

## SPECIFICATION SHEET

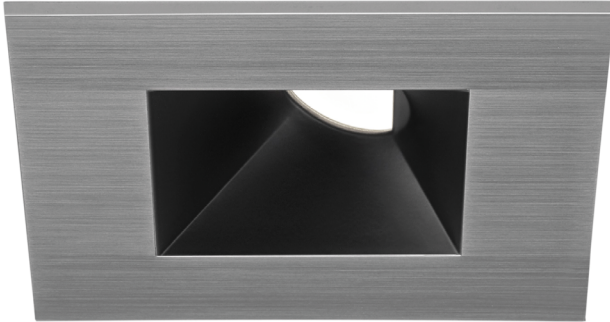
**UR4K****4" Series**

Project \_\_\_\_\_

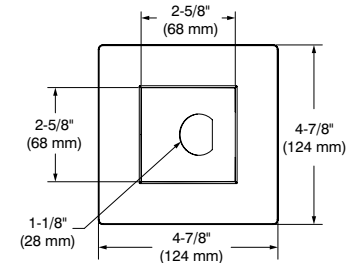
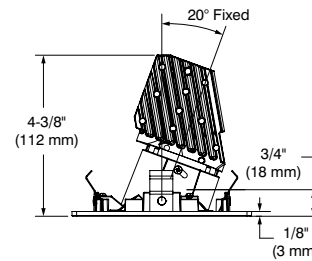
Notes \_\_\_\_\_

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

Date \_\_\_\_\_

**Square Regressed Wall Wash Trim with Square Opening**

UR4K-12BR22 (illustrated)



## SPECIFICATIONS

## LED MODULE

**STANDARD (SOLID WHITE)**

Lumileds Luxeon CoB 1203 GEN4

L<sub>70</sub> @ 50,000 hours of operation. 3-Step MacAdam ellipse (3 SDCM)

Color temperatures: 2,700K - 3,000K - 3,500K - 4,000K

CRI: 80+ (only 2,700K and 3,000K), 90+

Delivered Lumens: Performance 1 (10W) - 557 lumens @ 3,000K, 56 lm/W  
 Performance 2 (15W) - 726 lumens @ 3,000K, 48 lm/W  
 Performance 3 (24W) - 1,089 lumens @ 3,000K, 45 lm/W

Power supply (*determined by the choice of housing*): 120V, 277V or 120V/277V

Several driver models available in three performances (10W, 15W and 24W) offered in two dimming options:

ELV: 120V only 0-10V: 120V / 277V

Consult housing specification sheet for more details.

**WARM DIMMING (WD)**

LTF 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.

L<sub>70</sub> @ 50,000 hours of operation. 3-Step MacAdam ellipse (3 SDCM)

Color Temperature: 3,050K to 1,800K

CRI: 90+ (over the entire dimming range)

Delivered Lumens: Performance 1 (10W) - up to 325 lumens  
 Performance 2 (15W) - up to 425 lumens  
 Performance 3 (24W) - up to 625 lumens

Power supply (*determined by the choice of housing*): 120V, 277V or 120V/277V

Several driver models available in three performances (10W, 15W and 24W) offered in two dimming options:

ELV: 120V only 0-10V: 120V / 277V

Consult housing specification sheet for more details.

## CEILING CUTOUT

ø 4-1/4" (108 mm)

## ADJUSTABILITY

20° fixed tilt

## CERTIFICATION

cULus **E343977** for damp locations

## WARRANTY

1 year limited warranty on components against manufacturing defects  
 5-year limited warranty on LED arrays and drivers

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# UR4K

4" Series

## Square Regressed Wall Wash Trim with Square Opening



### SPECIFICATIONS (CONT'D)

#### COMPATIBLE HOUSINGS

	Remodel Housings	New Construction Housings	IC Housings
<p><b>Performance 1</b> 10W</p> <p>Warm Dimming not compatible</p>	<p><b>IC Air Tight</b> REUR4-120D1 REUR4-120E1 REUR4-277D1 REUR4-UV1</p>	<p><b>IC Air Tight</b> NWUR4-120D1 NWUR4-120E1 NWUR4-277D1 NWUR4-UV1</p> <p><b>Non-IC Air Tight Emergency Driver</b> NWUR4-120D1-EM NWUR4-120E1-EM NWUR4-277D1-EM NWUR4-UV1-EM</p>	<p><b>IC Air Tight</b> ISUR4-120D1 ISUR4-120E1 ISUR4-277D1 ISUR4-UV1</p> <p><b>IC Air Tight Chicago Plenum and Polyurethane</b> ISUR4-120D1P ISUR4-120E1P ISUR4-277D1P ISUR4-UV1P</p>
<p><b>Performance 2</b> 15W MAX</p>	<p><b>Non-IC Air Tight</b> REUR4-120D2 REUR4-120E2 REUR4-120EB2 REUR4-2772 REUR4-277D2 REUR4-UV2</p>	<p><b>Non-IC Air Tight</b> NWUR4-120D2 NWUR4-120E2 NWUR4-120EB2 NWUR4-2772 NWUR4-277D2 NWUR4-UV2</p> <p><b>Non-IC Air Tight Emergency Driver</b> NWUR4-120D2-EM NWUR4-120E2-EM NWUR4-120EB2-EM NWUR4-2772-EM NWUR4-277D2-EM NWUR4-UV2-EM</p>	<p><b>IC Air Tight</b> ISUR4-120D2 ISUR4-120E2 ISUR4-120EB2 ISUR4-2772 ISUR4-277D2 ISUR4-UV2</p> <p><b>IC Air Tight Chicago Plenum</b> ISUR4-120D2P ISUR4-120E2P ISUR4-120EB2P ISUR4-2772P ISUR4-277D2P ISUR4-UV2P</p>
<p><b>Performance 3</b> 24W MAX</p>	N/A	<p><b>Non-IC Non-Air Tight</b> NWUR4-UV3</p> <p><b>Non-IC Non-Air Tight Emergency Driver</b> NWUR4-UV3-EM</p>	N/A

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) and UV3 (ELV/0-10V/24W)**  
dimming type and performance to use with Warm Dimming

## SPECIFICATION SHEET

**UR4K****4" Series****Square Regressed Wall Wash Trim with Square Opening**

## SPECIFICATIONS (CONT'D)

TRIM	Powder coat painted or plated aluminum injected. <b>Different finishes available:</b> White <b>(-01)</b> , Brushed Chrome <b>(-04BR)</b> , Matte White <b>(-11)</b> , Brushed Nickel <b>(-12BR)</b> , <b>Satin Nickel (-13)</b> , Matte Black <b>(-22)</b> and Polar Grey <b>(-25)</b>		
REFLECTORS	<b>PAINTED</b> Natural Anodized Aluminum <b>(AN)</b> Matte White <b>(11)</b> Matte Black <b>(22)</b> ( <i>suggested for an optimal result</i> )		
HEAT SINK	High quality aluminum injected heat sink ensuring maximum heat dissipation.		
OPTIC SYSTEM	Optical reflector and lens available to customize your lighting. <b>Choice of available lenses:</b> <b>Frosted (F)</b> - for uniform lighting distribution ensuring optimal results. <b>Optical reflectors available:</b> Flood <b>Standard</b> <table border="1" data-bbox="328 989 818 1026"> <tr> <td>Flood <b>(L)</b></td> <td>67°</td> </tr> </table> <p><b>* Average beams shown. Consult .ies files on our Website for more details.</b></p>	Flood <b>(L)</b>	67°
Flood <b>(L)</b>	67°		
ACCESSORIES	Goof Rings (see ordering code)		

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Revision 6

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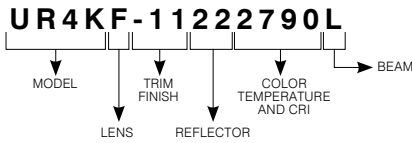
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## SPECIFICATION SHEET

**UR4K****4" Series****Square Regressed Wall Wash Trim with Square Opening**

## CODIFICATION EXAMPLE



*Options in red may generate a longer production lead time.*

## ORDERING CODES

MODEL	LENS	TRIM FINISHES	REFLECTOR FINISHES	COLOR TEMPERATURE AND CRI	BEAM
<b>UR4K</b>	<b>F</b>				<b>L</b>
<b>UR4K</b>	<b>F</b> Frosted (std)	<b>-01</b> White	<b>PAINTED</b>	<b>2780</b> 2,700K (80+ CRI)	<b>L</b> Flood (67°)
		<b>-04BR</b> Brushed Chrome	<b>AN</b> Natural Anodized Aluminum	<b>3080</b> 3,000K (80+ CRI)	
		<b>-11</b> Matte White	<b>11</b> Matte White	<b>2790</b> 2,700K (90+ CRI)	
		<b>-12BR</b> Brushed Nickel	<b>22</b> Matte Black <i>(suggested for an optimal result)</i>	<b>3090</b> 3,000K (90+ CRI)	
		<b>-22</b> Matte Black		<b>3590</b> 3,500K (90+ CRI)	
		<b>-25</b> Polar Grey		<b>4090</b> 4,000K (90+ CRI)	
		<b>-13</b> <i>Satin Nickel</i>			
		<i>(-25 finish perfectly matches with AN reflector)</i>			
				<b>WD90</b> Warm Dimming 3,050K to 1,800K (90+ CRI)	
				<i>Compatible with 15W and 24W drivers only (EB2, D2, UV2 and UV3)</i>	

## GOOF RINGS

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

- Code: RS4-01** (white)  
**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)

**CONTRASTE**2020-10  
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# UR4K

## 4" Series

### Square Regressed Wall Wash 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). Take note these factors also need to be implemented in the .ies files available on our website.

#### WITH PERFORMANCE 1 HOUSING (10W)

	Flood (67°)	
<b>2,700K with 80+ CRI</b>	544 lm	54 lm/W
<b>3,000K with 80+ CRI</b>	557 lm	56 lm/W

<b>2,700K with 90+ CRI</b>	452 lm	45 lm/W
<b>3,000K with 90+ CRI</b>	467 lm	47 lm/W
<b>3,500K with 90+ CRI</b>	492 lm	49 lm/W
<b>4,000K with 90+ CRI</b>	507 lm	51 lm/W
<b>Warm Dimming with 90+ CRI</b>	325 lm	32.5 lm/W

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

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

#### WITH PERFORMANCE 2 HOUSING (15W)

	Flood (67°)	
<b>2,700K with 80+ CRI</b>	708 lm	47 lm/W
<b>3,000K with 80+ CRI</b>	726 lm	48 lm/W

<b>2,700K with 90+ CRI</b>	589 lm	39 lm/W
<b>3,000K with 90+ CRI</b>	608 lm	41 lm/W
<b>3,500K with 90+ CRI</b>	642 lm	43 lm/W
<b>4,000K with 90+ CRI</b>	659 lm	44 lm/W
<b>Warm Dimming with 90+ CRI</b>	425 lm	28 lm/W

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

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

# CONTRASTE

# UR4K

4" Series

## Square Regressed Wall Wash Trim with Square Opening

## PHOTOMETRIC DATA



WITH PERFORMANCE 3 HOUSING (24W)

	Flood (67°)	
2,700K with 80+ CRI	1,063 lm	44 lm/W
3,000K with 80+ CRI	1,089 lm	45 lm/W

2,700K with 90+ CRI	883 lm	37 lm/W
3,000K with 90+ CRI	912 lm	38 lm/W
3,500K with 90+ CRI	962 lm	40 lm/W
4,000K with 90+ CRI	976 lm	41 lm/W
Warm Dimming with 90+ CRI	625 lm	26 lm/W

Reflector Factors			
11	1	AN	0.99
22	0.97		

# UR4K

4" Series

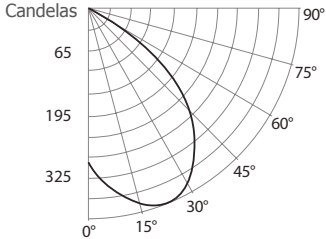
## Square Regressed Wall Wash Trim with Square Opening

## PHOTOMETRIC DATA



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

#### CANDLEPOWER DISTRIBUTION



#### LIGHT CONE

Distance	FC	DIA
06'	7.7	7.6'
08'	4.4	10.1'
10'	2.8	12.7'
12'	1.9	15.2'
14'	1.4	17.8'
16'	1.1	20.3'

Beam: 64.8°  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

#### LUMINAIRE

Performance 1 LED	3,000K Flood	
CBCP / Lumens	279	/ 467.7
Watts	120V	277V
	10W	10.5W
Operating AMPS	0.08A	0.038A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	46.7	
Spacing Criteria	1.66	

#### 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	98	93	93	89	90	86
	4	80	73	77	71	75	70
	6	67	59	64	58	63	57
	8	57	49	55	48	54	48
	10	49	42	47	41	47	41

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

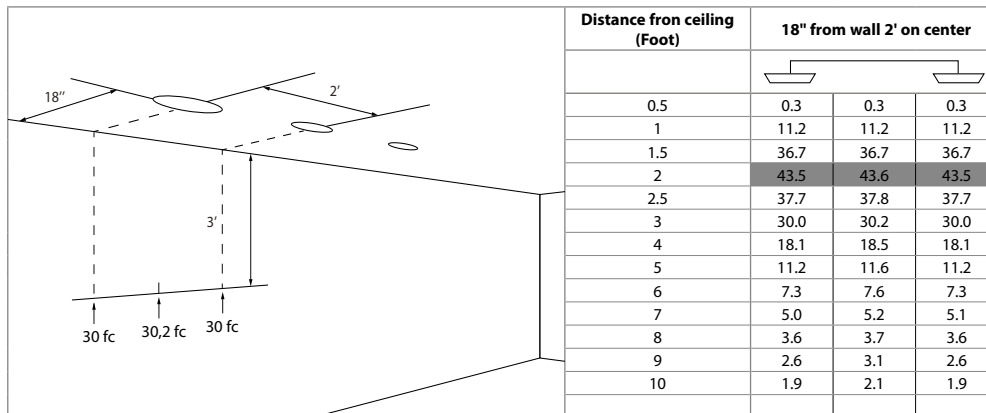
#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	199.1	42.6%
0-40	306.9	65.6%
0-60	445.1	95.2%
60-90	22.6	4.8%
0-90	467.7	100%

#### CANDELAS DISTRIBUTION

DEGREES/ VERTICAL	CANDELAS
0	279
5	363
10	359
15	248
20	68
25	4
30	0

#### Footcandles On Wall - Performance 1



Note: Footcandles Data

# UR4K

4" Series

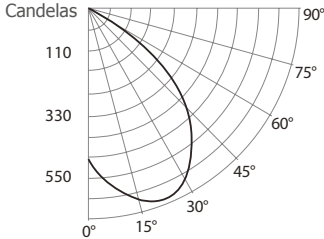
## PHOTOMETRIC DATA

### Square Regressed Wall Wash Trim with Square Opening



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

##### CANDLEPOWER DISTRIBUTION



##### LIGHT CONE

Distance	FC	DIA
06'	13.1	7.6'
08'	7.4	10.1'
10'	4.7	12.7'
12'	3.3	15.2'
14'	2.4	17.7'
16'	1.9	20.3'

Beam: 64.7°  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

##### LUMINAIRE

Performance 2 LED	3,000K Flood	
<b>CBCP / Lumens</b>	473	/ 794.1
<b>Watts</b>	120V	277V
	15W	15.5W
<b>Operating AMPS</b>	0.12A	0.055A
<b>Lumen Maintenance</b>	L70 @ 50,000 Hrs	
<b>CRI</b>	90+	
<b>Lumens/Watt</b>	52.9	
<b>Spacing Criteria</b>	1.66	

##### 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	98	93	93	89	90	86
	4	80	73	77	71	75	70
	6	67	59	64	58	63	57
	8	57	49	55	48	54	48
	10	49	42	47	41	47	41

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

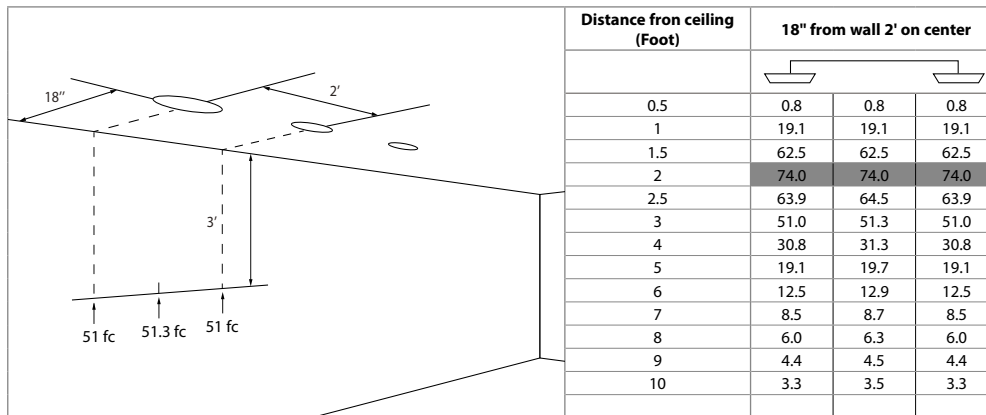
##### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	338.0	42.6%
0-40	521.1	65.6%
0-60	755.7	95.2%
60-90	38.4	4.8%
0-90	794.1	100%

##### CANDELAS DISTRIBUTION

DEGREES/ VERTICAL	CANDELAS
0	473
5	617
10	608
15	421
20	116
25	6
30	0

##### Footcandles On Wall - Performance 2



Note: Footcandles Data



# UR4K

4" Series

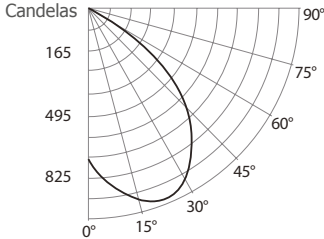
## Square Regressed Wall Wash Trim with Square Opening

## PHOTOMETRIC DATA



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

#### CANDLEPOWER DISTRIBUTION



#### LIGHT CONE

Distance	FC	DIA
06'	19.7	7.6'
08'	11.1	10.1'
10'	7.1	12.7'
12'	4.9	15.2'
14'	3.6	17.7'
16'	2.8	20.3'

Beam: 64.7°  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

#### LUMINAIRE

Performance 3 LED	3,000K Flood	
CBCP / Lumens	710	/ 1,191.1
Watts	120V	277V
	24W	24.5W
Operating AMPS	0.20A	0.088A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	49.6	
Spacing Criteria	1.66	

#### 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	98	93	93	89	90	86
	4	80	73	77	71	75	70
	6	67	59	64	58	63	57
	8	57	49	55	48	54	48
	10	49	42	47	41	47	41

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

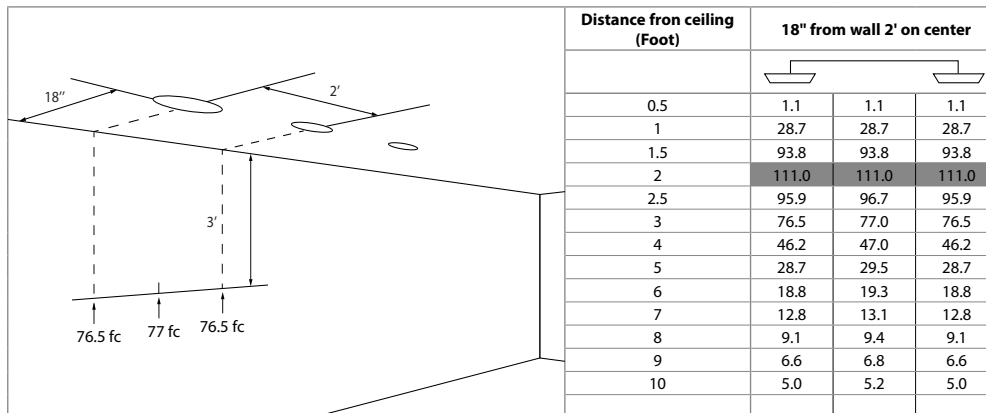
#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	507.0	42.6%
0-40	781.6	65.6%
0-60	1,133.5	95.2%
60-90	57.6	4.8%
0-90	1,191.1	100%

#### CANDELAS DISTRIBUTION

DEGREES/ VERTICAL	CANDELAS
0	710
5	925
10	912
15	632
20	173
25	10
30	0

#### Footcandles On Wall - Performance 3



Note: Footcandles Data