

Concerto LED - LD2B

4" Series

Low Profile Square Adjustable Trim

DESCRIPTION

The adjustable round or square trims, will provide a maximum accent lighting that will be useful in various applications such as the library, kitchen, corridor, 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_{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.
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DELIVERED LUMENS (Determined by the choice of housing)	Performance 1: 1,100 lumens, 70 lm/W Performance 2: 1,575 lumens, 68 lm/W
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TRIM	Powder coated paint or plated die-formed steel. Different finishes available. Painted finishes available with Marine Grade option.
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OPTIC SYSTEM	Interchangeable optional optical reflectors and 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" (49 mm) Ø. Choice of available lenses: Clear (C), Frosted (F), Honeycombs (H), Linear (L), Prismatic (P) and Solite (S) Optical reflectors available: M: Narrow Flood → 27° W: Flood → 47°
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ADJUSTABILITY	Swivel: 360° 40° tilt and with locking position. Choose aiming angle then tighten screws to lock into position.
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HEAT SINK	High quality aluminum injected heat sink ensuring maximum heat dissipation.
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CEILING CUTOUT	Ø 4-1/4" (108 mm)
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COMPATIBLE HOUSINGS	Remodel Housing	New Construction Housing	Insulated Housing	
(Performance 2 trims work with either performance 1 and 2 housings.)	Performance 1 (1,500 lumens)	RELD200LE1 RELD200LD1 RELD200LA1	NWLD200LE1 NWLD200LD1 NWLD200LA1	ISLD200LE1 ISLD200LD1 ISLD200LA1
	Performance 2 (2,000 lumens)	RELD200LE2 RELD200LD2 RELD200LA2	NWLD200LE2 NWLD200LD2 NWLD200LA2	Not available

For dimming, please refer to the selected housing specification sheet.

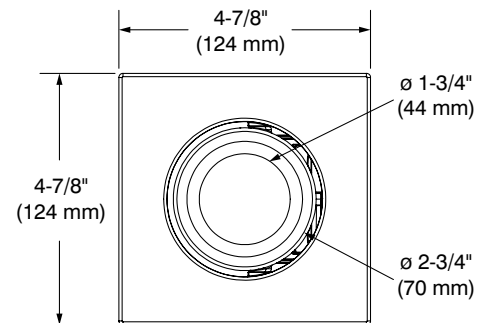
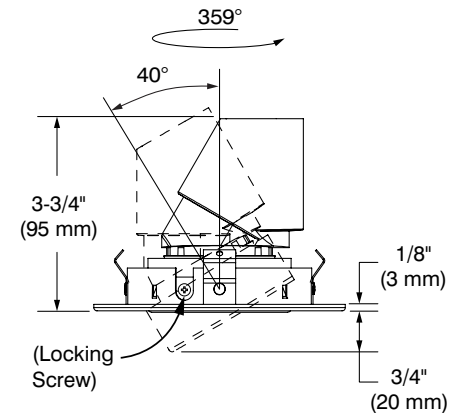
CERTIFICATION	cULus E343977 for damp locations
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WARRANTY	1 year for standard finishes, 2 years on "Marine Grade" finish and 5 years on LED module.
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Project	
Notes	
Fixture Type	
Date	



LD2BC-12BR (illustrated)



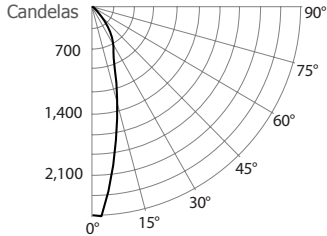
Concerto LED - LD2B

4" Series

PHOTOMETRIC DATA

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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	68.2	3.0'
08'	38.4	4.0'
10'	24.6	5.0'
12'	17.1	5.9'
14'	12.5	6.9'
16'	9.6	7.9'

Beam: 28°
Beam Edge defined as 50% of Maximum Nadir Candle-power.

LUMINAIRE

Performance 1 LED	3,000K	Narrow Flood
CBCP / Lumens	2,456	/ 1,094
Watts	120V	277V
	16.16W	16.66W
Operating AMPS	0.13A	0.060A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	80 +	
Lumens/Watt	67.5	
Spacing Criteria	0.5	
Certificate LM79-08	Based on test 475821	

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	106	103	101	99	98	96	96	
	4	96	91	93	89	91	88	88	
	6	87	82	85	81	83	80	80	
	8	78	74	77	73	76	72	72	
	10	71	66	70	66	69	65	65	

Zonal Cavity Method
Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	779	71.24%
0-40	1,004	91.76%
0-60	1,089	99.59%
60-90	4	0.41%
0-90	1,094	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	53	0.72
6'	30	0.4
7'	21	0.28
8'	21	0.28
9'	13	0.17

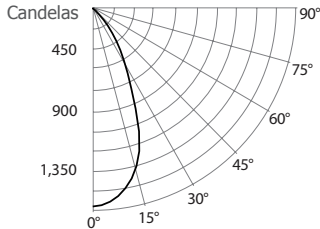
Local 38' x 38' x 10'. Workplan located 2 1/2' (30").
Reflection factor of 80%/50%/30%.

CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS	DEGREES/VERTICAL	CANDELAS
0	2,456	45	97
5	2,186	55	4
10	1,600	65	2
15	1,130	75	2
20	773	85	0
25	589	90	0
35	367		

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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	43.3	5.3'
08'	24.3	7.0'
10'	15.6	8.8'
12'	10.8	10.5'
14'	7.9	12.3'
16'	6.1	14.1'

Beam: 47°
Beam Edge defined as 50% of Maximum Nadir Candle-power.

LUMINAIRE

Performance 1 LED	3,000K	Flood
CBCP / Lumens	1,558	/ 1,088
Watts	120V	277V
	15.53W	16.03W
Operating AMPS	0.19A	0.058A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	80 +	
Lumens/Watt	70.2	
Spacing Criteria	0.7	
Certificate LM79-08	Based on test 475823	

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	106	103	101	99	99	97	97	
	4	97	92	93	90	92	89	89	
	6	88	83	86	82	84	81	81	
	8	80	75	78	74	77	74	74	
	10	73	68	71	67	71	67	67	

Zonal Cavity Method
Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	822	75.4%
0-40	1,020	93.7%
0-60	1,085	99.6%
60-90	4	0.4%
0-90	1,088	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	53	0.69
6'	30	0.39
7'	21	0.27
8'	21	0.27
9'	13	0.17

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	1,558	45	73
5	1,527	55	3
10	1,438	65	3
15	1,287	75	1
20	1,032	85	0
25	698	90	0
35	318		

CONTRASTE

1009, rue du Parc Industriel
Lévis (Québec) G6Z 1C5 Canada
Tel.: 1-888-839-4624
Fax.: 1-877-839-7057
contrastlighting.com
info@contrastlighting.com

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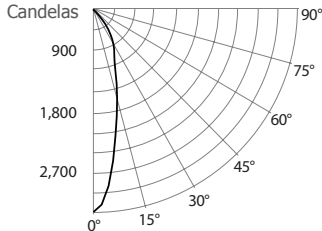
Concerto LED - LD2B

4" Series

PHOTOMETRIC DATA

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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	88.9	2.9'
08'	50.0	3.9'
10'	32.0	4.9'
12'	22.2	5.8'
14'	16.3	6.8'
16'	12.5	7.8'

Beam: 27°
Beam Edge defined as 50% of Maximum Nadir Candle-power.

LUMINAIRE

Performance 2 LED	3,000K	Narrow Flood
CBCP / Lumens	3,200	/ 1,435
Watts	120V	277V
	23.2W	23.7W
Operating AMPS	0.13A	0.060A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	80 +	
Lumens/Watt	61.8	
Spacing Criteria	0.4	
Certificate LM79-08	Based on test 606976	

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80	50	30
Wall Reflect %	50	30	50
RCR	0	119	119
	111	111	106
	106	103	99
	101	99	98
	98	96	96
	96	91	92
	89	90	87
	87	81	84
	80	83	79
	8	78	73
	76	72	76
	72	76	72
	10	71	66
	69	65	69
	65	65	65

Zonal Cavity Method
Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1,015	70.72%
0-40	1,309	91.23%
0-60	1,427	99.49%
60-90	7	0.51%
0-90	1,435	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	69	1.03
6'	39	0.58
7'	27	0.4
8'	27	0.4
9'	17	0.26

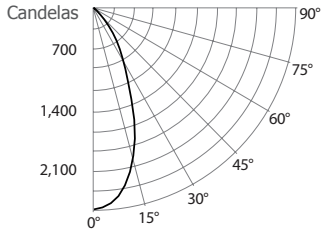
Local 38' x 38' x 10'. Workplan located 2 1/2' (30°).
Reflection factor of 80%/50%/30%.

CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS	DEGREES/VERTICAL	CANDELAS
0	3,200	45	133
5	2,801	55	8
10	2,030	65	3
15	1,462	75	3
20	1,025	85	0
25	789	90	0
35	480		

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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	66.3	4.9'
08'	37.3	6.5'
10'	23.9	8.2'
12'	16.6	9.8'
14'	12.2	11.5'
16'	9.3	13.1'

Beam: 45°
Beam Edge defined as 50% of Maximum Nadir Candle-power.

LUMINAIRE

Performance 2 LED	3,000K	Flood
CBCP / Lumens	2,387	/ 1,569
Watts	120V	277V
	23.15W	23.65W
Operating AMPS	0.19A	0.085A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	80 +	
Lumens/Watt	67.9	
Spacing Criteria	0.7	
Certificate LM79-08	Based on test 606978	

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80	50	30
Wall Reflect %	50	30	50
RCR	0	119	119
	111	111	106
	106	103	99
	101	99	97
	96	92	93
	90	91	88
	88	83	85
	82	84	81
	8	79	75
	78	74	77
	77	73	73
	10	72	67
	71	67	70
	66	66	66

Zonal Cavity Method
Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1,168	74.42%
0-40	1,462	93.15%
0-60	1,562	99.55%
60-90	7	0.45%
0-90	1,569	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	76	1.02
6'	43	0.58
7'	30	0.4
8'	30	0.4
9'	19	0.26

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	2,387	45	114
5	2,324	55	6
10	2,138	65	4
15	1,818	75	2
20	1,411	85	0
25	968	90	0
35	476		

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1009, rue du Parc Industriel
Lévis (Québec) G6Z 1C5 Canada
Tel.: 1-888-839-4624
Fax.: 1-877-839-7057
contrastlighting.com
info@contrastlighting.com

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Concerto LED - LD2B

4" Series

LD2B MODEL PHOTOMETRIC DATA

With performance 1 housing

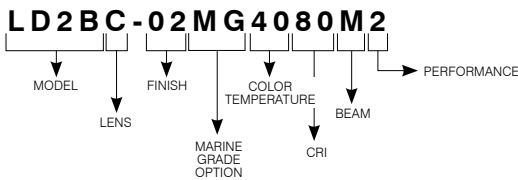
	Narrow Flood		Flood	
2,700K with 80 CRI	1,106 Lms	70.9 lm/W	1,000 Lms	63.7 lm/W
3,000K with 90 CRI	933 Lms	59 lm/W	862.2 Lms	54.3 lm/W
3,500K with 80 CRI	1,239 Lms	79 lm/W	1,153 Lms	73.4 lm/W
4,000K with 80 CRI	1,189 Lms	75.2 lm/W	1,256 Lms	79.5 lm/W

With performance 2 housing

	Narrow Flood		Flood	
2,700K with 80 CRI	1,780 Lms	82.8 lm/W	1,610 Lms	71.2 lm/W
3,000K with 90 CRI	1,230 Lms	54.7 lm/W	1,287 Lms	56.9 lm/W
3,500K with 80 CRI	1,625 Lms	75.6 lm/W	1,662 Lms	77.3 lm/W
4,000K with 80 CRI	1,603 Lms	70.6 lm/W	1,739 Lms	76.3 lm/W

* All .ies and files are available on our Website.

CODIFICATION EXAMPLE



ORDERING CODES

MODEL	LENSES	FINISHES	MARINE GRADE	COLOR TEMPERATURES	CRI	BEAMS	PERFORMANCE
LD2B							2
LD2B	C Clear	-01 White	MG (optional)	27 2,700K	80 80+ CRI	M Narrow Flood (27°)	Use with Performance 1 or Performance 2 Housings
	F Frosted	-02 Black	May be applied on	30 3,000K	90 90+ CRI	W Flood (47°)	
	H Honeycomb	-03 24K Gold Plated	finishes: -01, -02,	35 3,500K	(only with 3,000K)		
	L Linear	-04 Chrome	-05, -06, -11 and	40 4,000K			
	P Prismatic	-04BR Brushed Chrome	-15.				
	S Solite	-05 Architectural Bronze					
		-06 Antique Copper					
		-11 Matte White					
		-12BR Brushed Nickel					
		-13 Satin Nickel					
		-15 Metallic Grey					

For future on site modification of the light distribution.

Ordering codes: replacement lenses.

Lenses (to modify light diffusion)

Linear: **103092** Honeycomb: **103089**
 Solite: **103098** Frosted: **316228**
 Prismatic: **103095** Clear: **103584**

Reflectors (to modify the beam angle)

For a Narrow Flood: **316082**
 For a Flood: **316211**

MARINE GRADE - Unless otherwise indicated, trims are for interior, cold and exterior locations where fixtures are not subject to direct rain or snow exposure as in soffits. **MARINE GRADE** treatment is recommended for exterior, shower and high salinity environment.



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1009, rue du Parc Industriel
 Lévis (Québec) G6Z 1C5 Canada
 Tel.: 1-888-839-4624
 Fax.: 1-877-839-7057
 contrastlighting.com
 info@contrastlighting.com

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