

# UR3F

## 3-1/2" Series Round Downlight Regressed Trim with Pinhole Aperture



Project \_\_\_\_\_

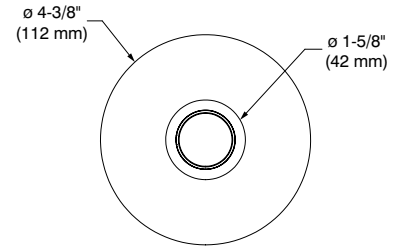
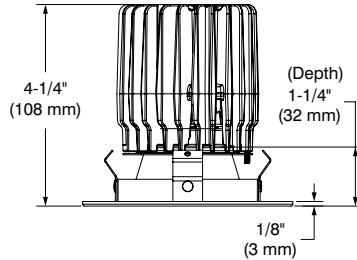
Notes \_\_\_\_\_

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

Date \_\_\_\_\_



UR3FC-2222 (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):**  
**670 lumens @ 3,000K, 67 lms/W**  
**Performance 2 (15W):**  
**872 lumens @ 3,000K, 58.1 lms/W**  
**Warm Dimming (15W):**  
**427 lumens @ 3,000K, 28.4 lms/W**

#### OPTIC SYSTEM\*

Optical reflectors available:  
 Spot and Narrow Flood

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

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

#### LENS

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

#### 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.

#### PAINTED REFLECTORS

Matte Black (22)

#### CEILING CUTOUT

ø 3-3/4" (95 mm)

# UR3F

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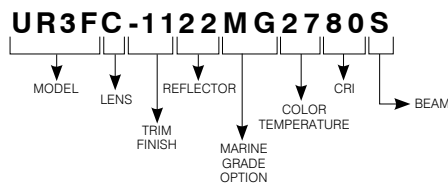


### SPECIFICATIONS (CONT'D)

#### 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	<b>IC and Air Tight</b> NWUR3-120D1 NWUR3-120E1 NWUR3-277D1 <b>Emergency Driver Non-IC and Air Tight</b> NWUR3-120D1-EM NWUR3-120E1-EM NWUR3-277D1-EM	<b>Air Tight</b> ISUR3-120D1 ISUR3-120E1 ISUR3-277D1 <b>Chicago Plenum and Polyurethane Air Tight</b> ISUR3-120D1P ISUR3-120E1P ISUR3-277D1P	For dimming, please visit our Web site frequently to find our suggested compatible dimmers list: <a href="http://www.contrastlighting.com">www.contrastlighting.com</a>
<b>Performance 2</b> 15W MAX	<b>Non-IC and Air Tight</b> REUR3-120D2 REUR3-120E2 REUR3-120EB2 REUR3-2772 REUR3-277D2	<b>Non-IC and Air Tight</b> NWUR3-120D2 NWUR3-120E2 NWUR3-120EB2 NWUR3-2772 NWUR3-277D2 <b>Emergency Driver Non-IC and Air Tight</b> NWUR3-120D2-EM NWUR3-120E2-EM NWUR3-120EB2-EM NWUR3-2772-EM NWUR3-277D2-EM	<b>Air Tight</b> ISUR3-120D2 ISUR3-120E2 ISUR3-120EB2 ISUR3-2772 ISUR3-277D2 <b>Chicago Plenum Air Tight</b> ISUR3-120D2P ISUR3-120E2P ISUR3-120EB2P ISUR3-2772P ISUR3-277D2P	

#### CODIFICATION EXAMPLE



#### ORDERING CODE

MODEL	LENS	TRIM FINISHES	REFLECTOR	MARINE GRADE	COLOR TEMPERATURES	CRI	BEAMS
<b>UR3F</b>			<b>22</b>				
UR3F	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>22</b> Matte Black	May be applied on finishes: -11 and -22	<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>35</b> 3,500K (90+ CRI)		
	<b>H</b> Honeycomb	<b>-12BR</b> Brushed Nickel			<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						

#### 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  
 Tel.: 1-888-839-4624  
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# UR3F

## 3-1/2" Series

### Round Downlight Regressed Trim with Pinhole Aperture



#### GOOF RINGS

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**Code:** RR3-03SA (Satin Gold)  
 RR3-04BR (Brushed Chrome)  
 RR3-11 (Matte White)  
 RR3-12BR (Brushed Nickel)  
 RR3-13 (Satin Nickel)  
 RR3-22 (Matte Black)

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

Inside diameter:  $\varnothing$  3-11/16" (94 mm)

#### OPENING ADAPTOR

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Can lip adaptor for 3-1/2" (89 mm) pot in a 4-1/4" (108 mm) opening.

**Finish:** Galvanized steel

**Code:** 312296

Outside diameter:  $\varnothing$  4-5/16" (110 mm)

Inside diameter:  $\varnothing$  3-5/8" (92 mm)

# UR3F

**3-1/2" Series****Round Downlight Regressed Trim with Pinhole Aperture**

## PHOTOMETRIC DATA

**With performance 1 housing**

	Spot		Narrow Flood	
<b>2,700K with 80+ CRI</b>	530 lms	53 lms/W	654 lms	65.4 lms/W
<b>3,000K with 80+ CRI</b>	543 lms	54.3 lms/W	670 lms	67 lms/W

<b>2,700K with 90+ CRI</b>	440 lms	44 lms/W	543 lms	54.3 lms/W
<b>3,000K with 90+ CRI</b>	455 lms	45.5 lms/W	561 lms	56.1 lms/W
<b>3,500K with 90+ CRI</b>	480 lms	48 lms/W	592 lms	59.2 lms/W
<b>4,000K with 90+ CRI</b>	493 lms	49.3 lms/W	608 lms	60.8 lms/W

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

**With performance 2 housing**

	Spot		Narrow Flood	
<b>2,700K with 80+ CRI</b>	690 lms	46 lms/W	851 lms	56.7 lms/W
<b>3,000K with 80+ CRI</b>	707 lms	47.1 lms/W	872 lms	58.1 lms/W

<b>2,700K with 90+ CRI</b>	573 lms	38.2 lms/W	707 lms	47.1 lms/W
<b>3,000K with 90+ CRI</b>	593 lms	39.5 lms/W	731 lms	48.7 lms/W
<b>3,500K with 90+ CRI</b>	626 lms	41.7 lms/W	771 lms	51.4 lms/W
<b>4,000K with 90+ CRI</b>	642 lms	42.8 lms/W	792 lms	52.8 lms/W
<b>Warm Dimming with 90+ CRI</b>	346 lms	23 lms/W	427 lms	28.4 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

# CONTRASTE

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# UR3F

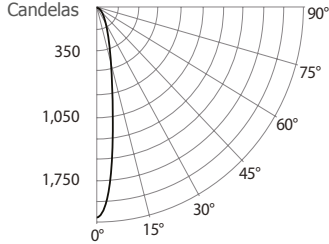
## 3-1/2" Series Round Downlight Regressed Trim with Pinhole Aperture



### PHOTOMETRIC DATA

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

##### CANDLEPOWER DISTRIBUTION



##### LIGHT CONE

Distance	FC	DIA
06'	56.3	1.7'
08'	31.6	2.3'
10'	20.3	2.8'
12'	14.1	3.4'
14'	10.3	4.0'
16'	7.9	4.5'

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

##### LUMINAIRE

Performance 1 LED	3,000K Spot	
CPCB / Lumens	2,025 / 454.6	
Watts	120V	277V
	10W	10W
Operating AMPS	0.083A	0.036A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	45.4	
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	70	74	70	
10	70	65	69	65	68	64	68	64	

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

##### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	348.7	76.7%
0-40	420.6	92.5%
0-60	440.9	97%
60-90	13.7	3%
0-90	454.6	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	22	0.44
6'	12	0.25
7'	9	0.17
8'	9	0.17
9'	6	0.11

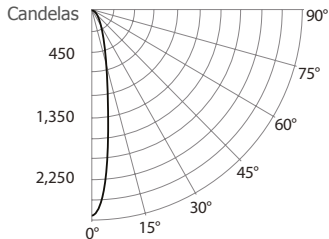
38' x 38' x 10' Room. Workplan located 2-1/2' (30").  
Reflectance factor 80%/50%/30%

##### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS
0	2,025
15	449
30	155
45	17
65	6
75	5
90	0

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

##### CANDLEPOWER DISTRIBUTION



##### LIGHT CONE

Distance	FC	DIA
06'	73.3	1.7'
08'	41.2	2.3'
10'	26.4	2.8'
12'	18.3	3.4'
14'	13.5	4.0'
16'	10.3	4.5'

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

##### LUMINAIRE

Performance 2 LED	3,000K Spot	
CPCB / Lumens	2,639 / 593.7	
Watts	120V	277V
	15W	15W
Operating AMPS	0.125A	0.054A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	39.6	
Spacing Criteria	0.073	

##### 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%

##### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	454.5	76.6%
0-40	548.2	92.3%
0-60	575.1	96.9%
60-90	18.6	3.1%
0-90	593.7	100%

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

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	29	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	2,639
15	586
30	202
45	22
65	8
75	7
90	0

# UR3F

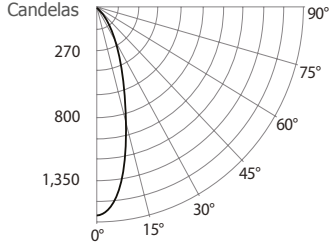
## 3-1/2" Series Round Downlight Regressed Trim with Pinhole Aperture



### PHOTOMETRIC DATA

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

##### CANDLEPOWER DISTRIBUTION



##### LIGHT CONE

Distance	FC	DIA
06'	42.9	3.6'
08'	24.1	4.7'
10'	15.5	5.9'
12'	10.7	7.1'
14'	7.9	8.3'
16'	6.0	9.5'

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

##### LUMINAIRE

Performance 1 LED	3,000K Narrow Flood	
CPCB / Lumens	1,545	/ 560.9
Watts	120V	277V
	10W	10W
Operating AMPS	0.083A	0.036A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	56	
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	517.6	92.3%
0-40	556.6	99.2%
0-60	560.9	100 %
60-90	0	0%
0-90	560.9	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

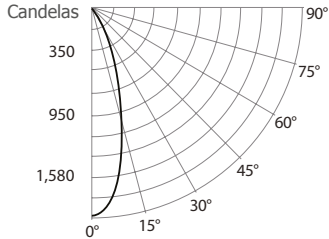
38' x 38' x 10' Room. Workplan located 2-1/2' (30").  
Reflectance factor 80%/50%/30%

##### CANDELAS DISTRIBUTION

DEGREES/ VERTICAL	CANDELAS
0	1,545
15	865
30	165
45	3
65	0
75	0
90	0

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

##### CANDLEPOWER DISTRIBUTION



##### LIGHT CONE

Distance	FC	DIA
06'	52.3	3.5'
08'	29.4	4.7'
10'	18.8	5.9'
12'	13.1	7.1'
14'	9.6	8.3'
16'	7.3	9.5'

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

##### LUMINAIRE

Performance 2 LED	3,000K Narrow Flood	
CPCB / Lumens	1,881	/ 682.8
Watts	120V	277V
	15W	15W
Operating AMPS	0.125A	0.054A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	45.5	
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	629.9	92.2%
0-40	677.3	99.2%
0-60	682.7	100 %
60-90	0.1	0%
0-90	682.8	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	1,881
15	1,052
30	201
45	4
65	0
75	0
90	0