

# Diseños Santelices

FÁBRICA DE ILUMINACIÓN  
POLIGONO EL ÁGUILA COORS, NAVE A, 39 y 69  
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## CARACTERÍSTICAS TÉCNICAS CAMPANA INDUSTRIAL LED CLECFPM



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Sustituye a luminarias de halogenuros metálicos gracias a su alta eficiencia en la luminaria de 130-140 lm/W con LED PHILIPS Lumileds 3030 2D de última generación. Dos versiones con diferente eficiencia en función del número de LED.

Fuente de alimentación Meanwell serie especial HBG de alta calidad especialmente diseñada para aplicaciones de altas prestaciones y máxima duración, garantizada 5 años.

Disipador de aluminio puro AL1070 forjado en frío para mantener su excelente capacidad de conducción térmica.

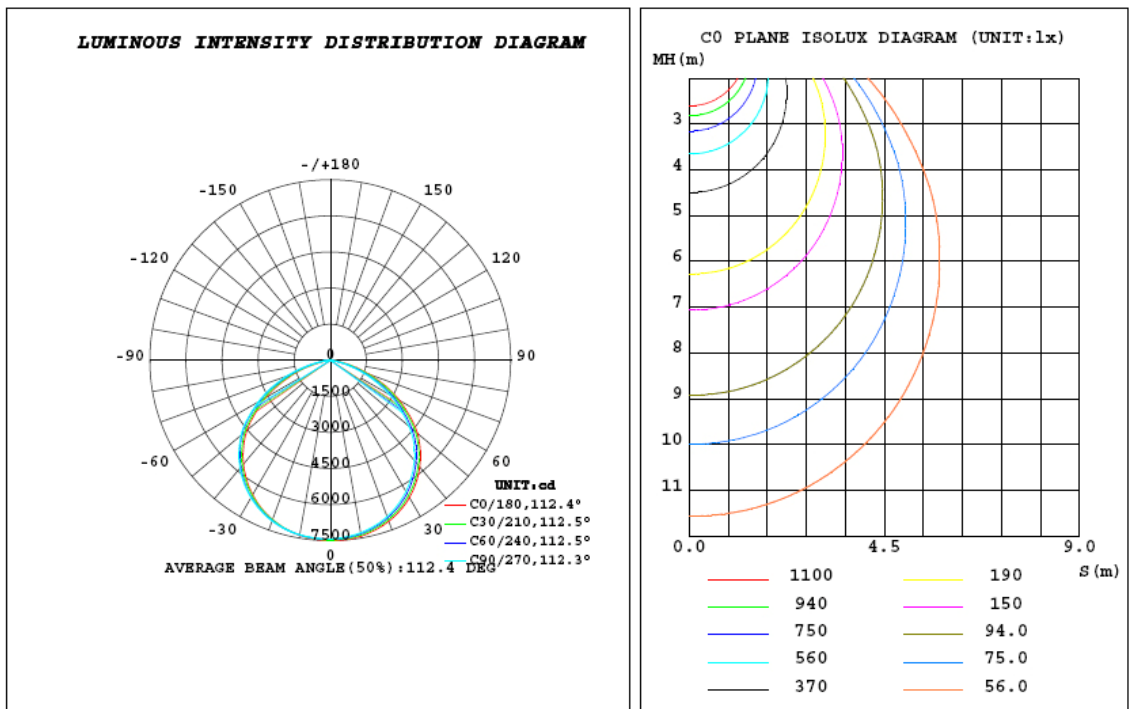
Características técnicas	CLECFPM-100	CLECFPM-150	CLECFPM-200
Certificaciones	CE, RoHS,TÜV	CE, RoHS,TÜV,UL	CE, RoHS,TÜV,UL
Voltaje de alimentación	100/277V AC	100/277V AC	100/277V AC
Fuente de alimentación	Meanwell HBG	Meanwell HBG	Meanwell HBG
Disipador	Aluminio forjado en frío	Aluminio forjado en frío	Aluminio forjado en frío
LED	PHILIPS 3030 2D	PHILIPS 3030	PHILIPS 3030 2D
Potencia nominal luminaria	100W	150W	200W
Eficiencia típica LED 5000k 120 mA	PHILIPS 3030 2D 158 lm/W	PHILIPS 3030 2D 158 lm/W	PHILIPS 3030 2D 158 lm/W
Eficiencia luminaria	130lm/W (160 LED) 140lm/W (224 LED)	130lm/W (224 LED) 140lm/W (350 LED)	130lm/W (288 LED) 140lm/W (371 LED)
Flujo lumínico inicial	13000lm (160 LED) 14000lm (224 LED)	19500lm (224 LED) 21000lm (350 LED)	26000lm (288 LED) 28000lm (371 LED)
CRI	70-80	70-80	70-80
CCT	4000-5000K	4000-5000K	4000-5000K
Temperatura Tj LED a Tamb. 30°C	<75°C	<75°C	<75°C
Temperatura de trabajo	-30°C , +50°C	-30°C , +50°C	-30°C , +50°C
Grado de protección IP	IP65	IP65	IP65
Óptica	120°/90°/60°	120°/90°/60°	120°/90°/60°
Dimensiones	Ø280x220mm	Ø280x220mm	Ø280x228mm
Peso neto	4,5 kg	4,86 kg	6,3 kg
Garantía	5 años	5 años	5 años
Vida útil	>50kh	>50kh	>50kh

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DATA OF LAMP		PHOTOMETRIC DATA Eff: 137.88 lm/W			
MODEL		I <sub>max</sub> (cd)	7486	S/MH (C0/180)	1.30
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.26
RATED VOLTAGE (V)	222	TOTAL FLUX (lm)	20889	η UP, DN (C0-180)	0.6, 47.3
NOMINAL FLUX (lm)	20889	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.7, 51.4
LAMPS INSIDE	1	η up (%)	1.3	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	222.7	η down (%)	98.7	CIBSE SHR MAX	1.35



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ILLUMINATION

## LUXEON 3030 2D

High flux, hot-color targeted 6V package

LUXEON 3030 2D is the first hot-color targeted mid power LED. Hot-color targeting ensures that the LEDs are within color target at application conditions — 85°C. Using an industry standard packaging of 3.0mm x 3.0mm x 0.5mm and 6V surface-mount emitter solution, LUXEON 3030 2D comes in all ANSI CCTs and delivers the efficacy and reliability required for indoor illumination markets.



### FEATURES AND BENEFITS

Industry standard package enables drop-in replacement for existing 3030 packages

1/9<sup>th</sup> micro-color binning enables tight color control

Superior luminous flux at max current for reduced LED count

Hot-color targeting ensures that color is within ANSI bin at typical application conditions, 85°C

Enables 3-, 4-, 5-step MacAdam ellipse kits

### PRIMARY APPLICATIONS

Downlights

High Bay & Low Bay

Lamps

Outdoor

Spotlights

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## Performance Characteristics

### Product Selection Guide

Table 1. Product performance of LUXEON 3030 2D at 120mA and 100mA,  $T_j=25^\circ\text{C}$ .

NOMINAL CCT (1)	MINIMUM CRI (2)	LUMINOUS FLUX (3) (lm)		TYPICAL LUMINOUS EFFICACY (lm/W)	TYPICAL LUMINOUS FLUX (lm)	TYPICAL LUMINOUS EFFICACY (lm/W)	PART NUMBER
		MINIMUM	TYPICAL				
		120mA					
3000K	70	98	108	148	92	153	L130-3070003000W21
3500K	70	100	111	152	95	158	L130-3570003000W21
4000K	70	101	116	158	99	165	L130-4070003000W21
5000K	70	101	116	158	99	165	L130-5070003000W21
5700K	70	101	115	157	98	164	L130-5770003000W21
6500K	70	101	115	157	98	164	L130-6570003000W21
2700K	80	80	100	137	84	140	L130-2780003000W21
3000K	80	85	102	139	85	142	L130-3080003000W21
3500K	80	85	105	143	89	148	L130-3580003000W21
4000K	80	90	109	149	93	155	L130-4080003000W21
5000K	80	90	109	149	93	155	L130-5080003000W21
5700K	80	90	109	149	93	155	L130-5780003000W21
6500K	80	90	109	149	93	155	L130-6580003000W21
2700K	90	72	84	115	72	119	L130-2790003000W21
3000K	90	75	86	117	73	122	L130-3090003000W21
3500K	90	75	88	120	75	125	L130-3590003000W21
4000K	90	75	92	126	78	131	L130-4090003000W21

Notes for Table 1:  
 1. Correlated color temperature is based upon mounted die on highly reflective surface at  $T_j=25^\circ\text{C}$ .  
 2. Typical CRI is approximately 2 points higher than the minimum CRI but this is not guaranteed.  
 3. Lumileds maintains a tolerance of  $\pm 2$  on CRI and  $\pm 7.5\%$  on luminous flux measurements.

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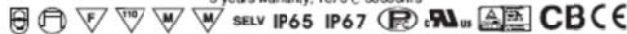
160W Single Output Switching Power Supply

HBG-160 series



#### Features :

- MEAN WELL patented housing design (Patent No.: CN201220314551)
- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- High efficiency up to 93.5%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- OCP point adjustable through internal potentiometer
- IP67 / IP65 design for indoor or outdoor installations
- Type HL LED Driver for use in Class 1, Division 2 hazardous location luminaires
- Suitable for dry / damp / wet locations
- 5 years warranty, To70°C, 50000hrs



HBG-160-60  Blank: IP67 rated. Cable for I/O connection.  
A: IP65 rated. Output constant current level can be adjusted through internal potentiometer.  
B: IP67 rated. Output constant current level can be adjusted through output cable with 1-10V PWM signal and Resistance  
E(option): IP67 rated. Can be fixed by steel support.

#### SPECIFICATION

MODEL	HBG-160-24 <input type="checkbox"/>	HBG-160-36 <input type="checkbox"/>	HBG-160-48 <input type="checkbox"/>	HBG-160-60 <input type="checkbox"/>	
OUTPUT	DC VOLTAGE	24V	36V	48V	60V
	CONSTANT CURRENT REGION <i>Note 1</i>	14.4 - 24V	21.6 - 36V	28.8 - 48V	36 - 60V
	RATED CURRENT	6.5A	4.4A	3.3A	2.6A
	RATED POWER	156W	158.4W	158.4W	156W
	RIPPLE & NOISE (max.) <i>Note 2</i>	200mVp-p	300mVp-p	300mVp-p	300mVp-p
	CURRENT ADJ. RANGE	Can be adjusted by internal potentiometer A type only			
		1.9 - 6.5A	2.6 - 4.4A	1.98 - 3.3A	1.6 - 2.6A
	VOLTAGE TOLERANCE <i>Note 3</i>	±2.0%			
	LINE REGULATION	±0.5%			
	LOAD REGULATION	±1.0%			
INPUT	SETUP RISE TIME <i>Note 6</i>	250ms, 200ms / 115VAC at full load		500ms, 200ms / 230VAC at full load	
	HOLD UP TIME (Typ.)	12ms at full load		115VAC / 230VAC	
	VOLTAGE RANGE <i>Note 5</i>	90 - 305VAC		127 - 431VDC	
	FREQUENCY RANGE	47 - 63Hz			
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load (Please refer to "Power Factor Characteristic" curve)			
	TOTAL HARMONIC DISTORTION	THD<20% when output loading ≥90% at 115VAC/230VAC input and output loading ≥18% at 277VAC input			
	EFFICIENCY (Typ.)	92%	92%	93%	93.5%
	AC CURRENT (Typ.)	1.7A / 115VAC	0.78A / 200VAC	0.7A / 277VAC	
	INRUSH CURRENT (Typ.)	COLD START 65A (width=42μs measured at 50% peak) at 230VAC			
	PROTECTION	MAX. No. of PSUs on 16A CIRCUIT BREAKER	4 units (circuit breaker of type B) / 7 units (circuit breaker of type C) at 230VAC		
LEAKAGE CURRENT		≤0.75mA / 277VAC			
OVER CURRENT <i>Note 4</i>		35 - 108% Protection type: Constant current limiting, recovers automatically after fault condition is removed			
OVER VOLTAGE		28 - 34V	41 - 47V	54 - 62V	65 - 75V
ENVIRONMENT	OVER TEMPERATURE	Shutdown o/p voltage, recovers automatically after temperature goes down			
	WORKING TEMP.	40 - +60°C (Refer to "Derating Curve")			
	WORKING HUMIDITY	30 - 95% RH non-condensing			
	STORAGE TEMP. HUMIDITY	40 - +80°C, 10 - 95% RH			
SAFETY & EMC	TEMP. COEFFICIENT	±0.03%/°C (0 - 50°C)			
	VIBRATION	10 - 500Hz, 5G 12min / cycle period for 72min, each along X, Y, Z axes			
	SAFETY STANDARDS	UL8750, CSA C22.2 No.250.1, EN61347-1, EN61347-2-13 approved, design refer to EN60950			
	WITHSTAND VOLTAGE	IP-C/P-3.75KVAC IP-F/G/2KVAC O/P-F/G-0.5KVAC			
	ISOLATION RESISTANCE	IP-C/P, IP-F/G, O/P-F/G: 100M Ohms / 500VDC (25°C / 70% RH)			
OTHERS	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (20% load), EN61000-3-3			
	EMC IMMUNITY	Compliance to EN61000-4-2, 14.5.6.8.11, EN61547, light industry level (surge 4kV), criteria A			
	MTBF	25.2Khrs min. ML-HBBK21F (25°C)			
NOTE	DIMENSION	Refer to mechanical specification			
	PACKING	1.53kg (approx) / 3.8kg / 16.1OZ			