

# UR4H

## 4" Series Square Shower Trim with Square Opening



Project \_\_\_\_\_

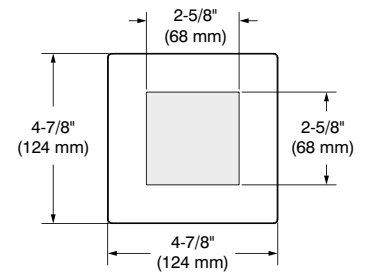
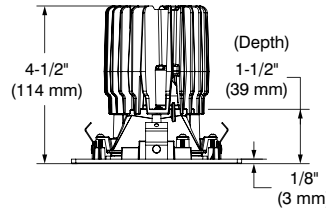
Notes \_\_\_\_\_

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

Date \_\_\_\_\_



UR4HF-12BRAN (illustrated)



### SPECIFICATIONS

#### LED MODULE

##### SOLID COLORS

Lumileds Luxeon CoB

2,700K - CRI: 80+

3,000K - CRI: 80+

2,700K - CRI: 90+

3,000K - CRI: 90+

3,500K - CRI: 90+

4,000K - CRI: 90+



Lumens Maintenance:

$L_{70}$  @ 50,000 hours

Color 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:

$L_{70}$  @ 50,000 hours

Color Binning: 3 SDCM

#### DELIVERED LUMENS

**Performance 1 (10W):**

**747 lumens @ 3,000K, 74.7 lm/W**

**Performance 2 (15W):**

**972 lumens @ 3,000K, 64.8 lm/W**

Warm Dimming (WD)

**476 lumens @ 3,000K, 31.7 lm/W**

#### OPTIC SYSTEM\*

Optical reflector 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 4-1/4" (108 mm)**

# UR4H

**4" Series****Square Shower Trim with Square Opening**

## 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> REUR4-120D1 REUR4-120E1 REUR4-277D1 REUR4-UV1	<b>IC and Air Tight</b> NWUR4-120D1 NWUR4-120E1 NWUR4-277D1 NWUR4-UV1 <b>Emergency Driver Non-IC and Air Tight</b> NWUR4-120D1-EM NWUR4-120E1-EM NWUR4-277D1-EM NWUR4-UV1-EM	<b>Air Tight</b> ISUR4-120D1 ISUR4-120E1 ISUR4-277D1 ISUR4-UV1 <b>Chicago Plenum and Polyurethane Air Tight</b> ISUR4-120D1P ISUR4-120E1P ISUR4-277D1P ISUR4-UV1P
<b>Performance 2</b> 15W MAX	<b>Non-IC and Air Tight</b> REUR4-120D2 REUR4-120E2 REUR4-120EB2 REUR4-2772 REUR4-277D2 REUR4-UV2	<b>Non-IC and Air Tight</b> NWUR4-120D2 NWUR4-120E2 NWUR4-120EB2 NWUR4-2772 NWUR4-277D2 NWUR4-UV2 <b>Emergency Driver Non-IC and Air Tight</b> NWUR4-120D2-EM NWUR4-120E2-EM NWUR4-120EB2-EM NWUR4-2772-EM NWUR4-277D2-EM NWUR4-UV2-EM	<b>Air Tight</b> ISUR4-120D2 ISUR4-120E2 ISUR4-120EB2 ISUR4-2772 ISUR4-277D2 ISUR4-UV2 <b>Chicago Plenum Air Tight</b> ISUR4-120D2P ISUR4-120E2P ISUR4-120EB2P ISUR4-2772P ISUR4-277D2P ISUR4-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

**COMPATIBLE HOUSINGS**

	Remodel Housings	New Construction Housings	IC Housings
<b>Performance 1</b> 10W	<b>IC and Air Tight</b> REUR4-120D1	<b>IC and Air Tight</b> NWUR4-120D1	<b>Air Tight</b> ISUR4-120D1
<b>Performance 2</b> 15W	N/A	N/A	<b>Air Tight</b> ISUR4-120D2

**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

# CONTRASTE

2018-02  
Revision 1

PRINTED IN CANADA

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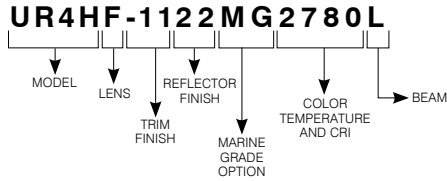
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# UR4H

## 4" Series Square Shower Trim with Square Opening



### CODIFICATION EXAMPLE



**JA8** certified trim available with clear lens (C) and with 90+ CRI only.  
Not available with Warm Dimming

### ORDERING CODES

MODEL	LENSES	TRIM FINISHES	REFLECTOR FINISHES	MARINE GRADE	COLOR TEMPERATURES AND CRI	BEAMS
<b>UR4H</b>						
<b>UR4H</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 on finishes: -01, -11, -22 and -25	<b>3080</b> 3,000K (80+ CRI)	<b>L</b> Flood (48°)
		<b>-04BR</b> Brushed Chrome	<b>11</b> Matte White		<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:** **RS4-01** (White)  
**RS4-03SA** (Satin Gold)  
**RS4-04BR** (Brushed Chrome)  
**RS4-11** (Matte White)  
**RS4-12BR** (Brushed Nickel)  
**RS4-13** (Satin Nickel)  
**RS4-22** (Matte Black)  
**RS4-25** (Polar Grey)

Outside diameter: 5-1/2" (140 mm) x 5-1/2" (140 mm)  
 Inside diameter: ø 4-1/8" (105 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.

# UR4H

## 4" Series Square Shower Trim with Square Opening



### 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°)		
2,700K with 80+ CRI	729 lm	72.9 lm/W
3,000K with 80+ CRI	747 lm	74.7 lm/W
2,700K with 90+ CRI	605 lm	60.5 lm/W
3,000K with 90+ CRI	626 lm	62.6 lm/W
3,500K with 90+ CRI	661 lm	66.1 lm/W
4,000K with 90+ CRI	678 lm	67.8 lm/W
Warm Dimming with 90+ CRI	Not available With performance1 housings	

Flood (48°)		
2,700K with 80+ CRI	729 lm	72.9 lm/W
3,000K with 80+ CRI	747 lm	74.7 lm/W
2,700K with 90+ CRI	605 lm	60.5 lm/W
3,000K with 90+ CRI	626 lm	62.6 lm/W
3,500K with 90+ CRI	661 lm	66.1 lm/W
4,000K with 90+ CRI	678 lm	67.8 lm/W
Warm Dimming with 90+ CRI	Not available With performance1 housings	



Performance 1 Housings Factors	
XXUR-120E1	0.90
XXUR-120D1 or XXUR-277D1	1

#### With performance 2 housing

Narrow Flood (32°)		
2,700K with 80+ CRI	949 lm	63.2 lm/W
3,000K with 80+ CRI	972 lm	64.8 lm/W
2,700K with 90+ CRI	788 lm	52.5 lm/W
3,000K with 90+ CRI	815 lm	54.3 lm/W
3,500K with 90+ CRI	860 lm	57.3 lm/W
4,000K with 90+ CRI	883 lm	58.8 lm/W
Warm Dimming with 90+ CRI	476 lm	31.7 lm/W

Flood (48°)		
2,700K with 80+ CRI	949 lm	63.2 lm/W
3,000K with 80+ CRI	972 lm	64.8 lm/W
2,700K with 90+ CRI	788 lm	52.5 lm/W
3,000K with 90+ CRI	815 lm	54.3 lm/W
3,500K with 90+ CRI	860 lm	57.3 lm/W
4,000K with 90+ CRI	883 lm	58.8 lm/W
Warm Dimming with 90+ CRI	476 lm	31.7 lm/W



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

Lens Factors	
C	1
F	0.69

Reflectors Factors	
AN	0.99
11	1
22	0.97

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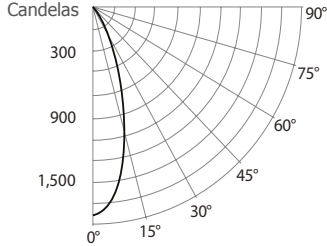
## 4" Series Square Shower Trim with Square Opening



### PHOTOMETRIC DATA

#### 3,000K, 90+ CRI, Narrow Flood, Performance 1

##### CANDLEPOWER DISTRIBUTION



##### LIGHT CONE

Distance	FC	DIA
06'	47.9	3.5'
08'	26.9	4.7'
10'	17.2	5.9'
12'	11.9	7.1'
14'	8.8	8.3'
16'	6.7	9.5'

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

##### LUMINAIRE

Performance 1 LED	3,000K Narrow Flood	
CPCB / Lumens	1,724	/ 625.6
Watts	120V	277V
	10W	10W
Operating AMPS	0.083A	0.036A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	62.5	
Spacing Criteria	0.14	

##### COEFFICIENT OF UTILIZATION - %

Wall Reflect %	80		50		30		
	50	30	50	30	50	30	
RCR	0	119	119	111	111	106	106
	2	106	103	102	99	99	97
	4	96	92	93	90	91	88
	6	88	83	86	82	85	81
	8	81	76	80	76	79	75
	10	75	71	74	70	73	70

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

##### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	577.2	92.3%
0-40	621.0	99.3%
0-60	625.6	100%
60-90	0.0	0%
0-90	625.6	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	31	0.44
6'	17	0.25
7'	12	0.17
8'	12	0.17
9'	8	0.11

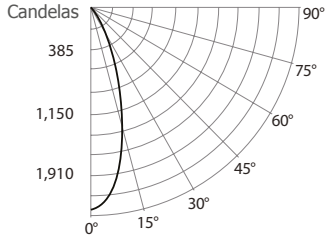
38' x 38' x 10' Room. Workplan located 2-1/2' (30").  
Reflectance factor 80%/50%/30%

##### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS
0	1,724
15	964
30	184
45	4
60	0
75	0
90	0

#### 3,000K, 90+ CRI, Narrow Flood, Performance 2

##### CANDLEPOWER DISTRIBUTION



##### LIGHT CONE

Distance	FC	DIA
06'	62.4	3.5'
08'	35.1	4.7'
10'	22.5	5.9'
12'	15.6	7.1'
14'	11.5	8.3'
16'	8.8	9.5'

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

##### LUMINAIRE

Performance 2 LED	3,000K Narrow Flood	
CPCB / Lumens	2,245	/ 815.2
Watts	120V	277V
	15W	15W
Operating AMPS	0.125A	0.054A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	54.3	
Spacing Criteria	0.14	

##### 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	106	103	102	99	99	97
	4	96	92	93	90	91	88
	6	88	83	86	82	85	81
	8	81	76	80	76	79	75
	10	75	71	74	70	73	70

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

##### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	751.6	92.2%
0-40	808.6	99.2%
0-60	815.2	100%
60-90	0.0	0%
0-90	815.2	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	40	0.66
6'	23	0.37
7'	16	0.26
8'	16	0.26
9'	10	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	2,245
15	1,256
30	240
45	6
60	0
75	0
90	0

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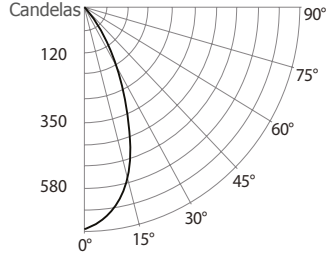
## 4" Series Square Shower Trim with Square Opening



### PHOTOMETRIC DATA

#### 3,000K, 90+ CRI, Flood, Performance 1

##### CANDLEPOWER DISTRIBUTION



##### LIGHT CONE

Distance	FC	DIA
06'	19.2	5.4'
08'	10.8	7.2'
10'	6.9	9.0'
12'	4.8	10.8'
14'	3.5	12.6'
16'	2.7	14.4'

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

##### LUMINAIRE

Performance 1 LED	3,000K Flood	
CPCB / Lumens	690	/ 434.7
Watts	120V	277V
	10W	10W
Operating AMPS	0.083A	0.036A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	43.4	
Spacing Criteria	0.20	

##### 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	105	101	100	97	97	94	94	94
	4	93	88	89	85	87	84	84	84
	6	83	77	81	76	79	75	75	75
	8	75	69	73	68	72	68	68	68
	10	68	62	67	62	66	62	62	62

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

##### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	357.8	82.3%
0-40	419.4	96.5%
0-60	434	99.8%
60-90	0.7	0.2%
0-90	434.7	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	42	0.44
6'	23	0.25
7'	16	0.17
8'	16	0.17
9'	10	0.11

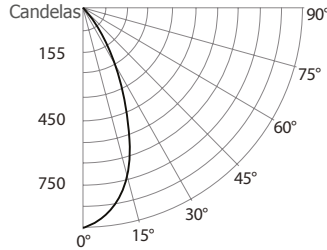
38' x 38' x 10' Room. Workplan located 2-1/2' (30").  
Reflectance factor 80%/50%/30%

##### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS
0	690
15	546
30	191
45	15
60	1
75	0
90	0

#### 3,000K, 90+ CRI, Flood, Performance 2

##### CANDLEPOWER DISTRIBUTION



##### LIGHT CONE

Distance	FC	DIA
06'	24.9	5.4'
08'	14.1	7.2'
10'	8.9	9.0'
12'	6.2	10.8'
14'	4.6	12.6'
16'	3.5	14.4'

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

##### LUMINAIRE

Performance 2 LED	3,000K Flood	
CPCB / Lumens	899	/ 566.7
Watts	120V	277V
	15W	15W
Operating AMPS	0.125A	0.054A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	37.7	
Spacing Criteria	0.20	

##### 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	105	101	100	97	97	94	94	94
	4	93	88	89	85	87	84	84	84
	6	83	77	81	76	79	75	75	75
	8	75	69	73	68	72	68	68	68
	10	68	62	67	62	66	62	62	62

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

##### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	466.5	82.3%
0-40	546.8	96.5%
0-60	565.8	99.8%
60-90	0.9	0.2%
0-90	566.7	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	28	0.66
6'	16	0.37
7'	11	0.26
8'	11	0.26
9'	7	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	899
15	711
30	248
45	20
60	2
75	0
90	0