

# PRODUCT SELECTOR GUIDE

## Intematix ChromaLit™ Product Portfolio Overview

### *Remote Phosphor Light Source*



NOT TO SCALE

### **ChromaLit Round and Square**

ChromaLit Round and Square light sources offer size, shape, CCT, CRI and light output capacity options to meet your luminaire design requirements. These products are ideal for single LED, spot lighting and downlighting.

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### **ChromaLit Linear and Panel**

ChromaLit Linear light sources offer a range of CCT and CRI specifications in linear shapes that are extensible to any type of luminaire design. These products are ideal for under-cabinet, linear, task and ceiling panel lighting.

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### **ChromaLit Ellipse, Candle and Dome**

ChromaLit Ellipse, Candle and Dome light sources offer broad, smooth distribution patterns in a range of output, CCT and CRI specifications. These products are ideal for LED retrofit lamps, portable consumer lighting, chandeliers and decorative lighting applications.

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## ChromaLit Round<sup>1</sup>

Part No.	Example Application	Typical Lumen Output (lm) <sup>2</sup>	Diameter (mm)	Diameter (in.)	CCT(K)	CRI	Typical Conversion Efficacy Lm/W <sub>rad</sub> <sup>3</sup>
CL-827-R23-PC	Single LED	110-200	22.5	0.9	2700	80	180
CL-927-R23-PC					2700	90	160
CL-830-R23-PC					3000	80	200
CL-930-R23-PC					3000	90	165
CL-835-R23-PC					3500	80	205
CL-840-R23-PC					4000	80	210
CL-750-R23-PC					5000	70	230
CL-827-R34-PC	Spot Lighting	220-400	34.0	1.3	2700	80	180
CL-927-R34-PC					2700	90	160
CL-830-R34-PC					3000	80	200
CL-930-R34-PC					3000	90	165
CL-835-R34-PC					3500	80	210
CL-840-R34-PC					4000	80	210
CL-750-R34-PC					5000	70	230
CL-827-SR-PC		440-800	45.0	1.8	2700	80	180
CL-927-SR-PC					2700	90	160
CL-830-SR-PC					3000	80	200
CL-930-SR-PC					3000	90	165
CL-835-SR-PC					3500	80	205
CL-840-SR-PC					4000	80	210
CL-750-SR-PC					5000	70	230
CL-827-LR-PC	Downlight	730-1300	61.5	2.4	2700	80	180
CL-927-LR-PC					2700	90	160
CL-830-LR-PC					3000	80	200
CL-930-LR-PC					3000	90	165
CL-835-LR-PC					3500	80	205
CL-840-LR-PC					4000	80	210
CL-750-LR-PC					5000	70	230
CL-827-R75-PC		1100-2000	75.0	3.0	2700	80	180
CL-927-R75-PC					2700	90	160
CL-830-R75-PC					3000	80	200
CL-930-R75-PC					3000	90	165
CL-835-R75-PC					3500	80	205
CL-840-R75-PC					4000	80	210
CL-750-R75-PC					5000	70	230

<sup>1</sup> Product performance based on reference design. Product specifications subject to change.

<sup>2</sup> **Typical Lumen Output** is based on fixture design and is estimated based on CCT 2700K, 80CRI products. Please consult data sheet and application guide for maximum product ratings.

<sup>3</sup> **Conversion Efficacy** is the luminous flux (white light) output per radiant watt of blue light input to remote phosphor light source. W<sub>rad</sub> is the radiometric power measured in watts.



### ChromaLit Round<sup>1</sup> (Continued)

Part No.	Example Application	Typical Lumen Output (lm) <sup>2</sup>	Diameter (mm)	Diameter (in.)	CCT(K)	CRI	Typical Conversion Efficacy Lm/W <sub>rad</sub> <sup>3</sup>
CL-827-R100-PC	Downlight	2200-4000	100.0	3.9	2700	80	180
CL-927-R100-PC					2700	90	160
CL-830-R100-PC					3000	80	200
CL-930-R100-PC					3000	90	165
CL-835-R100-PC					3500	80	205
CL-840-R100-PC					4000	80	210
CL-750-R100-PC					5000	70	230
CL-827-R135-PC		3600-6600	135.0	5.3	2700	80	180
CL-927-R135-PC					2700	90	160
CL-830-R135-PC					3000	80	200
CL-930-R135-PC					3000	90	165
CL-835-R135-PC					3500	80	205
CL-840-R135-PC					4000	80	210
CL-750-R135-PC					5000	70	230
CL-840-R215-PC		High Bay	14000-16500	215.0	8.5	4000	80
CL-750-R215-PC	5000					70	230

### ChromaLit Linear<sup>1</sup>

Part No.	Example Application	Typical Lumen Output (lm) <sup>2</sup>	Dimensions LxW (mm)	Dimensions LxW (in.)	CCT(K)	CRI	Typical Conversion Efficacy Lm/W <sub>rad</sub> <sup>3</sup>
CL-830-L225-PC	Task/Linear/ Panel Lighting	950-2400	305.0 x 22.5	12.0 x 0.9	3000	80	200
CL-835-L225-PC					3500	80	205
CL-840-L225-PC					4000	80	210
CL-750-L225-PC					5000	70	230
CL-830-L125-PC		950-1400	305.0 x 12.5	12.0 x 0.5	3000	80	200
CL-835-L125-PC					3500	80	205
CL-840-L125-PC					4000	80	210
CL-750-L125-PC					5000	70	230

<sup>1</sup> Product performance based on reference design. Product specifications subject to change.

<sup>2</sup> **Typical Lumen Output** is based on fixture design and is estimated based on CCT 2700K, 80CRI products. Please consult data sheet and application guide for maximum product ratings.

<sup>3</sup> **Conversion Efficacy** is the luminous flux (white light) output per radiant watt of blue light input to remote phosphor light source. W<sub>rad</sub> is the radiometric power measured in watts.



## ChromaLit Square<sup>1</sup>

Part No.	Example Application	Typical Lumen Output (lm) <sup>2</sup>	Dimensions LxW (mm)	Dimensions LxW (in.)	CCT(K)	CRI	Typical Conversion Efficacy Lm/W <sub>rad</sub> <sup>3</sup>
CL-827-S21-PC	Single LED	110-220	21.0 x 21.0	0.8 x 0.8	2700	80	180
CL-927-S21-PC					2700	90	160
CL-830-S21-PC					3000	80	200
CL-930-S21-PC					3000	90	165
CL-835-S21-PC					3500	80	205
CL-840-S21-PC					4000	80	210
CL-750-S21-PC					5000	70	230
CL-827-S40-PC		440-800	40.0 x 40.0	1.6 x 1.6	2700	80	180
CL-927-S40-PC					2700	90	160
CL-830-S40-PC					3000	80	200
CL-930-S40-PC					3000	90	165
CL-835-S40-PC					3500	80	205
CL-840-S40-PC					4000	80	210
CL-750-S40-PC					5000	70	230
CL-827-S55-PC		730-1300	55.0 x 55.0	2.2 x 2.2	2700	80	180
CL-927-S55-PC					2700	90	160
CL-830-S55-PC					3000	80	200
CL-930-S55-PC					3000	90	165
CL-835-S55-PC					3500	80	205
CL-840-S55-PC					4000	80	210
CL-750-S55-PC					5000	70	230
CL-827-S65-PC	Downlight	1100-2000	65.0 x 65.0	2.6 x 2.6	2700	80	180
CL-927-S65-PC					2700	90	160
CL-830-S65-PC					3000	80	200
CL-930-S65-PC					3000	90	165
CL-835-S65-PC					3500	80	205
CL-840-S65-PC					4000	80	210
CL-750-S65-PC					5000	70	230
CL-827-S95-PC		2200-4000	95.0 x 95.0	3.7 x 3.7	2700	80	180
CL-927-S95-PC					2700	90	160
CL-830-S95-PC					3000	80	200
CL-930-S95-PC					3000	90	165
CL-835-S95-PC					3500	80	205
CL-840-S95-PC					4000	80	210
CL-750-S95-PC					5000	70	230

<sup>1</sup> Product performance based on reference design. Product specifications subject to change.

<sup>2</sup> **Typical Lumen Output** is based on fixture design and is estimated based on CCT 2700K, 80CRI products. Please consult data sheet and application guide for maximum product ratings.

<sup>3</sup> **Conversion Efficacy** is the luminous flux (white light) output per radiant watt of blue light input to remote phosphor light source. W<sub>rad</sub> is the radiometric power measured in watts.



### ChromaLit Square<sup>1</sup> (Continued)

Part No.	Example Application	Typical Lumen Output (lm) <sup>2</sup>	Dimensions LxW (mm)	Dimensions LxW (in.)	CCT(K)	CRI	Typical Conversion Efficacy Lm/W <sub>rad</sub> <sup>3</sup>
CL-827-S120-PC	Downlight	3600-6600	120.0 x 120.0	4.7 x 4.7	2700	80	180
CL-927-S120-PC					2700	90	160
CL-830-S120-PC					3000	80	200
CL-930-S120-PC					3000	90	165
CL-835-S120-PC					3500	80	205
CL-840-S120-PC					4000	80	210
CL-750-S120-PC					5000	70	230
CL-840-S200-PC	High Bay	14000-16500	200.0 x 200.0	7.9 x 7.9	4000	80	210
CL-750-S200-PC					5000	70	230



### ChromaLit Panel<sup>1</sup>

Part No.	Example Application	Typical Lumen Output (lm) <sup>2</sup>	Dimensions LxW (mm)	Dimensions LxW (in.)	CCT(K)	CRI	Typical Conversion Efficacy Lm/W <sub>rad</sub> <sup>3</sup>
CL-827-P215-PC	Custom	15000-27500	305.0 x 215.0	12.0 x 8.5	2700	80	180
CL-927-P215-PC					2700	90	160
CL-830-P215-PC					3000	80	200
CL-930-P215-PC					3000	90	165
CL-835-P215-PC					3500	80	205
CL-840-P215-PC					4000	80	210
CL-750-P215-PC					5000	70	230

<sup>1</sup> Product performance based on reference design. Product specifications subject to change.

<sup>2</sup> **Typical Lumen Output** is based on fixture design and is estimated based on CCT 2700K, 80CRI products. Please consult data sheet and application guide for maximum product ratings.

<sup>3</sup> **Conversion Efficacy** is the luminous flux (white light) output per radiant watt of blue light input to remote phosphor light source. W<sub>rad</sub> is the radiometric power measured in watts.



## ChromaLit Ellipse<sup>1</sup>

Part No.	Example Application	Typical Lumen Output (lm) <sup>2</sup>	Maximum Diameter (mm)	Height (mm)	CCT(K)	CRI	Typical Conversion Efficacy Lm/W <sub>rad</sub> <sup>3</sup>
CL-827-ELP30-PC	LED retrofit lamp/ pathway and landscape lighting/ chandelier	200-350	17.2	26.4	2700	80	165
CL-927-ELP30-PC					2700	90	140
CL-830-ELP30-PC					3000	80	185
CL-930-ELP30-PC					3000	90	150
CL-835-ELP30-PC					3500	80	190
CL-840-ELP30-PC					4000	80	195
CL-750-ELP30-PC					5000	70	220
CL-827-ELP40-PC					350-600	22.8	32.9
CL-927-ELP40-PC		2700	90	140			
CL-830-ELP40-PC		3000	80	185			
CL-930-ELP40-PC		3000	90	150			
CL-835-ELP40-PC		3500	80	190			
CL-840-ELP40-PC		4000	80	195			
CL-750-ELP40-PC		550-850	26.3	40.4	5000	70	220
CL-827-ELP60-PC					2700	80	165
CL-927-ELP60-PC					2700	90	140
CL-830-ELP60-PC					3000	80	185
CL-930-ELP60-PC					3000	90	150
CL-835-ELP60-PC					3500	80	190
CL-840-ELP60-PC					4000	80	195
CL-750-ELP60-PC		5000	70	220			

<sup>1</sup> Product performance based on reference design. Product specifications subject to change.

<sup>2</sup> **Typical Lumen Output** is based on fixture design and is estimated based on CCT 2700K, 80CRI products. Please consult data sheet and application guide for maximum product ratings.

<sup>3</sup> **Conversion Efficacy** is the luminous flux (white light) output per radiant watt of blue light input to remote phosphor light source. W<sub>rad</sub> is the radiometric power measured in watts.



## ChromaLit Candle<sup>1</sup>

Part No.	Example Application	Typical Lumen Output (lm) <sup>2</sup>	Maximum Diameter (mm)	Height (mm)	CCT(K)	CRI	Typical Conversion Efficacy Lm/W <sub>rad</sub> <sup>3</sup>
CL-827-CAN15-PC	LED retrofit lamp/ lantern/ chandelier	70-150	11.9	16.0	2700	80	165
CL-927-CAN15-PC					2700	90	140
CL-830-CAN15-PC					3000	80	185
CL-930-CAN15-PC					3000	90	150
CL-835-CAN15-PC					3500	80	190
CL-840-CAN15-PC					4000	80	195
CL-750-CAN15-PC					5000	70	220
CL-827-CAN30-PC		150-300	16.9	24.2	2700	80	165
CL-927-CAN30-PC					2700	90	140
CL-830-CAN30-PC					3000	80	185
CL-930-CAN30-PC					3000	90	150
CL-835-CAN30-PC					3500	80	190
CL-840-CAN30-PC					4000	80	195
CL-750-CAN30-PC					5000	70	220
CL-827-CAN40-PC		300-700	26.6	35.0	2700	80	165
CL-927-CAN40-PC					2700	90	140
CL-830-CAN40-PC					3000	80	185
CL-930-CAN40-PC					3000	90	150
CL-835-CAN40-PC					3500	80	190
CL-840-CAN40-PC					4000	80	195
CL-750-CAN40-PC					5000	70	220

<sup>1</sup> Product performance based on reference design. Product specifications subject to change.

<sup>2</sup> **Typical Lumen Output** is based on fixture design and is estimated based on CCT 2700K, 80CRI products. Please consult data sheet and application guide for maximum product ratings.

<sup>3</sup> **Conversion Efficacy** is the luminous flux (white light) output per radiant watt of blue light input to remote phosphor light source. W<sub>rad</sub> is the radiometric power measured in watts.





## ChromaLit Dome<sup>1</sup>

Part No.	Example Application	Typical Lumen Output (lm) <sup>2</sup>	Maximum Diameter (mm)	Height (mm)	CCT(K)	CRI	Typical Conversion Efficacy Lm/W <sub>rad</sub> <sup>3</sup>
CL-827-DOM15-PC	Miniature lamps/ landscape lighting/ single LED	100-200	14.0	13.8	2700	80	165
CL-927-DOM15-PC					2700	90	140
CL-830-DOM15-PC					3000	80	185
CL-930-DOM15-PC					3000	90	150
CL-835-DOM15-PC					3500	80	190
CL-840-DOM15-PC					4000	80	195
CL-750-DOM15-PC					5000	70	220
CL-827-DOM40-PC					LED retrofit lamp/ pendants/ wall sconce/ ceiling fixtures	300-600	33.0
CL-927-DOM40-PC	2700	90	140				
CL-830-DOM40-PC	3000	80	185				
CL-930-DOM40-PC	3000	90	150				
CL-835-DOM40-PC	3500	80	190				
CL-840-DOM40-PC	4000	80	195				
CL-750-DOM40-PC	5000	70	220				
CL-827-DOM60-PC	LED retrofit lamp/ pendants/ wall sconce/ ceiling fixtures	600-1000	42.0	26.1			
CL-927-DOM60-PC					2700	90	140
CL-830-DOM60-PC					3000	80	185
CL-930-DOM60-PC					3000	90	150
CL-835-DOM60-PC					3500	80	190
CL-840-DOM60-PC					4000	80	195
CL-750-DOM60-PC					5000	70	220
CL-827-DOM100-PC					LED retrofit lamp/ pendants/ wall sconce/ ceiling fixtures	1000-1600	55.0
CL-927-DOM100-PC	2700	90	140				
CL-830-DOM100-PC	3000	80	185				
CL-930-DOM100-PC	3000	90	150				
CL-835-DOM100-PC	3500	80	190				
CL-840-DOM100-PC	4000	80	195				
CL-750-DOM100-PC	5000	70	220				


<sup>1</sup> Product performance based on reference design. Product specifications subject to change.

<sup>2</sup> **Typical Lumen Output** is based on fixture design and is estimated based on CCT 2700K, 80CRI products. Please consult data sheet and application guide for maximum product ratings.

<sup>3</sup> **Conversion Efficacy** is the luminous flux (white light) output per radiant watt of blue light input to remote phosphor light source. W<sub>rad</sub> is the radiometric power measured in watts.

## Quick Selection Guide for Ellipse, Candle and Dome by Application

Example Application and Image	Product Image	100-200lm	200-300lm	300-600lm	600-1000lm	1000-1600lm
Decorative Lamps (B10, B13, F15, C7, C15, CA)		Candle 15	Candle 30	Candle 40		
Chandelier		Candle 15	Candle 30	Candle 40 Ellipse 40	Ellipse 60	
Lantern		Candle 15	Candle 30	Candle 40		
Omni- Directional Lamps (A15, A17, A19, A21, G16.5, G25, G30, G40, S11, S14, S19)			Candle 30 Ellipse 30	Candle 40 Ellipse 40	Ellipse 60 Dome 60	
Landscape and Pathway Lighting			Ellipse 30	Ellipse 40	Ellipse 60	
Miniature Lamps (T4, T5, T7, T8, S6)		Dome 15				
Pendant		Candle 15	Candle 30	Candle 40 Dome 40	Dome 60	Dome 100
Wall Sconce				Dome 40	Dome 60	Dome 100
Ceiling Fixture					Dome 60	Dome 100
DownLight and Flood lights					Dome 60	Dome 100



Please contact a sales representative to request a demonstration kit and for full product details.  
For more information contact [ChromaLit@Intematix.com](mailto:ChromaLit@Intematix.com)

### **Company Information**

Intematix Corporation is a materials development innovator, providing customizable, patented phosphors that serve as the foundation for high quality, energy efficient LED light. Intematix products enable attractive, vivid color quality, superior consistency, uniformity and stability. Headquartered in Fremont, California, Intematix maintains R&D, manufacturing, business and support operations in the United States, Asia and Europe. To learn more about the company, please visit [www.intematix.com](http://www.intematix.com)

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