

LED Light Modules



1. LED Light Modules

Manufacturer	Region	Description	Initial Lumens (lm)	CRI	CCT (K)	System Input Power (W)	B50 L70 Tc Max 65°C	Part Number
Philips Lighting	Worldwide	Fortimo LED HBM 4000lm 641	4000	60	4100	45	50000	929000636503
		Fortimo LED HBM 4000lm 757	4000	70	5700	35	50000	929000636603
		Fortimo LED HBM 6000lm 641	6000	60	4100	68	50000	929000636703
		Fortimo LED HBM 6000lm 757	6000	70	5700	52	50000	929000636803
		Fortimo LED HBM 4000lm 740	4000	70	4000	40	50000	929000665003
		Fortimo LED HBM 6000lm 740	6000	70	4000	68	50000	929000665103

2. Power Solutions

Driver Module Solutions

Manufacturer	Region	Power (W)	V _{IN} (Vac)	V _{OUT} Max (Vdc)	I _{OUT} (mA)	Dimming	Part Number
Philips Lighting	Worldwide	75	120 - 277	80 - 152	350 - 700	✓	929000702302
		150	120 - 277	125 - 280	350 - 700	✓	929000702202

3. Connector Solutions

Manufacturer	Region	Length (mm)	Description	Part Number
Philips Lighting	Worldwide	600	Fortimo LED HBM Cable	929000659803

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LED Application Feature: Outdoor Wall Pack Lights

Key Market Drivers



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



Environmentally Friendly

- Mercury free
- Limited life cycle impact
- Low carbon footprint

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LEDs & System Components



1. High Power LUXEON® LEDs

Manufacturer	Product Family	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	3500 - 4500	60	65	200	230	700	110	LXML-PWN2
		4500 - 10000	60	70	200	235	700	112	LXML-PWC2

2. Optical Solutions

Manufacturer	Description	Beam Angle (°)	Diameter (mm)	Part Number
FRAEN	Side Emitting Lens	360	11	F360L-3-RE-0S*

* To be used with reflector design

3. Power Solutions

Driver Module Solutions

Manufacturer	Region	Power (W)	V _{IN} (Vac)	V _{OUT} (Vdc)	I _{OUT} (mA)	0-10 V Dimming	Part Number
Inventronics	Worldwide	38	90 - 305	18 - 54	700		EUC-040S070PS
Mean Well	Worldwide	33.6	90 - 264	9 - 48	700		LPC-35-700
ROAL Electronics	Worldwide	39	120 - 277	40 - 56	700	✓	RSLD035-16

IC Solutions

Manufacturer	V _{IN} (Vac)	V _{OUT} typ (Vdc)	I _{OUT} typ (mA)	Part Number
Marvell	85 - 277	100	1200	88EM8081
NXP	70 - 305	48	3125	SSL4101T

4. Lighting Controls

Wireless Communications

Manufacturer	Description	Part Number
Synapse Wireless	SNAP Lighting Cloud Appliance (includes 1st year of SNAP Lighting Cloud Service)	LP400-001
	SNAP DIM-10 100-240 V for dimming and full on/off	LP001-001
	SNAP DIM-10 100-277 V for dimming and full on/off	LP002-001

5. Connector Solutions

TE Connectivity inverted thru board connector system

Description	Part Number
Wire-to-wire tab contact	2106091-1
Plug assembly	2058943-1

TE Connectivity sealed connector system

Description	Part Number
Wire-to-board right angle header	2106056
Wire-to-board vertical header	2106053
Wire-to-wire receptacle contact	2106123
Wire-to-wire tab contact	2106124
Plug assembly	2106135

AVX 9159 connector system

Description	Part Number
Wired plug with latch	11-9159-002-101-116
Standard socket	20-9159-002-101-116
Standard plug	10-9159-002-101-116
Top loading socket	22-9159-002-101-116
Shorting socket	58-9159-002-000-006

LED Light Engines



1. Light Engine Solutions

Manufacturer	Dimensions (mm)	LEDs	Lumen Output @ 350mA (lm)	Lumen Output @ 700mA (lm)	CCT (K)	CRI	Connection	Part Number
RENA	300 x 25	6	730	1300	5500	60	CT-Connector	05702R999960200CXXX
	300 x 25	6	700	1235	4100	60	CT-Connector	05702R777760200CXXX
	150 x 30	6	730	1300	5500	60	CT-Connector	05705R999960200CXXX
	150 x 30	6	700	1235	4100	60	CT-Connector	05705R777760200CXXX
	75 x 75	9	900	1610	4100	60	CT-Connector	05706R777760200CXXX

2. Power Solutions

Driver Module Solutions

Manufacturer	Region	Number of LEDs per light engine	Power (W)	V _{IN} (Vac)	V _{OUT} MAX (Vdc)	I _{OUT} (mA)	Part Number
Harvard Engineering	Worldwide	6, 9, 12	33	95-277	48	700	CL700S-UNI-C
		12, 18	25	90-305	25	350	EUC-025S035DS
Inventronics	Worldwide	18	50	90-305	72	700	EUC-050S070DT
		24	75	90-305	108	700	EUC-075S070DT
		24	40	90-305	100	350	EUC-040S035DS
Mean Well	Worldwide	6, 9	21	90-264	30	700	LPC-20-700
		6, 9, 12	17	90-264	48	350	LPC-20-350

3. Thermal Solutions

Manufacturer	Output Current (mA)	Thermal Resistance (°C/W)	Dimensions (mm)	Part Number
Aavid Thermalloy	350	6.98	300 x 30 x 6.6	634553B11811G
	350	7.98	150 x 19 x 6	700353B05906G
	700	2.23	300 x 32 x 42	652453B11811G
	700	3.16	150 x 32 x 42	652453B05906G

4. 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