

Concerto LED - LD2J

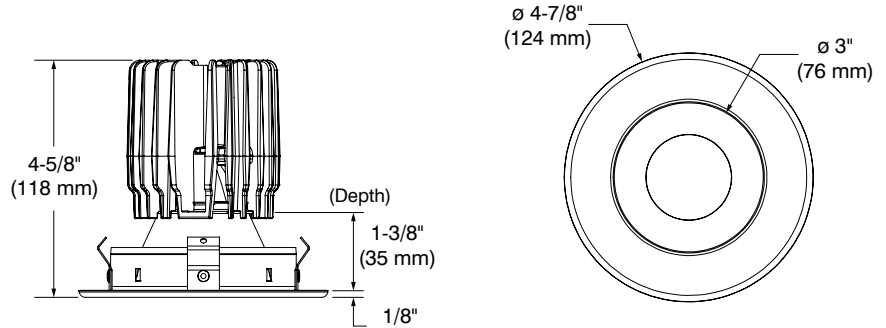
4" Series

Project	
Notes	
Fixture Type	
Date	

Low Profile Round Regressed Trim



LD2JC-04BR
(illustrated)



DESCRIPTION

This series of fixed round or square trims offered with narrow flood or flood beam 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 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. CREE CXA2530 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 4 steps on MacAdam ellipse. Both modules surpass ANSI binning requirements.		
DELIVERED LUMENS (Determined by the choice of housing)	Performance 1: 1,060 lumens, 66 lm/W	Performance 2: 1,370 lumens, 63 lm/W	Performance 3: 1,850 lumens, 63 lm/W
TRIM	Powder coated paint or plated die-formed steel. Different finishes available.		
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" (47 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 → 33° W: Flood → 48°		



Concerto LED - LD2J

4" Series

SPECIFICATIONS (CONT'D)

HEAT SINK High quality aluminum injected heat sink ensuring maximum heat dissipation.

REFLECTORS	Anodized	Specular	Painted
	Anodized Aluminum (AN)	Clear (CL) Black (BK)	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 4-1/4" (108 mm)**

COMPATIBLE HOUSINGS

(Performance 2 trims work with either performance 1 and 2 housings.)

(Performance 3 trims works only with performance 3 housings.)

	Remodel Housing	New Construction Housing	Insulated Housing
Performance 1 (1,500 lumens)	RELD200LD1 RELD200LV1	NWLD200LD1 NWLD200LV1	ISLD200LD1 ISLD200LV1
Performance 2 (2,000 lumens)	RELD200LD2 RELD200LV2	NWLD200LD2 NWLD200LV2	ISLD200LD2 ISLD200LV2
Performance 3 (2,500 lumens)	Not Available	NWLD200LD3	Not Available

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

CERTIFICATION cULus **E343977** for **damp locations**.

WARRANTY 1 year for standard finishes and 5 years on LED module.



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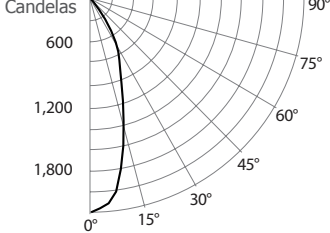
Concerto LED - LD2J

4" Series

PHOTOMETRIC DATA

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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	59.0	3.8'
08'	33.2	5.1'
10'	21.2	6.3'
12'	14.7	7.6'
14'	10.8	8.9'
16'	8.3	10.1'

Beam: 35°
Beam Edge defined as 50% of Maximum Nadir Candle-power.

LUMINAIRE

Performance 1 LED	3,000K	Narrow Flood
CBCP / Lumens	2,123	/ 1,040
Watts	120V	277V
	15.9W	16.4W
Operating AMPS	0.13A	0.059A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	80 +	
Lumens/Watt	65	
Spacing Criteria	0.6	
Certificate LM79-08	Based on test 475903	

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80	50	30				
Wall Reflect %	50	30	50	30	50	30	
RCR	0	119	119	111	111	106	106
	2	107	104	102	100	99	97
	4	98	94	95	91	93	90
	6	90	86	88	84	87	84
	8	83	79	82	78	81	77
	10	77	72	76	72	75	71

Zonal Cavity Method
Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	846	81.34%
0-40	1,002	96.41%
0-60	1,025	98.56%
60-90	15	1.44%
0-90	1,040	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	51	0.71
6'	28	0.4
7'	20	0.28
8'	20	0.28
9'	13	0.18

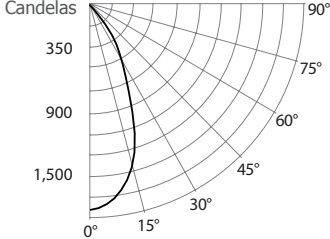
Local 38' x 38' x 10'. Workplan located 2 1/2' (30°).
Reflection factor of 80%/50%/30%.

CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS	DEGREES/VERTICAL	CANDELAS
0	2,123	45	14
5	2,044	55	8
10	1,723	65	5
15	1,265	75	6
20	894	85	6
25	672	90	0
35	250		

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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	47.8	5.1'
08'	26.9	6.8'
10'	17.2	8.5'
12'	12.0	10.2'
14'	8.8	11.9'
16'	6.7	13.5'

Beam: 46°
Beam Edge defined as 50% of Maximum Nadir Candle-power.

LUMINAIRE

Performance 1 LED	3,000K	Flood
CBCP / Lumens	1,722	/ 1,056
Watts	120V	277V
	16.1W	16.6W
Operating AMPS	0.19A	0.059A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	80 +	
Lumens/Watt	66	
Spacing Criteria	0.7	
Certificate LM79-08	Based on test 475906	

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80	50	30				
Wall Reflect %	50	30	50	30	50	30	
RCR	0	119	119	111	111	106	106
	2	104	100	99	96	96	94
	4	92	87	89	85	87	83
	6	82	77	80	76	79	75
	8	74	69	73	68	72	68
	10	68	62	66	62	66	61

Zonal Cavity Method
Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	859	81.3%
0-40	1,018	96.3%
0-60	1,042	98.5%
60-90	15	1.5%
0-90	1,056	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	51	0.71
6'	29	0.4
7'	20	0.28
8'	20	0.28
9'	13	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	1,722	45	16
5	1,683	55	8
10	1,544	65	5
15	1,326	75	6
20	1,055	85	6
25	726	90	0
35	254		



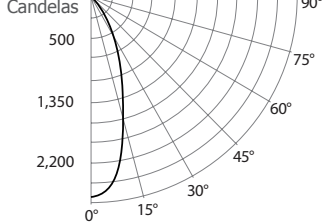
Concerto LED - LD2J

4" Series

PHOTOMETRIC DATA

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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	72.4	3.8'
08'	40.7	5.1'
10'	26.1	6.4'
12'	18.1	7.7'
14'	13.3	9.0'
16'	10.2	10.2'

Beam: 35°
Beam Edge defined as 50% of Maximum Nadir Candle-power.

LUMINAIRE

Performance 2 LED	3,000K	Narrow Flood
CBCP / Lumens	2,607	/ 1,278
Watts	120V	277V
	21.5W	22W
Operating AMPS	0.18A	0.079A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	80 +	
Lumens/Watt	59	
Spacing Criteria	0.6	
Certificate LM79-08	Based on test 475903	

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	104	101	99	97	96	94	94	
	4	93	88	89	85	88	84	84	
	6	83	78	81	77	80	76	76	
	8	75	70	74	69	73	69	69	
	10	69	64	68	63	67	63	63	

Zonal Cavity Method
Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1,039	81.3%
0-40	1,232	96.4%
0-60	1,260	98.6%
60-90	18	1.4%
0-90	1,278	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	62	0.71
6'	35	0.4
7'	24	0.28
8'	24	0.28
9'	16	0.18

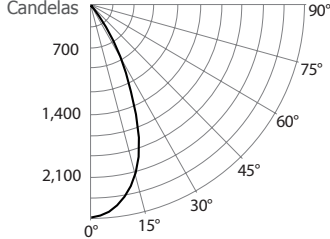
Local 38' x 38' x 10'. Workplan located 2 1/2' (30°).
Reflection factor of 80%/50%/30%.

CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS	DEGREES/VERTICAL	CANDELAS
0	2,607	45	18
5	2,510	55	9
10	2,116	65	6
15	1,554	75	8
20	1,097	85	7
25	825	90	0
35	307		

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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	60.8	5.3'
08'	34.2	7.1'
10'	21.9	8.8'
12'	15.2	10.6'
14'	11.2	12.4'
16'	8.5	14.1'

Beam: 48°
Beam Edge defined as 50% of Maximum Nadir Candle-power.

LUMINAIRE

Performance 2 LED	3,000K	Flood
CBCP / Lumens	2,187	/ 1,370
Watts	120V	277V
	21.5W	22W
Operating AMPS	0.18A	0.079A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	80 +	
Lumens/Watt	63.4	
Spacing Criteria	0.7	
Certificate LM79-08	Based on test 475915	

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	107	104	102	100	99	97	97	
	4	98	94	95	92	93	90	90	
	6	90	86	88	85	87	84	84	
	8	83	79	82	78	81	78	78	
	10	77	73	76	72	76	72	72	

Zonal Cavity Method
Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1,144	83.52%
0-40	1,322	96.51%
0-60	1,348	98.40%
60-90	22	1.60%
0-90	1,370	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	67	0.96
6'	37	0.54
7'	26	0.37
8'	26	0.37
9'	17	0.24

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	2,187	45	17
5	2,138	55	10
10	2,006	65	6
15	1,790	75	9
20	1,453	85	7
25	982	90	0
35	274		



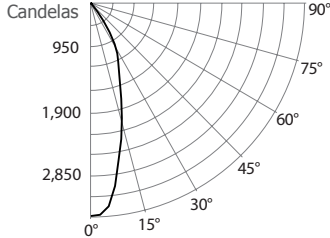
Concerto LED - LD2J

4" Series

PHOTOMETRIC DATA

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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	94.7	3.6'
08'	53.3	4.8'
10'	34.1	6.0'
12'	23.7	7.2'
14'	17.4	8.4'
16'	13.3	9.6'

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

LUMINAIRE

Performance 3 LED	3,000K	Narrow Flood
CBCP / Lumens	3,409	/ 1,566
Watts	120V	277V
	29.2W	29.7W
Operating AMPS	0.24A	0.107A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	80 +	
Lumens/Watt	53.6	
Spacing Criteria	0.5	
Certificate LM79-08	Based on test 607002	

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80			50			30			
Wall Reflect %	50	30	50	30	50	30	50	30	50	30
RCR	0	119	119	111	111	106	106	106	106	106
	2	107	104	102	100	99	98	98	98	98
	4	98	94	95	92	93	90	90	90	90
	6	91	86	88	85	87	84	84	84	84
	8	84	79	82	78	81	78	78	78	78
	10	77	73	76	72	76	72	72	72	72

Zonal Cavity Method
Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1,287	82.22%
0-40	1,512	96.58%
0-60	1,544	98.62%
60-90	22	1.38%
0-90	1,566	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	76	1.29
6'	43	0.73
7'	30	0.51
8'	30	0.51
9'	19	0.32

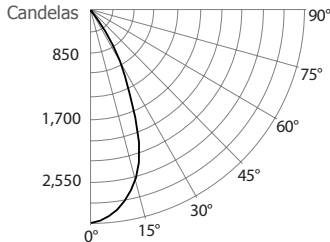
Local 38' x 38' x 10'. Workplan located 2 1/2' (30°).
Reflection factor of 80%/50%/30%.

CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS	DEGREES/VERTICAL	CANDELAS
0	3,409	45	22
5	3,272	55	11
10	2,549	65	8
15	1,912	75	9
20	1,352	85	8
25	1,030	90	0
35	355		

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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	83.8	5.2'
08'	47.1	7.0'
10'	30.2	8.7'
12'	20.9	10.4'
14'	15.4	12.2'
16'	11.8	13.9'

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

LUMINAIRE

Performance 3 LED	3,000K	Flood
CBCP / Lumens	3,016	/ 1,842
Watts	120V	277V
	29.28W	29.78W
Operating AMPS	0.25A	0.107A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	80 +	
Lumens/Watt	62.9	
Spacing Criteria	0.7	
Certificate LM79-08	Based on test 607004	

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80			50			30			
Wall Reflect %	50	30	50	30	50	30	50	30	50	30
RCR	0	119	119	111	111	106	106	106	106	106
	2	107	104	102	100	99	98	98	98	98
	4	98	94	95	92	94	91	91	91	91
	6	91	87	89	86	88	85	85	85	85
	8	84	80	83	79	82	78	78	78	78
	10	78	74	77	73	76	73	73	73	73

Zonal Cavity Method
Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1,558	84.61%
0-40	1,792	97.31%
0-60	1,821	98.88%
60-90	21	1.12%
0-90	1,842	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	90	1.3
6'	50	0.73
7'	35	0.51
8'	35	0.51
9'	22	0.32

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	3,016	45	20
5	2,933	55	11
10	2,749	65	7
15	2,464	75	8
20	1,996	85	8
25	1,300	90	0
35	361		



Concerto LED - LD2J

4" Series**LD2J MODEL PHOTOMETRIC DATA****With performance 1 housing**

	Narrow Flood		Flood	
2,700K with 80 CRI	985.9 Lms	61.4 lm/W	966 Lms	61.5 lm/W
3,000K with 90 CRI	832 Lms	53 lm/W	745 Lms	46.3 lm/W
3,500K with 80 CRI	1,102 Lms	70.2 lm/W	1,141 Lms	72.6 lm/W
4,000K with 80 CRI	1,123 Lms	71.5 lm/W	1,139 Lms	70.3 lm/W

With performance 2 housing

	Narrow Flood		Flood	
2,700K with 80 CRI	1,284 Lms	59.7 lm/W	1,260 Lms	58.6 lm/W
3,000K with 90 CRI	947 Lms	41.2 lm/W	1,097 Lms	49.6 lm/W
3,500K with 80 CRI	1,359 Lms	62.9 lm/W	1,452 Lms	67.5 lm/W
4,000K with 80 CRI	1,516 Lms	66.2 lm/W	1,480 Lms	68.8 lm/W

With performance 3 housing

	Narrow Flood		Flood	
2,700K with 80 CRI	1,760 Lms	60.7 lm/W	1,728 Lms	58.8 lm/W
3,000K with 90 CRI	1,183 Lms	40.5 lm/W	1,465 Lms	50 lm/W
3,500K with 80 CRI	1,359 Lms	46.9 lm/W	1,763 Lms	60.8 lm/W
4,000K with 80 CRI	1,517 Lms	51.6 lm/W	1,797 Lms	61.1 lm/W

* All .ies files are available on our Website.



CONTRASTE

2019-10
Revision 3

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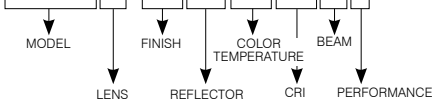
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Concerto LED - LD2J

4" Series

CODIFICATION EXAMPLE

LD2JC-01012780M2



ORDERING CODES

MODEL	LENSES	TRIM FINISHES	REFLECTORS	COLOR TEMPERATURES	CRI	BEAMS	PERFORMANCE
LD2J							
LD2J	C Clear	-01 White	ANODIZED	27 2,700K	80 80+ CRI	M Narrow Flood (33°)	2
	F Frosted	-02 Black	AN Anodized Aluminum	30 3,000K	90 90+ CRI	W Flood (48°)	3
	H Honeycomb	-03 24K Gold Plated		35 3,500K	(only with 3,000K)		Use with Performance 1 or Performance 2 Housings
	L Linear	-04 Chrome	SPECULAR	40 4,000K			
	P Prismatic	-04BR Brushed Chrome	CL Clear				
	S Solite	-05 Architectural Bronze	BK Black				
		-06 Antique Copper	PAINTED				
		-11 Matte White	01 White*				
		-12BR Brushed Nickel	02 Black				
		-13 Satin Nickel	05 Architectural Bronze*				
		-15 Metallic Grey	06 Antique Copper*				
			11 Matte White*				
			15 Metallic Grey*				

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

For future on site modification of the light distribution.

Ordering codes: replacement lenses and reflectors.

Lenses (to modify the light diffusion)

Linear: **103091** Honeycomb: **103089**
 Solite: **103097** Frosted: **313206**
 Prismatic: **103094** Clear: **102958**

Reflectors (to modify the beam angle)

For a Narrow Flood: **316082**
 For a Flood: **316083**



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