

Concerto LED - LD3H

3-1/2" Series

Low Profile Square Shower Trim

Project	
Notes	
Fixture Type	
Date	

DESCRIPTION

This series round or square trims, wide beam and frosted lens, illuminates almost entirely confined space 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 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.
DELIVERED LUMENS (Determined by the choice of housing)	Performance 1: 870 lumens, 55 lm/W Performance 2: 1,150 lumens, 53 lm/W
TRIM	Powder coated paint or plated die-formed steel. Different finishes available. Painted finishes available with Marine Grade option.
BEAM	W: Flood → 42°
LENS	Choice of lenses available: Clear (C), Frosted (F), Frosted with clear center (FC)
HEAT SINK	High quality aluminum injected heat sink ensuring maximum heat dissipation.
CEILING CUTOUT	Ø 3-5/8" (92 mm)

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)	RELD300LE1	NWLD300LE1	ISLD300LE1
		RELD300LD1	NWLD300LD1	ISLD300LD1
		RELD300LA1	NWLD300LA1	ISLD300LA1
	Performance 2 (2,000 lumens)	RELD300LE2	NWLD300LE2	ISLD300LE2
		RELD300LD2	NWLD300LD2	ISLD300LD2
		RELD300LA2	NWLD300LA2	ISLD300LA2

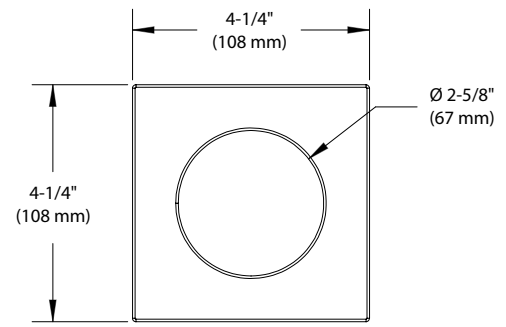
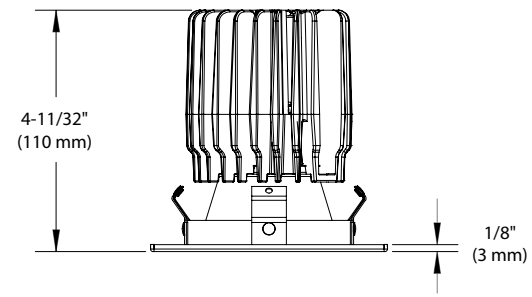
For dimming, please refer to the selected housing specification sheet.

CERTIFICATION • cULus **E343977** for **wet locations**

WARRANTY 1 year for standard finished, 2 years on "Marine Grade" finish and 5 years on LED module.



LD3HF-05 (illustrated)



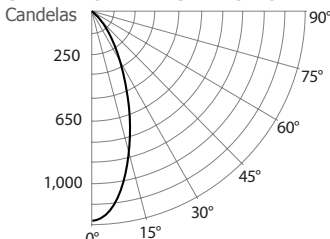
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PHOTOMETRIC DATA

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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	35.2	4.6'
08'	19.8	6.1'
10'	12.7	7.6'
12'	8.8	9.1'
14'	6.5	10.7'
16'	5.0	12.2'

Beam: 42°
Beam Edge defined as 50% of Maximum Nadir Candle-power.

LUMINAIRE

Performance 1 LED	3,000K Flood	
CBCP / Lumens	1,268	/ 866
Watts	120V	277V
	15.7W	16.2W
Operating AMPS	0.13A	0.058A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	80 +	
Lumens/Watt	55	
Spacing Criteria	0.7	
Certificate LM79-08	475927	

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	98	96	96	93
	4	92	87	88	84	86	83
	6	82	76	80	75	78	74
	8	73	68	72	67	71	66
	10	66	61	65	60	64	60

Zonal Cavity Method
Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	571	65.92%
0-40	710	82.02%
0-60	827	95.52%
60-90	39	4.48%
0-90	866	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	41	0.7
6'	23	0.39
7'	16	0.27
8'	16	0.27
9'	10	0.17

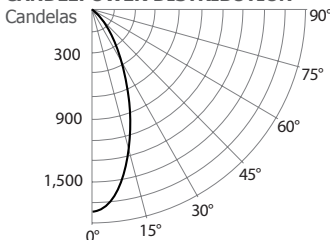
Local 38' x 38' x 10'. Workplane located 2 1/2' (30").
Reflection factor of 80%/50%/30%

CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS	DEGREES/VERTICAL	CANDELAS
0	1,268	45	94
5	1,211	55	47
10	1,062	65	25
15	867	75	11
20	666	85	2
25	482	90	0
35	220		

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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	46.9	4.6'
08'	26.4	6.1'
10'	16.9	7.6'
12'	11.7	9.1'
14'	8.6	10.7'
16'	6.6	12.2'

Beam: 42°
Beam Edge defined as 50% of Maximum Nadir Candle-power.

LUMINAIRE

Performance 2 LED	3,000K Flood	
CBCP / Lumens	1,690	/ 1,146
Watts	120V	277V
	21.5W	22.0W
Operating AMPS	0.18A	0.079A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	+ 80	
Lumens/Watt	53	
Spacing Criteria	0.7	
Certificate LM79-08	475935	

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	68	72	67	71	67
	10	66	61	65	60	65	60

Zonal Cavity Method
Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	761	66.40%
0-40	946	82.56%
0-60	1,099	95.85%
60-90	48	4.15%
0-90	1,146	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	55	0.96
6'	31	0.54
7'	22	0.37
8'	22	0.37
9'	14	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	1,690	45	123
5	1,613	55	60
10	1,415	65	32
15	1,154	75	13
20	887	85	1
25	645	90	0
35	292		

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LIGHTING FACTS


CONCERTO

Light Output (Lumens)	877
Watts	15.68
Lumens per Watt (Efficacy)	55

Color Accuracy Color Rendering Index (CRI)	81
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Light Color
Correlated Color Temperature (CCT) **3036 (Bright White)**




2700K 3000K 4500K 6500K

All results are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the Label Reference Guide.


Registration Number: LVBP-BYOXVW (7/22/2014)
Model Number: LD3H-3080W2 ISLDXX1, RELDXX1, NWLDXX1
Type: Luminaire - Downlight


CONCERTO

Light Output (Lumens)	1184
Watts	21.57
Lumens per Watt (Efficacy)	54

Color Accuracy Color Rendering Index (CRI)	81
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Light Color
Correlated Color Temperature (CCT) **3053 (Bright White)**



2700K 3000K 4500K 6500K

All results are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

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Registration Number: LVBP-F3L12Q (7/22/2014)
Model Number: LD3H-3080W2 ISLDXX2, RELDXX2, NWLDXX2
Type: Luminaire - Downlight

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LD3H MODEL PHOTOMETRIC DATA

With performance 1 housing

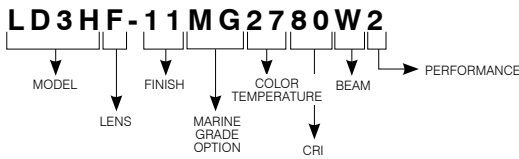
	Flood	
2,700K with 80 CRI	913.6 Lms	57.2 lm/W
3,000K with 90 CRI	715.4 Lms	44.6 lm/W
3,500K with 80 CRI	1,004 Lms	63.1 lm/W
4,000K with 80 CRI	1,023 Lms	65.2 lm/W

With performance 2 housing

	Flood	
2,700K with 80 CRI	1,128 Lms	51.3 lm/W
3,000K with 90 CRI	942 Lms	42.8 lm/W
3,500K with 80 CRI	1,270 Lms	58.1 lm/W
4,000K with 80 CRI	1,294 Lms	60.2 lm/W

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

CODIFICATION EXAMPLE



ORDERING CODE

MODEL	LENS	FINISH	MARINE GRADE	COLOR TEMPERATURE	CRI	BEAM	PERFORMANCE
LD3H						W	2
LD3H	F Frosted	-01 White	MG (optional)	27 2,700K	80 80+ CRI	W Flood (42°)	2
	FC Frosted with clear center	-02 Black	May be applied on finishes: -01, -02, -05, -06, -11 and -15.	30 3,000K	90 90+ CRI		
	C Clear	-03 Gold Plated 24K		35 3,500K	(only with 3,000K)		
		-04 Chrome		40 4,000K			
		-04BR Brushed Chrome					
		-05 Architectural Bronze					
		-06 Antique Copper					
		-11 Matte White					
		-12BR Brushed Nickel					
		-13 Satin Nickel					
		-15 Metallic Grey					
		-17 Antique Nickel					

Use with Performance 1 (1,500 lumens) or Performance 2 (2,000 lumens) Housings

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.

