

# UR3H

## 3-1/2" Series Square Shower Trim with Square Pinhole Aperture



Project \_\_\_\_\_

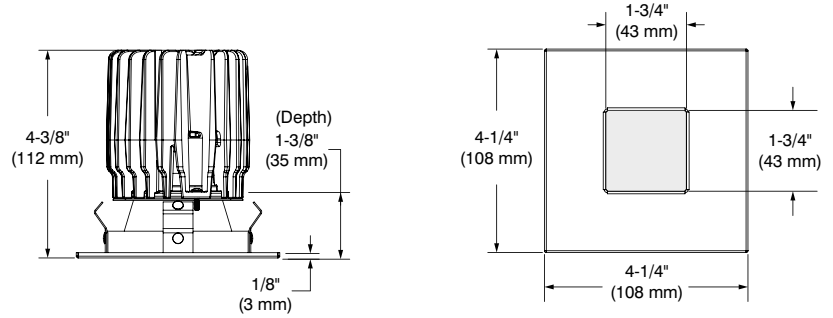
Notes \_\_\_\_\_

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

Date \_\_\_\_\_



UR3HF-1111 (illustrated)



## SPECIFICATIONS

### LED MODULE

#### SOLID COLORS

Lumileds Luxeon CoB  
 2,700K - CRI: 80+ and 90+  
 3,000K - CRI: 80+ and 90+  
 3,500K - CRI: 90+  
 4,000K - CRI: 90+  
 Lumens Maintenance:  
 L<sub>70</sub> @ 50,000 hours  
 Binning: 3 SDCM

### LED MODULE (CONT'D)

#### WARM DIMMING (WD)

LED module mimicking the halogen lamp dimming conditions by lowering color temperature from 3,050K at full intensity down to 1,800K at low-end while ensuring 90+ CRI throughout the whole process.  
 Lumens Maintenance:  
 L<sub>70</sub> @ 50,000 hours  
 Binning: 3 SDCM

### DELIVERED LUMENS

#### Performance 1 (10W):

**520 lumens @ 3,000K, 52 lm/W**

#### Performance 2 (15W):

**677 lumens @ 3,000K, 45.1 lm/W**

Warm Dimming (WD)

**332 lumens @ 3,000K, 22.1 lm/W**

### OPTIC SYSTEM\*

Optical reflectors available:  
 Narrow Flood and Flood

Standard	
Narrow Flood (M)	32°
Flood (L)	48°

\* Average beams shown. Consult .ies files on our Website for more details.

### LENSES

Clear (C)  
 Frosted (F)

### PAINTED REFLECTORS

Natural Anodized Aluminum (AN)  
 Matte White (11)  
 Matte Black (22)

### POWER SUPPLY

#### (Determined by the choice of housing)

120V, 277V or 120V/277V  
 Several driver models available in two performances (10W and 15W) and in two dimming options (ELV and 0-10V).  
 See housing specification sheets for more details.

### HEAT SINK

High quality aluminum injected heat sink ensuring maximum heat dissipation.

### TRIM

Powder coat painted or plated die-formed steel. Double seals.

### CEILING CUTOUT

ø 3-3/4" (95 mm)

# UR3H

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### SPECIFICATIONS (CONT'D)

#### COMPATIBLE HOUSINGS

	Remodel Housings	New Construction Housings	IC Housings
<b>Performance 1</b> 10W Warm Dimming not compatible	<b>IC and Air Tight</b> REUR3-120D1 REUR3-120E1 REUR3-277D1 REUR3-UV1	<b>IC and Air Tight</b> NWUR3-120D1 NWUR3-120E1 NWUR3-277D1 NWUR3-UV1 <b>Emergency Driver Non-IC and Air Tight</b> NWUR3-120D1-EM NWUR3-120E1-EM NWUR3-277D1-EM NWUR3-UV1-EM	<b>Air Tight</b> ISUR3-120D1 ISUR3-120E1 ISUR3-277D1 ISUR3-UV1 <b>Chicago Plenum and Polyurethane Air Tight</b> ISUR3-120D1P ISUR3-120E1P ISUR3-277D1P ISUR3-UV1P
<b>Performance 2</b> 15W MAX	<b>Non-IC and Air Tight</b> REUR3-120D2 REUR3-120E2 REUR3-120EB2 REUR3-2772 REUR3-277D2 REUR3-UV2	<b>Non-IC and Air Tight</b> NWUR3-120D2 NWUR3-120E2 NWUR3-120EB2 NWUR3-2772 NWUR3-277D2 NWUR3-UV2 <b>Emergency Driver Non-IC and Air Tight</b> NWUR3-120D2-EM NWUR3-120E2-EM NWUR3-120EB2-EM NWUR3-2772-EM NWUR3-277D2-EM NWUR3-UV2-EM	<b>Air Tight</b> ISUR3-120D2 ISUR3-120E2 ISUR3-120EB2 ISUR3-2772 ISUR3-277D2 ISUR3-UV2 <b>Chicago Plenum Air Tight</b> ISUR3-120D2P ISUR3-120E2P ISUR3-120EB2P ISUR3-2772P ISUR3-277D2P ISUR3-UV2P

For dimming, please visit our Web site frequently to find our suggested compatible dimmers list:  
[www.contrastlighting.com](http://www.contrastlighting.com)

Contraste suggests ordering  
**EB2 (ELV (+Value)/15W), D2 (0-10V/15W)**  
 or  
**UV2 (ELV/0-10V/15W)**  
 dimming type and performance to use with Warm Dimming

#### CERTIFICATION

cULus **E343977** for wet locations  
 Certified under California Energy Commission according to reference Appendix JA8

#### WARRANTY

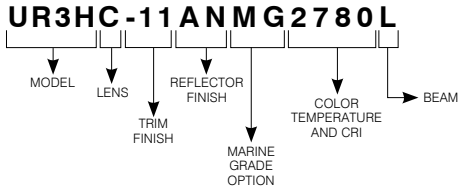
1 year on components against manufacturing defects  
 5 years on LED arrays and drivers

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## 3-1/2" Series Square Shower Trim with Square Pinhole Aperture



### CODIFICATION EXAMPLE



### ORDERING CODES

MODEL	LENSES	TRIM FINISHES	REFLECTOR FINISHES	MARINE GRADE	COLOR TEMPERATURES AND CRI	BEAMS
<b>UR3H</b>						
<b>UR3H</b>	<b>C</b> Clear	<b>-01</b> White	<b>PAINTED</b>	<b>MG (optional)</b>	<b>2780</b> 2,700K (80+ CRI)	<b>M</b> Narrow Flood (32°)
	<b>F</b> Frosted	<b>-03SA</b> Satin Gold	<b>AN</b> Natural Anodized Aluminum	May be applied	<b>3080</b> 3,000K (80+ CRI)	<b>L</b> Flood (48°)
		<b>-04BR</b> Brushed Chrome	<b>11</b> Matte White	on finishes: -01, -11, -22 and -25	<b>2790</b> 2,700K (90+ CRI)	
		<b>-11</b> Matte White	<b>22</b> Matte Black		<b>3090</b> 3,000K (90+ CRI)	
		<b>-12BR</b> Brushed Nickel	(Not available with <b>-03SA</b> finish)		<b>3590</b> 3,500K (90+ CRI)	
		<b>-13</b> Satin Nickel			<b>4090</b> 4,000K (90+ CRI)	
		<b>-22</b> Matte Black			<b>WD90</b> Warm Dimming (90+ CRI)	
		<b>-25</b> Polar Grey				
		(-25 finish perfectly matches with <b>AN</b> reflector finish)			Compatible with 15W drivers only (EB2, D2 and UV2)	

### GOOF RINGS

Goof rings will help you fix larger than necessary or damaged ceiling cutouts.

- Code:** **RS3-01** (White)  
**RS3-03SA** (Satin Gold)  
**RS3-04BR** (Brushed Chrome)  
**RS3-11** (Matte White)  
**RS3-12BR** (Brushed Nickel)  
**RS3-13** (Satin Nickel)  
**RS3-22** (Matte Black)  
**RS3-25** (Polar Grey)

Outside diameter: 5" (127 mm) x 5" (127 mm)  
 Inside diameter: ø 3-11/16" (94 mm)

### MARINE GRADE

2-year warranty on finish

This option increases the painted finishes resistance by reducing and delaying apparition and propagation of oxidation (ex: rust and others).

MARINE GRADE treatment is recommended for damp to wet locations.

Unless otherwise indicated, trims are for interior use. Also suitable for cold and exterior locations, as in soffits, where fixtures are not subject to direct rain or snow exposure.

**WARNING** – This option is not suitable for salt environments and/or highly corrosive areas such as soffits in coastal regions and natatoriums. Such usage would void warranty on the product.

# UR3H

## 3-1/2" Series

### Square Shower Trim with Square Pinhole Aperture



## PHOTOMETRIC DATA

In order to obtain the accurate photometric data, multiply the lumens relative to your product selection by the applicable factor(s) below tables. Take note these factors also need to be implemented in the .ies files available on our website.

#### With performance 1 housing

	Narrow Flood (32°)		Flood (48°)	
<b>2,700K with 80+ CRI</b>	508 lm	50.8 lm/W	508 lm	50.8 lm/W
<b>3,000K with 80+ CRI</b>	520 lm	52 lm/W	520 lm	52 lm/W
<b>2,700K with 90+ CRI</b>	422 lm	42.2 lm/W	422 lm	42.2 lm/W
<b>3,000K with 90+ CRI</b>	436 lm	43.6 lm/W	436 lm	43.6 lm/W
<b>3,500K with 90+ CRI</b>	460 lm	46 lm/W	460 lm	46 lm/W
<b>4,000K with 90+ CRI</b>	472 lm	47.2 lm/W	472 lm	47.2 lm/W
<b>Warm Dimming with 90+ CRI</b>	Non disponible avec les boîtiers performance 1			

Performance 1 Housings Factors	
<b>XXUR-120E1</b>	0.90
<b>XXUR-120D1 or XXUR-277D1</b>	1

#### With performance 2 housing

	Narrow Flood (32°)		Flood (48°)	
<b>2,700K with 80+ CRI</b>	661 lm	44 lm/W	661 lm	44 lm/W
<b>3,000K with 80+ CRI</b>	677 lm	45.1 lm/W	677 lm	45.1 lm/W
<b>2,700K with 90+ CRI</b>	549 lm	36.6 lm/W	549 lm	36.6 lm/W
<b>3,000K with 90+ CRI</b>	567 lm	37.8 lm/W	567 lm	37.8 lm/W
<b>3,500K with 90+ CRI</b>	599 lm	39.9 lm/W	599 lm	39.9 lm/W
<b>4,000K with 90+ CRI</b>	615 lm	41 lm/W	615 lm	41 lm/W
<b>Warm Dimming with 90+ CRI</b>	332 lm	22.1 lm/W	332 lm	22.1 lm/W

Performance 2 Housings Factors	
<b>XXUR-120E2</b>	0.95
<b>XXUR-120EB2, XXUR-120D2, XXUR-2772 or XXUR-277D2</b>	1

Lens Factors	
<b>C</b>	1
<b>F</b>	0.69

Reflectors Factors	
<b>AN</b>	0.99
<b>11</b>	1
<b>22</b>	0.97

# CONTRASTE

# UR3H

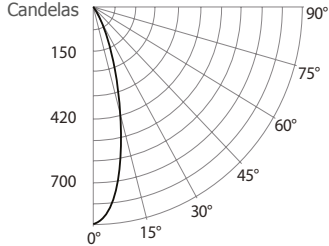
## 3-1/2" Series Square Shower Trim with Square Pinhole Aperture



### PHOTOMETRIC DATA

#### 3,000K, 90+ CRI, Narrow Flood, Performance 1 — WITH FROSTED LENS

##### CANDLEPOWER DISTRIBUTION



##### LIGHT CONE

Distance	FC	DIA
06'	23.2	3.5'
08'	13.1	4.7'
10'	8.4	5.9'
12'	5.8	7.1'
14'	4.3	8.3'
16'	3.3	9.5'

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

##### LUMINAIRE

Performance 1 LED	3,000K Narrow Flood	
CPCB / Lumens	835	/ 302.7
Watts	120V	277V
	10W	10W
Operating AMPS	0.083A	0.036A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	30.3	
Spacing Criteria	0.14	

##### 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	102	99	99	97	97	
	4	96	92	93	90	91	88	88	
	6	88	83	86	82	85	81	81	
	8	81	76	80	76	79	75	75	
	10	75	71	74	70	73	70	70	

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

##### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	279.2	92.2%
0-40	300.4	99.2%
0-60	302.7	100%
60-90	0.000	0%
0-90	302.7	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/ SQ. FT.
5'	15	0.44
6'	8	0.25
7'	6	0.17
8'	6	0.17
9'	4	0.11

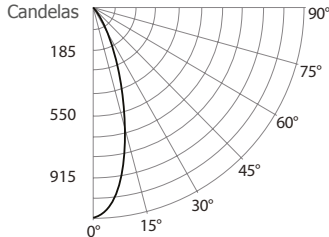
38' x 38' x 10' Room. Workplan located 2-1/2' (30").  
Reflectance factor 80%/50%/30%

##### CANDELAS DISTRIBUTION

DEGREES/ VERTICAL	CANDELAS
0	835
15	467
30	89
45	2
65	0
75	0
90	0

#### 3,000K, 90+ CRI, Narrow Flood, Performance 2 — WITH FROSTED LENS

##### CANDLEPOWER DISTRIBUTION



##### LIGHT CONE

Distance	FC	DIA
06'	30.2	3.5'
08'	17.0	4.7'
10'	10.9	5.9'
12'	7.6	7.1'
14'	5.6	8.3'
16'	4.3	9.5'

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

##### LUMINAIRE

Performance 2 LED	3,000K Narrow Flood	
CPCB / Lumens	1,088	/ 395.1
Watts	120V	277V
	15W	15W
Operating AMPS	0.125A	0.054A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	26.3	
Spacing Criteria	0.14	

##### 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	102	99	99	97	97	
	4	96	92	93	90	91	88	88	
	6	88	83	86	82	85	81	81	
	8	81	76	80	76	79	75	75	
	10	75	71	74	70	73	70	70	

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

##### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	364.4	92.2%
0-40	392.1	99.3%
0-60	395.1	100%
60-90	0.000	0%
0-90	395.1	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/ SQ. FT.
5'	20	0.66
6'	11	0.37
7'	8	0.26
8'	8	0.26
9'	5	0.17

38' x 38' x 10' Room. Workplan located 2-1/2' (30").  
Reflectance factor 80%/50%/30%

##### CANDELAS DISTRIBUTION

DEGREES/ VERTICAL	CANDELAS
0	1,088
15	609
30	117
45	3
65	0
75	0
90	0

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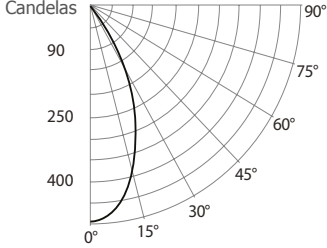
## 3-1/2" Series Square Shower Trim with Square Pinhole Aperture



### PHOTOMETRIC DATA

#### 3,000K, 90+ CRI, Flood, Performance 1 — WITH FROSTED LENS

##### CANDLEPOWER DISTRIBUTION



##### LIGHT CONE

Distance	FC	DIA
06'	13.6	5.4'
08'	7.6	7.2'
10'	4.9	9.0'
12'	3.4	10.8'
14'	2.5	12.6'
16'	1.9	14.4'

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

##### LUMINAIRE

<b>Performance 1 LED</b>	3,000K Flood	
<b>CPCB / Lumens</b>	488	/ 308.2
<b>Watts</b>	<b>120V</b>	<b>277V</b>
	10W	10W
<b>Operating AMPS</b>	0.083A	0.036A
<b>Lumen Maintenance</b>	L70 @ 50,000 Hrs	
<b>CRI</b>	90+	
<b>Lumens/Watt</b>	30.8	
<b>Spacing Criteria</b>	0.20	

##### COEFFICIENT OF UTILIZATION - %

Wall Reflect %	80		50		30		
	50	30	50	30	50	30	
<b>RCR</b>	0	119	119	111	111	106	106
	2	105	101	100	97	97	94
	4	93	88	89	85	87	84
	6	83	77	81	76	79	75
	8	75	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	253.4	82.2%
0-40	297.2	96.4%
0-60	307.8	99.9%
60-90	0.4	0.1%
0-90	308.2	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/ SQ. FT.
5'	34	0.66
6'	19	0.37
7'	13	0.26
8'	13	0.26
9'	8	0.17

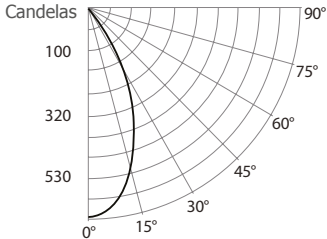
38' x 38' x 10' Room. Workplan located 2-1/2' (30").  
Reflectance factor 80%/50%/30%

##### CANDELAS DISTRIBUTION

DEGREES/ VERTICAL	CANDELAS
0	488
15	386
30	135
45	11
65	1
75	0
90	0

#### 3,000K, 90+ CRI, Flood, Performance 2 — WITH FROSTED LENS

##### CANDLEPOWER DISTRIBUTION



##### LIGHT CONE

Distance	FC	DIA
06'	17.7	5.4'
08'	9.9	7.2'
10'	6.4	9.0'
12'	4.4	10.8'
14'	3.2	12.6'
16'	2.5	14.4'

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

##### LUMINAIRE

<b>Performance 2 LED</b>	3,000K Flood	
<b>CPCB / Lumens</b>	636	/ 400.7
<b>Watts</b>	<b>120V</b>	<b>277V</b>
	15W	15W
<b>Operating AMPS</b>	0.125A	0.054A
<b>Lumen Maintenance</b>	L70 @ 50,000 Hrs	
<b>CRI</b>	90+	
<b>Lumens/Watt</b>	26.7	
<b>Spacing Criteria</b>	0.19	

##### 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	105	101	100	97	97	94
	4	93	88	89	85	88	84
	6	83	77	81	76	79	75
	8	75	69	73	68	72	68
	10	68	62	67	62	66	62

**Zonal Cavity Method**  
Effective Floor Cavity Reflectance 20%

##### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	329.9	82.3%
0-40	386.7	96.5%
0-60	400.3	99.9%
60-90	0.4	0.1%
0-90	400.7	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/ SQ. FT.
5'	20	0.66
6'	11	0.37
7'	8	0.26
8'	8	0.26
9'	5	0.17

38' x 38' x 10' Room. Workplan located 2-1/2' (30").  
Reflectance factor 80%/50%/30%

##### CANDELAS DISTRIBUTION

DEGREES/ VERTICAL	CANDELAS
0	636
15	503
30	176
45	14
65	1
75	0
90	0