

# Concerto LED - LD3I

## 3-1/2" Series

### Low Profile Square Shower Trim with Square Pinhole

#### DESCRIPTION

This series round or square trims, wide beam and frosted lens, illuminates almost entirely confined spaces such as a shower.

#### SPECIFICATIONS

COLOR TEMPERATURE	2,700K, 3,000K, 3,500K and 4,000K			
CRI	80 + 90 + (only at 3,000K)			
POWER SUPPLY	Several driver models available giving you 2 dimming options: ELV and 0-10V. Refer to the housing specifications sheet for more details.			
LED MODULE	Bridgelux Vero 18, delivers a lumen maintenance greater than 70% after 50,000 hours of operation ( $L_{70}$ ). 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> 600 lumens, 38 lm/W <b>Performance 2:</b> 760 lumens, 35 lm/W			
TRIM	Powder coated paint or plated die-formed steel. Different finishes available.			
BEAM	<b>W:</b> Flood $\longrightarrow$ 40°			
LENS	<b>Choice of lenses available:</b> Clear ( <b>C</b> ), Frosted ( <b>F</b> ), Frosted with clear center ( <b>FC</b> )			
HEAT SINK	High quality aluminum injected heat sink ensuring maximum heat dissipation.			
CEILING CUTOUT	ø 3-5/8" (92 mm)			
COMPATIBLE HOUSINGS		<b>Remodel Housing</b>	<b>New Construction Housing</b>	
(Performance 2 trims work with either performance 1 and 2 housings.)			<b>Insulated Housing</b>	
	<b>Performance 1</b> (1,500 lumens)	RELD300LD1 RELD300LV1	NWLD300LD1 NWLD300LV1	ISLD300LD1 ISLD300LV1
	<b>Performance 2</b> (2,000 lumens)	RELD300LD2 RELD300LV2	NWLD300LD2 NWLD300LV2	ISLD300LD2 ISLD300LV2
	For dimming, please refer to the selected housing specification sheet.			
CERTIFICATION	cULus <b>E343977</b> for <b>wet locations</b> .			
WARRANTY	1 year for standard finishes and 5 years on LED module.			

Project \_\_\_\_\_

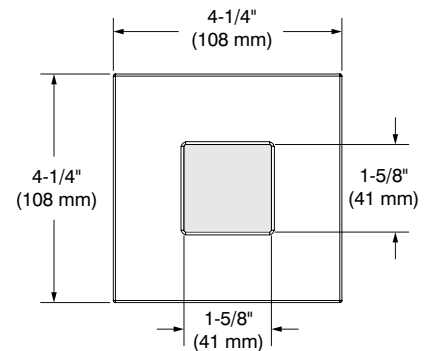
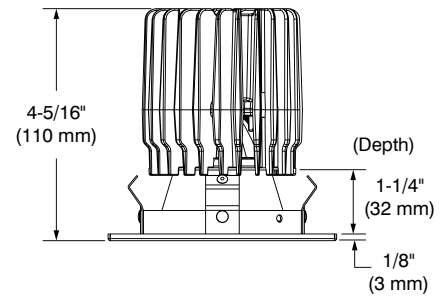
Notes \_\_\_\_\_

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

Date \_\_\_\_\_



LD3IF-12BR  
(illustrated)



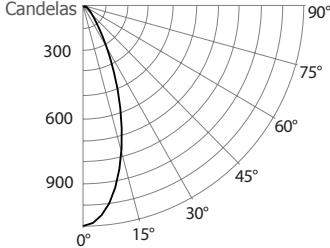
# Concerto LED - LD3I

3-1/2" Series

## PHOTOMETRIC DATA

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

#### CANDLEPOWER DISTRIBUTION



#### LIGHT CONE

Distance	FC	DIA
06'	26.4	4.3'
08'	14.8	5.8'
10'	9.5	7.2'
12'	6.6	8.7'
14'	4.8	10.1'
16'	3.7	11.5'

Beam: 40°  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

#### LUMINAIRE

Performance 1 LED	3,000K Flood	
<b>CBCP / Lumens</b>	950	/ 592
<b>Watts</b>	120V	277V
	15.7W	16.2W
<b>Operating AMPS</b>	0.13A	0.058A
<b>Lumen Maintenance</b>	L70 @ 50,000 Hrs	
<b>CRI</b>	+ 80	
<b>Lumens/Watt</b>	37.7	
<b>Spacing Criteria</b>	0.6	
<b>Certificate LM79-08</b>	475943	

#### COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80		50		30		
Wall Reflect %	50	30	50	30	50	30	
<b>RCR</b>	0	119	119	111	111	106	106
	2	103	100	98	96	96	93
	4	92	87	89	84	87	83
	6	82	77	80	76	79	75
	8	74	69	73	68	72	67
	10	68	62	66	62	66	61

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	403	68.06%
0-40	482	81.44%
0-60	557	94.03%
60-90	35	5.97%
0-90	592	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	28	0.7
6'	16	0.39
7'	11	0.27
8'	11	0.27
9'	7	0.17

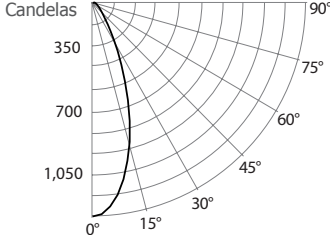
Local 38' x 38' x 10'. Workplane located 2 1/2' (30").  
Reflection factor of 80%/50%/30%

#### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS	DEGREES/VERTICAL	CANDELAS
0	950	45	57
5	909	55	33
10	798	65	20
15	640	75	11
20	469	85	4
25	314	90	0
35	123		

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

#### CANDLEPOWER DISTRIBUTION



#### LIGHT CONE

Distance	FC	DIA
06'	33.8	4.3'
08'	19.0	5.8'
10'	12.2	7.2'
12'	8.5	8.6'
14'	6.2	10.1'
16'	4.8	11.5'

Beam: 40°  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

#### LUMINAIRE

Performance 2 LED	3,000K Flood	
<b>CBCP / Lumens</b>	1,218	/ 757
<b>Watts</b>	120V	277V
	21.5W	22W
<b>Operating AMPS</b>	0.18A	0.079
<b>Lumen Maintenance</b>	L70 @ 50,000 Hrs	
<b>CRI</b>	+ 80	
<b>Lumens/Watt</b>	35.5	
<b>Spacing Criteria</b>	0.6	
<b>Certificate LM79-08</b>	475949	

#### COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80		50		30		
Wall Reflect %	50	30	50	30	50	30	
<b>RCR</b>	0	119	119	111	111	106	106
	2	103	100	98	96	96	93
	4	92	87	89	84	87	83
	6	82	77	80	76	79	75
	8	74	69	73	68	72	67
	10	68	62	66	62	66	61

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	516	68.09%
0-40	617	81.45%
0-60	712	94.03%
60-90	45	5.97%
0-90	757	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	36	0.95
6'	20	0.54
7'	14	0.37
8'	14	0.37
9'	9	0.24

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

#### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS	DEGREES/VERTICAL	CANDELAS
0	1,218	45	73
5	1,165	55	42
10	1,022	65	26
15	819	75	14
20	599	85	5
25	401	90	0
35	157		



# Concerto LED - LD3I

## 3-1/2" Series

### LD3I MODEL PHOTOMETRIC DATA

#### With performance 1 housing

	Flood	
<b>2,700K with 80 CRI</b>	592 Lms	37 lm/W
<b>3,000K with 90 CRI</b>	484.6 Lms	30.3 lm/W
<b>3,500K with 80 CRI</b>	628 Lms	40 lm/W
<b>4,000K with 80 CRI</b>	639 Lms	40.7 lm/W

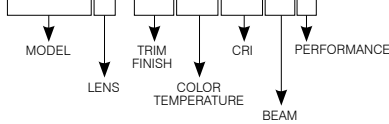
#### With performance 2 housing

	Flood	
<b>2,700K with 80 CRI</b>	764.9 Lms	34.8 lm/W
<b>3,000K with 90 CRI</b>	621 Lms	28.2 lm/W
<b>3,500K with 80 CRI</b>	802 Lms	37.3 lm/W
<b>4,000K with 80 CRI</b>	817 Lms	38 lm/W

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

### CODIFICATION EXAMPLE

**LD3IF-153580W2**



### ORDERING CODES

MODEL	LENSES	TRIM FINISHES	COLOR TEMPERATURES	CRI	BEAM	PERFORMANCE
<b>LD3I</b>					<b>W</b>	<b>2</b>
<b>LD3I</b>	<b>F</b> Frosted	<b>-01</b> White	<b>27</b> 2,700K	<b>80</b> 80+ CRI	<b>W</b> Flood (40°)	<b>2</b>
	<b>FC</b> Frosted with clear center	<b>-02</b> Black	<b>30</b> 3,000K	<b>90</b> 90+ CRI		
		<b>-03</b> 24K Gold Plated	<b>35</b> 3,500K	(only with 3,000K)		Use with Performance 1 or Performance 2 Housings
	<b>C</b> Clear	<b>-04</b> Chrome	<b>40</b> 4,000K			
		<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				

