-50K-BK-00

Product ID	Power (W)	or	Product ID	Power (W)	Mounting	Optic Lens	CCT* (ANSI)	Housing Color**	Lighting Control
FLB	80 ₁		FLC ₂	80	T	T1M	30K	BK	00
	80W			80W		T2M	3045	Black	Not
	120			120		T3M	±175K	(RAL:9011)	required
	120W			120W		T3L	40K	GR	01
	160			160		T4S	3985	Grey	DALI
	160W			160W		T5U	±275K	(RAL:7004)	02
	200			200		T5V	50K	WH	1-10V
	200W			200W		T5W	5028	White	dimming
	240			240		T5S	±283K	(RAL:9010)	
	240W			240W		T5M	57K	BZ	
						T5L	5665	Bronze	
						T5D	±355K	(RAL:8017)	

Footnotes:

● CCT*:

- LEDs at 5000k CCT are always in stock largely to support prompt delivery of finished products.
- LEDs at 3000k, 4000k, 5700k CCT are in stock as well, but the quantity is small to meet small needs, and the shipment for the finished products with these LEDs cannot be made sooner than those with LEDs at 5000k CCT.
- LEDs at CCT or wavelength (unit nm) which is not in stock are available upon request, but the lead time for the finished products with these types of LEDs cannot be soon, also the unit price is higher.

● Housing Color**:

- BK (Black) housings are always in stock largely to support prompt delivery of finished products.
- GR (Grey), WH (White), BZ (Bronze) housing are available too, and the unit price of the finished product with these types of housings may be different from that with black housing, but the lead time is longer relatively.
- Other housing colors which are not mentioned can be customized, but the unit price is higher, the lead time is much longer.

● Optic Lens Options:

- | | |
|-------------------------|---|
| 1) T1M: Type I Medium | 7) T5V: 25° |
| 2) T2M: Type II Medium | 8) T5W: 40° |
| 3) T3M: Type III Medium | 9) T5S: 60° |
| 4) T3L: Type III Long | 10) T5M: 90° |
| 5) T4S: Type IV Short | 11) T5L: 120° |
| 6) T5U: 10° | 12) T5D: (frosted front cover, glare resistant) |

1, 2: DALI control is not available.

LED area light (Mounting bracket code: T)

BRIEF SPECIFICATIONS

Model No.	FLB80-T	FLB120-T	FLB160-T	FLB200-T	FLB240-T
No. of LEDs	36	54	72	90	108
Power	80W	120W	160W	200W	240W
Net Weight	5.88kg	6.87kg	7.53kg	9.25kg	10.21kg
Gross Weight	6.53kg	7.62kg	8.38kg	10.22kg	11.24kg
Dimensions (L x W x H)	360 x 330 x 70mm	420 x 330 x 70mm	480 x 330 x 70mm	600 x 330 x 70mm	660 x 330 x 70mm
Carton Dimensions (L x W x H)	370 x 425 x 160mm	430x 425 x 160mm	490 x 425 x 160mm	610 x 425 x 160mm	670 x 425 x 160mm
Input	120-277V AC or 220-240V AC 50/60Hz				
EPA	0.398sq.ft	0.421sq.ft	0.459sq.ft	0.526sq.ft	0.564sq.ft

Model No.	FLC80-T	FLC120-T	FLC160-T	FLC200-T	FLC240-T
No. of LEDs	36	54	72	90	108
Power	80W	120W	160W	200W	240W
Net Weight	5.88kg	6.87kg	7.53kg	9.25kg	10.21kg
Gross Weight	6.53kg	7.62kg	8.38kg	10.22kg	11.24kg
Dimensions (L x W x H)	360 x 330 x 70mm	420 x 330 x 70mm	480 x 330 x 70mm	600 x 330 x 70mm	660 x 330 x 70mm
Carton Dimensions (L x W x H)	370 x 425 x 160mm	430x 425 x 160mm	490 x 425 x 160mm	610 x 425 x 160mm	670 x 425 x 160mm
Input	347-480V AC 50/60Hz				
EPA	0.398sq.ft	0.421sq.ft	0.459sq.ft	0.526sq.ft	0.564sq.ft

Drive current

1. FLB*T: 700mA
2. FLC*T: 700mA

General specifications for all the above items:

Electrical:

1. Power Factor: >0.95 at full load.
2. Total Harmonic Distortion: <20% at full load.

Lifetime and working temperature:

3. Reported L70 Lifetime: >60,000 hours.
Calculated L70 Lifetime: >100,000 hours.
4. Ambient Temperature (Ta): -40 to 50 degrees celcius (-40 to 122 degrees Fahrenheit).

Typical Luminous Efficacy:

5. Typical Luminous Efficacy (FLB, FLC models): 100 lm/w (5000K CCT, Ra>70).
6. System Efficacy and power are customized, e.g. 130 lm/W.

Materials:

7. LED option: CREE or PHILIPS Lumileds.
8. LED Driver Origin: PHILIPS or MEANWELL.
9. Worldwide top brand quick connector for tool-free wiring, and terminal block for easiest wiring.
10. Extruded aluminium LED driver compartment with die cast aluminium end cap, and led light bar end caps with corrosion resistant powder coating. Extruded aluminium alloy heat sink with anodized finish. 304 graded stainless steel protective cover to protect UV resistant polycarbonate lenses.

LED wall light (Mounting bracket code: W)



lighting facts (Pending)

CE IP67 IK08 ErP 

Compliant with the following standards:

IEC /EN 60598-2-3/A1: 2011

EN 62493:2010

IEC62471: 2008

IEC62471-2:2009

EN 55015: 2013

EN61547:2009

EN61000-3-2/A2:2009

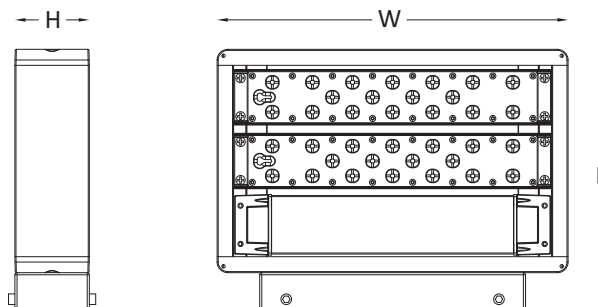
EN 61000-3-3:2013

(EU) 1194/2012:2012-12-12

(EC) 244/2009:2009-03-18

Ik08 rating, 1000 hours salt mist test reports are furnished upon request.

Dimensional Drawing



Features & Benefits

- 1) Based on the most successful product development, manufacturing and application expertise and experience.
- 2) Powered by the worldwide best LED, LED drivers, and other key components.
- 3) Meet all the major product qualifications e. g cULus, DLC, CE, CB etc.
- 4) Sufficient optics solutions at option to meet almost all lighting standards.
- 5) Modular mechanical construction, and the most thoughtful design, make the product the most user friendly and easiest for assembly, maintenance and installation.
- 6) The most competitive in cost performance, and one of the best ownership costs. 10 years limited warranty, free from maintenance for 10 years at least, the most competitive in operating cost, soonest in return on investment (ROI) or payback.
- 7) Environmentally friendly packaging materials (EPE).

Applications

- Airport Illumination
- Company Campus Illumination
- Healthcare Facilities Illumination
- Municipal Illumination
- Petroleum & Convenience Illumination
- Restaurant & Hotel Illumination
- Retail & Grocery Illumination
- Education Facilities Illumination
- Government Facilities Illumination

LED wall light (Mounting bracket code: W)

Ordering Information

Example 1: FLB-120-W-T3L-50K-BK-00

Example 2: FLC-120-W-T3L-50K-BK-00

Product ID	Power (W)	or	Product ID	Power (W)	Mounting	Optic Lens	CCT* (ANSI)	Housing Color**	Lighting Control
FLB	40 ₁	or	FLC ₃	80	W	T1M	30K	BK	00
	40W			80W		T2M	3045	Black	Not
	80 ₂			120		T3M	±175K	(RAL:9011)	required
	80W			120W		T3L	40K	GR	01
	120			160		T4S	3985	Grey	DALI
	120W			160W		T5U	±275K	(RAL:7004)	02
	160					T5V	50K	WH	1-10V
	160W					T5W	5028	White	dimming
						T5S	±283K	(RAL:9010)	
						T5M	57K	BZ	
						T5L	5665	Bronze	
						T5D	±355K	(RAL:8017)	

Footnotes:

● CCT*:

- LEDs at 5000k CCT are always in stock largely to support prompt delivery of finished products.
- LEDs at 3000k, 4000k, 5700k CCT are in stock as well, but the quantity is small to meet small needs, and the shipment for the finished products with these LEDs cannot be made sooner than those with LEDs at 5000k CCT.
- LEDs at CCT or wavelength (unit nm) which is not in stock are available upon request, but the lead time for the finished products with these types of LEDs cannot be soon, also the unit price is higher.

● Housing Color**:

- BK (Black) housings are always in stock largely to support prompt delivery of finished products.
- GR (Grey), WH (White), BZ (Bronze) housing are available too, and the unit price of the finished product with these types of housings may be different from that with black housing, but the lead time is longer relatively.
- Other housing colors which are not mentioned can be customized, but the unit price is higher, the lead time is much longer.

● Optic Lens Options:

- | | |
|-------------------------|---|
| 1) T1M: Type I Medium | 7) T5V: 25° |
| 2) T2M: Type II Medium | 8) T5W: 40° |
| 3) T3M: Type III Medium | 9) T5S: 60° |
| 4) T3L: Type III Long | 10) T5M: 90° |
| 5) T4S: Type IV Short | 11) T5L: 120° |
| 6) T5U: 10° | 12) T5D: (frosted front cover, glare resistant) |

1, 2, 3: DALI control is not available.

LED wall light (Mounting bracket code: W)

BRIEF SPECIFICATIONS

Model No.	FLB40-W	FLB80-W	FLB120-W	FLB160-W
No. of LEDs	18	36	54	72
Power	40W	80W	120W	160W
Net Weight	4.09kg	5.08kg	6.07kg	7.8kg
Gross Weight	4.74kg	5.73kg	6.82kg	8.65kg
Dimensions (L x W x H)	215 x 330 x 70mm	275 x 330 x 70mm	335 x 330 x 70mm	395 x 330 x 70mm
Carton Dimensions (L x W x H)	225 x 425 x 160mm	285 x 425 x 160mm	345 x 425 x 160mm	405 x 425 x 160mm
Input	120-277V AC or 220-240V AC 50/60Hz			
EPA	0.300sq.ft	0.323sq.ft	0.346sq.ft	0.383sq.ft

Model No.	FLC80-W	FLC120-W	FLC160-W
No. of LEDs	36	54	72
Power	80W	120W	160W
Net Weight	5.08kg	6.07kg	7.8kg
Gross Weight	5.73kg	6.82kg	8.65kg
Dimensions (L x W x H)	275 x 330 x 70mm	335 x 330 x 70mm	395 x 330 x 70mm
Carton Dimensions (L x W x H)	285 x 425 x 160mm	345 x 425 x 160mm	405 x 425 x 160mm
Input	347-480V AC 50/60Hz		
EPA	0.323sq.ft	0.346sq.ft	0.383sq.ft

Drive current

1. FLB*W: 700mA
2. FLC*W: 700mA

General specifications for all the above items:

Electrical:

1. Power Factor: >0.95 at full load.
2. Total Harmonic Distortion: <20% at full load.

Lifetime and working temperature:

3. Reported L70 Lifetime: >60,000 hours .
Calculated L70 Lifetime: >100,000 hours.
4. Ambient Temperature (Ta): -40 to 50 degrees celcius (-40 to 122 degrees Fahrenheit).

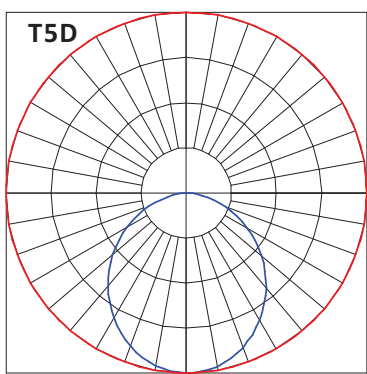
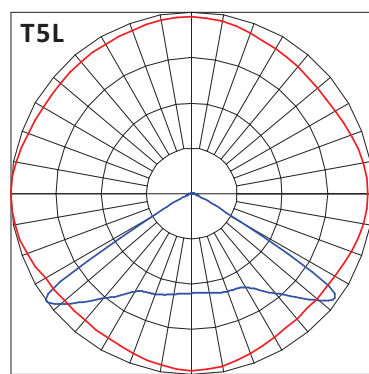
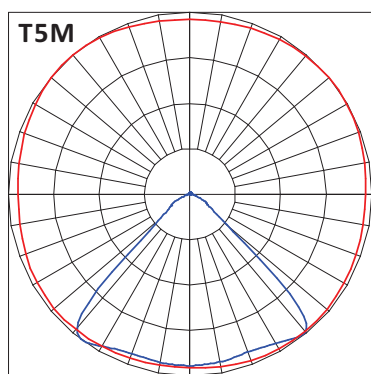
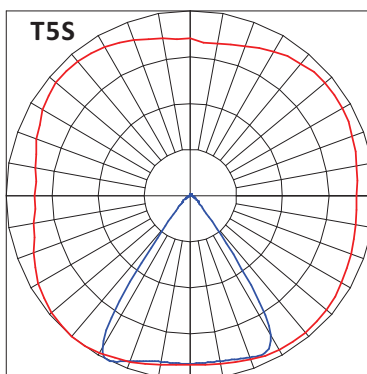
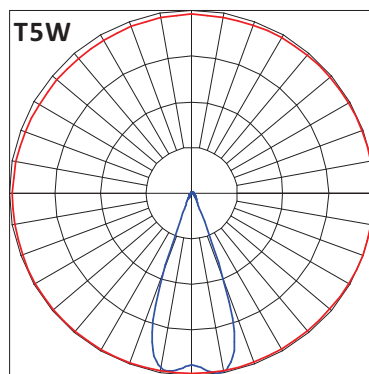
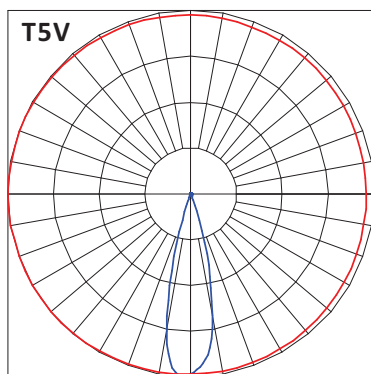
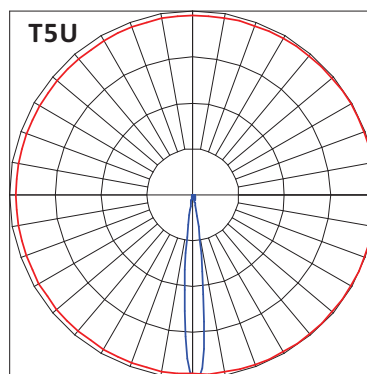
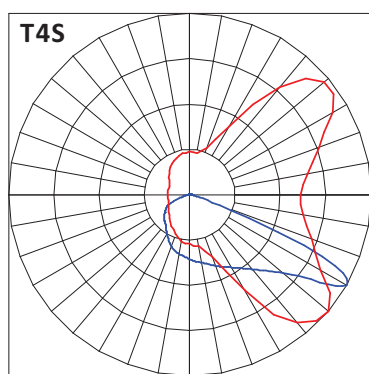
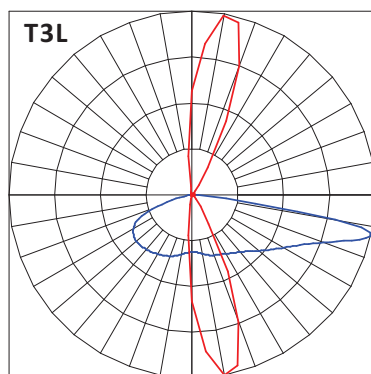
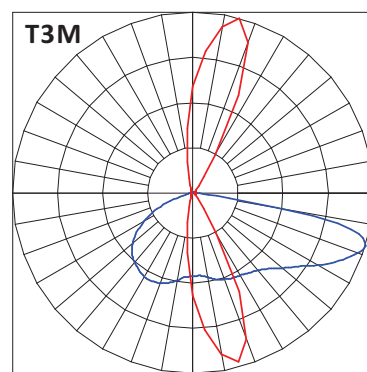
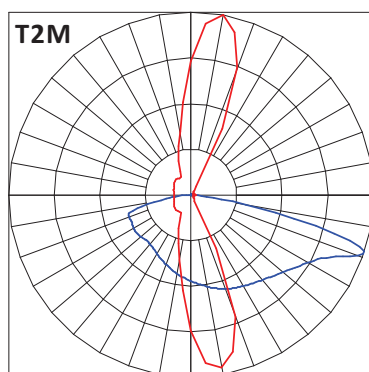
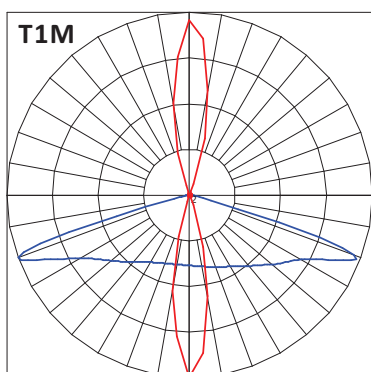
Typical Luminous Efficacy:

5. Typical Luminous Efficacy (FLB, FLC models): 100 lm/w (5000K CCT, Ra>70).
6. System Efficacy and power are customized, e.g. 130 lm/W.

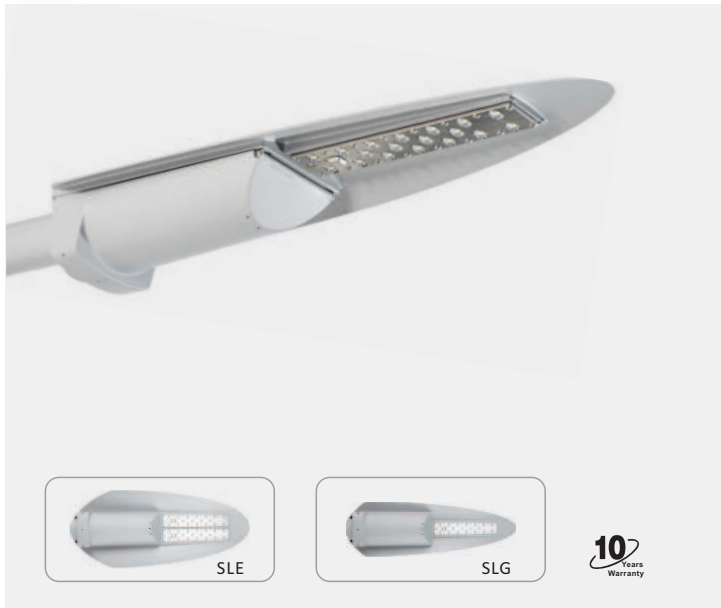
Materials:

7. LED option: CREE or PHILIPS Lumileds.
8. LED Driver Origin: PHILIPS or MEANWELL.
9. Worldwide top brand quick connector for tool-free wiring, and terminal block for easiest wiring.
10. Extruded aluminium LED driver compartment with die cast aluminium end cap, and led light bar end caps with corrosion resistant powder coating. Extruded aluminium alloy heat sink with anodized finish. 304 graded stainless steel protective cover to protect UV resistant polycarbonate lenses.

Photometrics



LED Street Light



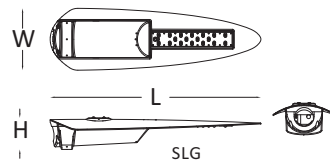
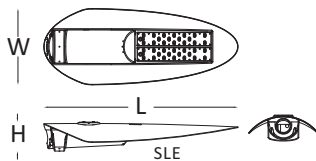
CE CB IP65 IK08 ErP 

Compliant with the following standards:

IEC /EN 60598-1: 2008
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EN61547:2009
EN61000-3-2/A2:2009
EN 61000-3-3:2013
(EU) 1194/2012:2012-12-12
(EC) 244/2009:2009-03-18

1000 hours salt mist test reports are furnished upon request.

Dimensional Drawing



Features & Benefits

- 1) Revolutionary mechanical and thermal solution, integrating part of the die cast aluminium housing with the heat sink. The heat conductivity and radiation perform the best for much longer LED L70 lifespan. No dust, leaves or other pollution substances are accumulated, zero concern and possibility to block the heat radiation.
- 2) Truly classic cobrahead style LED streetlight, which makes it possible to remain the classic urban street landscape after the HID solution is replaced.
- 3) Powered by the worldwide best LED, LED drivers, and other key components.
- 4) Compliant with cULus, DLC, CE (lvd, emc, rohs, Erp directives), and CB standards.
- 5) Low profile design, compliant with KISS principle for product design, less uncertainty because its concise mechanical structure, ensure it most reliable performance.
- 6) Human centered design, and extremely easy for installation and maintenance.
- 7) The most competitive in cost performance, and one of the best ownership costs. 10 years limited warranty, free from maintenance for 10 years at least, the most competitive in operating cost, soonest in return on investment (ROI) or payback.
- 8) Class II rated led lighting luminaire.
- 9) Environmentally friendly packaging materials (EPE).

Applications

Municipal and rural street, roadway, or area lighting.

LED Street Light

Ordering Information

Example 1: SLG-25-T2M-50K-GR-00

Example 2: SLE-90-T2M-50K-GR-00

Product ID	Power (W)	or	Product ID	Power (W)	or	Product ID	Power (W)	Optic Lens	CCT* (ANSI)	Housing Color**	Lighting Control
SLG ₁	25		SLE ₂	40		SLF ₃	20	T2M	30K	GR	00
	30W			45W			20W	T5U	3045	Grey	Not
	40			60			30	T5V	±175K	(RAL:7004)	required
	45W			65W			30W	T5W	40K	BK	01
	45			80			40	T5S	3985	Black	Photocell
	40W			80W			40W	T5M	±275K	(RAL:9011)	
	60			90				T5L	50K	WH	
	65W			100W				T5D	5028	White	
									±283K	(RAL:9010)	
									57K	BZ	
									5665	Bronze	
									±355K	(RAL:8017)	

Footnotes

● CCT*:

1. LEDs at 5000k CCT are always in stock largely to support prompt delivery of finished products.
2. LEDs at 3000k, 4000k, 5700k CCT are in stock as well, but the quantity is small to meet small needs, and the shipment for the finished products with these LEDs cannot be made sooner than those with LEDs at 5000k CCT.
3. LEDs at CCT or wavelength (unit nm) which is not in stock are available upon request, but the lead time for the finished products with these types of LEDs cannot be soon, also the unit price is higher.

● Housing Color**:

1. GR (Grey) housings are always in stock largely to support prompt delivery of finished products.
2. BK (Black), WH (White), BZ (Bronze) housing are available too, and the unit price of the finished product with these types of housings may be different from that with grey housing, but the lead time is longer relatively.
3. Other housing colors which are not mentioned can be customized, but the unit price is higher, the lead time is much longer.

● Optic Lens Options:

- 1) T2M: Type II Medium
- 2) T5U: 10°
- 3) T5V: 25°
- 4) T5W: 40°
- 5) T5S: 60°
- 6) T5M: 90°
- 7) T5L: 120°
- 8) T5D: Glare resistant diffuser.

1, 2: 1-10V dimming interface (wire) are available based on customization request.

3: Photocell is available based on customization request.

LED Street Light

BRIEF SPECIFICATIONS

Model No.	SLG25	SLG40	SLG60	SLG45*	SLF20	SLF30	SLF40	SLE40	SLE60	SLE90	SLE80*
No. of LEDs	18				18				36		
System Power	30W	45W	65W	40W	20W	30W	40W	45W	65W	100W	80W
Efficacy*	105 lm/W	100 lm/W	90 lm/W	95 lm/W	120lm/W	115lm/W	110lm/W	110 lm/W	105 lm/W	95 lm/W	100 lm/W
Input	90-305V			120-277V	9-18V DC or 18-32V DC			90-305V			120-277V
Driver	Meanwell			Philips	Philips			Meanwell			Philips
Net Weight	3.2Kg				3.2Kg				4.6Kg		
Gross Weight	4.2kg				4.2kg				5.9kg		
Dimensions (L x W x H)	714 x 210 x 107mm				714 x 210 x 107mm				718 x 283 x 107mm		
Carton Dimensions (L x W x H)	810 x 295 x 160mm				810 x 295 x 160mm				810 x 365 x 160mm		
EPA (1 Fixture at 0° mount)	0.822sq.ft				0.822sq.ft				0.827sq.ft		

Drive current: SLF20: 350mA, SLF30: 500mA, SLF40: 700mA

General specifications for all the above models.

Electrical:

1. Power Factor: >0.95 at full load.
2. Total Harmonic Distortion: <20% at full load.

Lifetime and working temperature:

3. Reported L70 Lifetime: >60,000 hours .
Calculated L70 Lifetime: >100,000 hours.
4. Ambient Temperature (Ta): -40 to 50 degrees celcius (-40 to 122 degrees Fahrenheit).

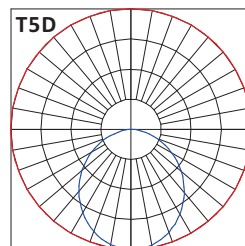
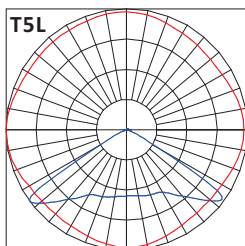
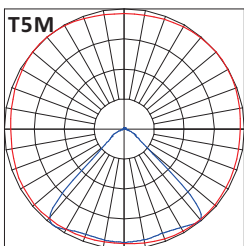
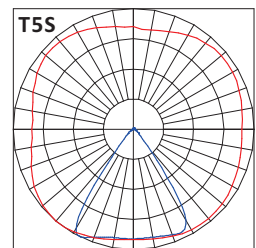
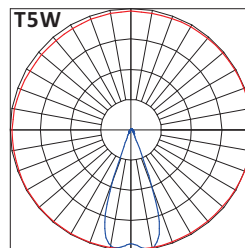
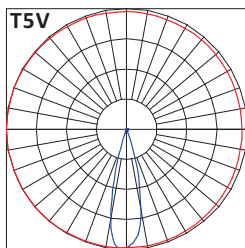
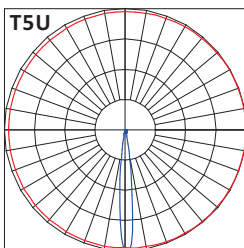
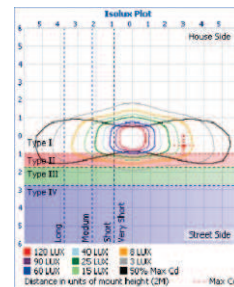
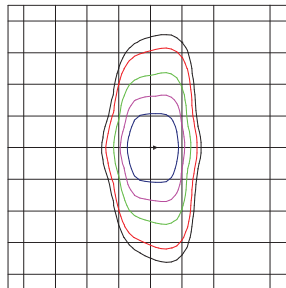
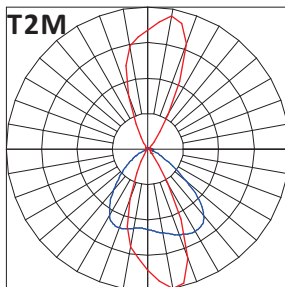
Typical Luminous Efficacy:

5. Typical Luminous Efficacy (SLE and SLG models): 5000K CCT, Ra>70.
6. System Efficacy and power are customized, e.g. 130 lm/W.

Materials:

7. LED option: CREE or PHILIPS Lumileds.
8. LED Driver Origin: PHILIPS or MEANWELL.
9. 45° and 80° are powered by 120-277V AC 50/60Hz Philips branded LED driver.
10. Suitable for 42-60mm(1.653"-2.375") outer diameter horizontal tennon mounting.
11. Optional NEMA photocell with its receptacle, or shorting cap with its receptacle.
12. Optional bird spike to avoid bird waste pollution.
13. Worldwide top brand quick connector for tool-free wiring, and terminal block for easiest wiring, two axis T-shaped bubble level for ease of leveling and tilting angle setup as well.
14. Extruded aluminium alloy heat sink with anodized finish. 304 graded stainless steel protective cover to protect UV resistant polycarbonate lenses.

Photometrics



LED Street Light

Simulation Calculation Summary Reference



Pole Arrangement: Single Sided

MH=Mounting Height (unit: m)

Area = Pole Spacing x Road Width (unit: m)

Lav* (cd/sq.m.) and Eav* (lux) are the values based on Dialux simulation calculations for one typical section of street.

Model No.		SLG25		SLG40		SLG60		SLE40		SLE60		SLE90	
T2M lens		Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx
MH	Area	cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2	
6	35 x 7	0.60	8.54	0.91	13	1.23	18	0.96	14	1.44	21	2.05	29
8	35 x 7	0.39	5.20	0.60	7.92	0.81	11	0.63	8	0.95	12	1.35	18
10	40 x 10.5	0.31	3.88	0.47	5.90	0.63	8	0.49	6	0.74	9	1.06	13



Pole Arrangement: Opposite (double rows opposing)

MH=Mounting Height (unit: m)

Area = Pole Spacing x Road Width (unit: m)

Lav* (cd/sq.m.) and Eav* (lux) are the values based on Dialux simulation calculations for one typical section of street.

Model No.		SLG25		SLG40		SLG60		SLE40		SLE60		SLE90	
T2M lens		Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx	Lav*	Eav*/lx
MH	Area	cd/m2		cd/m2		cd/m2		cd/m2		cd/m2		cd/m2	
6	35 x 7	0.59	8.54	0.90	13	1.21	18	0.95	14	1.42	21	2.03	29
8	35 x 7	0.41	5.88	0.63	8.95	0.85	12	0.66	9.40	0.99	14	1.42	20
10	40 x 10.5	0.35	4.93	0.53	7.50	0.71	10	0.56	7.88	0.84	12	1.19	17

Super High Output Floodlight / Area Light (Horizontal tenon mount/Pole-top mount)



lighting facts (Pending)

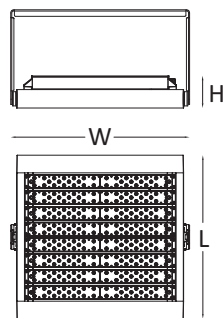
CE CB IP67 IK08 ErP 

compliant with the following standards:

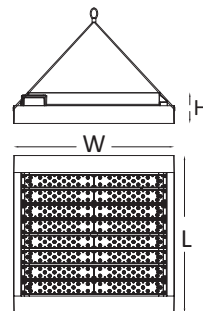
IEC /EN 60598-1: 2008
IEC /EN 60598-2-3/A1: 2011
EN 62493:2010
IEC62471: 2008
IEC62471-2:2009
EN 55015: 2013
EN61547:2009
EN61000-3-2/A2:2009
EN 61000-3-3:2013
(EU) 1194/2012:2012-12-12
(EC) 244/2009:2009-03-18

Ik08 rating, 1000 hours salt mist test reports are furnished upon request.

Dimensional Drawing



Mounting Type U



Mounting Type C

Features & Benefits

- 1) Patented mechanical design and thermal management.
- 2) Compact, low profile design. Smaller in size and weight.
- 3) Standard 700mA drive current only, 100lm/W system efficacy.
- 4) Incomparable wattage (450W, 600W, 750W and 900W), lumen output and optic choices
- 5) Powered by the worldwide best LED, LED drivers, and other key components.
- 6) Compliant with almost all the major product qualifications e. g cULus, DLC, CE, CB.
- 7) The most competitive in cost performance, and one of the best ownership costs. 10 years limited warranty, free from maintenance for 10 years at least, the most competitive in operating cost, soonest in return on investment (ROI) or payback.
- 9) Environmentally friendly packaging materials (EPE).

Applications

Commercial and industrial high bay/super bay, airport hangars, and gymnasiums etc.

Super High Output Floodlight / Bay Light (Mounting bracket Code: U & C)

Ordering Information

Example 1: FLD-600-U-T5M-50K-BK-00

Example 2: FLG-450-C-T5L-50K-BK-00

Product ID	Power (W)	or	Product ID	Power (W)	Mounting	Optic Lens	CCT* (ANSI)	Housing Color**	Lighting Control
FLD ₁	450	or	FLG ₂	450	U	T1M	30K	BK	00
	450W			450W	C	T2M	3045	Black (RAL:9011)	Not required
	600			600		T3M	±175K		
	600W			600W		T3L	40K	GR	01
	750			750		T4S	3985	Grey (RAL:7004)	DALI
	750W			750W		T5U	±275K		02
	900			900		T5V	50K	WH	1-10V dimming
	900W			900W		T5W	5028	White (RAL:9010)	
						T5S	±283K		
						T5M	57K	BZ	
						T5L	5665	Bronze	
						T5D	±355K	(RAL:8017)	

Footnotes:

● CCT*:

1. LEDs at 5000k CCT are always in stock largely to support prompt delivery of finished products.
2. LEDs at 3000k, 4000k, 5700k CCT are in stock as well, but the quantity is small to meet small needs, and the shipment for the finished products with these LEDs cannot be made sooner than those with LEDs at 5000k CCT.
3. LEDs at CCT or wavelength (unit nm) which is not in stock are available upon request, but the lead time for the finished products with these types of LEDs cannot be soon, also the unit price is higher.

● Housing Color**:

1. BK (Black) housings are always in stock largely to support prompt delivery of finished products.
2. GR (Grey), WH (White), BZ (Bronze) housing are available too, and the unit price of the finished product with these types of housings may be different from that with black housing, but the lead time is longer relatively.
3. Other housing colors which are not mentioned can be customized, but the unit price is higher, the lead time is much longer.

● Optic Lens Options:

T1M: Type I Medium
T5U: 10°
T5V: 25°
T5W: 40°
T5S: 60°
T5M: 90°
T5L: 120°
T5D: 120° (frosted front cover, glare resistant)
T2M, T3M, T3L, T4S: Under Development

- 1, 2: Photocell and motion sensing are available based on customization request.
2: DALI control is not available.

Super High Output Floodlight / Area Light (Horizontal tenon mount/Pole-top mount)

BRIEF SPECIFICATIONS

Model No.	FLD450-U	FLG450-U	FLD600-U	FLG600-U	FLD750-U	FLG750-U	FLD900-U	FLG900-U
No. of LEDs	216		288		360		432	
Power	450W		600W		750W		900W	
Net Weight	19.63kg		23.21kg		27.45kg		30.72kg	
Gross Weight	21.68kg		25.76kg		30.07kg		33.72kg	
Dimensions (L x W x H)	502 x 680 x 123mm		622 x 680 x 123mm		742 x 680 x 123mm		862 x 680 x 123mm	
Carton Dimensions (L x W x H)	605 x 740 x 170mm		725 x 740 x 170mm		845 x 740 x 170mm		965 x 740 x 170mm	
Input	120-277V AC 220-240V AC	347-480V AC	120-277V AC 220-240V AC	347-480V AC	120-277V AC 220-240V AC	347-480V AC	120-277V AC 220-240V AC	347-480V AC

Model No.	FLD450-C	FLG450-C	FLD600-C	FLG600-C	FLD750-C	FLG750-C	FLD900-C	FLG900-C
No. of LEDs	216		288		360		432	
Power	450W		600W		750W		900W	
Net Weight	14.75kg		18.43kg		22.51kg		25.99kg	
Gross Weight	16.80kg		20.98kg		25.13kg		28.99kg	
Dimensions (L x W x H)	502 x 634.5 x 123mm		622 x 634.5 x 123mm		742 x 634.5 x 123mm		862 x 634.5 x 123mm	
Carton Dimensions (L x W x H)	605 x 740 x 170mm		725 x 740 x 170mm		845 x 740 x 170mm		965 x 740 x 170mm	
Input	120-277V AC 220-240V AC	347-480V AC	120-277V AC 220-240V AC	347-480V AC	120-277V AC 220-240V AC	347-480V AC	120-277V AC 220-240V AC	347-480V AC

Drive current

1. FLD, FLG: 700mA

General specifications for all the above items:

Electrical:

1. Power Factor: >0.95 at full load.
2. Total Harmonic Distortion: <20% at full load.

Lifetime and working temperature:

3. Reported L70 Lifetime: >60,000 hours .
- Calculated L70 Lifetime: >100,000 hours.
4. Ambient Temperature (Ta): -40 to 50 degrees celcius (-40 to 122 degrees Fahrenheit).

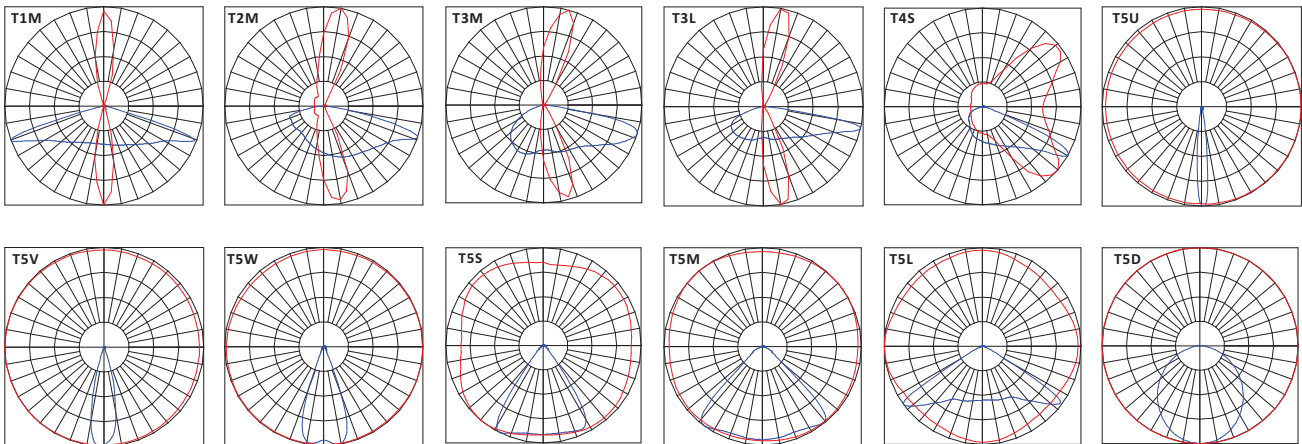
Typical Luminous Efficacy:

5. Typical Luminous Efficacy (FLD, FLG models): 100 lm/w (5000K CCT, Ra>70).
6. System Efficacy and power are customized, e.g. 130 lm/W.

Materials:

7. LED option: CREE or PHILIPS Lumileds.
8. LED Driver Origin: PHILIPS or MEANWELL.
9. Worldwide top brand quick connector for tool-free wiring, and terminal block for easiest wiring.
10. Extruded aluminium LED driver compartment with die cast aluminium end cap, and led light bar end caps with corrosion resistant powder coating. Extruded aluminium alloy heat sink with anodized finish. 304 graded stainless steel protective cover to protect UV resistant polycarbonate lenses.

Photometrics



Super High Output Floodlight / Bay Light (Mounting bracket Code: U & C)

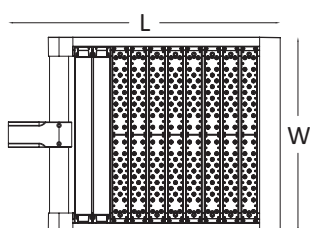
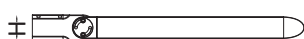


CE CB IP67 IK08 ErP 

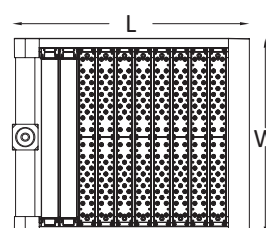
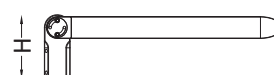
compliant with the following standards:

IEC /EN 60598-1: 2008
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EN 62493:2010
IEC62471: 2008
IEC62471-2:2009
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EN61547:2009
EN61000-3-2/A2:2009
EN 61000-3-3:2013
(EU) 1194/2012:2012-12-12
(EC) 244/2009:2009-03-18

Dimensional Drawing



Horizontal tenon mount



Pole-top mount

Features & Benefits

- 1) Patented mechanical design and thermal management.
- 2) Compact, low profile design. Smaller in size and weight.
- 3) Standard 700mA drive current only, 100lm/W system efficacy.
- 4) Incomparable wattage (450W, 600W, 750W and 900W), lumen output and optic choices.
- 5) Powered by the worldwide best LED, LED drivers, and other key components.
- 6) Meet all the major product qualifications e. g cULus, DLC, CE, CB.
- 7) The most competitive in cost performance, and one of the best ownership costs. 10 years limited warranty, free from maintenance for 10 years at least, the most competitive in operating cost, soonest in return on investment (ROI) or payback.
- 8) Environmentally friendly packaging materials (EPE).

Applications

- | | |
|---------------------------------------|---|
| 1. Airport Illumination | 5. Parking Structure Illumination |
| 2. Auto Dealership Illumination | 6. Petroleum & Convenience Illumination |
| 3. Government Facilities Illumination | 7. Recreation & Public Venue Illumination |
| 4. Municipal Illumination | 8. Other high-lumen applications |

Super High Output Floodlight / Area Light (Horizontal tenon mount/Pole-top mount)

Ordering Information

Example: FLE-600-T5L-50K-BK-00

Example: FLF-450-T5L-50K-BK-00

Product ID	Power (W)	or	Product ID	Power (W)	Optic Lens	CCT* (ANSI)	Housing Color**	Lighting Control
FLE ₁	450	or	FLF ₂	450	T1M	30K	BK	00
	450W			450W	T2M	3045	Black (RAL:9011)	Not required
	600			600	T3M	±175K		
	600W			600W	T3L	40K	GR	01
	750			750	T4S	3985	Grey (RAL:7004)	DALI
	750W			750W	T5U	±275K		02
	900			900	T5V	50K	WH	1-10V dimming
	900W			900W	T5W	5028	White (RAL:9010)	
					T5S	±283K		
					T5M	57K	BZ	
					T5L	5665	Bronze (RAL:8017)	
					T5D	±355K		

Footnotes:

● **CCT*:**

- LEDs at 5000k CCT are always in stock largely to support prompt delivery of finished products.
- LEDs at 3000k, 4000k, 5700k CCT are in stock as well, but the quantity is small to meet small needs, and the shipment for the finished products with these LEDs cannot be made sooner than those with LEDs at 5000k CCT.
- LEDs at CCT or wavelength (unit nm) which is not in stock are available upon request, but the lead time for the finished products with these types of LEDs cannot be soon, also the unit price is higher.

● **Housing Color**:**

- BK (Black) housings are always in stock largely to support prompt delivery of finished products.
- GR (Grey), WH (White), BZ (Bronze) housing are available too, and the unit price of the finished product with these types of housings may be different from that with black housing, but the lead time is longer relatively.

● **Lighting Luminaire System Efficacy and power are customized, e.g. 130 lm/W efficacy.**

● **Optic Lens Options:**

- T1M: Type I Medium
- T5U: 10°
- T5V: 25°
- T5W: 40°
- T5S: 60°
- T5M: 90°
- T5L: 120°
- T5D: 120° (frosted front cover, glare resistant)
- T2M, T3M, T3L, T4S: Under Development

- 1, 2: Photocell and motion sensing are available based on customization request.
2: DALI control is not available.

Super High Output Floodlight / Bay Light (Mounting bracket Code: U & C)

BRIEF SPECIFICATIONS

Model No.	FLE450	FLF450	FLE600	FLF600	FLE750	FLF750	FLE900	FLF900
No. of LEDs	216		288		360		432	
Power	450W		600W		750W		900W	
Net Weight	19.63kg		23.21kg		27.45kg		30.72kg	
Gross Weight	20.63kg		24.71kg		29.02kg		32.67kg	
Dimensions (L x W x H)	765 x 635 x 83mm		885 x 635 x 83mm		1065 x 635 x 83mm		1185 x 635 x 83mm	
Carton Dimensions (L x W x H)	843 x 740 x 170mm		963 x 740 x 170mm		1143 x 740 x 170mm		1263 x 740 x 170mm	
EPA	0.778sq.ft		0.846sq.ft		0.959sq.ft		1.034sq.ft	
Input	120-277V AC 220-240V AC	347-480V AC	120-277V AC 220-240V AC	347-480V AC	120-277V AC 220-240V AC	347-480V AC	120-277V AC 220-240V AC	347-480V AC

Drive current

1. FLE, FLF: 700mA

General specifications for all the above items:

Electrical:

1. Power Factor: >0.95 at full load.
2. Total Harmonic Distortion: <20% at full load.

Lifetime and working temperature:

3. Reported L70 Lifetime: >60,000 hours.
Calculated L70 Lifetime: >100,000 hours.
4. Ambient Temperature (Ta): -40 to 50 degrees celcius (-40 to 122 degrees Fahrenheit).

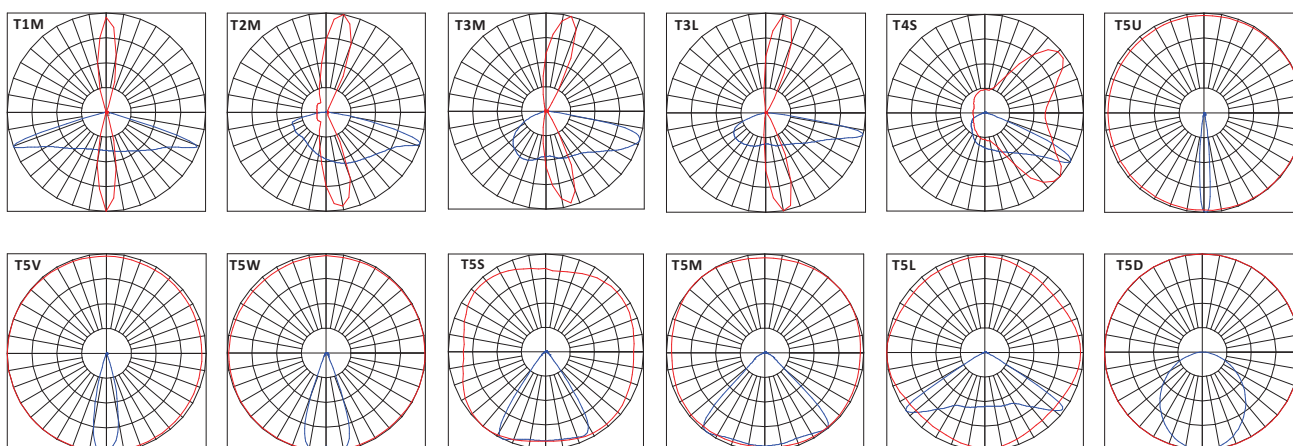
Typical Luminous Efficacy:

5. Typical Luminous Efficacy (FLE, FLF models): 100 lm/w (5000K CCT, Ra>70).
6. System Efficacy and power are customized, e.g. 130 lm/W.

Materials:

7. LED option: CREE or PHILIPS Lumileds.
8. LED Driver Origin: PHILIPS or MEANWELL.
9. Worldwide top brand quick connector for tool-free wiring, and terminal block for easiest wiring.
10. Extruded aluminium LED driver compartment with die cast aluminium end cap, and led light bar end caps with corrosion resistant powder coating. Extruded aluminium alloy heat sink with anodized finish. 304 graded stainless steel protective cover to protect UV resistant polycarbonate lenses.
11. Suitable for 60mm(2.375") outer diameter pole-arm mount

Photometrics



Linear LED Bay Light



compliant with the following standards:

IEC /EN 60598-1: 2008

IEC /EN 60598-2-3/A1: 2011

EN 62493:2010

IEC62471: 2008

IEC62471-2:2009

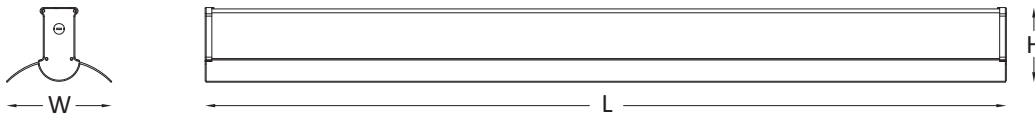
EN 55015: 2013

EN61547:2009

EN61000-3-2/A2:2009

EN 61000-3-3:2013

Dimensional Drawing



Features & Benefits

- 1) Top quality LEDs and built-in class II UL listed LED driver.
- 2) Aluminium PCB with LEDs mounted are attached to the extruded aluminium housing functioning as a heatsink, which ensures the best heat conductivity and radiation, as a result, the unique mechanical and thermal solutions enable the whole system to be free of maintenance for 5 years at least. Accordingly the operating cost is almost zero because of no maintenance in the first 5 years. The housing is not sealed, but with a slot for led driver heat radiation.
- 3) Super bright with higher lumen output than that from conventional LED T8 tube lights, and no concern about thermal management, lumen maintenance.
- 4) Multiple units Linkble.
- 5) Environmentally friendly packaging materials (EPE).

Applications

Commercial and industrial low bay lighting

Linear LED Bay Light

Ordering Information

Example: BLA-180-T5D-50K-WH-00

Product ID	Power (W)	Optic Lens	CCT* (ANSI)	Housing Color**	Lighting Control
BLA ₁	120	T5D	30K	WH White (RAL:9010)	00 Not required
	120W		3045 ±175K		
	180	40K 3985 ±275K			
	180W				
	240				50K 5028 ±283K
	240W				
		57K 5665 ±355K			

Footnotes:

● CCT*:

1. LEDs at 5000k CCT are always in stock largely to support prompt delivery of finished products.
2. LEDs at 3000k, 4000k, 5700k CCT are in stock as well, but the quantity is small to meet small needs, and the shipment for the finished products with these LEDs cannot be made sooner than those with LEDs at 5000k CCT.
3. LEDs at CCT or wavelength (unit nm) which is not in stock are available upon request, but the lead time for the finished products with these types of LEDs cannot be soon, also the unit price is higher.

● Housing Color**:

1. WH (White) housings are always in stock largely to support prompt delivery of finished products.
2. Other housing colors which are not mentioned can be customized, but the unit price is higher, the lead time is much longer.

● Optic Lens Options:

T5D: 120 DEG frosted front cover (diffuser).

- 1: Photocell, motion sensing and 1-10V dimming interface (wire) are available based on customization request.

Linear LED Bay Light

BRIEF SPECIFICATIONS

Model No.	No. of LEDs	System Power	Net Weight	Gross Weight	Dimensions (L x W x H)	Carton Dimensions (L x W x H)
BLA120	160	120W	4.83kg	6.12kg	1234.5 x 158 x 153.5mm	1308 x 225 x 200mm
BLA180	240	180W	4.88kg	6.17kg		
BLA240	320	240W	4.99kg	6.28kg		

General specifications for all the above items:

Electrical:

1. 90-305V AC 50/60Hz Input.
2. Power Factor: >0.95 at full load.
3. Total Harmonic Distortion: <20% at full load.

Lifetime and working temperature:

4. L70 Lifespan: >50,000 hours .

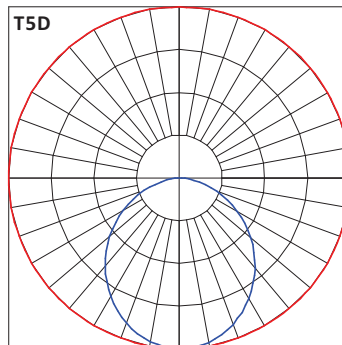
Typical Luminous Efficacy:

5. Typical Luminous Efficacy (BLA models): 100 lm/w (5000K CCT, Ra>80).
6. System Efficacy and power are customized, e.g. 130 lm/W.

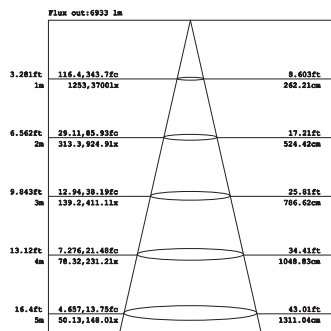
Materials:

7. LED option: CREE or PHILIPS Lumileds.
8. LED Driver Origin: MEANWELL.
9. Worldwide top brand quick connector for tool-free wiring, and terminal block for easiest wiring.

Photometrics

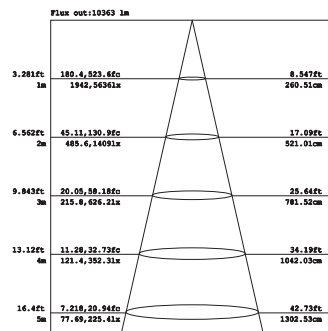


BLA120



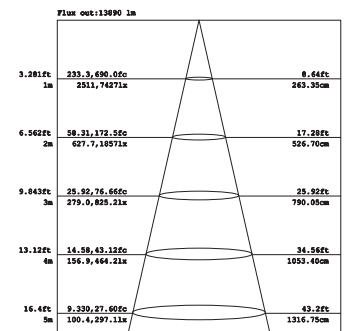
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

BLA180



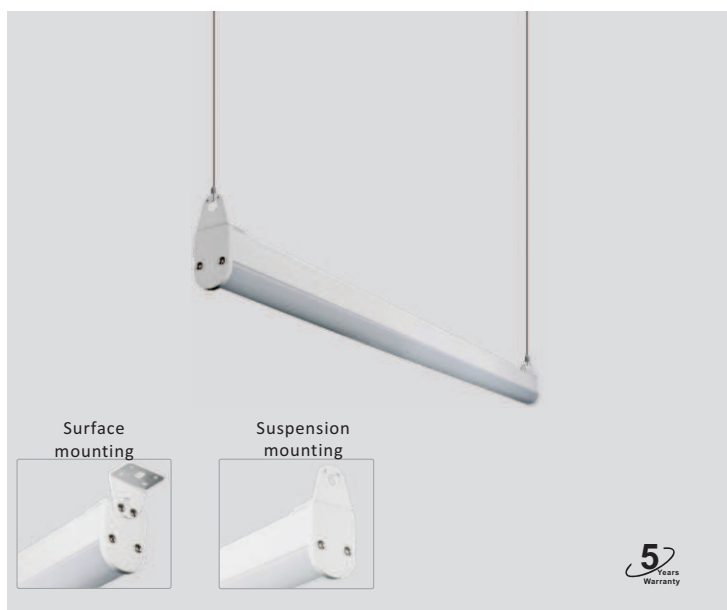
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

BLA240



Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

Linear LED Bay Light



compliant with the following standards:

IEC /EN 60598-1: 2008

IEC /EN 60598-2-3/A1: 2011

EN 62493:2010

IEC62471: 2008

IEC62471-2:2009

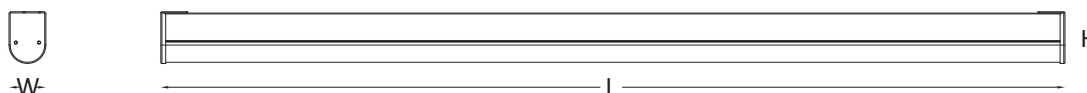
EN 55015: 2013

EN61547:2009

EN61000-3-2/A2:2009

EN 61000-3-3:2013

Dimensional Drawing



Features & Benefits

- 1) Top quality LEDs and built-in class II UL listed LED driver.
- 2) Aluminium PCB with LEDs mounted are attached to the extruded aluminium housing functioning as a heatsink, which ensures the best heat conductivity and radiation, as a result, the unique mechanical and thermal solutions enable the whole system to be free of maintenance for 5 years at least. Accordingly the operating cost is almost zero because of no maintenance in the first 5 years. The housing is not sealed, but with a slot for led driver heat radiation.
- 3) Super bright with higher lumen output than that from conventional LED T8 tube lights, and no concern about thermal management, lumen maintenance.
- 4) Multiple units Linkble.
- 5) Environmentally friendly packaging materials (EPE).

Applications

Commercial and industrial lighting

Linear LED Bay Light

Ordering Information

Example: BLB-40-T5D-50K-WH-00

Product ID	Power (W)	Optic Lens	CCT* (ANSI)	Housing Color**	Lighting Control
BLB ₁	40	T5D	30K	WH White (RAL:9010)	00 Not required
	40W		3045 ±175K		
	60		40K		
	60W		3985 ±275K		
	90		50K		
	90W		5028 ±283K		
			57K		
			5665 ±355K		

Footnotes

● CCT*:

1. LEDs at 5000k CCT are always in stock largely to support prompt delivery of finished products.
2. LEDs at 3000k, 4000k, CCT are in stock as well, but the quantity is small to meet small needs, and the shipment for the finished products with these LEDs cannot be made sooner than those with LEDs at 5000k CCT.
3. LEDs at CCT or wavelength (unit nm) which is not in stock are available upon request, but the lead time for the finished products with these types of LEDs cannot be soon, also the unit price is higher.

● Housing Color**:

1. WH (White) housings are always in stock largely to support prompt delivery of finished products.
2. Other housing colors which are not mentioned can be customized, but the unit price is higher, the lead time is much longer.

● Optic Lens Options:

T5D: 120 DEG frosted front cover (diffuser).

- 1: Photocell, motion sensing and 1-10V dimming interface (wire) are available based on customization request.

Linear LED Bay Light

BRIEF SPECIFICATIONS

Model No.	No. of LEDs	System Power	Net Weight	Gross Weight	Dimensions (L x W x H)	Carton Dimensions (L x W x H)
BLB40	48	40W	1.85kg	2.15kg	1203 x 49 x 69mm	1206 x 50 x 70mm
BLB60	72	60W	1.85kg	2.15kg		
BLB90	112	90W	2.34kg	2.64kg	1203 x 49 x 95mm	1206 x 50 x 97mm

General specifications for all the above items:

Electrical:

1. 90-305V AC 50/60Hz Input.
2. Power Factor: >0.95 at full load.
3. Total Harmonic Distortion: <20% at full load.

Lifetime and working temperature:

4. L70 Lifespan: >50,000 hours .

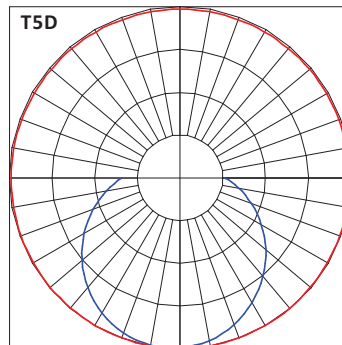
Typical Luminous Efficacy:

5. Typical Luminous Efficacy (BLB models): 100 lm/w (5000K CCT, Ra>80).
6. System Efficacy and power are customized, e.g. 130 lm/W.

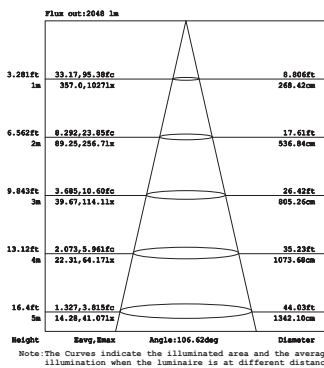
Materials:

7. LED option: CREE or PHILIPS Lumileds.
8. LED Driver Origin: MEANWELL.
9. Worldwide top brand quick connector for tool-free wiring, and terminal block for easiest wiring.

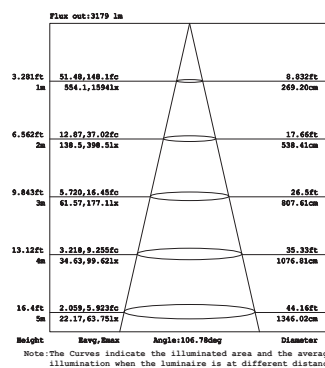
Photometrics



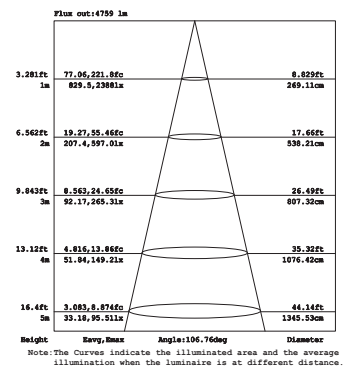
BLB40



BLB60



BLB90



Linear LED Bay Light



compliant with the following standards:

IEC /EN 60598-1: 2008

IEC /EN 60598-2-3/A1: 2011

EN 62493:2010

IEC62471: 2008

IEC62471-2:2009

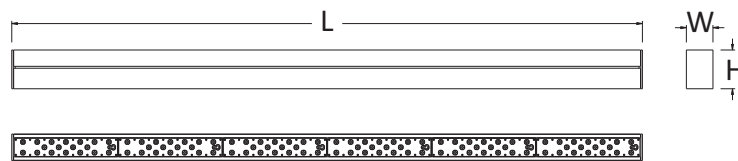
EN 55015: 2013

EN61547:2009

EN61000-3-2/A2:2009

EN 61000-3-3:2013

Dimensional Drawing



Features & Benefits

- 1) Compact, low-profile and lightweight mechanical construction design.
- 2) Ideal direct replacement for HID and fluorescent high/low bay lights, saving energy and re-lamp maintenance costs significantly.
- 3) Significant flexibility and versatility for a variety of application areas.
- 4) Ideal, energy-efficient and low-maintenance solution that can be customized for practically any area.
- 5) Environmentally friendly packaging materials (EPE).

Applications

Interior high-bay low-bay, auto dealership, education, municipal, retail and grocery, industrial and warehouses.

Linear LED Bay Light

Ordering Information

Example: BLC-120-T5D-50K-WH-00

Product ID	Power (W)	Optic Lens	CCT* (ANSI)	Housing Color**	Lighting Control
BLC	80	T1M	30K	WH White (RAL:9010)	00 Not required
	80W	T5U	3045		
	120	T5V	±175K		
	120W	T5W	40K		01 DALI
	160	T5S	3985		
		T5M	±275K		02 1-10V dimming
		T5L	50K		
	200	T5D	5028		
	200W		±283K		
	240		57K		
	240W		5665		
			±355K		

Footnotes

● CCT*:

- LEDs at 5000k CCT are always in stock largely to support prompt delivery of finished products.
- LEDs at 3000k, 4000k, 5700k CCT are in stock as well, but the quantity is small to meet small needs, and the shipment for the finished products with these LEDs cannot be made sooner than those with LEDs at 5000k CCT.
- LEDs at CCT or wavelength (unit nm) which is not in stock are available upon request, but the lead time for the finished products with these types of LEDs cannot be soon, also the unit price is higher.

● Housing Color**:

- WH (White) housings are always in stock largely to support prompt delivery of finished products.
- Other housing colors which are not mentioned can be customized, but the unit price is higher, the lead time is much longer.

● Optic Lens Options:

- 1) T1M: Type I Medium
- 2) T5U: 10°
- 3) T5V: 25°
- 4) T5W: 40°
- 5) T5S: 60°
- 6) T5M: 90°
- 7) T5L: 120°
- 8) T5D: (frosted front cover, glare resistant)

1: Photocell and motion sensing are available based on customization request.

Linear LED Bay Light

BRIEF SPECIFICATIONS

Model No.	BLC120	BLC160	BLC200	BLC240
No. of LEDs	54	72	90	108
Power	120W	160W	200W	240W
Weight	4Kg	5Kg	6Kg	7Kg
Gross Weight	4.5Kg	5.5Kg	6.5Kg	7.5Kg
Dimensions (L x W x H)	835 x 70 x 102mm	1110 x 70 x 102mm	1385 x 70 x 102mm	1660 x 70 x 102mm
Carton Dimensions (L x W x H)	845 x 80 x 112mm	1120 x 80 x 112mm	1395 x 80 x 112mm	1670 x 80 x 112mm
Input	120-277V AC or 220-240V AC			

General specifications for all the above items:

Electrical:

1. 90-305V AC 50/60Hz Input.
2. Power Factor: >0.95 at full load.
3. Total Harmonic Distortion: <20% at full load.

Lifetime per and working temperature:

4. L70 Lifespan: >50,000 hours .

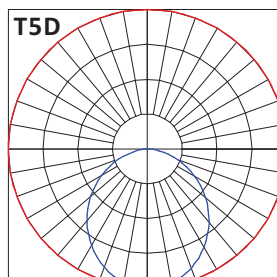
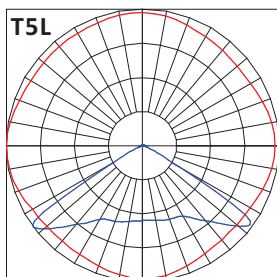
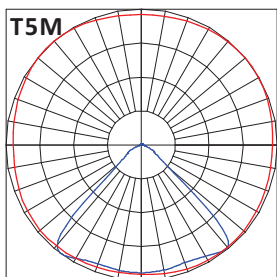
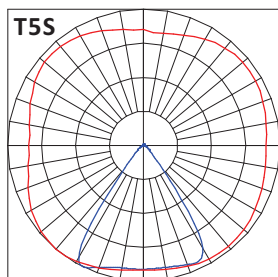
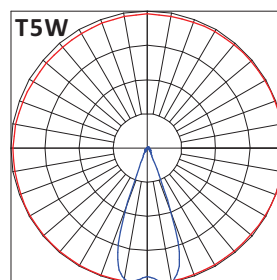
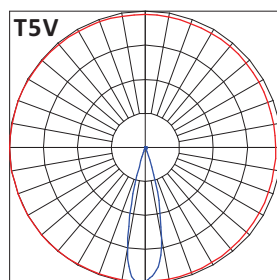
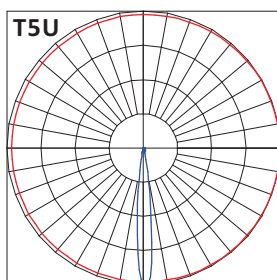
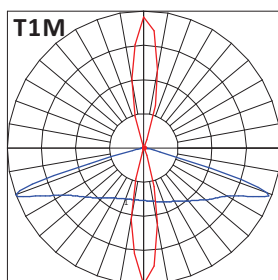
Typical Luminous Efficacy:

5. Typical Luminous Efficacy (BLA models): 100 lm/w (5000K CCT, Ra>80).
6. System Efficacy and power are customized, e.g. 130 lm/W.

Materials:

7. LED option: CREE or PHILIPS Lumileds.
8. LED Driver Origin: MEANWELL.
9. Worldwide top brand quick connector for tool-free wiring, and terminal block for easiest wiring.

Photometrics



Traditional style LED bay light (pendant mount)



Certified by TUV-sud according to the following standards:

IEC /EN 60598-1: 2008

IEC /EN 60598-2-3/A1: 2011

EN 62493:2010

IEC62471: 2008

IEC62471-2:2009

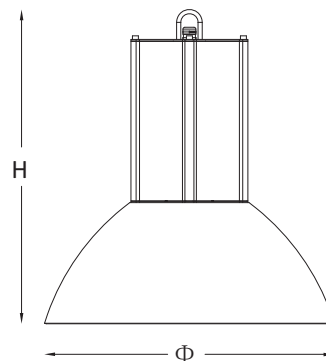
EN 55015: 2013

EN61547:2009

EN61000-3-2/A2:2009

EN 61000-3-3:2013

Dimensional Drawing



Features & Benefits

- 1) Compact, low-profile and lightweight mechanical construction design.
- 2) Ideal direct replacement for HID and fluorescent high/low bay lights, saving energy and re-lamp maintenance costs significantly.
- 3) Unique optic design provide excellent light distribution performance.
- 4) Flexible mounting choices, hook, cable, pendant, junction box direct mount.
- 5) Environmentally friendly packaging materials (EPE).

Applications

Interior high-bay, low-bay, auto dealership, education, municipal, retail and grocery, industrial and warehouses.

Traditional style LED bay light (pendant mount)

Ordering Information

Example 1: BLD-40-T5R-50K-BK-00

Product ID	Power (W)	Optic Lens	CCT* (ANSI)	Housing Color**	Lighting Control
BLD ₁	40 40W	T5R	30K 3045 ±175K	BK Black (RAL:9011)	00 Not required
	60 60W		40K 3985 ±275K	GR Grey (RAL:7004)	
	90 90W		50K 5028 ±283K		
	120 120W		57K 5700 ±355K		
	180 180W				
	240 240W				

Footnotes

● **CCT*:**

1. LEDs at 5000k CCT are always in stock largely to support prompt delivery of finished products.
2. LEDs at 3000k, 4000k, 5700k CCT are in stock as well, but the quantity is small to meet small needs, and the shipment for the finished products with these LEDs cannot be made sooner than those with LEDs at 5000k CCT.
3. LEDs at CCT or wavelength (unit nm) which is not in stock are available upon request, but the lead time for the finished products with these types of LEDs cannot be soon, also the unit price is higher.

● **Housing Color**:**

1. BK (Black) housings are always in stock largely to support prompt delivery of finished products.
2. GR (Grey) housing are available too, and the unit price of the finished product with these types of housings may be different from that with black housing, but the lead time is longer relatively.
3. Other housing colors which are not mentioned can be customized, but the unit price is higher, the lead time is much longer.

- 1: Photocell and 1-10V dimming interface (wire) are available based on customization request.

Traditional style LED bay light (pendant mount)

BRIEF SPECIFICATIONS

Model No.	BLD40	BLD60	BLD90	BLD120	BLD180	BLD240
No. of LEDs	48	72	112	160	240	320
Power	40W	60W	90W	120W	180W	240W
Net Weight	2.5kg	2.46kg	2.7kg	5.31kg	5.36kg	5.47kg
Gross Weight	4.17kg	4.13kg	4.37kg	6.98kg	7.03kg	7.14kg
Dimensions	Φ330*H400			Φ480*H560		
Carton Dimensions	555 x 415 x 210mm			770 x 570 x 270mm		
Input	90-305V AC					

General specifications for all the above items:

Electrical:

1. Power Factor: >0.95 at full load.
2. Total Harmonic Distortion: <20% at full load.

Lifetime and working temperature:

3. L70 Lifespan: >50,000 hours.

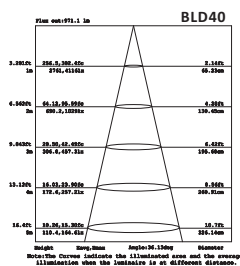
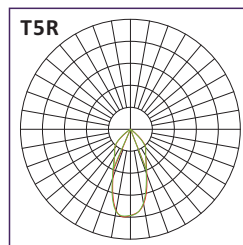
Typical Luminous Efficacy:

4. Typical Luminous Efficacy (BLD models): 100 lm/w (5000K CCT, Ra>70).
5. System Efficacy and power are customized, e.g. 130 lm/W.

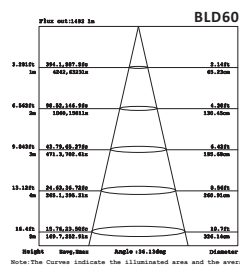
Materials:

6. LED option: CREE or PHILIPS Lumileds.
7. LED Driver Origin: MEANWELL.
8. Worldwide top brand quick connector for tool-free wiring, and terminal block for easiest wiring.

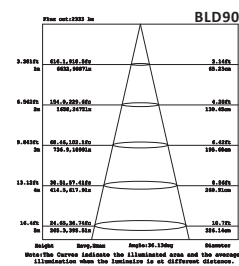
Photometrics



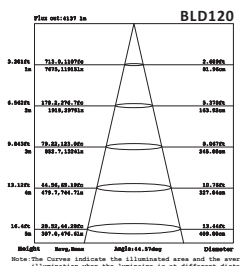
Note: The Curve indicates the illuminated area and the average illumination when the luminaire is at different distance.



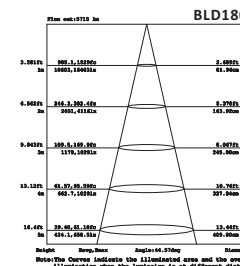
Note: The Curve indicates the illuminated area and the average illumination when the luminaire is at different distance.



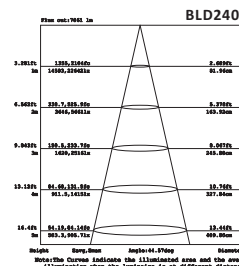
Note: The Curve indicates the illuminated area and the average illumination when the luminaire is at different distance.



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PHOTOCELL

Product Summary

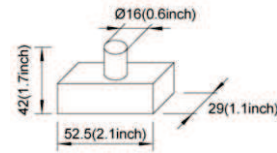


- ANSI C136.10-1996 Twist Lock
- Time Delay 30~120 seconds
- Temperature compensate
- Various Enclosures
- Lightning Arrester Available
- 1" Photocell Deluxe Version Available

1. The photocell PCA, PCB series is applicable to control the street lighting, garden lighting, passage lighting and doorway lighting automatically in accordance with the ambient natural lighting level.

This product is designed on the basis of thermal - bimetallic structure that provides time delay over 30 seconds to avoid mis-operation due to spotlight or lightning during the night time. A temperature compensation system provides consistent performance regardless to the ambient temperature.

2. This product provides three twist-lock terminals meeting the requirements of ANSI C136.10-1996 and the Standard for Plug-In, Locking Type Photocell for Use with Area Lighting UL773, 4th Edition, dated Jan. 19th, 1995. PCA, PCB series has been listed by UL Inc for United States and Canada.



- SPST-NO
- Thermal switch
- Polycarbonate enclosure & eye
- 1/2" CDS photocell
- 3/8" - 18 thread nipple, with rubber gasket & plastic lock nut
- High grade leads available

1. Applicable to control passage lighting and doorway lighting automatically in accordance with the ambient lighting level.

2. UL & C-UL listed by UL Inc and is comply with the Standard for Non-industrial Photoelectric Switches for lighting Control UL773A

3. Raintight, applicable for outdoor purpose

Technical Data

Model No.	PCA120	PCA240	PCB120	PCB240
Nominal Rated Voltage	90-120V AC	220-277V AC	90-120V AC	220-277V AC
Applicable Volt Range	Nominal +/-10%		Nominal +/-10%	
Rated Frequency	50/60Hz		50/60Hz	
Rated Loading	1200W	1800W	600W	1000W
Power Consumption	1.5VA (Average)		1.5VA Max	
Standard Operate Level	10~20Lx On, 30~60Lx Off		10~20Lx On(Dusk); 30~60Lx Off(Dawn)	
Ambient Temperature	-40°C ~ +70°C		-40°C ~ +70°C	
Related Humidity	99%		99%	
Overall Dimensions (mm)	Φ 74 x 50mm		52.2(L) x 29(w) x 42(H)mm	
**Enclosure Color (M/H)	Gray		Black	
**Clear Enclosure (Null)	Available		Available	
Weight Approx.	62~90grs		32grs	

Materials: Enclosure & Lens – High impact UV stabilized Polycarbonate
 Base – High impact Polybutylene terephthalate
 Photocell – Cadmium Sulfide 0.5" with heat sink (Standard) / 1" (Deluxe)

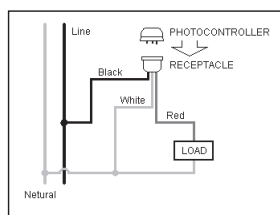
Installation

Disconnect power; wire the color coded receptacle according to the diagram below.

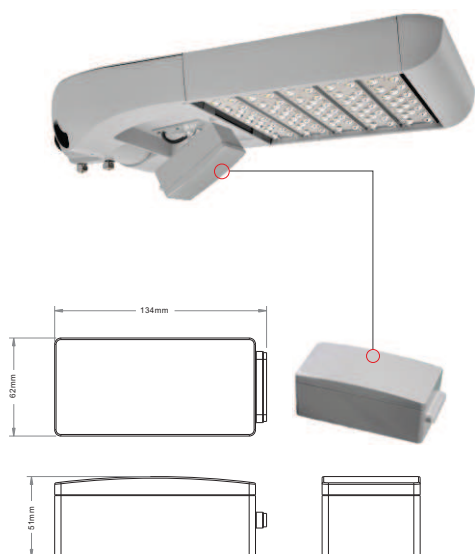
Push the photocell on and twist it clockwise to lock it into the receptacle.

Install the photocell with the Photocell facing the NORTH direction as indicated on the top of the photocell.

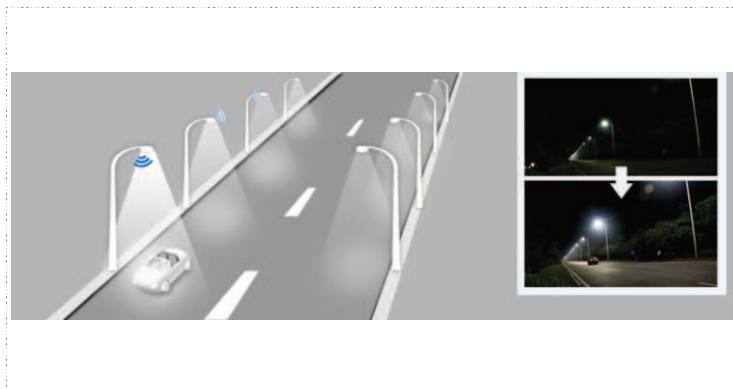
Adjust the receptacle position if necessary.



Microwave motion sensor



Model No.: MSA277



Applications and Features

The sensor is mainly used for the roadway automatic lighting control or roadway lighting real-time dimming control for energy saving purpose. The sensor detects the moving object(s) and transmits the preset 1-10v dimming control signal to the led electronic driver (s) with 1-10v dimming interface so as to activate the 1-10v dimmable led driver. The qualified technician authorized by the end user can set codes by themselves so as to preset the delay period, brightness dimming, power-on delay period etc. The sensor can be equipped with a wireless transceiver as well, thus the wireless communication grouping frequency band (WCGFB) can be set to make all the motion sensors in WCGFB installed to the led street lights communicate by themselves, as a result the led street lights with MSA277 equipped which are not in MSA277 detection range are activated and dimmed to a preset percentage of brightness in advance, e.g. 100% brightness (lumen output) for enough driving security and safety.

Technical Parameters

- Rated Operating Voltage: 120-277VAC 50/60Hz
- Ingress Protection Rating: IP67
- Compliance: UL, FCC
- Lifetime: 50,000 hours

Operating Environment Requirements

- Operating Ambient Temperature : -40℃ - 60℃
- Applicable Mounting Height : 6-18m. Maximum mounting height is 30 meters, but the sensing range is decreased. To achieve the same sensing performance, the sensing surface of the moving object is required to be increased, or increase the speed of the moving object, e.g. a running car.
- Detection Range: A rectangular area under a 120°×60° detection angle.
- Detection Sensitivity: The motion sensor is mainly used for the detection and reaction for the automobiles on the roadway. The detection sensitivity rating is 100% if the speed of the automobile is 20km/h~150km/h, while there is no metal plate or glass cover to block the sensor. If the speed of the automobile is less than 20km/h~150km/h, or there are passing pedestrians only, the sensitivity is supposed to be lowered. To remain the sensitivity, another model # MSB277 is the choice.

Function Code Set

a) 100% brightness hold-on time

	1	2	3	Delay period
I	↓	↓	↓	5s
II	↑	↓	↓	1min
III	↓	↑	↓	3min
IV	↓	↓	↑	10min

b) Brightness Dimming Preset Function (Constant Voltage Output 5v/3v/2v/1.5v)

	4	5	Constant Voltage Output	Luminaire Brightness Ratio
I	↓	↓	5V	45-50%
II	↑	↓	3V	25-30%
III	↓	↑	2V	15-20%
IV	↑	↑	1.5V	5-10%

c) Dimming Start-up Delay

	6	7	8	Power-on Detection Period
I	↓	↓	↓	10s
II	↑	↓	↓	4h
III	↓	↑	↓	6h
IV	↓	↓	↑	8h

d) Wireless Management Grouping Configuration

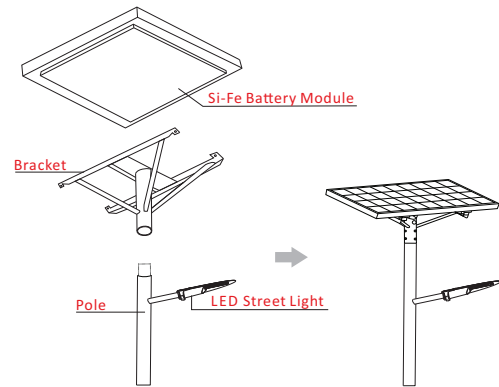
9	10	Wireless Communication Frequency Band
↓	↓	A
↑	↑	B

Si-Fe Battery Module

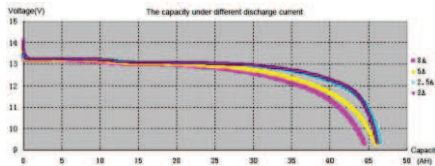
Introduction

Si-Fe battery module includes the solar PV panel with Fe battery pack and controller attached to the back of it. The PV panel converts solar energy to electricity and charge the Fe battery, which enables the battery discharge to power on the led light.

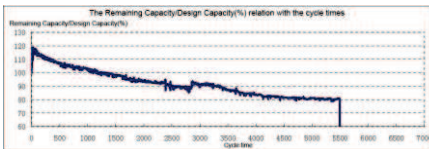
Compared with conventional solar solution powered by lead acid solar battery, the key component Fe battery features its super long service time, higher electricity charge and discharge efficiency, safety, high energy density, nice temperature performance and zero environment pollution.



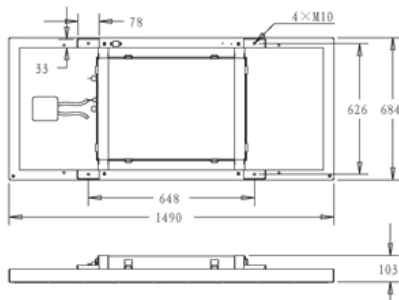
Discharge Curve



Cycle-life Curve



Dimensional Drawing



Model No.	SL13045	SL13090
General Specifications		
Solar PV Panel	Peak Power 130Wp	
Fe Battery	12V 45AH, made by BYD	12V 90AH, made by BYD
Controller and protection	12V 8A, with all-round protections incl. Over-discharge, over-charge, over-current, reverse connection, overheat, lightning stroke (surge) etc.	
Mechanical Specifications		
Dimensions [mm]	L1490 x W684 x H103	
Weight [kg]	36	46
Electrical Specifications		
Rated Output Voltage[V]	12.8VDC	
Rated Output Current[A]	8	
Current for Over-current Protection [A]	10	
Rated Operating Voltage Range [V]	8~14.6VDC	
Mode of Output Control	Light-Probe	
Environmental Specifications / Safety & EMC Compliance		
Operating Temperature	Charge: -10~+55°C/ Discharge: -20~+55 / Tolerance ±3°C	
Operating Humidity	0~85%RH	
Storage Temperature	0~+45°C	
EMC Compliance	EMI : EN55015 2006 ; EMS : EN61547-1 1996	
Safety Compliance	EN60598-1	
Reliability Compliance	GB/T2423, GB4208 (IP65)	
Ingress Protection	Ip65	
Packaging and Transportation		
Packaging Method	Cardboard Box	
Transportation Compliance	Un3090	
Warranty		
Solar Pv panel	10 years	
Fe battery and controller	3 years	

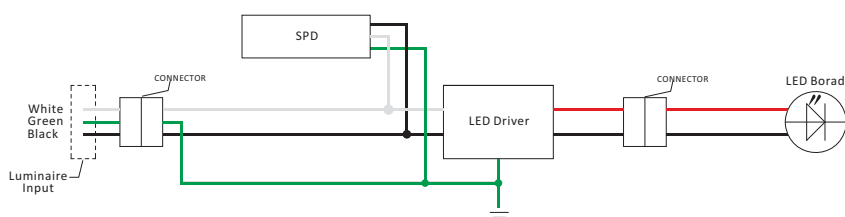
Surge Protection Device

Features

Adapted to SSL outdoor lighting, the SPD277 and SPD480 surge protection device provides single phase protection for line/neutral, line/ground and neutral/ground in accordance with IEEE C62.41 2002C High. The SPD277 and SPD480 small size corresponds to the current design requirements for the new technology luminaires, like a LED light engine in outdoor lighting.



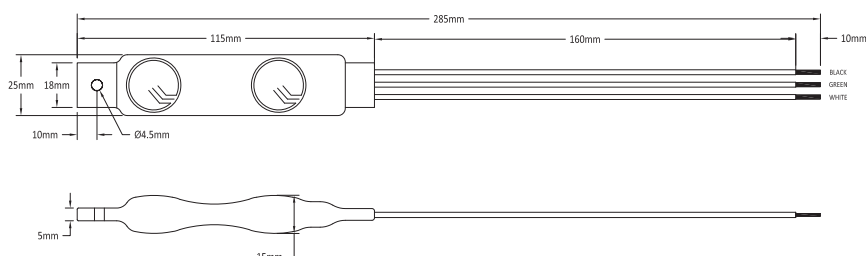
Electrical diagram



Brief specifications

Model No.	SPD277-10	SPD277-20	SPD480-10	SPD480-20
Voltage Input:	120V-277V (+/- 5%)		347V-480V (+/- 5%)	
Frequency:	50Hz-60Hz		50Hz-60Hz	
Clamping Voltage:	320V		625V	
Maximum Energy:	430 Joules	850 Joules	630 Joules	1260 Joules
Maximum Peak Current:	10kA (8/20μs standard wave)	22kA (8/20μs standard wave)	10kA (8/20μs standard wave)	22kA (8/20μs standard wave)
Wiring:	14 Gauges stranded wires, 200°C, 600V			
Wire Connections:	Black and white: 10mm skinned and thin plated Green: 10mm skinned with terminal malt			
Mounting hole:	Φ 5mm			

Dimensional drawing



Street / Roadway Lighting Criteria

(ANSI / IESNA_RP-8-2000)

Road and Pedestrian Conflict area		Average Luminance	Uniformity Ratio	Uniformity Ratio	Veiling Luminance Ratio
Road	Pedestrian Conflict area	L_{avg} (cd/m ²)	L_{avg}/L_{min} Maximum Allowed	L_{max}/L_{min} Maximum Allowed	L_{Vmax}/L_{avg} Maximum Allowed
Freeway Class A	-	0.6	3.5	6.0	0.3
Freeway Class B	-	0.4	3.5	6.0	0.3
Expressway	High	1.0	3.0	5.0	0.3
	Medium	0.8	3.0	5.0	0.3
	Low	0.6	3.5	5.0	0.3
Major	High	1.2	3.0	5.0	0.3
	Medium	0.9	3.0	6.0	0.3
	Low	0.6	3.5	5.0	0.3
Collector	High	0.8	3.0	6.0	0.3
	Medium	0.6	3.5	8.0	0.3
	Low	0.4	4.0	6.0	0.3
Local	High	0.6	6.0	10	0.3
	Medium	0.6	6.0	10	0.3
	Low	0.6	6.0	10	0.3

(CIE115)

LIGHTING CLASS	EXTENT OF APPLICATION				
	L (cd.m ²) Minimum Maintained	U_o Minimum	TI(%) Maximum Initial	UL Minimum	SR Minimum
M1	2.0	0.4	10	0.7	0.5
M2	1.5	0.4	10	0.7	0.5
M3	1.0	0.4	10	0.5	0.5
M4	0.75	0.4	15	-	-
M5	0.5	0.4	15	-	-

Note:

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