

# UR4E

## 4" Series

### Round Downlight Regressed Trim



Project \_\_\_\_\_

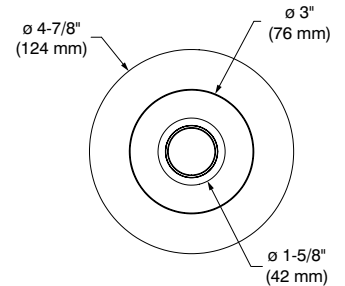
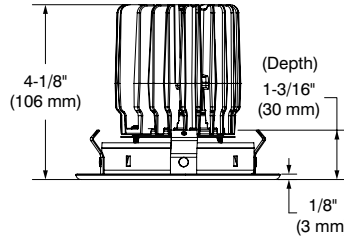
Notes \_\_\_\_\_

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

Date \_\_\_\_\_



UR4E-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):**  
**850 lumens @ 3,000K, 85 lms/W**  
**Performance 2 (15W):**  
**1,107 lumens @ 3,000K, 73.8 lms/W**  
**Warm Dimming (15W):**  
**542 lumens @ 3,000K, 36.1 lms/W**

### OPTIC SYSTEM\*

Optical reflectors available:  
 Spot, Narrow Flood, Flood

	Standard
Spot (S)	16°
Narrow Flood (M)	32°
Flood (L)	48°

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

### LENS

Without lens (std)  
 Clear (C), Frosted (F)  
 Honeycombs (H), Linear (L)  
 Prismatic (P), Solite (S)

### PAINTED REFLECTORS

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

### POWER SUPPLY

**(Determined by the choice of housing)**  
 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.

### CEILING CUTOUT

ø 4-1/4" (108 mm)

# UR4E

## 4" Series Round Downlight Regressed Trim



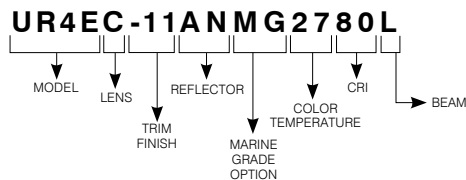
### SPECIFICATIONS (CONT'D)

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

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

#### CODIFICATION EXAMPLE



#### ORDERING CODE

MODEL	LENS	TRIM FINISHES	REFLECTORS	MARINE GRADE	COLOR TEMPERATURES	CRI	BEAMS
<b>UR4E</b>							
UR4E	Without lens (std)	<b>-03SA</b> Satin Gold	<b>PAINTED</b>	<b>MG (optional)</b>	<b>27</b> 2,700K (80+ and 90+ CRI)	<b>80</b> 80+	<b>S</b> Spot (16°)
	<b>C</b> Clear	<b>-04BR</b> Brushed Chrome	<b>AN</b> Natural Anodized	May be applied	<b>30</b> 3,000K (80+ and 90+ CRI)	<b>90</b> 90+	<b>M</b> Narrow Flood (32°)
	<b>F</b> Frosted	<b>-11</b> Matte White	<b>11</b> Matte White	on finishes:	<b>35</b> 3,500K (90+ CRI)		<b>L</b> Flood (48°)
	<b>H</b> Honeycombs	<b>-12BR</b> Brushed Nickel	<b>22</b> Matte Black	-11 and -22	<b>40</b> 4,000K (90+ CRI)		
	<b>L</b> Linear	<b>-13</b> Satin Nickel			<b>WD</b> Warm Dimming (90+ CRI)		
	<b>P</b> Prismatic	<b>-22</b> Matte Black					
	<b>S</b> Solite		(Not available with <b>-03SA</b> finish)				

#### CERTIFICATION

cULus **E343977** for damp locations

#### WARRANTY

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

# CONTRASTE

1009, rue du Parc Industriel  
 Lévis (Québec) G6Z 1C5 Canada  
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# UR4E

## 4" Series

### Round Downlight Regressed Trim



#### GOOF RINGS

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- Code:** RR4-03SA (Satin Gold)  
RR4-04BR (Brushed Chrome)  
RR4-11 (Matte White)  
RR4-12BR (Brushed Nickel)  
RR4-13 (Satin Nickel)  
RR4-22 (Matte Black)

Outside diameter:  $\varnothing$  6-1/8" (156 mm)

Inside diameter:  $\varnothing$  4-1/4" (108 mm)

# UR4E

**4" Series****Round Downlight Regressed Trim**

## PHOTOMETRIC DATA

**With performance 1 housing**

	Spot		Narrow Flood		Flood	
<b>2,700K with 80+ CRI</b>	673 lms	67.3 lms/W	830 lms	83 lms/W	844 lms	84.4 lms/W
<b>3,000K with 80+ CRI</b>	689 lms	68.9 lms/W	850 lms	85 lms/W	864 lms	86.4 lms/W

<b>2,700K with 90+ CRI</b>	559 lms	55.9 lms/W	689 lms	68.9 lms/W	701 lms	70.1 lms/W
<b>3,000K with 90+ CRI</b>	578 lms	57.8 lms/W	712 lms	71.2 lms/W	724 lms	72.4 lms/W
<b>3,500K with 90+ CRI</b>	610 lms	61 lms/W	752 lms	75.2 lms/W	765 lms	76.5 lms/W
<b>4,000K with 90+ CRI</b>	626 lms	62.6 lms/W	772 lms	77.2 lms/W	785 lms	78.5 lms/W

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

**With performance 2 housing**

	Spot		Narrow Flood		Flood	
<b>2,700K with 80+ CRI</b>	876 lms	58.4 lms/W	1,081 lms	72 lms/W	1,099 lms	73.2 lms/W
<b>3,000K with 80+ CRI</b>	898 lms	59.8 lms/W	1,107 lms	73.8 lms/W	1,126 lms	75 lms/W

<b>2,700K with 90+ CRI</b>	728 lms	48.5 lms/W	898 lms	59.8 lms/W	913 lms	60.8 lms/W
<b>3,000K with 90+ CRI</b>	752 lms	50.1 lms/W	928 lms	61.8 lms/W	943 lms	62.8 lms/W
<b>3,500K with 90+ CRI</b>	794 lms	52.9 lms/W	980 lms	65.3 lms/W	996 lms	66.4 lms/W
<b>4,000K with 90+ CRI</b>	816 lms	54.4 lms/W	1,006 lms	67 lms/W	1,023 lms	68.2 lms/W
<b>Warm Dimming with 90+ CRI</b>	440 lms	29.3 lms/W	542 lms	36.1 lms/W	551 lms	36.7 lms/W

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

Lens Factors	
STD	1
C	0.97
F	0.68
H	0.54

Reflectors Factors	
AN	0.99
11	1
22	0.97

# CONTRASTE

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# UR4E

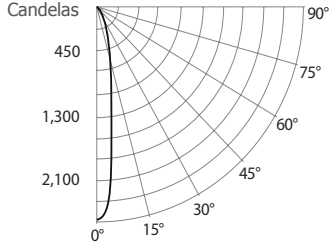
## 4" Series Round Downlight Regressed Trim



### PHOTOMETRIC DATA

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

##### CANDLEPOWER DISTRIBUTION



##### LIGHT CONE

Distance	FC	DIA
06'	71.4	1.7'
08'	40.2	2.3'
10'	25.7	2.8'
12'	17.9	3.4'
14'	13.1	4.0'
16'	10.0	4.5'

Beam: 16"  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

##### LUMINAIRE

Performance 1 LED	3,000K Spot	
CPCB / Lumens	2,572 / 578.7	
Watts	120V	277V
	10W	10W
Operating AMPS	0.083A	0.036A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	57.8	
Spacing Criteria	0.07	

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

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

##### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	442.9	76.5%
0-40	534	92.3%
0-60	560.1	96.8%
60-90	18.6	3.2%
0-90	578.7	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	28	0.44
6'	16	0.25
7'	11	0.17
8'	11	0.17
9'	7	0.11

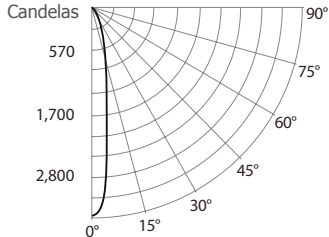
38' x 38' x 10' Room. Workplan located 2-1/2' (30").  
Reflectance factor 80%/50%/30%

##### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS
0	2,572
15	571
30	197
45	21
65	8
75	7
90	0

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

##### CANDLEPOWER DISTRIBUTION



##### LIGHT CONE

Distance	FC	DIA
06'	93.0	1.7'
08'	52.3	2.3'
10'	33.5	2.8'
12'	23.2	3.4'
14'	17.1	4.0'
16'	13.1	4.5'

Beam: 16"  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

##### LUMINAIRE

Performance 2 LED	3,000K Spot	
CPCB / Lumens	3,347 / 752.8	
Watts	120V	277V
	15W	15W
Operating AMPS	0.125A	0.054A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	50.1	
Spacing Criteria	0.07	

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

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

##### FLUX LUMINEUX ZONALE

ZONE	LUMENS	%LUMINAIRE
0-30	576.5	76.6%
0-40	695.1	92.3%
0-60	729.3	96.9%
60-90	23.5	3.1%
0-90	752.8	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	37	0.66
6'	21	0.37
7'	14	0.26
8'	14	0.26
9'	9	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	3,347
15	743
30	256
45	28
65	10
75	9
90	0

# UR4E

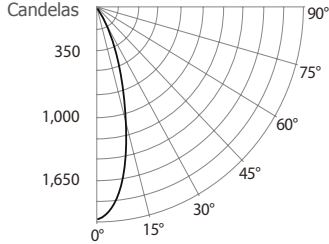
## 4" Series Round Downlight Regressed Trim



### PHOTOMETRIC DATA

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

##### CANDLEPOWER DISTRIBUTION



##### LIGHT CONE

Distance	FC	DIA
06'	54.5	3.5'
08'	30.6	4.7
10'	19.6	5.9'
12'	13.6	7.1'
14'	10.0	8.3'
16'	7.7	9.5'

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

##### LUMINAIRE

Performance 1 LED	3,000K Narrow Flood	
CPCB / Lumens	1,961 / 711.6	
Watts	120V	277V
	10W	10W
Operating AMPS	0.083A	0.036A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	71.1	
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	656.7	92.3%
0-40	706.2	99.2%
0-60	711.6	100%
60-90	0	0%
0-90	711.6	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	34	0.44
6'	20	0.25
7'	14	0.17
8'	14	0.17
9'	9	0.11

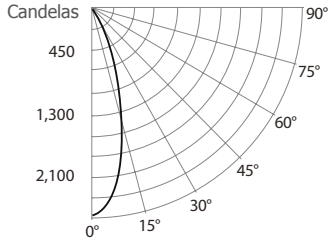
38' x 38' x 10' Room. Workplan located 2-1/2' (30").  
Reflectance factor 80%/50%/30%

##### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS
0	1,961
15	1,097
30	210
45	4
60	0
75	0
90	0

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

##### CANDLEPOWER DISTRIBUTION



##### LIGHT CONE

Distance	FC	DIA
06'	71.0	3.5'
08'	39.9	4.7
10'	25.6	5.9'
12'	17.8	7.1'
14'	13.0	8.3'
16'	10.0	9.5'

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

##### LUMINAIRE

Performance 2 LED	3,000K Narrow Flood	
CPCB / Lumens	2,556 / 928	
Watts	120V	277V
	15W	15W
Operating AMPS	0.125A	0.054A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	61.8	
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	856	92.2%
0-40	920.7	99.2%
0-60	928	100%
60-90	0	0%
0-90	928	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	46	0.66
6'	26	0.37
7'	18	0.26
8'	18	0.26
9'	12	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	2,556
15	1,430
30	274
45	6
60	0
75	0
90	0

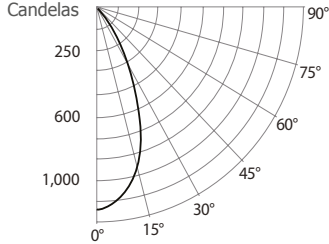
# UR4E

## 4" Series Round Downlight Regressed Trim



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

#### CANDLEPOWER DISTRIBUTION



#### LIGHT CONE

Distance	FC	DIA
06'	31.4	5.4'
08'	17.7	7.2'
10'	11.3	9.0'
12'	7.8	10.8'
14'	5.8	12.6'
16'	4.4	14.4'

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

#### LUMINAIRE

Performance 1 LED	3,000K Flood	
CPCB / Lumens	1,130	/ 712.2
Watts	120V	277V
	10W	10W
Operating AMPS	0.083A	0.036A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	71.2	
Spacing Criteria	0.20	

#### 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	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	586.1	82.3%
0-40	686.9	96.4%
0-60	711.3	99.9%
60-90	0.9	0.1%
0-90	712.2	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	35	0.44
6'	20	0.25
7'	14	0.17
8'	14	0.17
9'	9	0.11

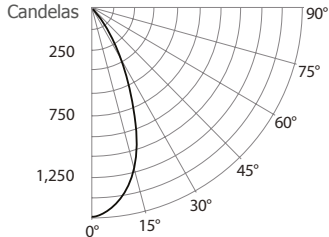
38' x 38' x 10' Room. Workplan located 2-1/2' (30").  
Reflectance factor 80%/50%/30%

#### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS
0	1,130
15	894
30	312
45	25
60	2
75	0
90	0

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

#### CANDLEPOWER DISTRIBUTION



#### LIGHT CONE

Distance	FC	DIA
06'	40.9	5.4'
08'	23.0	7.2'
10'	14.7	9.0'
12'	10.2	10.8'
14'	7.5	12.6'
16'	5.7	14.4'

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

#### LUMINAIRE

Performance 2 LED	3,000K Flood	
CPCB / Lumens	1,471	/ 927.7
Watts	120V	277V
	15W	15W
Operating AMPS	0.125A	0.054A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	61.8	
Spacing Criteria	0.20	

#### 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	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	66	62	66	62	62	62	

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

#### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	763.4	82.3%
0-40	894.5	96.4%
0-60	926.1	99.8%
60-90	1.6	0.2%
0-90	927.7	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	45	0.66
6'	25	0.37
7'	18	0.26
8'	18	0.26
9'	11	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	1,471
15	1,164
30	406
45	33
60	3
75	0
90	0