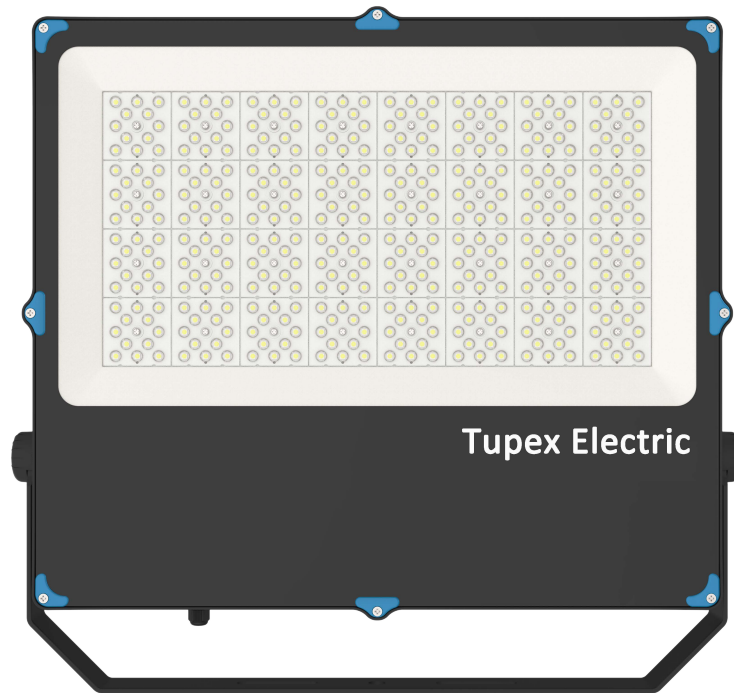
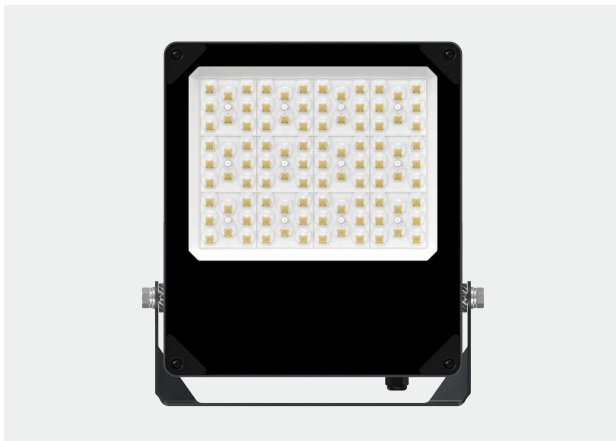


BUFFALO PRO LED

FL82

All in one solution – maximize flexibility and SKU saving



Description

FL82 LED flood light features a compact design with 5 sizes, covering a power range from 50W to 300W. With adjustable CCT, beam angle, and power options, it meets diverse application needs while reducing SKU requirements. The photocell and time dimming functions can maximize energy-saving and enable intelligent control.

Key Features

- 5 size cover 50W to 300W.
- 2Beam angle/3CCT, power selectable with photocell , saving SKU while maximize choices.
- Time dimming version for energy efficiency and enable intelligent control.
- High efficiency, 3 CCT up to 165lm/w and single CCT up to 170lm/w.
- DALI dimming optional for all wattages.

Applications



Factories



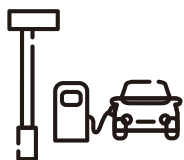
Logistics facilities



Plazas/Square lighting



Area site lighting



Open car parks



Outdoor industrial and logistics areas



Architectural & Building surrounds



Public spaces

FUNCTION TABLE

Suffix	CCT selectable (C)	Power selectable (P)	Photocell (K)	Beam angle selectable (S)	Time dimming (T)	Example 50W
/CPK	✓	✓	✓	-	-	FL82-050/CPK
/PKS	-	✓	✓	✓	-	FL82-050/PKS
/T	-	-	-	-	✓	FL82-050/T

PRODUCT OVERVIEW



GENERAL INFORMATION

Housing materials	Aluminum alloy	Power selection DIP switch	Yes
Mounting bracket materials	SPCC	Emergency	NO
Housing finish	Powder coating	Light source SDCM	<5
Mounting bracket finish	Powder coating	Impact resistance	IK08
Optic materials	Polycarbonate	Ingress protection	IP66
Fixture color	Grey RAL7016	Category of corrosion	C3 (ISO 9223:2012)
Electrical class	Class I	Certification	CE/RCM/RoHS
CCT selection DIP switch	Yes	Warranty(years)	5

TECHNICAL DATA

Single CCT, Single Power

Code		FL82-050	FL82-100	FL82-150	FL82-200	FL82-300
Nominal wattage(W) ±5%		50	100	150	200	300
Driver type		Constant current(CC)				
Control		ON/OFF				
Nominal input voltage(V)		220-240Vac, 50/60Hz				
Power factor(at full load)		>0.9				
Flicker factor		<1%				
THD		<20%@230V				
Surge protection		4KV L-L, 6KV L-E	6KV L-L, 6KV L-E			
Light source		LED 2835				
Color rendering index		Ra70/Ra80				
General luminous efficacy (lm/W)		170lm/W@5000K Ra70				
Color temperature(K)		1-CCT: 3000K/4000K/5000K				
Luminous flux(lm) ±10% Ra70	1-CCT	7613-8833	16268-17916	23761-26368	31704-34892	46674-50119
Luminous flux(lm) ±10% Ra80 (lens)	1-CCT	7080-8209	15129-16214	22098-24101	29485-32520	43624-46537
Beam angle		F00823/F00826				
Luminaire windage area(SCx)(m²)	at 90°	0.06	0.09	0.10	0.12	0.14
Operating temperature(°C)		-30 to +45 (For outdoor use only)				
Lifespan of LED@Ta=25°C (hrs)		93400-L80B50				
		148600-L70B50				

TECHNICAL DATA

3CCT, Power Selectable with Photocell

Code		FL82-050/CPK	FL82-100/CPK	FL82-150/CPK	FL82-200/CPK	FL82-300/CPK
Nominal wattage(W) ±5%		25/50	50/75/100	75/112.5/150	100/150/200	150/225/300
Driver type		Constant current(CC)				
Control		ON/OFF				
Nominal input voltage(V)		220-240Vac, 50/60Hz				
Power factor(at full load)		>0.9				
Flicker factor		<1%				
THD		<20%@230V				
Surge protection		4KV L-L, 6KV L-E	6KV L-L, 6KV L-E			
Light source		LED 2835				
Color rendering index		Ra70/Ra80				
General luminous efficacy (lm/W)		165lm/W@4000K Ra70				
Color temperature(K)		3-CCT:3000K+4000K+5000K				
Luminous flux(lm) ±10% Ra70	3-CCT	7302-8666	15056-17622	21691-26228	28918-34357	41824-51571
Beam angle		F00823/F00826				
Luminaire windage area(SCx)(m²)	at 90°	0.06	0.09	0.10	0.12	0.14
Operating temperature(°C)		-30 to +45 (For outdoor use only)				
Lifespan of LED@Ta=25°C (hrs)		93400-L80B50				
		148600-L70B50				

TECHNICAL DATA

2Beam Angle, Power Selectable with Photocell

Code		FL82-050/PKS	FL82-100/PKS	FL82-150/PKS	FL82-200/PKS	FL82-300/PKS
Nominal wattage(W) ±5%		25/50	50/75/100	75/112.5/150	100/150/200	150/225/300
Driver type		Constant current(CC)				
Control		ON/OFF				
Nominal input voltage(V)		220-240Vac, 50/60Hz				
Power factor(at full load)		>0.9				
Flicker factor		<1%				
THD		<20%@230V				
Surge protection		4KV L-L, 6KV L-E	6KV L-L, 6KV L-E			
Light source		LED 2835				
Color rendering index		Ra70/Ra80				
General luminous efficacy (lm/W)		160lm/W@5000K Ra70				
Color temperature(K)		1-CCT: 3000K/4000K/5000K				
Luminous flux(lm) ±10% Ra70	1-CCT	7154-7838	14938-16262	21345-23876	28483-30861	41254-46088
Luminous flux(lm) ±10% Ra80(lens)	1-CCT	6653-7133	13526-14696	19328-21620	25533-27945	37355-41608
Beam angle		F01629				
Luminaire windage area(SCx)(m²)	at 90°	0.06	0.09	0.10	0.12	0.14
Operating temperature(°C)		-30 to +45 (For outdoor use only)				
Lifespan of LED@Ta=25°C (hrs)		93400-L80B50				
		148600-L70B50				

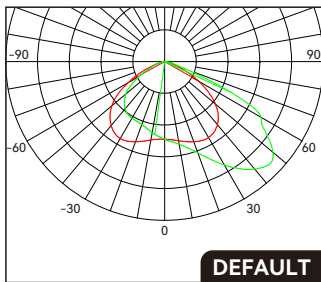
TECHNICAL DATA

Time Dimming

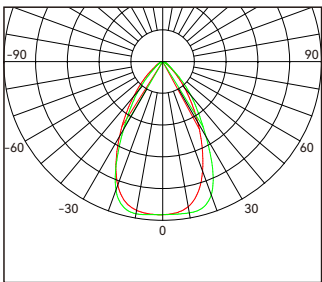
Code		FL82-050/T	FL82-100/T	FL82-150/T	FL82-200/T	FL82-300/T
Nominal wattage(W) ±5%		50	100	150	200	300
Driver type		Constant current(CC)				
Control		Time Dimming				
Nominal input voltage(V)		220-240Vac, 50/60Hz				
Power factor(at full load)		>0.9				
Flicker factor		<1%				
THD		<20%@230V				
Surge protection		4KV L-L, 6KV L-E	6KV L-N, 6KV L/N-E			
Light source		LED 2835				
Color rendering index		Ra70/Ra80				
General luminous efficacy (lm/W)		170lm/W@4000K Ra70				
Color temperature(K)		1-CCT: 3000K/4000K/5000K				
Luminous flux(lm) ±10% Ra70	1-CCT	7613-8833	16268-17916	23761-26368	31704-34892	46674-50119
Luminous flux(lm) ±10% Ra80(lens)	1-CCT	7080-8209	15129-16214	22098-24101	29485-32520	43624-46537
Beam angle		F00823/F00826				
Luminaire windage area(SCx)(m²)	at 90°	0.06	0.09	0.10	0.12	0.14
Operating temperature(°C)		-30 to +45 (For outdoor use only)				
Lifespan of LED@Ta=25°C (hrs)		93400-L80B50				
		148600-L70B50				

OPTICS

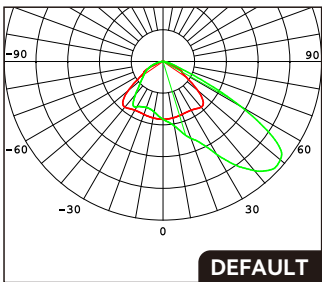
RECOMMENDED



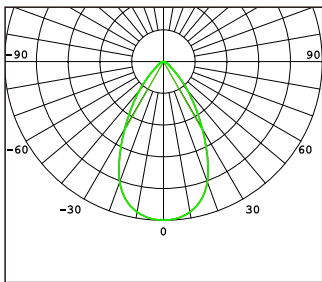
Asymmetrical intense 47°
F00823



Symmetrical 60°
F00826

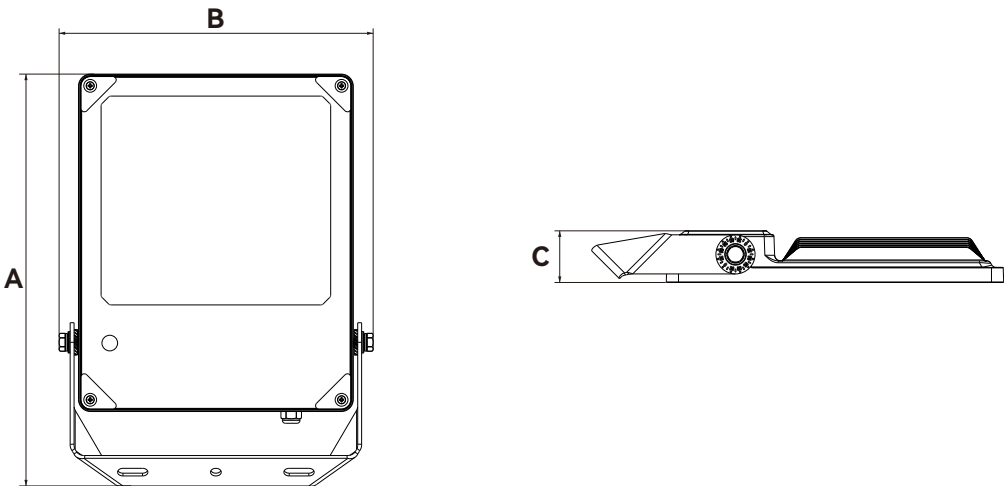


symmetrical intense 50°
F01629



Symmetrical 60°
F01629

MEASUREMENT



Product code	Luminaire dimensions AxBxC(mm)	Product weight(kg) ±6%		Carton size(mm)	Qty/ CTN
		N.W/PC	G.W/PC		
FL82-050	318x229x53	1.8	2.1	340x265x75	1
FL82-100	358x277x53	2.7	3.2	380x310x75	
FL82-150	368x306x53	3.0	3.6	390x330x75	
FL82-200	421x322x53	4.0	4.6	440x355x75	
FL82-300	443x363x53	4.9	5.7	470x400x75	

MOUNTING OPTIONS



ACCESSORIES

42MM Pole mount adaptor (for 50-300W)



Code	Product weight(kg) $\pm 6\%$		Package weight(kg) $\pm 6\%$		Carton size(mm)	Qty/CTN
	N.W/PC	G.W/PC	N.W/CTN	G.W/CTN		
BC-F08-02	1.6	1.9	16.4	16.9	489x232x285	10

60MM Pole mount adaptor (for 100-300W)



Code	Product weight(kg) $\pm 6\%$		Package weight(kg) $\pm 6\%$		Carton size(mm)	Qty/CTN
	N.W/PC	G.W/PC	N.W/CTN	G.W/CTN		
BC-F08-01	1.9	2.2	15.5	15.8	412x232x285	8

76mm Pole mount adaptor(for 50-300W)



Code	Product weight(kg) $\pm 6\%$		Package weight(kg) $\pm 6\%$		Carton size(mm)	Qty/CTN
	N.W/PC	G.W/PC	N.W/CTN	G.W/CTN		
BC-F08-03	2.2	2.5	6.8	7.3	340x282x136	3

Outrigger mount bracket(for 50-100W)



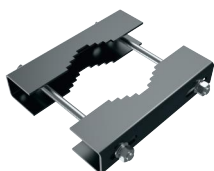
Code	Product weight(kg) $\pm 6\%$		Package weight(kg) $\pm 6\%$		Carton size(mm)	Qty/CTN
	N.W/PC	G.W/PC	N.W/CTN	G.W/CTN		
BC-F08-05	1.8	2.1	7.8	8.3	1138x410x250	4

60mm Aluminum Pole mount adaptor(for 50-300W)



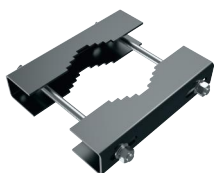
Code	Product weight(kg) $\pm 6\%$		Package weight(kg) $\pm 6\%$		Carton size(mm)	Qty/CTN
	N.W/PC	G.W/PC	N.W/CTN	G.W/CTN		
BC-F15-06	1.9	2.3	20.6	21.2	585x290x200	10

100mm Clamp mount bracket(for 50-200W)



Code	Product weight(kg) ±6%		Package weight(kg) ±6%		Carton size(mm)	Qty/CTN
	N.W/PC	G.W/PC	N.W/CTN	G.W/CTN		
BC-F15-07a	1.5	1.8	31	31.5	280x210x122	20

150mm Clamp mount bracket(for 100-300W)



Code	Product weight(kg) ±6%		Package weight(kg) ±6%		Carton size(mm)	Qty/CTN
	N.W/PC	G.W/PC	N.W/CTN	G.W/CTN		
BC-F15-07b	2.5	2.9	15.6	15.9	280x200x80	6

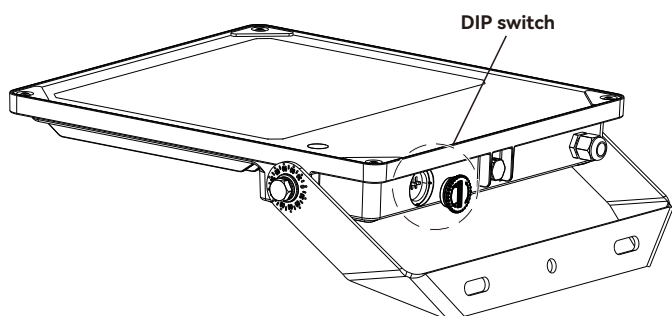
Programmer



Code	Product weight(kg) ±6%		Package weight(kg) ±6%		Carton size(mm)	Qty/CTN
	N.W/PC	G.W/PC	N.W/CTN	G.W/CTN		
SS-EASY-LINK	0.11	-	-	0.13	127x105x35	1

CCT/BEAM ANGLE & POWER & PHOTOCELL SELECTABLE

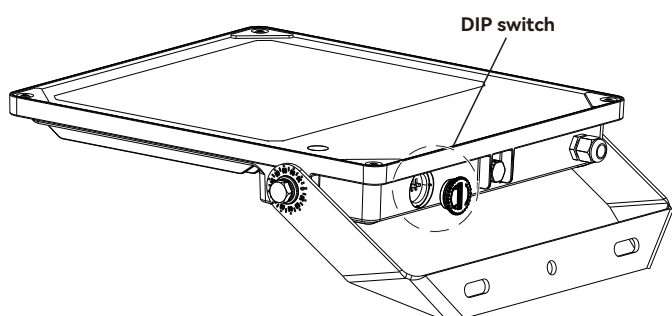
Factory set:
100% brightness, 5000K



50W			
CCT selectable	Power selectable	Photocell selectable	
1 2 3	1 2 3	1 2 3	
WW	50%	25lux on-75lux off	1 CCT Power Photocell
NW		200lux on-600lux off	
CW	100%	Disable	
100W-300W			
CCT selectable	Power selectable	Photocell selectable	
1 2 3	1 2 3	1 2 3	
WW	50%	25lux on-75lux off	1 CCT Power Photocell
NW	75%	200lux on-600lux off	
CW	100%	Disable	

Power(W)	50	100	150	200	300
Power percent					
100%	50	100	150	200	300
75%	/	75	112.5	150	225
50%	25	50	75	100	150

Factory set:
100% brightness, 5000K

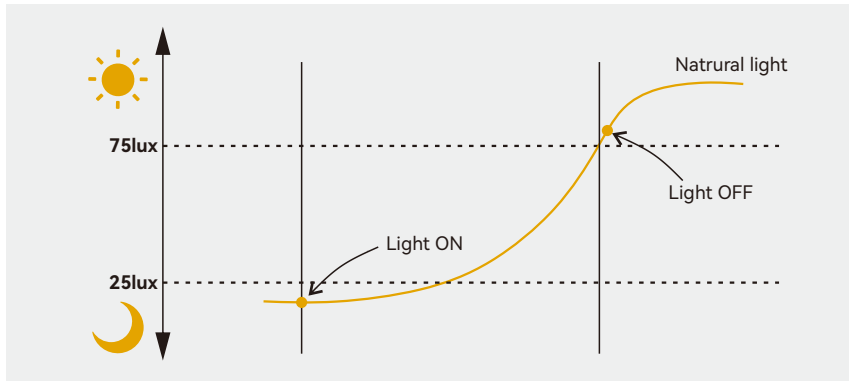


50W			
Beam Angle	Power selectable	Photocell selectable	
1 2 3	1 2 3	1 2 3	
SYM60°	50%	25lux on-75lux off	1 Beam Power Photocell
ASY50°	100%	200lux on-600lux off	
		Disable	
100W-300W			
Beam Angle	Power selectable	Photocell selectable	
1 2 3	1 2 3	1 2 3	
SYM60°	50%	25lux on-75lux off	1 Beam Power Photocell
ASY50°	75%	200lux on-600lux off	
	100%	Disable	

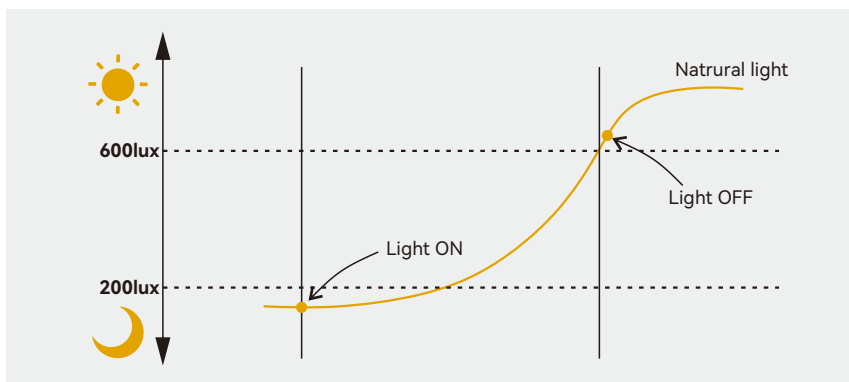
PHOTOCELL

Default setting is off

25-75lux



200-600lux



TIMER DIM FUNCTION



Timer dim modes

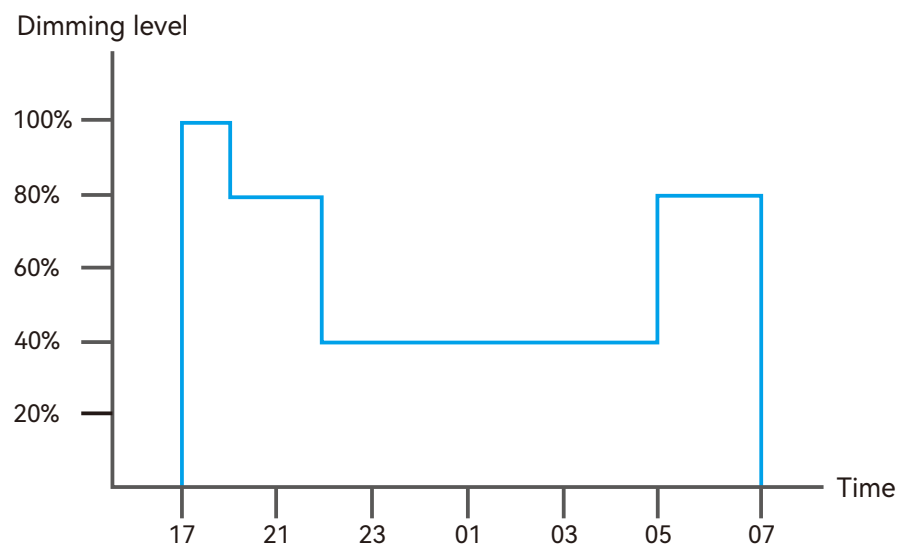
Legacy Timer: Driver's O/P follows the pre-programmed timing curve after turn-on.

Auto-Adjust by Percentage: Driver's O/P will be adjusted by automatically changed dimming curve by the period percentage based on the latest 5 dimming curve.

Auto-Adjust by Mid-point: Driver's O/P will be adjusted by automatically changed dimming curve by mid-point based on the latest 5 dimming curve.

Factory set:

Auto-Adjust by Mid-point:



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