

## SPECIFICATION SHEET

**UR4B**

4" Series

**Square Adjustable Trim**

Project \_\_\_\_\_

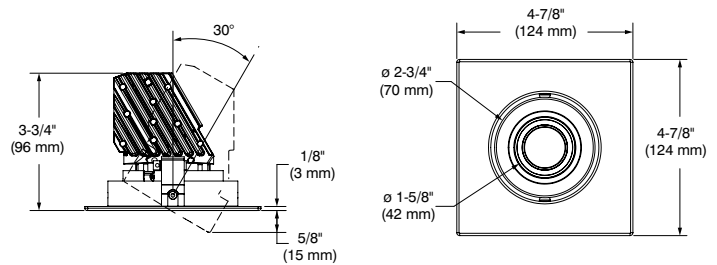
Notes \_\_\_\_\_

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

Date \_\_\_\_\_



UR4B-25 (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) - 1,099 lumens @ 3,000K, 110 lm/W  
 Performance 2 (15W) - 1,432 lumens @ 3,000K, 95 lm/W  
 Performance 3 (24W) - 2,148 lumens @ 3,000K, 90 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 650 lumens  
 Performance 2 (15W) - up to 850 lumens  
 Performance 3 (24W) - up to 1,250 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

Tilt: 30°

## CERTIFICATION

- cULus **E343977** for damp locations
- Certified under California Energy Commission according to reference joint Appendix 8 (JA8-2016)

## WARRANTY

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

**CONTRASTE**2020-10  
Revision 6

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## SPECIFICATION SHEET

**UR4B**

4" Series

**Square Adjustable Trim**

## SPECIFICATIONS (CONT'D)

## COMPATIBLE HOUSINGS

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

## COMPATIBLE HOUSINGS



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

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

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## SPECIFICATION SHEET

**UR4B****4" Series****Square Adjustable Trim**

## SPECIFICATIONS (CONT'D)

TRIM	Powder coat painted or plated die-formed steel. <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>						
HEAT SINK	High quality aluminum injected heat sink ensuring maximum heat dissipation.						
OPTIC SYSTEM	Optical reflectors and lenses available to customize your lighting. <b>Choice of available lenses:</b> <b>Standard (without lens)</b> <b>Clear (C)</b> <b>Frosted (F)</b> <b>Honeycomb (H):</b> the honeycomb louver reduces glare <b>Linear (L):</b> the linear lens directs the lamp beam to create a strip of light <b>Prismatic (P):</b> the prismatic lens diffuses and spreads the light in an even overall pattern <b>Solite (S):</b> the solite lens softens the light in an even overall pattern <b>Optical reflectors available:</b> Spot, Narrow Flood, Flood						
	<b>Standard</b>						
	<table border="1"> <tr> <td>Spot <b>(S)</b></td> <td>16°</td> </tr> <tr> <td>Narrow Flood <b>(M)</b></td> <td>32°</td> </tr> <tr> <td>Flood <b>(L)</b></td> <td>48°</td> </tr> </table>	Spot <b>(S)</b>	16°	Narrow Flood <b>(M)</b>	32°	Flood <b>(L)</b>	48°
Spot <b>(S)</b>	16°						
Narrow Flood <b>(M)</b>	32°						
Flood <b>(L)</b>	48°						
	<b>* Average beams shown. Consult .ies files on our Website for more details.</b>						
ACCESSORIES	Goof Rings (see ordering code)						

SPECIFICATION SHEET

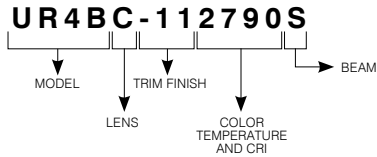
# UR4B

4" Series

Square Adjustable Trim



CODIFICATION EXAMPLE



**JA8** certified trim available without lens (std) only.  
Not available with Warm Dimming

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

ORDERING CODES

MODEL	LENSES	TRIM FINISHES	COLOR TEMPERATURE AND CRI	BEAMS
<b>UR4B</b>				
<b>UR4B</b>	Whitout lens (std)	<b>-01</b> White	<b>2780</b> 2,700K (80+ CRI)	<b>S</b> Spot (16°) <b>M</b> Narrow Flood (32°) <b>L</b> Flood (48°) <i>Not available with Warm Dimming</i>
<b>C</b>	Clear	<b>-04BR</b> Brushed Chrome	<b>3080</b> 3,000K (80+ CRI)	
<b>F</b>	Frosted	<b>-11</b> Matte White	<b>2790</b> 2,700K (90+ CRI)	
<b>H</b>	Honeycomb	<b>-12BR</b> Brushed Nickel	<b>3090</b> 3,000K (90+ CRI)	
<b>L</b>	Linear	<b>-22</b> Matte Black	<b>3590</b> 3,500K (90+ CRI)	
<b>P</b>	Prismatic	<b>-25</b> Polar Grey	<b>4090</b> 4,000K (90+ CRI)	
<b>S</b>	Solite	<b>-13</b> <i>Satin Nickel</i>		
			<b>WD90</b> Warm Dimming 3,050K to 1,800K (90+ CRI)	

*Compatible with 15W and 24W drivers only (EB2, D2, UV2 and UV3)*

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)

## SPECIFICATION SHEET

**UR4B****4" Series****Square Adjustable Trim**

## 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)

	Spot (16°)		Narrow Flood (32°)		Flood (48°)	
	lm	lm/W	lm	lm/W	lm	lm/W
<b>2,700K with 80+ CRI</b>	870	87.0	1,074	107.4	1,074	107.4
<b>3,000K with 80+ CRI</b>	892	89.2	1,099	109.9	1,099	109.9

<b>2,700K with 90+ CRI</b>	724	72.4	892	89.2	892	89.2
<b>3,000K with 90+ CRI</b>	747	74.7	921	92.1	921	92.1
<b>3,500K with 90+ CRI</b>	789	78.9	973	97.3	973	97.3
<b>4,000K with 90+ CRI</b>	810	81	999	99.9	999	99.9
<b>Warm Dimming with 90+ CRI</b>	Not available		650	65	650	65



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

Lens Factors			
<b>STD</b>	1	<b>F</b>	0.68
<b>C</b>	0.97	<b>H</b>	0.54

## WITH PERFORMANCE 2 HOUSING (15W)

	Spot (16°)		Narrow Flood (32°)		Flood (48°)	
	lm	lm/W	lm	lm/W	lm	lm/W
<b>2,700K with 80+ CRI</b>	1,134	75.6	1,399	93.3	1,399	93.3
<b>3,000K with 80+ CRI</b>	1,161	77.4	1,432	95.5	1,432	95.5

<b>2,700K with 90+ CRI</b>	942	62.8	1,161	77.4	1,161	77.4
<b>3,000K with 90+ CRI</b>	973	64.9	1,200	80.0	1,200	80.0
<b>3,500K with 90+ CRI</b>	1,027	68.5	1,267	84.5	1,267	84.5
<b>4,000K with 90+ CRI</b>	1,055	70.3	1,301	86.7	1,301	86.7
<b>Warm Dimming with 90+ CRI</b>	Not available		850	56.6	850	56.6



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>STD</b>	1	<b>F</b>	0.68
<b>C</b>	0.97	<b>H</b>	0.54

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# UR4B

4" Series

Square Adjustable Trim

PHOTOMETRIC DATA



WITH PERFORMANCE 3 HOUSING (24W)

	Faisceau étroit (16°)		Faisceau moyen (32°)		Faisceau large (48°)	
2700K avec IRC de +80	1,701 lm	71 lm/W	2,098 lm	87 lm/W	2,098 lm	87 lm/W
3000K avec IRC de +80	1,742 lm	73 lm/W	2,148 lm	90 lm/W	2,148 lm	90 lm/W

2,700K with 90+ CRI	1,413 lm	59 lm/W	1,742 lm	73 lm/W	1,742 lm	73 lm/W
3,000K with 90+ CRI	1,460 lm	61 lm/W	1,800 lm	75 lm/W	1,800 lm	75 lm/W
3,500K with 90+ CRI	1,541 lm	64 lm/W	1,900 lm	79 lm/W	1,900 lm	79 lm/W
4,000K with 90+ CRI	1,583 lm	66 lm/W	1,952 lm	81 lm/W	1,952 lm	81 lm/W
Warm Dimming with 90+ CRI	Not available		1,250 lm	52 lm/W	1,250 lm	52 lm/W

Lens Factors			
STD	1	F	0.68
C	0.97	H	0.54

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# UR4B

4" Series

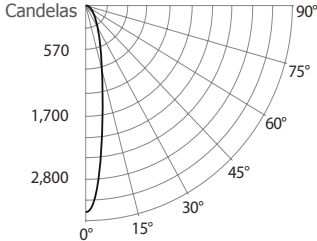
Square Adjustable Trim

## PHOTOMETRIC DATA



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

#### CANDLEPOWER DISTRIBUTION



#### LIGHT CONE

Distance	FC	DIA
06'	92.4	1.7'
08'	51.9	2.3'
10'	33.2	2.8'
12'	23.1	3.4'
14'	16.9	4.0'
16'	12.9	4.5'

Beam: 16.1°  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

#### LUMINAIRE

Performance 1 LED	3,000K Spot
<b>CBCP / Lumens</b>	3,326 / 747.3
<b>Watts</b>	120V 277V 10W 10.5W
<b>Operating AMPS</b>	0.08A 0.038A
<b>Lumen Maintenance</b>	L70 @ 50,000 Hrs
<b>CRI</b>	90+
<b>Lumens/Watt</b>	74.7
<b>Spacing Criteria</b>	0.28

#### 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	104	100	99	96	96	94
	4	92	87	89	85	87	84
	6	83	78	81	77	80	76
	8	76	71	75	70	74	70
	10	70	65	69	65	68	64

#### Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	572.7	76.6%
0-40	690.6	92.4%
0-60	724.1	96.9%
60-90	23.2	3.1%
0-90	747.3	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	32	0.39
6'	28	0.34
7'	20	0.25
8'	14	0.17
9'	14	0.17

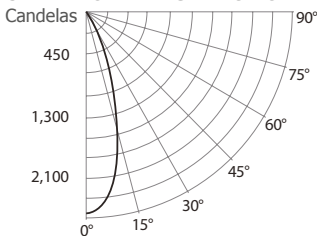
38' x 38' x 10' Room. Workplan located 2-1/2' (30").  
Reflectance factor 80%/50%/30%

#### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS	DEGREES/VERTICAL	CANDELAS
0	3,326	45	27
5	2,528	55	14
10	1,214	65	10
15	738	75	9
20	528	85	5
25	361	90	0
30	254		

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

#### CANDLEPOWER DISTRIBUTION



#### LIGHT CONE

Distance	FC	DIA
06'	70.5	3.5'
08'	39.6	4.7'
10'	25.3	5.9'
12'	17.6	7.1'
14'	12.9	8.3'
16'	9.9	9.5'

Beam: 32.9°  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

#### LUMINAIRE

Performance 1 LED	3,000K Narrow Flood
<b>CBCP / Lumens</b>	2,538 / 921.1
<b>Watts</b>	120V 277V 10W 10.5W
<b>Operating AMPS</b>	0.08A 0.038A
<b>Lumen Maintenance</b>	L70 @ 50,000 Hrs
<b>CRI</b>	90+
<b>Lumens/Watt</b>	92.1
<b>Spacing Criteria</b>	0.56

#### 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	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	849.8	92.3%
0-40	913.9	99.2%
0-60	921.1	100%
60-90	0.0	0%
0-90	921.1	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	29	0.28
6'	30	0.29
7'	26	0.25
8'	18	0.17
9'	18	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	2,538
15	1,419
30	271
45	5
60	0
75	0
90	0

# UR4B

4" Series

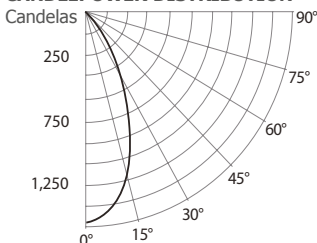
Square Adjustable Trim

## PHOTOMETRIC DATA



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

#### CANDLEPOWER DISTRIBUTION



#### LIGHT CONE

Distance	FC	DIA
06'	40.5	5.4'
08'	22.8	7.2'
10'	14.6	9.0'
12'	10.1	10.8'
14'	7.4	12.6'
16'	5.7	14.4'

Beam: 48.4°  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

#### LUMINAIRE

Performance 1 LED	3,000K Flood	
CBCP / Lumens	1,461	/ 921.7
Watts	120V	277V
	10W	10.5W
Operating AMPS	0.08A	0.038A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	92.2	
Spacing Criteria	0.82	

#### 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	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	757.8	82.2%
0-40	888.1	96.3%
0-60	920.0	99.8%
60-90	1.8	0.2%
0-90	921.7	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	28	0.28
6'	30	0.29
7'	25	0.25
8'	18	0.17
9'	18	0.17

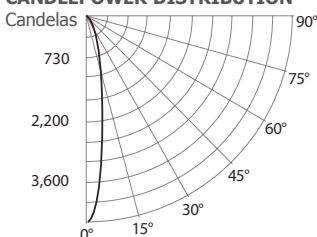
38' x 38' x 10' Room. Workplan located 2-1/2' (30").  
Reflectance factor 80%/50%/30%

#### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS
0	1,461
15	1,156
30	404
45	32
60	3
75	0
90	0

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

#### CANDLEPOWER DISTRIBUTION



#### LIGHT CONE

Distance	FC	DIA
06'	120.3	1.7'
08'	67.6	2.3'
10'	43.3	2.8'
12'	30.0	3.4'
14'	22.1	4.0'
16'	16.9	4.5'

Beam: 16.1°  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

#### LUMINAIRE

Performance 2 LED	3,000K Spot	
CBCP / Lumens	4,331	/ 973.8
Watts	120V	277V
	15W	15.5W
Operating AMPS	0.12A	0.055A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	64.9	
Spacing Criteria	0.28	

#### 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	84
6	83	78	81	77	80	76
8	76	71	75	70	74	69
10	70	65	69	64	68	64

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	745.8	76.6%
0-40	899.0	92.3%
0-60	943.1	96.8%
60-90	30.7	3.2%
0-90	973.8	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	30	0.42
6'	31	0.44
7'	27	0.37
8'	18	0.26
9'	18	0.26

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

#### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS	DEGREES/VERTICAL	CANDELAS
0	4,331	45	36
5	3,292	55	18
10	1,581	65	13
15	961	75	12
20	688	85	6
25	469	90	0
30	332		



# UR4B

4" Series

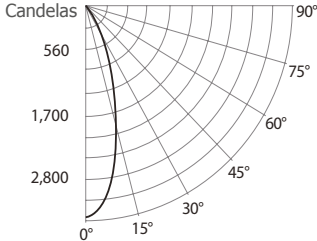
Square Adjustable Trim

## PHOTOMETRIC DATA



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

#### CANDLEPOWER DISTRIBUTION



#### LIGHT CONE

Distance	FC	DIA
06'	91.8	3.5'
08'	51.6	4.7'
10'	33.1	5.9'
12'	22.9	7.1'
14'	16.8	8.3'
16'	12.9	9.5'

Beam: 32.9°  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

#### LUMINAIRE

Performance 2 LED	3,000K Narrow Flood	
CBCP / Lumens	3,306	/ 1,200.2
Watts	120V	277V
	15W	15.5W
Operating AMPS	0.12A	0.055A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	80.0	
Spacing Criteria	0.56	

#### 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	106	
2	106	103	102	099	99	97	97	97	
4	96	92	93	90	91	88	88	88	
6	88	83	86	82	85	81	81	81	
8	81	76	80	76	79	75	75	75	
10	75	71	74	70	73	70	70	70	

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1,106.9	92.2%
0-40	1,190.3	99.2%
0-60	1,200.1	100%
60-90	0.2	0%
0-90	1,200.2	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	30	0.33
6'	33	0.36
7'	28	0.31
8'	23	0.26
9'	23	0.26

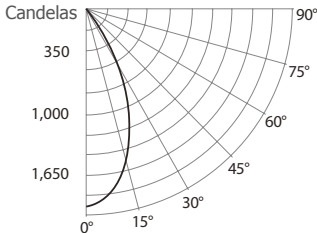
38' x 38' x 10' Room. Workplan located 2-1/2' (30").  
Reflectance factor 80%/50%/30%

#### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS
0	3,306
15	1,849
30	354
45	8
60	1
75	0
90	0

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

#### CANDLEPOWER DISTRIBUTION



#### LIGHT CONE

Distance	FC	DIA
06'	52.8	5.4'
08'	29.7	7.2'
10'	19.0	9.0'
12'	13.2	10.8'
14'	9.7	12.6'
16'	7.4	14.4'

Beam: 48.4°  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

#### LUMINAIRE

Performance 2 LED	3,000K Flood	
CBCP / Lumens	1,903	/ 1,200.4
Watts	120V	277V
	15W	15.5W
Operating AMPS	0.12A	0.055A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	80.0	
Spacing Criteria	0.82	

#### 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	106	
2	105	101	100	97	97	94	97	94	
4	93	88	89	85	87	84	87	84	
6	83	77	81	76	79	75	79	75	
8	75	69	73	68	72	68	72	68	
10	68	62	66	62	66	61	66	61	

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	987.3	82.2%
0-40	1,157.10	96.4%
0-60	1,198.50	99.8%
60-90	1.9	0.2%
0-90	1,200.4	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	29	0.33
6'	32	0.36
7'	33	0.37
8'	23	0.26
9'	23	0.26

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

#### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS
0	1,903
15	1,506
30	526
45	42
60	4
75	0
90	0

# UR4B

4" Series

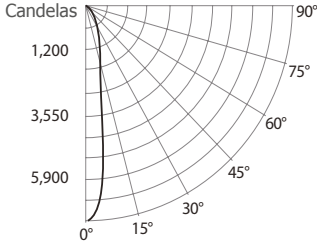
Square Adjustable Trim

## PHOTOMETRIC DATA



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

#### CANDLEPOWER DISTRIBUTION



#### LIGHT CONE

Distance	FC	DIA
06'	180.5	1.7'
08'	101.5	2.3'
10'	64.9	2.8'
12'	45.1	3.4'
14'	33.1	4.0'
16'	25.4	4.5'

Beam: 16.1°  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

#### LUMINAIRE

Performance 3 LED	3,000K Spot
CBCP / Lumens	6,496 / 1,460.8
Watts	120V 277V 24W 24.5W
Operating AMPS	0.20A 0.088A
Lumen Maintenance	L70 @ 50,000 Hrs
CRI	90+
Lumens/Watt	60.9
Spacing Criteria	0.28

#### 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	84
	6	83	78	81	77	80	76
	8	76	71	75	70	74	69
	10	70	65	69	64	68	64

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1,118.7	76.6%
0-40	1,348.6	92.3%
0-60	1,414.7	96.8%
60-90	46.1	3.2%
0-90	1,460.8	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	27	0.40
6'	31	0.47
7'	33	0.50
8'	28	0.42
9'	28	0.42

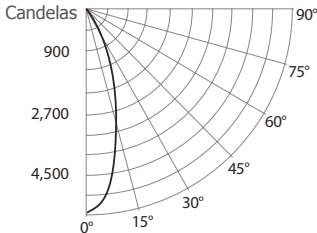
38' x 38' x 10' Room. Workplan located 2-1/2' (30").  
Reflectance factor 80%/50%/30%

#### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS	DEGREES/VERTICAL	CANDELAS
0	6,496	45	53
5	4,938	55	28
10	2,372	65	19
15	1,442	75	18
20	1,032	85	10
25	703	90	0
30	497		

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

#### CANDLEPOWER DISTRIBUTION



#### LIGHT CONE

Distance	FC	DIA
06'	137.8	3.5'
08'	77.5	4.7'
10'	49.6	5.9'
12'	34.4	7.1'
14'	25.3	8.3'
16'	19.4	9.5'

Beam: 32.9°  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

#### LUMINAIRE

Performance 3 LED	3,000K Narrow Flood
CBCP / Lumens	4,959 / 1,800.3
Watts	120V 277V 24W 24.5W
Operating AMPS	0.20A 0.088A
Lumen Maintenance	L70 @ 50,000 Hrs
CRI	90+
Lumens/Watt	75
Spacing Criteria	0.56

#### 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	1,660.3	92.2%
0-40	1,785.5	99.2%
0-60	1,800.1	100%
60-90	0.2	0%
0-90	1,800.3	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	33	0.40
6'	29	0.35
7'	33	0.40
8'	28	0.33
9'	28	0.33

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

#### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS
0	4,959
15	2,773
30	531
45	11
60	2
75	0
90	0

# UR4B

4" Series

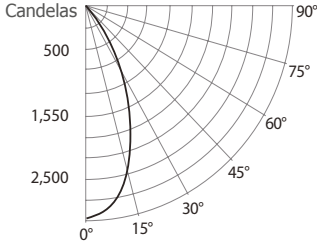
Square Adjustable Trim

## PHOTOMETRIC DATA



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

#### CANDLEPOWER DISTRIBUTION



#### LIGHT CONE

Distance	FC	DIA
06'	79.3	5.4'
08'	44.6	7.2'
10'	28.5	9.0'
12'	19.8	10.8'
14'	14.6	12.6'
16'	11.2	14.4'

Beam: 48.4°  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

#### LUMINAIRE

Performance 3 LED	3,000K Flood	
<b>CBCP / Lumens</b>	2,854	/ 1,800.6
<b>Watts</b>	120V	277V
	24W	24.5W
<b>Operating AMPS</b>	0.20A	0.088A
<b>Lumen Maintenance</b>	L70 @ 50,000 Hrs	
<b>CRI</b>	90+	
<b>Lumens/Watt</b>	75	
<b>Spacing Criteria</b>	0.82	

#### 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	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	1,480.9	82.2%
0-40	1,735.6	96.4%
0-60	1,797.7	99.8%
60-90	2.9	0.2%
0-90	1,800.6	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	33	0.40
6'	29	0.35
7'	33	0.40
8'	27	0.33
9'	27	0.33

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

#### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS
0	2,854
15	2,258
30	789
45	63
60	6
75	0
90	0