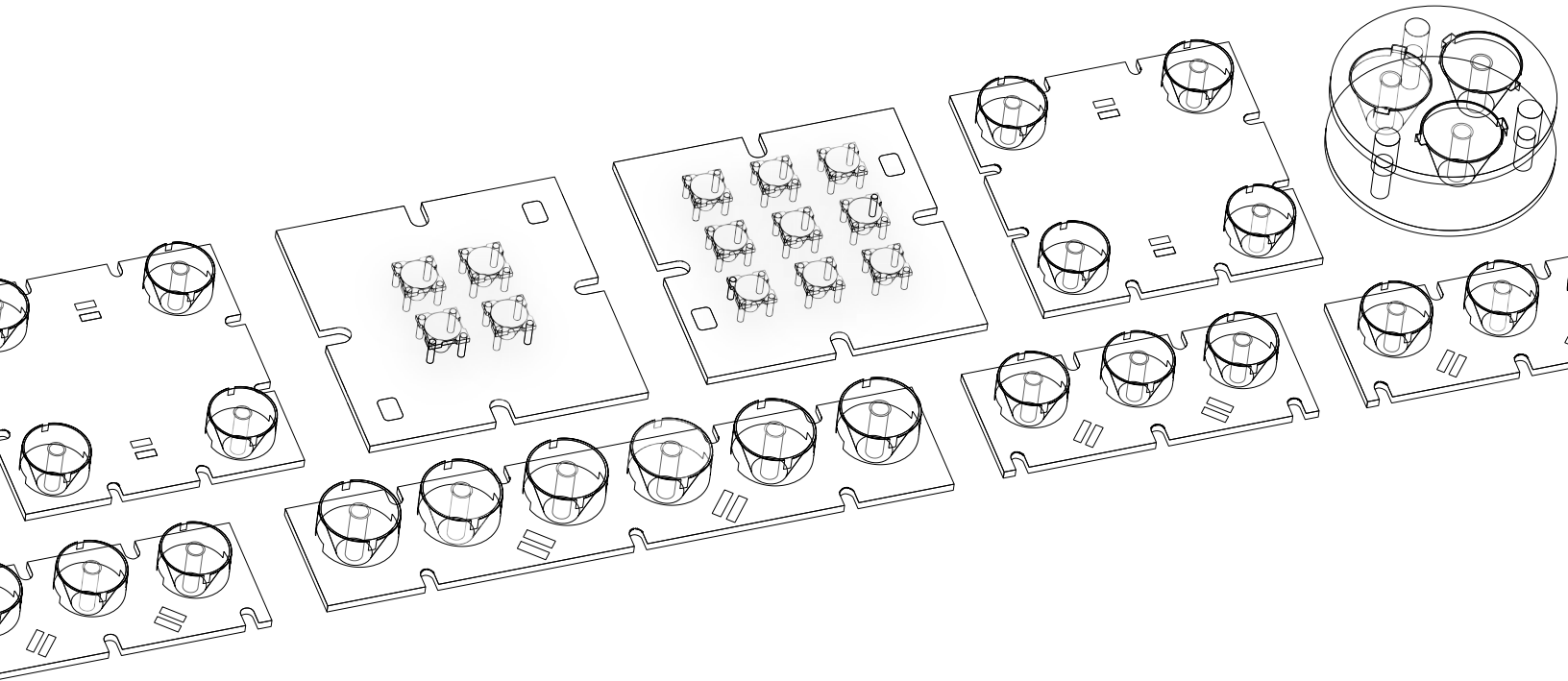


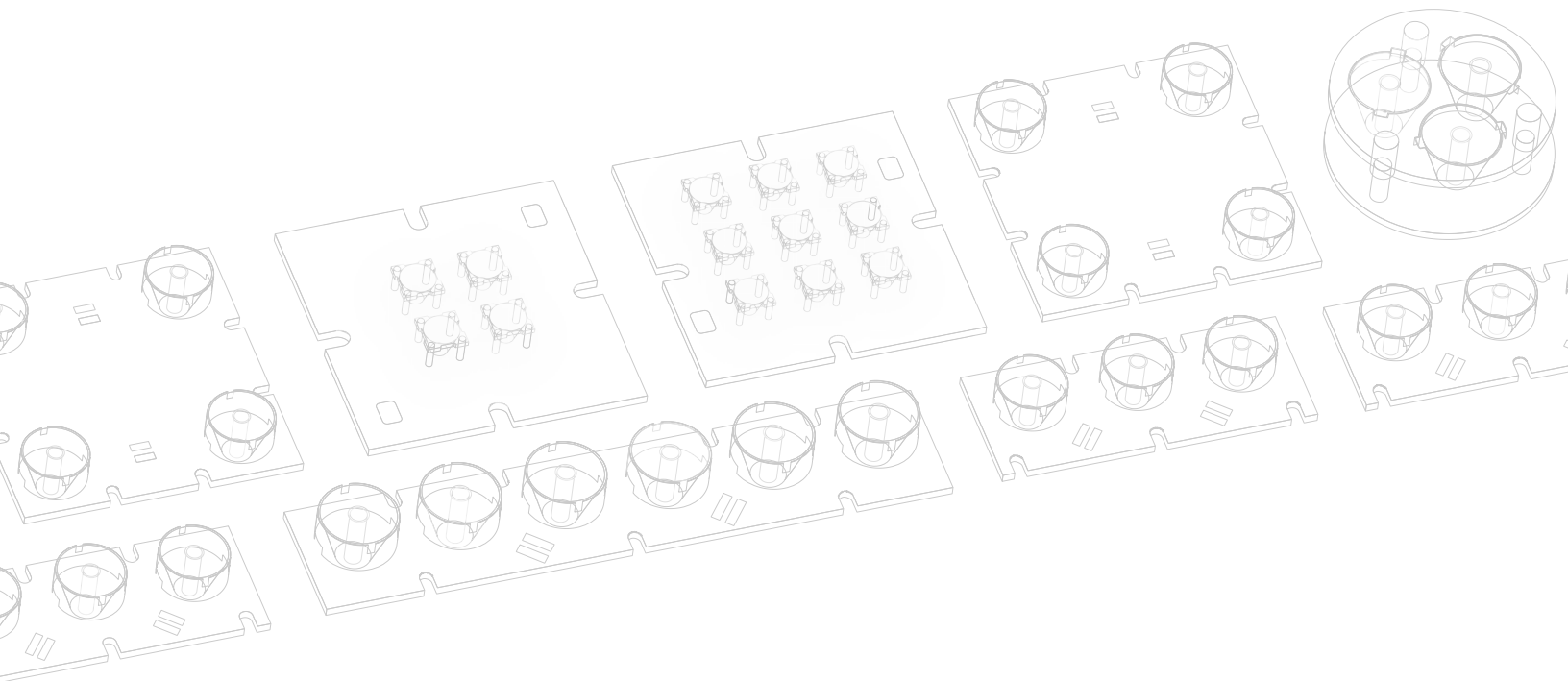
simpleLED[®]

Solutions Guide



November 2010






simpleLED Stocking Guide	
Circular.....	3
Linear.....	4
Square.....	5
simpleLED Configuration Guide	
Circular.....	6
Linear.....	7
Square.....	8
Cable Assembly.....	9
simpleLED Driver Guide*.....	10
simpleLED Light Output & Thermal Guide	
Circular options @350mA.....	11
Circular options @700mA.....	12
Linear options @350mA.....	13
Linear options @700mA.....	14
Square options @350mA.....	15
Square options @700mA.....	16
Philips LED Licensing Program.....	17
Important Links.....	19



Series	# LEDs	CCT	Flux @350mA ¹	Flux @700mA ¹	Connector	Optics	Manufacturer Part#	LED Series
45mm Diameter  05711R	3 LED	5500K	364lm	644lm	CT-Connector	No Optics	05711R999960200CXXX	LXML-PWC2 Rebel ES
		4100K	348lm	612lm	CT-Connector	No Optics	05711R777760200CXXX	LXML-PWN2 Rebel ES
		3500K	233lm	391lm	Solder Pads	No Optics	05711R888880067NXXX	LXM3-PW61 ANSI-Spec
		3000K	247lm	418lm	CT-Connector	No Optics	05711R888880075CXXX	LXM8-PW30 ANSI-Micro Spec
		3000K	247lm	418lm	CT-Connector	Tri-Lens Wide Frosted 35°	05711R888880075CBEH	
		3000K	224lm	376lm	CT-Connector	Tri-Lens Wide Frosted 35°	05711R888880066CBEH	LXM3-PW71 ANSI-Spec
		3000K	224lm	376lm	CT-Connector	No Optics	05711R888880066CXXX	
		3000K	224lm	376lm	Solder Pads	No Optics	05711R888880066NXXX	
45mm Diameter  05712R	6 LED	5500K	727lm	1300lm	CT-Connector	No Optics	05712R999960200CXXX	LXML-PWC2 Rebel ES
		4100K	695lm	1240lm	CT-Connector	No Optics	05712R777760200CXXX	LXML-PWN2 Rebel ES
		4000K	496lm	848lm	CT-Connector	10mm Wide Frosted 39°	05712R777780075CAXH	LXM3-PW51 ANSI-Spec
		3500K	466lm	798lm	CT-Connector	No Optics	05712R888880067CXXX	LXM3-PW61 ANSI-Spec
			466lm	798lm	Solder Pads	No Optics	05712R888880067NXXX	
		3000K	493lm	846lm	CT-Connector	No Optics	05712R888880075CXXX	LXM8-PW30 ANSI-Micro Spec
		3000K	448lm	767lm	Solder Pads	No Optics	05712R888880066NXXX	LXM3-PW71 ANSI-Spec
75mm Diameter  05713R	9 LED	5500K	1110lm	1938lm	CT-Connector	No Optics	05713R999960200CXXX	LXML-PWC2 Rebel ES
		5500K	968lm	1532lm	CT-Connector	No Optics	05713R9999XX100CXXX	LXML-PWC1-0100 General Purpose
		4100k	1072lm	1843lm	CT-Connector	No Optics	05713R777760200CXXX	LXML-PWN2 Rebel ES
		3500K	708lm	1189lm	CT-Connector	10mm Medium Frosted 22°	05713R888880067CAXF	LXM3-PW61 ANSI-Spec
		3000K	752lm	1259lm	CT-Connector	No Optics	05713R888880075CXXX	LXM8-PW30 ANSI-Micro Spec
		3000K	682lm	1143lm	CT-Connector	No Optics	05713R888880066CXXX	LXM3-PW71 ANSI-Spec

¹ Light Output measured at ambient 25°C in an open air environment with optimized heatsink. Please refer to simpleLED Light Output and Thermal Guide for off-the-shelf heatsink part numbers. Does not include optical losses.

For More Information on simpleLED go to:
www.FutureLightingSolutions.com

Series	# LEDs	CCT	Flux @350mA ¹	Flux @700mA ¹	Connector	Optics	Manufacturer Part#	LED Series
50x25mm  05700R	1 LED	4000K	80lm	147lm	CT-Connector	20mm Medium Frosted 19°	05700R777780075CBBF	LXM3-PW51 ANSI-Spec
		4000K	80lm	147lm		20mm Wide Frosted 35°	05700R777780075CBBH	
75x30mm  05704R	3 LED	5500K	318lm	494lm	CT-Connector	No Optics	05704R9999XX100CXXX	LXML-PWC1-0100 General Purpose
		3000K	248lm	421lm	CT-Connector	No Optics	05704R888880075CXXX	LXM8-PW30 ANSI-Micro Spec
		3000K	225lm	382lm	CT-Connector	20mm Medium Frosted 19°	05704R888880066CBBF	LXM3-PW71 ANSI-Spec
		3000K	225lm	382lm	CT-Connector	No Optics	05704R888880066CXXX	LXM3-PW71 ANSI-Spec
		2700K	233lm	396lm	CT-Connector	No Optics	05704R888880070CXXX	LXM8-PW27 ANSI-Micro Spec
150x25mm  05701R	3 LED	3500K	234lm	396lm	CT-Connector	20mm Wide Frosted 35°	05701R888880067CBBH	LXM3-PW61 ANSI-Spec
		3500K	234lm	396lm	Solder Pads	No Optics	05701R888880067NXXX	LXM3-PW61 ANSI-Spec
		3000K	249lm	420lm	CT-Connector	No Optics	05701R888880075CXXX	LXM8-PW30 ANSI-Micro Spec
		3000K	225lm	381lm	Solder Pads	No Optics	05701R888880066NXXX	LXM3-PW71 ANSI-Spec
		2700K	234lm	395lm	CT-Connector	No Optics	05701R888880070CXXX	LXM8-PW27 ANSI-Micro Spec
150x30mm  05705R	6 LED	5500K	629lm	1009lm	CT-Connector	No Optics	05705R9999XX100CXXX	LXML-PWC1-0100 General Purpose
		3500K	462lm	781lm	CT-Connector	10mm Medium Frosted 22°	05705R888880067CAXF	LXM3-PW61 ANSI-Spec
		3000K	444lm	751lm	CT-Connector	No Optics	05705R888880066CXXX	LXM3-PW71 ANSI-Spec
300x25mm  05702R	6 LED	5500K	728lm	1296lm	CT-Connector	No Optics	05702R999960200CXXX	LXML-PWC2 Rebel ES
		5500K	632lm	1026lm	CT-Connector	No Optics	05702R9999XX100CXXX	LXML-PWC1-0100 General Purpose
		4100K	696lm	1234lm	CT-Connector	No Optics	05702R777760200CXXX	LXML-PWN2 Rebel ES
		4000K	494lm	845lm	CT-Connector	10mm Wide Frosted 39°	05702R777780075CAXH	LXM3-PW51 ANSI-Spec
		3500K	464lm	794lm	Solder Pads	No Optics	05702R888880067NXXX	LXM3-PW61 ANSI-Spec
		3000K	493lm	843lm	CT-Connector	No Optics	05702R888880075CXXX	LXM8-PW30 ANSI-Micro Spec
		3000K	447lm	762lm	Solder Pads	No Optics	05702R888880066NXXX	LXM3-PW71 ANSI-Spec
		3000K	447lm	762lm	CT-Connector	No Optics	05702R888880066CXXX	LXM3-PW71 ANSI-Spec
		2700K	464lm	792lm	CT-Connector	No Optics	05702R888880070CXXX	LXM8-PW27 ANSI-Micro Spec

1. Light Output measured at ambient 25°C in an open air environment with optimized heatsink.
Please refer to simpleLED Light Output and Thermal Guide for off-the-shelf heatsink part numbers. Does not include optical losses.





For More Information on simpleLED go to:
www.FutureLightingSolutions.com

Series	# LEDs	CCT	Flux @350mA	Flux @700mA	Connector	Optics	Manufacturer Part#	LED Series
50x50mm  05707R	4 LED	4100K	461lm	819lm	CT-Connector	No Optics	05707R777760200CXXX	LXML-PWN2 Rebel ES
		3000K	327lm	560lm	CT-Connector		05707R888880075CXXX	LXM8-PW30 ANSI-Micro Spec
		3000K	296lm	506lm	CT-Connector	10mm Wide Frosted 39°	05707R888880066CAXH	LXM3-PW71 ANSI-Spec
75x75mm  05703R	4 LED	4000K	333lm	570lm	CT-Connector	20mm Wide Frosted 35°	05703R777780075CBBF	LXM3-PW51 ANSI-Spec
50x50mm  05708R	9 LED	3000K	657lm	1143lm	CT-Connector	10mm Medium Frosted 22°	05708R888880067CAXF	LXM3-PW71 ANSI-Spec
75x75mm  05706R	9 LED	4100K	1028lm	1852lm	CT-Connector	No Optics	05706R777760200CXXX	LXML-PWN2 Rebel ES
		4000K	731lm	1264lm	CT-Connector	20mm Wide Frosted 35°	05706R777780075CBBH	LXM3-PW51 ANSI-Spec
		3500K	687lm	1189lm	CT-Connector	No Optics	05706R888880067CXXX	LXM3-PW61 ANSI-Spec
		3000K	731lm	1264lm	CT-Connector	No Optics	05706R888880075CXXX	LXM8-PW30 ANSI-Micro Spec

1. Light Output measured at ambient 25°C in an open air environment with optimized heatsink.

Please refer to simpleLED Light Output and Thermal Guide for off-the-shelf heatsink part numbers. Does not include optical losses.

For More Information on simpleLED go to:
www.FutureLightingSolutions.com

LED Count	Form Factor	CCT	Connectors	Optics	
CIRCULAR	3	<p>45mm</p>  <p>Series 05711R</p>	<p>ANSI-Spec 2700K 888880065 3000K 888880066 3500K 888880067 4000K 777780075</p> <p>or</p> <p>ANSI-Micro Bin 2700K 888880070 3000K 888880075</p> <p>or</p> <p>General Purpose <i>100lm</i> 4100K 7777XX100 5500K 9999XX100</p>	 <p>mini-CT Connector C</p> <p>or</p> <p>Solder Pads Only N</p>	<p>10mm optic medium plain AXE 18° medium frosted AXF 22° wide frosted AXH 39°</p> <p>or</p> <p>tri-lens optic & holder narrow frosted BED 12° medium frosted BEF 19° wide frosted BEH 35°</p> <p>or</p> <p>no optics XXX</p>
	6	<p>45mm</p>  <p>Series 05712R</p>	<p><i>120lm</i> 4100K 7777XX120 5500K 9999XX120</p>		<p>10mm optic medium plain AXE 18° medium frosted AXF 22° wide frosted AXH 39°</p>
	9	<p>75mm</p>  <p>Series 05713R</p>	<p>or</p> <p>LUXEON Rebel ES 4100K 777760200 5500K 999960200</p>		<p>or</p> <p>no optics XXX</p>










BUILDING A PART NUMBER

Example: Circular, 45mm, 6 LEDs, 2700K, mini-CT connector, medium frosted tri-lens

Part number: **05712R888880065CBEF**

Don't forget to purchase your cable assemblies!

Note: 1. Verify inventory availability of light engines currently in stock.
2. Required accessories: the cable assemblies, and LED drivers.

LED Count	Form Factor	CCT	Connectors	Optics
LINEAR	1  50 x 25 (L x W) Series 05700R	ANSI-Spec 2700K 888880065 3000K 888880066 3500K 888880067 4000K 777780075	 CT Connector C or Solder Pads Only N	 10mm optic medium plain AXE 18° medium frosted AXE 22° wide frosted AXH 39° or 20mm optic & holder narrow frosted BBD 12° medium frosted BBF 19° wide frosted BBH 35° or  20mm optic ultra-wide frosted (120°) DXR or  no optics XXX
	3  75 x 30 (L x W) Series 05704R	ANSI-Micro Bin 2700K 888880070 3000K 888880075		
	150 x 25 (L x W)  Series 05701R	General Purpose <i>100lm</i> 4100K 7777XX100 5500K 9999XX100		
	150 x 30 (L x W)  Series 05705R	<i>120lm</i> 4100K 7777XX120 5500K 9999XX120		
	6 300 x 25 (L x W)  Series 05702R	LUXEON Rebel ES 4100K 777760200 5500K 999960200		

BUILDING A PART NUMBER

Example: Linear, 150 x 25, 3 LEDs, 3500K, CT connector, 10mm medium frosted optics











Part number: 05701R888880067CAXF

Don't forget to purchase your cable assemblies!

Note: 1. Verify inventory availability of light engines currently in stock.
2. Required accessories: the cable assemblies, and LED drivers.

simpleLED Configuration Guide

Square

LED Count	Form Factor	CCT	Connectors	Optics
SQUARE	4 50mm x 50mm  Series 05707R	ANSI-Spec 2700K 888880065 3000K 888880066 3500K 888880067 4000K 777780075	 mini-CT Connector C	 10mm optic medium plain AXE 18° medium frosted AXE 22° wide frosted AXH 39°
	9 50mm x 50mm  Series 05708R	or ANSI-Micro Bin 2700K 888880070 3000K 888880075	or Solder Pads Only N	or no optics XXX
	4 75mm x 75mm  Series 05703R	or General Purpose 100lm 4100K 7777XX100 5500K 9999XX100	 CT Connector C	 10mm optic medium plain AXE 18° medium frosted AXE 22° wide frosted AXH 39°
	9 75mm x 75mm  Series 05706R	120lm 4100K 7777XX120 5500K 9999XX120 or LUXEON Rebel ES 4100K 777760200 5500K 999960200	or Solder Pads Only N	or  20mm optic & holder narrow frosted BBD 12° medium frosted BBE 19° wide frosted BBH 35° or  20mm optic ultra-wide frosted (120°) DXR or no optics XXX

BUILDING A PART NUMBER

Example: Square, 75 x 75, 9 LEDs, 3000K, CT connector, 20mm medium frosted optic













Part number: 05706R888880066CBBF

Don't forget to purchase your cable assemblies!

Note: 1. Verify inventory availability of light engines currently in stock.
2. Required accessories: the cable assemblies, and LED drivers.

simpleLED Configuration Guide

Cable Assembly

	LIGHT ENGINE FORM FACTOR				DRIVER TYPE	CONNECTIVITY OPTIONS (PART #)			
	IMAGE	LED COUNT	SIZE (mm)	SERIES #		BOARD CONNECTOR	DRIVER TO LIGHT ENGINE	LIGHT ENGINE TO LIGHT ENGINE	
CABLE ASSEMBLY	LINEAR								
		1	50 x 25	05700R	CT	LED Driver with Leads		1969336-3 (300mm)* (CT single end)	
		3	75 x 30	05704R					
		3	150 x 25	05701R	CT	LED Driver with CT Connector		1969343-5 (150mm) 1969343-6 (300mm) (CT to CT)	
		6	150 x 30	05705R					
		6	300 x 25	05702R					
	CIRCULAR								
		3	45	05711R	mini-CT	LED Driver with Leads or LED Driver with CT Connector		1969341-2 (150mm)* 1969341-3 (300mm)* (mini-CT single end)	N/A
		6	45	05712R	mini-CT				
		9	57	05713R					
	SQUARE								
		4	50 x 50	05707R	mini-CT	LED Driver with Leads		1969341-2 (150mm)* 1969341-3 (300mm)* (mini-CT single end)	
		9	75 x 75	05706R	mini-CT	LED Driver with CT Connector			
		4	75 x 75	05703R	CT	LED Driver with Leads		1969336-3 (300mm)* (CT single end)	
		9	50 x 50	05708R	CT	LED Driver with CT Connector		1969343-5 (150mm) 1969343-6 (300mm) (CT to CT)	

*Splicing Wire connector (WAGO #222-412/K194-4045-L2)

Recommended to couple leads from an LED driver with leads from a cable assembly from the Light engine



Driver options @ 350mA

TOTAL LED QTY**	Choice 1		Choice 2	
	Part #	Description	Part #	Description
1	LEDUNIA0350C12F	120-240 Vac Philips Lighting 12 V 4 W - 350 mA	901001350U	100-240 Vac Lightech 4 V 1 W - 350 mA
2	LEDUNIA0350C12F	120-240 Vac Philips Lighting 12 V 4 W - 350 mA	901004350U	100-240 Vac Lightech 14 V 4 W - 350 mA
3	LEDUNIA0350C12F	120-240 Vac Philips Lighting 12 V 4 W - 350 mA	901004350U	100-240 Vac Lightech 14 V 4 W - 350 mA
4	LED120A0350C33F	120 Vac Philips Lighting 33 V 12 W - 350 mA	LPC-20-350	90-264 Vac MEAN WELL 48 V 17 W - 350 mA
5	LED120A0350C33F	120 Vac Philips Lighting 33 V 12 W - 350 mA	LPC-20-350	90-264 Vac MEAN WELL 48 V 17 W - 350 mA
6	LED120A0350C33F	120 Vac Philips Lighting 33 V 12 W - 350 mA	LPC-20-350	90-264 Vac MEAN WELL 48 V 17 W - 350 mA
7	LED120A0350C33F	120 Vac Philips Lighting 33 V 12 W - 350 mA	LPC-20-350	90-264 Vac MEAN WELL 48 V 17 W - 350 mA
8	LED120A0350C33F	120 Vac Philips Lighting 33 V 12 W - 350 mA	LPC-20-350	90-264 Vac MEAN WELL 48 V 17 W - 350 mA
9	LED120A0350C33F	120 Vac Philips Lighting 33 V 12 W - 350 mA	LPC-20-350	90-264 Vac MEAN WELL 48 V 17 W - 350 mA
10	901018350PU	120-277 Vac Lightech 52 V 18 W - 350 mA	LPC-20-350	90-264 Vac MEAN WELL 48 V 17 W - 350 mA
11	901018350PU	120-277 Vac Lightech 52 V 18 W - 350 mA	LPC-20-350	90-264 Vac MEAN WELL 48 V 17 W - 350 mA
12	901018350PU	120-277 Vac Lightech 52 V 18 W - 350 mA	LPC-20-350	90-264 Vac MEAN WELL 48 V 17 W - 350 mA
13	901018350PU	120-277 Vac Lightech 52 V 18 W - 350 mA	LPC-20-350	90-264 Vac MEAN WELL 48 V 17 W - 350 mA
14	901018350PU	120-277 Vac Lightech 52 V 18 W - 350 mA	901018350PU	120-277 Vac Lightech 52 V 18 W - 350 mA

Driver options @ 700mA


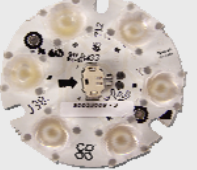
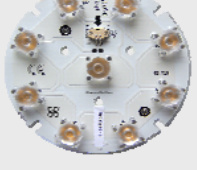
TOTAL LED QTY**	Choice 1		Choice 2	
	Part #	Description	Part #	Description
1	LEDUNIA0700C12F	120-230 Vac Philips Lighting 12 V 8 W - 700 mA	901006701U	120-240 Vac Lightech 10 V 6 W - 700 mA
2	LEDUNIA0700C12F	120-230 Vac Philips Lighting 12 V 8 W - 700 mA	901006701U	120-240 Vac Lightech 10 V 6 W - 700 mA
3	LEDUNIA0700C12F	120-230 Vac Philips Lighting 12 V 8 W - 700 mA	LED120A0700C28FO	120 Vac Philips Lighting 28 V 20 W - 700 mA
4	LED120A0700C24F	120 Vac Philips Lighting 24 V 17 W - 700 mA	LPC-20-700	90-264 Vac MEAN WELL 30 V 21 W - 700 mA
5	LED120A0700C24F	120 Vac Philips Lighting 24 V 17 W - 700 mA	LPC-20-700	90-264 Vac MEAN WELL 30 V 21 W - 700 mA
6	LED120A0700C24F	120 Vac Philips Lighting 24 V 17 W - 700 mA	LPC-20-700	90-264 Vac MEAN WELL 30 V 21 W - 700 mA
7	LED120A0700C28FO	120 Vac Philips Lighting 28 V 20 W - 700 mA	LPC-20-700	90-264 Vac MEAN WELL 30 V 21 W - 700 mA
8	901036700PU	120-277 Vac Lightech 52 V 36 W - 700 mA	LPC-35-700	90-264 Vac MEAN WELL 48 V 34 W - 700 mA
9	901036700PU	120-277 Vac Lightech 52 V 36 W - 700 mA	LPC-35-700	90-264 Vac MEAN WELL 48 V 34 W - 700 mA
10	901036700PU	120-277 Vac Lightech 52 V 36 W - 700 mA	LPC-35-700	90-264 Vac MEAN WELL 48 V 34 W - 700 mA
11	901036700PU	120-277 Vac Lightech 52 V 36 W - 700 mA	LPC-35-700	90-264 Vac MEAN WELL 48 V 34 W - 700 mA
12	901036700PU	120-277 Vac Lightech 52 V 36 W - 700 mA	LPC-35-700	90-264 Vac MEAN WELL 48 V 34 W - 700 mA
13	901036700PU	120-277 Vac Lightech 52 V 36 W - 700 mA	913701213402	120-277 Vac Philips (Fortimo) 56 V 39 W - 700 mA
14	901036700PU	120-277 Vac Lightech 52 V 36 W - 700 mA	913701213402	120-277 Vac Philips (Fortimo) 56 V 39 W - 700 mA

* Specifications may change at any time. Only for suggestion. More options available. Contact Future Lighting Solutions for more information.

** Total # of LEDs in series used in the system. Including multiple LED boards connected together. Refer to Philips Lumileds AB32 for electrical Isolation Considerations

For More Information on simpleLED go to:
www.FutureLightingSolutions.com

simpleLED Light Output & Thermal Guide Circular @ 350mA

# LEDs	simpleLED Series	LED Series	CCT	CRI	LED Flux ⁽¹⁾ (lm) Min/Typ.	Light Output ⁽²⁾ 350mA / Tj	Typical Vf (V)	Total Watts ⁽³⁾	lm/W	Heat Sink AAVID # / LxWxH			
Circular 3	45mm Diameter 	LXM3-PW81	2700K	80	65 / 73	212lm / 71°C	3.00	3.15	67	799303B01799G 45.7 x 45.7 x 7 (mm)			
		LXM8-PW27			70 / 80	232lm / 74°C			74				
		LXM3-PW71	3000K		66 / 77	224lm / 71°C			71				
		LXM8-PW30			75 / 85	247lm / 73°C			78				
		LXM3-PW61	3500K		67 / 80	233lm / 70°C			74				
		LXM3-PW51	4000K		75 / 85	248lm / 69°C			79				
		LXML-PWN1-0100	4100K		-	100 / 110			308lm / 69°C		3.00	3.15	98
		LXML-PWN1-0120			-	120 / 130			352lm / 66°C		3.00	3.15	112
		LXML-PWN2	60		200 / 220 ⁽⁴⁾	348lm / 61°C			2.85		2.99	116	
	LXML-PWC1-0100	5500K	-	100 / 110	316lm / 68°C	3.00	3.15	100					
	LXML-PWC1-0120		-	120 / 130	364lm / 65°C	3.00	3.15	116					
	LXML-PWC2		60	200 / 225 ⁽⁴⁾	364lm / 60°C	2.85	2.99	122					
	6	45mm Diameter 	LXM3-PW81	2700K	80	65 / 73	425lm / 70°C	3.00	6.30		67	646353B01799G 45.7 x 45.7 x 16.3 (mm)	
			LXM8-PW27			70 / 80	463lm / 75°C				73		
			LXM3-PW71	3000K		66 / 77	448lm / 70°C				71		
			LXM8-PW30			75 / 85	493lm / 75°C				78		
			LXM3-PW61	3500K		67 / 80	466lm / 69°C				74		
			LXM3-PW51	4000K		75 / 85	496lm / 69°C				79		
LXML-PWN1-0100		4100K	-	100 / 110		613lm / 70°C	3.00			6.30	97		
LXML-PWN1-0120			-	120 / 130		701lm / 68°C	3.00			6.30	111		
LXML-PWN2		60	200 / 220 ⁽⁴⁾	695lm / 62°C		2.85	5.99			116			
LXML-PWC1-0100		5500K	-	100 / 110		631lm / 70°C	3.00			6.30	100		
LXML-PWC1-0120			-	120 / 130		720lm / 67°C	3.00			6.30	114		
LXML-PWC2			60	200 / 225 ⁽⁴⁾		727lm / 61°C	2.85			5.99	121		
9	75mm Diameter 	LXM3-PW81	2700K	80	65 / 73	646lm / 53°C	3.00	9.45	54	739253B02886G 73.3 x 73.3 x 25.4 (mm)			
		LXM8-PW27			70 / 80	708lm / 54°C			59				
		LXM3-PW71	3000K		66 / 77	682lm / 53°C			57				
		LXM8-PW30			75 / 85	752lm / 53°C			62				
		LXM3-PW61	3500K		67 / 80	708lm / 52°C			59				
		LXM3-PW51	4000K		75 / 85	753lm / 52°C			63				
	LXML-PWN1-0100	4100K	-		100 / 110	953lm / 50°C			3.00		9.45	73	
	LXML-PWN1-0120		-		120 / 130	1086lm / 49°C			3.00		9.45	83	
	LXML-PWN2	60	200 / 220 ⁽⁴⁾		1072lm / 45°C	2.85			8.98		98		
	LXML-PWC1-0100	5500K	-		100 / 110	968lm / 50°C			3.00		9.45	76	
	LXML-PWC1-0120		-		120 / 130	1102lm / 49°C			3.00		9.45	87	
	LXML-PWC2		60		200 / 225 ⁽⁴⁾	1110lm / 49°C			2.85		8.98	103	


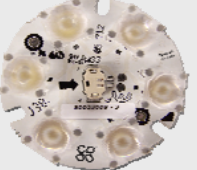

1. LED Flux is based on Philips Lumileds datasheet values @ 350mA with thermal pad temperature @ 25°C.
2. Light Output measured at ambient 25°C in an open air environment. Does not include Optical losses.
3. Total watts does not include LED driver losses.
4. Minimum and typical values @ 700 mA test current

For More Information on simpleLED go to:
www.FutureLightingSolutions.com

Note: Typical Vf used is a conservative estimate and may be slightly lower in actual application.

simpleLED Light Output & Thermal Guide

Circular @ 700mA

# LEDs	simpleLED Series	LED Series	CCT	CRI	LED Flux ⁽¹⁾ (lm) Min/Typ.	Light Output ⁽²⁾ 700mA / Tj	Typical Vf (V)	Total Watts ⁽³⁾	lm/W	Heat Sink AAVID # / LxWxH			
Circular 3	45mm Diameter 	LXM3-PW81	2700K	80	65 / 73	321lm / 95°C	3.20	6.72	48	612153B01846G 46.9 x 46.9 x 31.9 (mm)			
		LXM8-PW27	3000K		70 / 80	393lm / 90°C			58				
		LXM3-PW71			66 / 77	376lm / 94°C			56				
		LXM8-PW30			75 / 85	418lm / 89°C			62				
		LXM3-PW61	3500K		67 / 80	391lm / 94°C			58				
		LXM3-PW51	4000K		75 / 85	416lm / 92°C			62				
		LXML-PWN1-0100	4100K		-	100 / 110			487lm / 86°C		3.20	6.72	72
		LXML-PWN1-0120			-	120 / 130			558lm / 84°C		3.20	6.72	83
		LXML-PWN2			60	200 / 220 ⁽⁴⁾			612lm / 72°C		3.00	6.30	97
	LXML-PWC1-0100	05711R Series	5500K	-	100 / 110	508lm / 85°C	3.20	6.72	76				
	LXML-PWC1-0120		-	120 / 130	580lm / 83°C	3.20	6.72	86					
	LXML-PWC2		60	200 / 225 ⁽⁴⁾	644lm / 70°C	3.00	6.30	102					
	6	45mm Diameter 	LXM3-PW81	2700K	80	65 / 73	727lm / 81°C	3.20	13.44		54	790003B02618G 66.5 x 66.5 x 68.6 (mm)	
			LXM8-PW27	3000K		70 / 80	795lm / 82°C				59		
			LXM3-PW71			66 / 77	767lm / 80°C				57		
			LXM8-PW30			75 / 85	846lm / 81°C				63		
			LXM3-PW61	3500K		67 / 80	798lm / 80°C				59		
			LXM3-PW51	4000K		75 / 85	848lm / 79°C				63		
LXML-PWN1-0100		4100K	-	100 / 110	996lm / 78°C	3.20	13.44	74					
LXML-PWN1-0120			-	120 / 130	1137lm / 76°C	3.20	13.44	85					
LXML-PWN2			60	200 / 220 ⁽⁴⁾	1240lm / 65°C	3.00	12.60	98					
LXML-PWC1-0100		05712R Series	5500K	-	100 / 110	1031lm / 78°C	3.20	13.44	77				
LXML-PWC1-0120			-	120 / 130	1175lm / 76°C	3.20	13.44	87					
LXML-PWC2			60	200 / 225 ⁽⁴⁾	1300lm / 64°C	3.00	12.60	103					
9	75mm Diameter 	LXM3-PW81	2700K	80	65 / 73	1083lm / 86°C	3.20	20.16	54	739253B02886G 73.3 x 73.3 x 25.4 (mm)			
		LXM8-PW27	3000K		70 / 80	1184lm / 88°C			59				
		LXM3-PW71			66 / 77	1143lm / 85°C			57				
		LXM8-PW30			75 / 85	1259lm / 87°C			62				
		LXM3-PW61	3500K		67 / 80	1189lm / 85°C			59				
		LXM3-PW51	4000K		75 / 85	1264lm / 84°C			63				
	LXML-PWN1-0100	4100K	-	100 / 110	1472lm / 84°C	3.20	20.16	73					
	LXML-PWN1-0120		-	120 / 130	1683lm / 82°C	3.20	20.16	83					
	LXML-PWN2		60	200 / 220 ⁽⁴⁾	1843lm / 70°C	3.00	18.90	98					
	LXML-PWC1-0100	05713R Series	5500K	-	100 / 110	1532lm / 83°C	3.20	20.16	76				
	LXML-PWC1-0120		-	120 / 130	1748lm / 81°C	3.20	20.16	87					
	LXML-PWC2		60	200 / 225 ⁽⁴⁾	1938lm / 69°C	3.00	18.90	103					






1. LED Flux is based on Philips Lumileds datasheet values @ 350mA with thermal pad temperature @ 25°C.
2. Light Output measured at ambient 25°C in an open air environment. Does not include Optical losses.
3. Total watts does not include LED driver losses.
4. Minimum and typical values @ 700 mA test current

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Note: Typical Vf used is a conservative estimate and may be slightly lower in actual application.

simpleLED Light Output & Thermal Guide

Linear @ 350mA

# LEDs	simpleLED Series	LED Series	CCT	CRI	LED Flux ⁽¹⁾ (lm) Min/Typ.	Light Output ⁽²⁾ 350mA / Tj	Typical Vf (V)	Total Watts ⁽³⁾	lm/W	Heat Sink AAVID # / LxWxH			
1	50mm x 25mm (LxW) 	LXM3-PW81	2700K	80	65 / 73	72lm / 58°C	3.00	1.05	69	615203B01969G 50 x 20.6 x 11.4 (mm)			
		LXM8-PW27	2700K		70 / 80	78lm / 58°C			74				
		LXM3-PW71	3000K		66 / 77	75lm / 58°C			71				
		LXM8-PW30	3000K		75 / 85	83lm / 57°C			79				
		LXM3-PW61	3500K		67 / 80	78lm / 57°C			74				
		LXM3-PW51	4000K		75 / 85	83lm / 57°C			79				
		LXML-PWN1-0100	-		100 / 110	105lm / 54°C			3.00		1.05	100	
		LXML-PWN1-0120	4100K		-	120 / 130			120lm / 53°C		3.00	1.05	114
		LXML-PWN2	60		200 / 220 ⁽⁴⁾	118lm / 48°C			2.85		1.00	118	
	05700R Series	LXML-PWC1-0100	-	100 / 110	107lm / 54°C	3.00	1.05	102					
		LXML-PWC1-0120	5500K	-	120 / 130	122lm / 52°C	3.00	1.05	116				
		LXML-PWC2	60	200 / 225 ⁽⁴⁾	123lm / 48°C	2.85	1.00	123					
		3	75mm x 30mm (LxW) 	LXM3-PW81	2700K	80	65 / 73	213lm / 69°C	3.00		3.15	68	700353B02953G 75 x 27.9 x 8.9 (mm)
				LXM8-PW27	2700K		70 / 80	233lm / 68°C				74	
				LXM3-PW71	3000K		66 / 77	225lm / 68°C				71	
				LXM8-PW30	3000K		75 / 85	248lm / 68°C				79	
				LXM3-PW61	3500K		67 / 80	233lm / 68°C				74	
				LXM3-PW51	4000K		75 / 85	248lm / 67°C				79	
LXML-PWN1-0100	-			100 / 110	311lm / 63°C		3.00	3.15		99			
LXML-PWN1-0120	4100K			-	120 / 130		355lm / 63°C	3.00		3.15		113	
LXML-PWN2	60			200 / 220 ⁽⁴⁾	351lm / 56°C		2.85	2.99		117			
05704R Series	LXML-PWC1-0100		-	100 / 110	318lm / 63°C	3.00	3.15	101					
	LXML-PWC1-0120		5500K	-	120 / 130	363lm / 61°C	3.00	3.15	115				
	LXML-PWC2		60	200 / 225 ⁽⁴⁾	366lm / 55°C	2.85	2.99	122					
	6		150mm x 25mm (LxW) 	LXM3-PW81	2700K	80	65 / 73	213lm / 66°C	3.00	3.15	68	619953B05906G 150 x 18.9 x 6.1 (mm)	
				LXM8-PW27	2700K		70 / 80	234lm / 65°C			74		
				LXM3-PW71	3000K		66 / 77	225lm / 65°C			71		
				LXM8-PW30	3000K		75 / 85	249lm / 65°C			79		
				LXM3-PW61	3500K		67 / 80	234lm / 65°C			74		
				LXM3-PW51	4000K		75 / 85	249lm / 64°C			79		
LXML-PWN1-0100		-		100 / 110	312lm / 61°C		3.00	3.15			99		
LXML-PWN1-0120		4100K		-	120 / 130		356lm / 59°C	3.00			3.15		113
LXML-PWN2		60		200 / 220 ⁽⁴⁾	352lm / 54°C		2.85	2.99			118		
05701R Series		LXML-PWC1-0100	-	100 / 110	319lm / 61°C	3.00	3.15	101					
		LXML-PWC1-0120	5500K	-	120 / 130	364lm / 59°C	3.00	3.15	116				
		LXML-PWC2	60	200 / 225 ⁽⁴⁾	367lm / 53°C	2.85	2.99	123					
		6	150mm x 30mm (LxW) 	LXM3-PW81	2700K	80	65 / 73	421lm / 80°C	3.00	6.30	67		70035B05906G 150 x 18.9 x 6.1 (mm)
				LXM8-PW27	2700K		70 / 80	462lm / 78°C			73		
				LXM3-PW71	3000K		66 / 77	444lm / 79°C			70		
				LXM8-PW30	3000K		75 / 85	491lm / 77°C			78		
				LXM3-PW61	3500K		67 / 80	462lm / 78°C			73		
				LXM3-PW51	4000K		75 / 85	491lm / 77°C			78		
LXML-PWN1-0100	-			100 / 110	610lm / 73°C		3.00	6.30			97		
LXML-PWN1-0120	4100K			-	120 / 130		697lm / 70°C	3.00			6.30	111	
LXML-PWN2	60			200 / 220 ⁽⁴⁾	692lm / 65°C		2.85	5.99			116		
05705R Series	LXML-PWC1-0100		-	100 / 110	629lm / 72°C	3.00	6.30	100					
	LXML-PWC1-0120		5500K	-	120 / 130	717lm / 69°C	3.00	6.30	114				
	LXML-PWC2		60	200 / 225 ⁽⁴⁾	725lm / 64°C	2.85	5.99	121					
	6		300mm x 25mm (LxW) 	LXM3-PW81	2700K	80	65 / 73	423lm / 71°C	3.00	6.30	67	634553B11811G 300 x 30.1 x 6.6 (mm)	
				LXM8-PW27	2700K		70 / 80	464lm / 74°C			74		
				LXM3-PW71	3000K		66 / 77	447lm / 74°C			71		
				LXM8-PW30	3000K		75 / 85	493lm / 73°C			78		
				LXM3-PW61	3500K		67 / 80	464lm / 73°C			74		
				LXM3-PW51	4000K		75 / 85	494lm / 72°C			78		
LXML-PWN1-0100		-		100 / 110	615lm / 69°C		3.00	6.30			98		
LXML-PWN1-0120		4100K		-	120 / 130		703lm / 66°C	3.00			6.30		112
LXML-PWN2		60		200 / 220 ⁽⁴⁾	696lm / 61°C		2.85	5.99			116		
05702R Series		LXML-PWC1-0100	-	100 / 110	632lm / 68°C	3.00	6.30	100					
		LXML-PWC1-0120	5500K	-	120 / 130	721lm / 66°C	3.00	6.30	114				
		LXML-PWC2	60	200 / 225 ⁽⁴⁾	728lm / 60°C	2.85	5.99	122					






1. LED Flux is based on Philips Lumileds datasheet values @ 350mA with thermal pad temperature @ 25°C.
2. Light Output measured at ambient 25°C in an open air environment. Does not include Optical losses.
3. Total watts does not include LED driver losses.
4. Minimum and typical values @ 700 mA test current

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Note: Typical Vf used is a conservative estimate and may be slightly lower in actual application.

simpleLED Light Output & Thermal Guide

Linear @ 700mA

# LEDs	simpleLED Series	LED Series	CCT	CRI	LED Flux ⁽¹⁾ (lm) Min / Typ.	Light Output ⁽²⁾ 700mA / Tj	Typical Vf (V)	Total Watts ⁽³⁾	lm/W	Heat Sink AAVID # / LxWxH			
1	50mm x 25mm (LxW) 	LXM3-PW81	2700K	80	65 / 73	121lm / 80°C	3.20	2.24	54	676053B01969G 50 x 24 x 15 (mm)			
		LXM8-PW27	3000K		70 / 80	133lm / 81°C			59				
		LXM3-PW71			66 / 77	128lm / 79°C			57				
		LXM8-PW30	75 / 85		141lm / 80°C	63							
		LXM3-PW61	3500K		67 / 80	133lm / 79°C			59				
		LXM3-PW51	4000K		75 / 85	147lm / 78°C			66				
	05700R Series	LXML-PWN1-0100	4100K	-	100 / 110	166lm / 77°C	3.20	2.24	74				
		LXML-PWN1-0120		60	200 / 220 ⁽⁴⁾	190lm / 75°C	3.20	2.24	85				
		LXML-PWN2	5500K	-	100 / 110	172lm / 77°C	3.20	2.24	77				
		LXML-PWC1-0120		60	200 / 225 ⁽⁴⁾	217lm / 63°C	3.00	2.10	103				
		3	75mm x 30mm (LxW) 	LXM3-PW81	2700K	80	65 / 73	362lm / 84°C	3.20		6.72	54	652453B02953G 75 x 32 x 41.9 (mm)
				LXM8-PW27	3000K		70 / 80	396lm / 85°C				59	
	LXM3-PW71			66 / 77			382lm / 84°C	57					
	LXM8-PW30			75 / 85	421lm / 84°C		63						
	LXM3-PW61			3500K	67 / 80		397lm / 83°C	59					
	LXM3-PW51			4000K	75 / 85		422lm / 83°C	63					
	05704R Series		LXML-PWN1-0100	4100K	-	100 / 110	494lm / 81°C	3.20	6.72		74		
			LXML-PWN1-0120		60	200 / 220 ⁽⁴⁾	565lm / 79°C	3.20	6.72		84		
LXML-PWN2			5500K	-	100 / 110	617lm / 67°C	3.00	6.30	98				
LXML-PWC1-0100				60	200 / 225 ⁽⁴⁾	513lm / 81°C	3.20	6.72	76				
05701R Series			LXML-PWC1-0120	4100K	-	100 / 110	585lm / 78°C	3.20	6.72	87			
			LXML-PWC2		60	200 / 225 ⁽⁴⁾	648lm / 66°C	3.00	6.30	103			
	6		150mm x 25mm (LxW) 	LXM3-PW81	2700K	80	65 / 73	361lm / 86°C	3.20	6.72	54	625603B05906G 150 x 25.4 x 31.8 (mm)	
				LXM8-PW27	3000K		70 / 80	395lm / 87°C			59		
				LXM3-PW71			66 / 77	381lm / 85°C			57		
				LXM8-PW30	75 / 85		420lm / 86°C	63					
LXM3-PW61				3500K	67 / 80		396lm / 85°C	59					
LXM3-PW51				4000K	75 / 85		421lm / 84°C	63					
05701R Series		LXML-PWN1-0100	4100K	-	100 / 110	492lm / 83°C	3.20	6.72	73				
		LXML-PWN1-0120		60	200 / 220 ⁽⁴⁾	563lm / 81°C	3.20	6.72	84				
		LXML-PWN2	5500K	-	100 / 110	616lm / 69°C	3.00	6.30	98				
		LXML-PWC1-0100		60	200 / 225 ⁽⁴⁾	512lm / 82°C	3.20	6.72	76				
		6	150mm x 30mm (LxW) 	LXM3-PW81	2700K	80	65 / 73	711lm / 95°C	3.20	13.44	53		652453B05906G 150 x 32 x 41.9 (mm)
				LXM8-PW27	3000K		70 / 80	781lm / 94°C			58		
LXM3-PW71				66 / 77			751lm / 95°C	56					
LXM8-PW30				75 / 85	831lm / 93°C		62						
LXM3-PW61				3500K	67 / 80		781lm / 94°C	58					
LXM3-PW51				4000K	75 / 85		831lm / 93°C	62					
05705R Series			LXML-PWN1-0100	4100K	-	100 / 110	963lm / 90°C	3.20	13.44	72			
			LXML-PWN1-0120		60	200 / 220 ⁽⁴⁾	1103lm / 88°C	3.20	13.44	82			
	LXML-PWN2		5500K	-	100 / 110	1214lm / 75°C	3.00	12.60	96				
	LXML-PWC1-0100			60	200 / 225 ⁽⁴⁾	1009lm / 89°C	3.20	13.44	75				
	6		300mm x 25mm (LxW) 	LXM3-PW81	2700K	80	65 / 73	724lm / 84°C	3.20	13.44	54	652453B11811G 300 x 32 x 41.9 (mm)	
				LXM8-PW27	3000K		70 / 80	792lm / 85°C			59		
LXM3-PW71				66 / 77			762lm / 85°C	57					
LXM8-PW30				75 / 85	843lm / 84°C		63						
LXM3-PW61				3500K	67 / 80		794lm / 83°C	59					
LXM3-PW51				4000K	75 / 85		845lm / 82°C	63					
05702R Series			LXML-PWN1-0100	4100K	-	100 / 110	988lm / 81°C	3.20	13.44	74			
			LXML-PWN1-0120		60	200 / 220 ⁽⁴⁾	1130lm / 79°C	3.20	13.44	84			
		LXML-PWN2	5500K	-	100 / 110	1234lm / 67°C	3.00	12.60	98				
		LXML-PWC1-0100		60	200 / 225 ⁽⁴⁾	1026lm / 81°C	3.20	13.44	76				
		05702R Series	LXML-PWC1-0120	4100K	-	100 / 110	1170lm / 78°C	3.20	13.44	87			
			LXML-PWC2		60	200 / 225 ⁽⁴⁾	1296lm / 66°C	3.00	12.60	103			



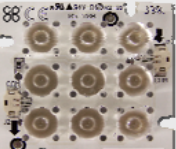

1. LED Flux is based on Philips Lumileds datasheet values @ 350mA with thermal pad temperature @ 25°C.
2. Light Output measured at ambient 25°C in an open air environment. Does not include Optical losses.
3. Total watts does not include LED driver losses.
4. Minimum and typical values @ 700 mA test current

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Note: Typical Vf used is a conservative estimate and may be slightly lower in actual application.

simpleLED Light Output & Thermal Guide

Square @ 350mA


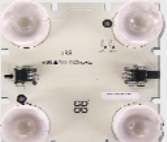
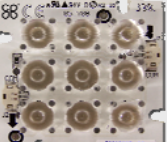

# LEDs	simpleLED Series	LED Series	CCT	CRI	LED Flux ⁽¹⁾ (lm) Min/Typ.	Light Output ⁽²⁾ 350mA / Tj	Typical Vf (V)	Total Watts ⁽³⁾	lm/W	Heat Sink AAVID # / LxWxH			
4	50mm x 50mm (LxW) 	LXM3-PW81	2700K	80	65 / 73	280lm / 80°C	3.00	4.20	67	792003B01299G 33 x 33 x 12.24 (mm)			
		LXM8-PW27	2700K		70 / 80	308lm / 79°C			73				
		LXM3-PW71	3000K		66 / 77	296lm / 80°C			70				
		LXM8-PW30	3000K		75 / 85	327lm / 78°C			78				
		LXM3-PW61	3500K		67 / 80	308lm / 79°C			73				
		LXM3-PW51	4000K		75 / 85	327lm / 78°C			78				
		LXML-PWN1-0100	-		100 / 110	406lm / 74°C			3.00		4.20	97	
		LXML-PWN1-0120	4100K		-	120 / 130			464lm / 71°C		3.00	4.20	110
		LXML-PWN2	60		200 / 220 ⁽⁴⁾	461lm / 65°C			2.85		3.99	116	
		LXML-PWC1-0100	-		100 / 110	419lm / 73°C			3.00		4.20	100	
		LXML-PWC1-0120	5500K		-	120 / 130			478lm / 70°C		3.00	4.20	114
		LXML-PWC2	60		200 / 225 ⁽⁴⁾	483lm / 64°C			2.85		3.99	121	
	75mm x 75mm (LxW) 	LXM3-PW81	2700K	80	65 / 73	285lm / 62°C	3.00	4.20	68	609553B02681G 68.1 x 68.1 x 10.2 (mm)			
		LXM8-PW27	2700K		70 / 80	313lm / 61°C			75				
		LXM3-PW71	3000K		66 / 77	301lm / 62°C			72				
		LXM8-PW30	3000K		75 / 85	333lm / 61°C			79				
		LXM3-PW61	3500K		67 / 80	313lm / 61°C			75				
		LXM3-PW51	4000K		75 / 85	333lm / 61°C			79				
		LXML-PWN1-0100	-		100 / 110	419lm / 57°C			3.00		4.20	100	
		LXML-PWN1-0120	4100K		-	120 / 130			478lm / 55°C		3.00	4.20	114
		LXML-PWN2	60		200 / 220 ⁽⁴⁾	472lm / 51°C			2.85		3.99	118	
		LXML-PWC1-0100	-		100 / 110	427lm / 57°C			3.00		4.20	102	
		LXML-PWC1-0120	5500K		-	120 / 130			487lm / 55°C		3.00	4.20	116
		LXML-PWC2	60		200 / 225 ⁽⁴⁾	491lm / 50°C			2.85		3.99	123	
9	50mm x 50mm (LxW) 	LXM3-PW81	2700K	80	65 / 73	622lm / 90°C	3.00	9.45	66	652453B01299G 32 x 32 x 41.9 (mm)			
		LXM8-PW27	2700K		70 / 80	683lm / 88°C			72				
		LXM3-PW71	3000K		66 / 77	657lm / 89°C			70				
		LXM8-PW30	3000K		75 / 85	727lm / 87°C			77				
		LXM3-PW61	3500K		67 / 80	683lm / 88°C			72				
		LXM3-PW51	4000K		75 / 85	727lm / 87°C			77				
		LXML-PWN1-0100	-		100 / 110	894lm / 82°C			3.00		9.45	95	
		LXML-PWN1-0120	4100K		-	120 / 130			1025lm / 79°C		3.00	9.45	108
		LXML-PWN2	60		200 / 220 ⁽⁴⁾	1021lm / 73°C			2.85		8.98	114	
		LXML-PWC1-0100	-		100 / 110	929lm / 81°C			3.00		9.45	98	
		LXML-PWC1-0120	5500K		-	120 / 130			1062lm / 78°C		3.00	9.45	112
		LXML-PWC2	60		200 / 225 ⁽⁴⁾	1076lm / 71°C			2.85		8.98	120	
	75mm x 75mm (LxW) 	LXM3-PW81	2700K	80	65 / 73	626lm / 86°C	3.00	9.45	67	609553B02681G 68.1 x 68.1 x 10.2 (mm)			
		LXM8-PW27	2700K		70 / 80	687lm / 84°C			74				
		LXM3-PW71	3000K		66 / 77	661lm / 85°C			71				
		LXM8-PW30	3000K		75 / 85	731lm / 83°C			78				
		LXM3-PW61	3500K		67 / 80	687lm / 84°C			74				
		LXM3-PW51	4000K		75 / 85	731lm / 83°C			78				
		LXML-PWN1-0100	-		100 / 110	903lm / 78°C			3.00		9.45	98	
		LXML-PWN1-0120	4100K		-	120 / 130			1034lm / 75°C		3.00	9.45	112
		LXML-PWN2	60		200 / 220 ⁽⁴⁾	1028lm / 69°C			2.85		8.98	116	
		LXML-PWC1-0100	-		100 / 110	935lm / 78°C			3.00		9.45	100	
		LXML-PWC1-0120	5500K		-	120 / 130			1068lm / 74°C		3.00	9.45	114
		LXML-PWC2	60		200 / 225 ⁽⁴⁾	1081lm / 68°C			2.85		8.98	120	

1. LED Flux is based on Philips Lumileds datasheet values @ 350mA with thermal pad temperature @ 25°C.
2. Light Output measured at ambient 25°C in an open air environment. Does not include Optical losses.
3. Total watts does not include LED driver losses.
4. Minimum and typical values @ 700 mA test current

For More Information on simpleLED go to:
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Note: Typical Vf used is a conservative estimate and may be slightly lower in actual application.

simpleLED Light Output @ Thermal Guide Square @ 700mA

# LEDs	simpleLED Series	LED Series	CCT	CRI	LED Flux ⁽¹⁾ (lm) Min/Typ.	Light Output ⁽²⁾ 700mA / Tj	Typical Vf (V)	Total Watts ⁽³⁾	lm/W	Heat Sink AAVID # / LxWxH	
4	50mm x 50mm (LxW)  05707R Series	LXM3-PW81	2700K	80	65 / 73	479lm / 89°C	3.20	8.96	53	631353B02098G 53.3 x 53.3 x 44.4 (mm)	
		LXM8-PW27	3000K		70 / 80	526lm / 88°C			59		
		LXM3-PW71			66 / 77	506lm / 88°C			56		
		LXM8-PW30			75 / 85	560lm / 87°C			63		
		LXM3-PW61			3500K	67 / 80			526lm / 88°C		59
		LXM3-PW51			4000K	75 / 85			560lm / 87°C		63
		LXML-PWN1-0100		4100K	-	100 / 110	654lm / 84°C	3.20	8.96		73
		LXML-PWN1-0120	-		120 / 130	748lm / 82°C	3.20	8.96	83		
		LXML-PWN2	60		200 / 220 ⁽⁴⁾	819lm / 70°C	3.00	8.40	98		
		LXML-PWC1-0100	-		100 / 110	680lm / 83°C	3.20	8.96	76		
		LXML-PWC1-0120	5500K		-	120 / 130	777lm / 81°C	3.20	8.96		87
		LXML-PWC2	60		200 / 225 ⁽⁴⁾	861lm / 69°C	3.00	8.40	103		
	75mm x 75mm (LxW)  05703R Series	LXM3-PW81	2700K	80	65 / 73	489lm / 73°C	3.20	8.96	55	739253B02886G 73.3 x 73.3 x 25.4 (mm)	
		LXM8-PW27	3000K		70 / 80	536lm / 72°C			60		
		LXM3-PW71			66 / 77	516lm / 73°C			58		
		LXM8-PW30			75 / 85	570lm / 72°C			64		
		LXM3-PW61			3500K	67 / 80			536lm / 72°C		60
		LXM3-PW51			4000K	75 / 85			570lm / 72°C		64
		LXML-PWN1-0100		4100K	-	100 / 110	678lm / 69°C	3.20	8.96		76
		LXML-PWN1-0120	-		120 / 130	773lm / 68°C	3.20	8.96	86		
		LXML-PWN2	60		200 / 220 ⁽⁴⁾	838lm / 57°C	3.00	8.40	100		
		LXML-PWC1-0100	-		100 / 110	696lm / 69°C	3.20	8.96	78		
		LXML-PWC1-0120	5500K		-	120 / 130	793lm / 67°C	3.20	8.96		89
		LXML-PWC2	60		200 / 225 ⁽⁴⁾	874lm / 57°C	3.00	8.40	104		
9	50mm x 50mm (LxW)  05708R Series	LXM3-PW81	2700K	80	65 / 73	1083lm / 86°C	3.20	20.16	54	739253B02886G 73.3 x 73.3 x 25.4 (mm)	
		LXM8-PW27	3000K		70 / 80	1189lm / 85°C			59		
		LXM3-PW71			66 / 77	1143lm / 85°C			57		
		LXM8-PW30			75 / 85	1264lm / 84°C			63		
		LXM3-PW61			3500K	67 / 80			1189lm / 85°C		59
		LXM3-PW51			4000K	75 / 85			1264lm / 84°C		63
		LXML-PWN1-0100		4100K	-	100 / 110	1483lm / 81°C	3.20	20.16		74
		LXML-PWN1-0120	-		120 / 130	1695lm / 79°C	3.20	20.16	84		
		LXML-PWN2	60		200 / 220 ⁽⁴⁾	1852lm / 67°C	3.00	18.90	98		
		LXML-PWC1-0100	-		100 / 110	1539lm / 81°C	3.20	20.16	76		
		LXML-PWC1-0120	5500K		-	120 / 130	1756lm / 78°C	3.20	20.16		87
		LXML-PWC2	60		200 / 225 ⁽⁴⁾	1944lm / 66°C	3.00	18.90	103		
	75mm x 75mm (LxW)  05706R Series	LXM3-PW81	2700K	80	65 / 73	1083lm / 86°C	3.20	20.16	54	739253B02886G 73.3 x 73.3 x 25.4 (mm)	
		LXM8-PW27	3000K		70 / 80	1189lm / 85°C			59		
		LXM3-PW71			66 / 77	1143lm / 85°C			57		
		LXM8-PW30			75 / 85	1264lm / 84°C			63		
		LXM3-PW61			3500K	67 / 80			1189lm / 85°C		59
		LXM3-PW51			4000K	75 / 85			1264lm / 84°C		63
		LXML-PWN1-0100		4100K	-	100 / 110	1483lm / 81°C	3.20	20.16		74
		LXML-PWN1-0120	-		120 / 130	1695lm / 79°C	3.20	20.16	84		
		LXML-PWN2	60		200 / 220 ⁽⁴⁾	1852lm / 67°C	3.00	18.90	98		
		LXML-PWC1-0100	-		100 / 110	1539lm / 81°C	3.20	20.16	76		
		LXML-PWC1-0120	5500K		-	120 / 130	1756lm / 78°C	3.20	20.16		87
		LXML-PWC2	60		200 / 225 ⁽⁴⁾	1944lm / 66°C	3.00	18.90	103		

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Note: Typical Vf used is a conservative estimate and may be slightly lower in actual application.

Future Lighting Solutions offers a basic light engine marked with the Clover trademark as a qualified component under the Philips LED Licensing Program.



The Clover trademark is a registered trademark of Royal Philips Electronics N.V.

1. How it works today

Philips introduced a patent licensing program for branded LED-based luminaires used in the general illumination, architectural, entertainment and theatrical markets. If you are a manufacturer of luminaires for one of these end markets and use one of the following technologies, then you may need to enter into a license agreement with Philips.

The technologies covered by the Philips LED Licensing Program include:

- Single Color Luminaires
- Tunable White Luminaires
- Color Changing Luminaires



The royalties due under Philips' LED Licensing Program vary based on the technology used and are calculated as a percentage of the value of a finished branded luminaire covered by a patent in the licensing program, and that is made or sold in a country where such patent is granted (see Figure 1 for the rate breakdown by technology).

Figure 1. Royalty Breakdown:

% Royalty	Technologies
3%	Single Color Luminaires (fixed color temperature white or color)
4%	Tunable White Luminaires (color temperature controllable)
5%	Color Changing Luminaires

2. Philips LED Licensing Program

It is possible to qualify for a 0% royalty payment license if you meet the following conditions:

- I. Luminaire maker must be a licensee of Philips' LED Licensing Program
- II. Luminaires include only "qualified components". These "qualified components" are defined as:
 - LED light-engines and
 - LED drivers; and
 - Components, if any, for controlling the light output of the LEDs used in the luminaires
- III. "Qualified components" all bear a trademark of a "qualified supplier"

3. How to Obtain a Philips LED License Agreement

For details about the Philips LED Licensing Program requirements, please contact Philips Intellectual Property & Standards (IP&S) via www.ip.philips.com/licensing/led or info.LEDlicensing@philips.com.

For more information about Clover, please refer to www.ip.philips.com/licensing/clover.

After a general introduction to the program, Philips IP&S and the luminaire will:

- Enter into a NDA
(This protects the product information and ensures that the luminaire makers information is not shared outside Philips IP&S)
- Work with luminaire makers to assess their products
- Conclude / issue patent license agreement

In Conclusion:

You can now use a basic light engine from the simpleLED program, marked with the Clover trademark as a qualified component under the Philips LED Licensing Program to help qualify your finished luminaire for a 0% royalty license.

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<http://www.IP.Philips.com/Licensing/LED>

Philips Advance LED Drivers

http://www.Advance.Philips.com/led_pcs

Lightech LED Drivers

<http://www.Lightechinc.com/LED>

Mean Well Drivers

<http://www.MeanWell.com>

Carclo Optics

<http://www.Carclo-Optics.com>



About Future Lighting Solutions

Future Lighting Solutions is a leading provider of LED lighting components and support services for solid-state lighting products and installations, including engineering expertise, concept development, full system solutions and online tools that accelerate quality application development. The company is a division of Future Electronics.

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