

Concerto LED - LD2A

4" Series

Low Profile Round 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 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 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), Honeycomb (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 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 _____

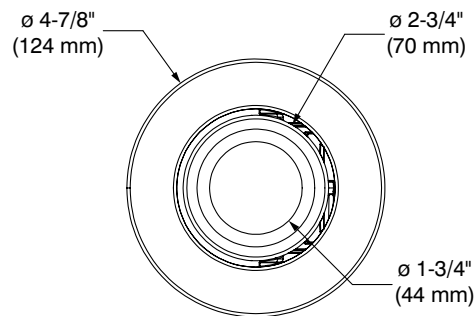
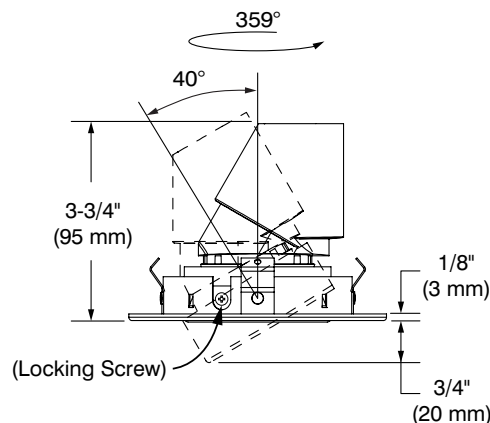
Notes _____

Fixture Type _____

Date _____



LD2AC-11
(illustrated)



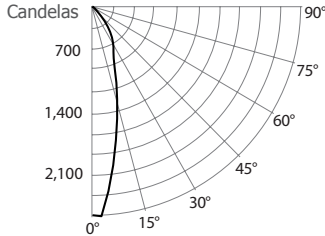
Concerto LED - LD2A

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	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

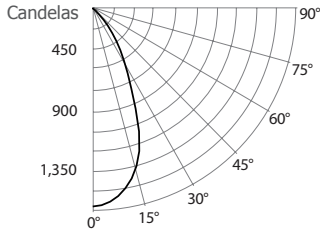
Local 38' x 38' x 10'. Workplan located 2 1/2' (30°).
Reflection factor of 80%/50%/30%.

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	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

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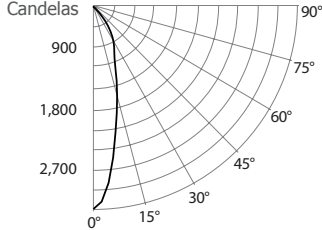
Concerto LED - LD2A

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	606976	

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80			50			30		
Wall Reflect %	50	30	50	30	50	30	50	30	50
RCR	0	119	119	111	111	106	106	106	106
	2	106	103	101	99	98	96	96	96
	4	96	91	92	89	90	87	87	87
	6	87	81	84	80	83	79	79	79
	8	78	73	76	72	76	72	72	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

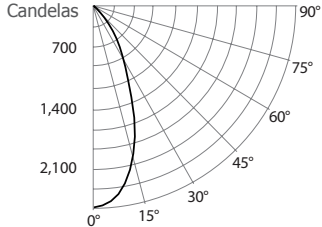
Local 38' x 38' x 10'. Workplan located 2 1/2' (30°).
Reflection factor of 80%/50%/30%.

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	606978	

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80			50			30		
Wall Reflect %	50	30	50	30	50	30	50	30	50
RCR	0	119	119	111	111	106	106	106	106
	2	106	103	101	99	99	97	97	97
	4	96	92	93	90	91	88	88	88
	6	88	83	85	82	84	81	81	81
	8	79	75	78	74	77	73	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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Concerto LED - LD2A

4" Series

LD2A MODEL PHOTOMETRIC DATA

With performance 1 housing

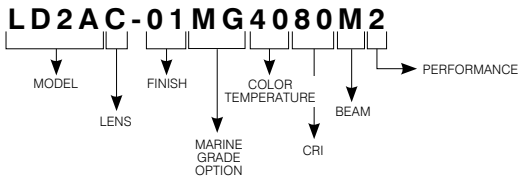
	Narrow Flood		Flood	
2,700K with 80 CRI	1,106 Lms	70.9 lm/W	1,000 Lms	63.7 lm/W
3,000K with 90 CRI	933 Lms	59 lm/W	862.2 Lms	54.3 lm/W
3,500K with 80 CRI	1,239 Lms	79 lm/W	1,153 Lms	73.4 lm/W
4,000K with 80 CRI	1,189 Lms	75.2 lm/W	1,256 Lms	79.5 lm/W

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 Lighting facts files are available on our Website.

CODIFICATION EXAMPLE



ORDERING CODES

MODEL	LENSES	FINISHES	MARINE GRADE	COLOR TEMPERATURE	CRI	BEAMS	PERFORMANCE
LD2A							2
LD2A	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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