

LED Light Modules



1. LED Light Modules

Manufacturer	Description	Initial Lumens	CRI	CCT (K)	System Input Power (W)	Input Voltage (V)	Part Number
HEICO Lighting	Equi-Brite: 6", 6500k, 6 LED	45	60	6500	-	-	11704.700*
	Mega-brite: 6", 6500K, 12 LED	85	60	6500	-	-	11706.700*
i2 Systems	4 LED, 5500K, NO OPTICS	400	60	5500	4	12-24	FL3MA-1A100VO

*Can only be used in conjunction HEICO Lighting driver modules.

2. Optical Solutions

Manufacturer	Beam Angle (°)	Diameter (mm)	Part Number
Carclo-Optics	43	10	10414

3. Power Solutions

Driver Module Solutions

Manufacturer	Region	Power (W)	V _{IN} (Vac)	V _{OUT} (Vdc)	I _{OUT} (mA)	Part Number
HEICO Lighting	North America	35	120	10	450	LMPS-350
		75	120	17	800	LMPS-750
Philips Lighting	North America	25	120	2.8-12	2100	LED120A0012V21F
Mean Well	Worldwide	36	90 - 264	12	3000	LPV-35-12

4. Connector Solutions

Manufacturer	Length (inches)	Description	Part Number
i2 Systems	12	Input Hookup Wire	FL3A-C2
	6	Board-to-Board	FL3A-J1
	12	Board-to-Board	FL3A-J2

NORTH AMERICA
1-888-LUXEON2 - Americas@FutureLightingSolutions.com

EUROPE, MIDDLE-EAST, AFRICA
00-800-44FUTURE - Europe@FutureLightingSolutions.com

www.FutureLightingSolutions.com

ASIA
+800-Lumileds - Asia@FutureLightingSolutions.com

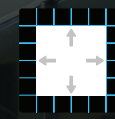
JAPAN
+81-0120-667-013 - Japan@FutureLightingSolutions.com

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LED Application Feature:

Posterbox Lights

Key Market Drivers



Light Uniformity

- Even illumination without any hot spots



Reduced Energy Consumption

- Lower energy and running costs



Lower Maintenance Costs

- Eliminates the need for repeated relamping



Quality of Light

- Excellent CRI and better object recognition
- Color in application (LUXEON LEDs are tested and measured at 85°)
- Color consistency of LUXEON Rebel ES LEDs will remain within ANSI spec
- Color over angle performance is best in class
- Industry leading reliability

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LEDs & System Components



1. High Power LUXEON® LEDs

Manufacturer	Product Family	Nominal CCT (K)	CCT Range (K)	Minimum CRI	Typical CRI	Min Flux (lumens)	Typ Flux (lumens)	Test Forward Current (mA)	Typical Efficacy (lm/W)	Part Number
Philips Lumileds	LUXEON Rebel ES	-	4500 - 10000	60	70	200	235	700	112	LXML-PWC2
		-	3500 - 4500	60	65	200	230	700	110	LXML-PWN2
		ANSI 4000	-	80	85	170	190	700	95	LXW8-PW40
		ANSI 5000	-	80	85	180	200	700	95	LXW8-PW50
		ANSI 4000	-	70	75	180	205	700	100	LXH7-PW40

2. Mid Power LEDs

5630 Series (tested at Tj = 25°C)

Manufacturer	Color	Part Number	CCT (K)	Minimum CRI	Typical CRI	Min Flux (lumens)	Typ Flux (lumens)	Test Forward Current (mA)	Maximum Ratings	Typical Efficacy (lm/W)
Philips Lumileds	CCT/CRI Specified	MXL8-PW30-0000	3000	80	82	26	30	100	DC Forward Current: 150mA; LED Junction Temperature: 115°C	97
		MXL8-PW35-0000	3500	80	82	30	31			100
		MXL8-PW40-0000	4000	80	82	30	32			103
		MXL8-PW50-0000	5000	80	82	30	33			106
		MXL8-PW65-0000	6500	80	82	30	34			110

3. Optical Solutions

Manufacturer	Description	Beam Angle (°)	Diameter (mm)	Part Number
Carclo-Optics	17mm Side Emitter	N/A	20	10267
Fraen	360° Side Emitting Lens	360°	11	F360L-3-RE-0S
LEDIL	19.6 x 15.5mm Transparent Lens with Adhesive Backing	±69 & ±81	19.6 x 15.5	CA11248_Strada-S-RE-tape
RENA	MR5 Side Emitter	N/A	14.5	85618001

4. Power Solutions

Driver Module Solutions

Manufacturer	Region	Power	V _{IN} (Vac)	V _{OUT} (Vdc)	I _{OUT} (mA)	Part Number
Inventronics	Worldwide	40	90-305	38-114	350	EUC-040S035PS
		75	90-305	54-108	700	EUC-075S070ST
Mean Well	Worldwide	21	90-264	9-30	700	LPC-20-700
		33.6	90-264	9-48	700	LPC-35-700
		50.4	90-264	9-48	1050	LPC-60-1050
		58.8	90-264	9-42	1400	LPC-60-1400
Philips Lighting	North America	50	120-277	60-140	350	LEDINTA700C140F30

LED Light Engines



1. Light Engine Solutions

Manufacturer	Diameter (mm)	LEDs	Lumen Output @ 350mA (lm)	Lumen Output @ 700mA (lm)	CCT (K)	CRI	Optics	Part Number
RENA	300 x 25	6	730	1300	5500	60	-	05702R999960200CXXX
	300 x 25	6	700	1235	4100	60	-	05702R777760200CXXX

2. Optical Solutions

Manufacturer	Beam Angle (°)	Diameter (mm)	Part Number
Carclo-Optics	43	10	10414

3. Power Solutions

Driver Module Solutions

Manufacturer	Region	Number of LEDs per Light Engine	Power (W)	V _{IN} (Vac)	V _{OUT} (Vdc)	I _{OUT} (mA)	0 - 10 V	Part Number
Harvard Engineering	Europe, Middle-East, Africa, Asia	6, 12	17	230	48	350		CL350-240-56V
		6, 12	33	230	48	700		CL700-240
Inventronics	Worldwide	18	25	90-305	72	350	✓	EUC-025S035DS
		18	50	90-305	72	700	✓	EUC-050S070DT
		24	40	90-305	114	350	✓	EUC-040S035DS
		24	75	90-305	108	700	✓	EUC-075S070DT
Meanwell	Worldwide	6, 12	17	90-264	48	350		LPC-20-350
		6, 12	34	90-264	48	700		LPC-35-700
Philips Lighting	North America	6	12	120	33	350		LED120A0350C33F
		6	17	120	24	700		LED120A0700C24F
	Europe, Middle-East, Africa, Asia	6	12	230	33	350		913700615882
		6	17	230	24	700		913700615982

4. Thermal Solutions

Manufacturer	Output Current (mA)	Description (mm)	Part Number
Aavid Thermalloy	350	30.15 x 6.6	634553B11811G
	700	32 x 41.91	652453B11811G

5. Connector Solutions

Manufacturer	Length (mm)	Description	Part Number
TE Connectivity	150	CT DOUBLE ENDED	1969343-5
	300	CT DOUBLE ENDED	1969343-6
	300	CT SINGLE END	1969336-3