

# Concerto LED - LD3G

## 3-1/2" Series

### Square Regressed Low Profile Trim with Square Pinhole

#### DESCRIPTION

This series of fixed round or square trims offered with narrow flood or flood beams will be highly appreciated in the following applications: highlight of various objects in shows and museums or for certain tasks such as above a work table, for kids homework, kitchen island, sewing, etc ...

#### SPECIFICATIONS

COLOR TEMPERATURES	2,700K, 3,000K, 3,500K and 4,000K			
CRI	80 +	90 + (only at 3,000K)		
POWER SUPPLY	Several driver models available giving you 3 dimming options: ELV, 0-10V or Pulse Width Modulation (PWM).			
LED MODULE	Bridgelux Vero 18, delivers a lumen maintenance greater than 70% after 50,000 hours of operation (L <sub>70</sub> ). Provides a high quality true color and a clean white light without hot spots. Binning within 3 steps on MacAdam ellipse. Surpass ANSI binning requirements.			
DELIVERED LUMENS (Determined by the choice of housing)	<b>Performance 1:</b> 730 lumens, 47 lm/W <b>Performance 2:</b> 1,025 lumens, 46 lm/W			
TRIM	Powder coated paint or plated die-formed steel. Different finishes available. Painted finishes available with Marine Grade option.			
BEAM	<b>M:</b> Narrow Flood → 33°			
LENS	Optional lenses available to personalize your lighting. Protection lens covered with a high-performance film 98% effective. Lens of 1/8" (3 mm) thick and 1.9" (47 mm) Ø.  <b>Choice of available lenses:</b> Clear (C), Frosted (F), Honeycomb (H), Linear (L), Prismatic (P) and Solite (S)			
HEAT SINK	High quality aluminum injected heat sink ensuring maximum heat dissipation.			
REFLECTORS	<b>Anodized</b> Anodized Aluminum (AN)	<b>Specular</b> Clear (CL) Black (BK)	<b>Painted</b> White (01)* Black (02) Architectural Bronze (05)* Antique Copper (06)* Matte White (11)* Metallic Grey (15)*	
	*These reflector colors are available only with the same trim color.			
CEILING CUTOUT	ø 3-5/8" (92 mm)			
COMPATIBLE HOUSINGS	<b>Remodel Housing</b>	<b>New Construction Housing</b>	<b>Insulated Housing</b>	
(Performance 2 trims work with either performance 1 and 2 housings.)	<b>Performance 1</b> (1,500 lumens)	RELD300LE1	NWLD300LE1	ISLD300LE1
		RELD300LD1	NWLD300LD1	ISLD300LD1
		RELD300LA1	NWLD300LA1	ISLD300LA1
	<b>Performance 2</b> (2,000 lumens)	RELD300LE2	NWLD300LE2	ISLD300LE2
		RELD300LD2	NWLD300LD2	ISLD300LD2
		RELD300LA2	NWLD300LA2	ISLD300LA2
	For dimming, please refer to the selected housing specification sheet.			
CERTIFICATION	cULus E343977 for damp locations			
WARRANTY	1 year for standard finishes, 2 years on "Marine Grade" finish and 5 years on LED module.			

Project \_\_\_\_\_

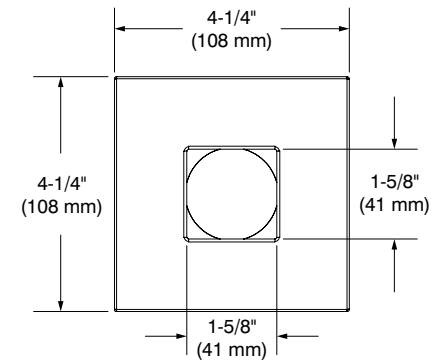
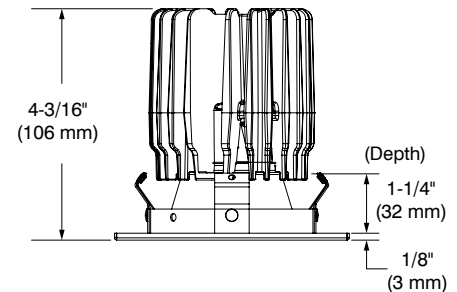
Notes \_\_\_\_\_

Fixture Type \_\_\_\_\_

Date \_\_\_\_\_



LD3GC-04BK (illustrated)



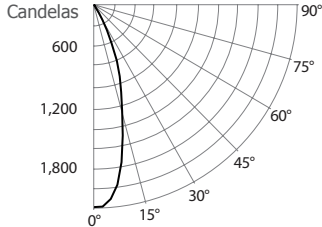
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3-1/2" Series

## PHOTOMETRIC DATA

### 3,000K, 80 + of CRI, Narrow Flood with performance 1 housing

#### CANDLEPOWER DISTRIBUTION



#### LIGHT CONE

Distance	FC	DIA
06'	57.4	3.6'
08'	32.3	4.7'
10'	20.7	5.9'
12'	14.4	7.1'
14'	10.5	8.3'
16'	8.1	9.5'

Beam: 33°  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

#### LUMINAIRE

Performance 1 LED	3,000K	Narrow Flood
CBCP / Lumens	2,067	/ 729
Watts	120V	277V
	15.96W	16.46W
Operating AMPS	0.13A	0.059A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	80 +	
Lumens/Watt	47	
Spacing Criteria	0.6	
Certificate LM79-08	475867	

#### COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80			50			30		
Wall Reflect %	50	30	50	30	50	30	50	30	
RCR	0	119	119	111	111	106	106	106	
	2	108	105	103	101	100	99	99	
	4	100	97	97	94	96	93	93	
	6	94	90	92	89	91	88	88	
	8	89	85	87	84	86	83	83	
	10	84	80	83	80	82	79	79	

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	662	90.80%
0-40	690	94.72%
0-60	715	98.13%
60-90	14	1.87%
0-90	729	100%

#### MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	36	0.71
6'	20	0.4
7'	14	0.28
8'	14	0.28
9'	9	0.18

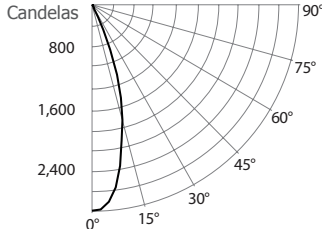
Local 38' x 38' x 10'. Workplan located 2 1/2' (30").  
Reflection factor of 80%/50%/30%.

#### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS	DEGREES/VERTICAL	CANDELAS
0	2,067	45	26
5	1,998	55	12
10	1,638	65	13
15	1,191	75	10
20	743	85	10
25	279	90	0
35	35		

### 3,000K, 80 + of CRI, Narrow Flood with performance 2 housing

#### CANDLEPOWER DISTRIBUTION



#### LIGHT CONE

Distance	FC	DIA
06'	80.1	3.6'
08'	45.0	4.8'
10'	28.8	5.9'
12'	20.0	7.1'
14'	14.7	8.3'
16'	11.3	9.5'

Beam: 33°  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

#### LUMINAIRE

Performance 2 LED	3,000K	Narrow Flood
CBCP / Lumens	2,883	/ 1,024
Watts	120V	277V
	22.50W	23W
Operating AMPS	0.18A	0.083A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	80 +	
Lumens/Watt	46	
Spacing Criteria	0.5	
Certificate LM79-08	475893	

#### COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80			50			30		
Wall Reflect %	50	30	50	30	50	30	50	30	
RCR	0	119	119	111	111	106	106	106	
	2	108	105	103	101	100	99	99	
	4	100	97	97	94	95	93	93	
	6	94	90	92	89	91	88	88	
	8	88	85	87	84	86	83	83	
	10	84	80	83	79	82	79	79	

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	924	90.25%
0-40	965	94.23%
0-60	1,002	97.86%
60-90	22	2.14%
0-90	1,024	100%

#### MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	50	1
6'	28	0.56
7'	20	0.39
8'	20	0.39
9'	13	0.25

Local 38' x 38' x 10'. Workplan located 2 1/2' (30").  
Reflection factor of 80%/50%/30%.

#### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS	DEGREES/VERTICAL	CANDELAS
0	2,883	45	36
5	2,763	55	19
10	2,261	65	18
15	1,640	75	15
20	1,056	85	16
25	389	90	0
35	49		

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### LD3G MODEL PHOTOMETRIC DATA

#### With performance 1 housing

	Narrow Flood	
<b>2,700K with 80 CRI</b>	742.4 Lms	46.2 lm/W
<b>3,000K with 90 CRI</b>	629 Lms	38.3 lm/W
<b>3,500K with 80 CRI</b>	836.2 Lms	52.2 lm/W
<b>4,000K with 80 CRI</b>	826 Lms	52.6 lm/W

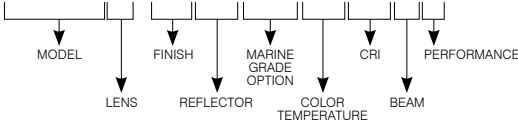
#### With performance 2 housing

	Narrow Flood	
<b>2,700K with 80 CRI</b>	1,004 Lms	44.4 lm/W
<b>3,000K with 90 CRI</b>	827.9 Lms	35.9 lm/W
<b>3,500K with 80 CRI</b>	1,145 Lms	50.7 lm/W
<b>4,000K with 80 CRI</b>	1,131 Lms	49.6 lm/W

\* All .ies and Lighting facts files are available on our Website.

### CODIFICATION EXAMPLE

**LD3GC-1111MG4080M2**



### ORDERING CODES

MODEL	LENSES	TRIM FINISHES	REFLECTORS	MARINE GRADE	COLOR TEMPERATURES	CRI	BEAM	PERFORMANCE
<b>LD3G</b>							<b>M</b>	<b>2</b>
<b>LD3G</b>	<b>C</b> Clear <b>F</b> Frosted <b>H</b> Honeycomb <b>L</b> Linear <b>P</b> Prismatic <b>S</b> Solite	<b>-01</b> White <b>-02</b> Black <b>-03</b> 24K Gold Plated <b>-04</b> Chrome <b>-04BR</b> Brushed Chrome <b>-05</b> Architectural Bronze <b>-06</b> Antique Copper <b>-11</b> Matte White <b>-12BR</b> Brushed Nickel <b>-13</b> Satin Nickel <b>-15</b> Metallic Grey	<b>ANODIZED</b> <b>AN</b> Anodized Aluminum  <b>SPECULAR</b> <b>CL</b> Clear <b>BK</b> Black  <b>PAINTED</b> <b>01</b> White* <b>02</b> Black <b>05</b> Architectural Bronze* <b>06</b> Antique Copper* <b>11</b> Matte White* <b>15</b> Metallic Grey*	<b>MG</b> <b>(optional)</b> May be applied on finishes: -01, -02, -05, -06, -11 and -15	<b>27</b> 2,700K <b>30</b> 3,000K <b>35</b> 3,500K <b>40</b> 4,000K	<b>80</b> 80+ CRI <b>90</b> 90+ CRI  (only with 3,000K)	<b>M</b> Narrow Flood (33°)	<b>2</b>  Use with Performance 1 or Performance 2 Housings

\*These reflector colors are available only with the same trim color.

For future on site modification of the light distribution.

#### Ordering codes: replacement lenses.

##### Lenses (to modify light diffusion)

Linear: <b>103091</b>	Honeycomb: <b>103089</b>
Solite: <b>103097</b>	Frosted: <b>316206</b>
Prismatic: <b>103094</b>	Clear: <b>102958</b>

### MARINE GRADE

2-year warranty on finish

This option increases the painted finishes resistance by reducing and delaying apparition and propagation of oxidation (ex: rust and others).

MARINE GRADE treatment is recommended for damp to wet locations.

Unless otherwise indicated, trims are for interior use. Also suitable for cold and exterior locations, as in soffits, where fixtures are not subject to direct rain or snow exposure.

**WARNING** – This option is not suitable for salt environments and/or highly corrosive areas such as soffits in coastal regions and natatoriums. Such usage would void warranty on the product.

