

UR3E

3-1/2" Series Round Downlight Regressed Trim



Project _____

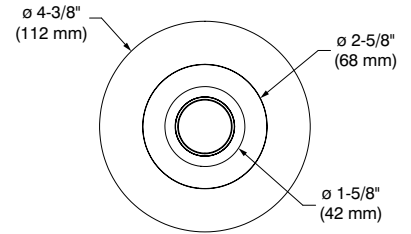
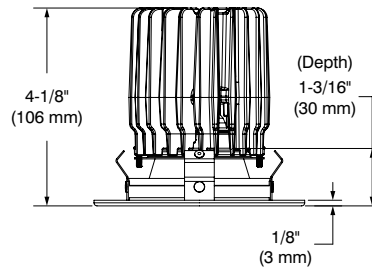
Notes _____

Fixture Type _____

Date _____



UR3E-13AN (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:
L₇₀ @ 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:
L₇₀ @ 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)
Honeycomb (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 3-3/4" (95 mm)

UR3E

3-1/2" Series

Round Downlight Regressed Trim



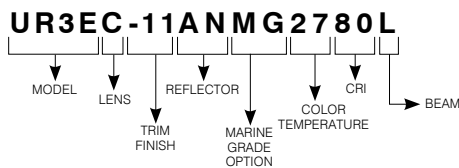
SPECIFICATIONS (CONT'D)

COMPATIBLE HOUSINGS

	Remodel Housings	New Construction Housings	IC Housings
Performance 1 10W Warm Dimming not compatible	IC and Air Tight REUR3-120D1 REUR3-120E1 REUR3-277D1	IC and Air Tight NWUR3-120D1 NWUR3-120E1 NWUR3-277D1 Emergency Driver Non-IC and Air Tight NWUR3-120D1-EM NWUR3-120E1-EM NWUR3-277D1-EM	Air Tight ISUR3-120D1 ISUR3-120E1 ISUR3-277D1 Chicago Plenum and Polyurethane Air Tight ISUR3-120D1P ISUR3-120E1P ISUR3-277D1P
Performance 2 15W MAX	Non-IC and Air Tight REUR3-120D2 REUR3-120E2 REUR3-120EB2 REUR3-2772 REUR3-277D2	Non-IC and Air Tight NWUR3-120D2 NWUR3-120E2 NWUR3-120EB2 NWUR3-2772 NWUR3-277D2 Emergency Driver Non-IC and Air Tight NWUR3-120D2-EM NWUR3-120E2-EM NWUR3-120EB2-EM NWUR3-2772-EM NWUR3-277D2-EM	Air Tight ISUR3-120D2 ISUR3-120E2 ISUR3-120EB2 ISUR3-2772 ISUR3-277D2 Chicago Plenum Air Tight ISUR3-120D2P ISUR3-120E2P ISUR3-120EB2P ISUR3-2772P ISUR3-277D2P

For dimming, please visit our Web site frequently to find our suggested compatible dimmers list:
www.contrastlighting.com

CODIFICATION EXAMPLE



ORDERING CODE

MODEL	LENS	TRIM FINISHES	REFLECTORS	MARINE GRADE	COLOR TEMPERATURES	CRI	BEAMS
UR3E							
UR3E	Without lens (std)	-03SA Satin Gold	PAINTED	MG (optional)	27 2,700K (80+ and 90+ CRI)	80 80+	S Spot (16°)
C	Clear	-04BR Brushed Chrome	AN Natural Anodized	May be applied on finishes: -11 and -22	30 3,000K (80+ and 90+ CRI)	90 90+	M Narrow Flood (32°)
F	Frosted	-11 Matte White	11 Matte White		35 3,500K (90+ CRI)		L Flood (48°)
H	Honeycomb	-12BR Brushed Nickel	22 Matte Black		40 4,000K (90+ CRI)		
L	Linear	-13 Satin Nickel			WD Warm Dimming (90+ CRI)		
P	Prismatic	-22 Matte Black	(Not available with -03SA finish)				
S	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
 Fax.: 1-877-839-7057
 contrastlighting.com
 info@contrastlighting.com

© 2017 Contrast Lighting M.L. Inc.
 All rights reserved

Contrast Lighting M.L. Inc. reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication.

SPECIFICATION SHEET

UR3E

3-1/2" Series**Round Downlight Regressed Trim****GOOF RINGS**

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

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)

CONTRASTE

1009, rue du Parc Industriel
 Lévis (Québec) G6Z 1C5 Canada
 Tel.: 1-888-839-4624
 Fax.: 1-877-839-7057
 contrastlighting.com
 info@contrastlighting.com

© 2017 Contrast Lighting M.L. Inc.
 All rights reserved

Contrast Lighting M.L. Inc. reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication.

UR3E

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

PHOTOMETRIC DATA

With performance 1 housing

	Spot		Narrow Flood		Flood	
2,700K with 80+ CRI	673 lms	67.3 lms/W	830 lms	83 lms/W	844 lms	84.4 lms/W
3,000K with 80+ CRI	689 lms	68.9 lms/W	850 lms	85 lms/W	864 lms	86.4 lms/W
2,700K with 90+ CRI	559 lms	55.9 lms/W	689 lms	68.9 lms/W	701 lms	70.1 lms/W
3,000K with 90+ CRI	578 lms	57.8 lms/W	712 lms	71.2 lms/W	724 lms	72.4 lms/W
3,500K with 90+ CRI	610 lms	61 lms/W	752 lms	75.2 lms/W	765 lms	76.5 lms/W
4,000K with 90+ CRI	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	
2,700K with 80+ CRI	876 lms	58.4 lms/W	1,081 lms	72 lms/W	1,099 lms	73.2 lms/W
3,000K with 80+ CRI	898 lms	59.8 lms/W	1,107 lms	73.8 lms/W	1,126 lms	75 lms/W
2,700K with 90+ CRI	728 lms	48.5 lms/W	898 lms	59.8 lms/W	913 lms	60.8 lms/W
3,000K with 90+ CRI	752 lms	50.1 lms/W	928 lms	61.8 lms/W	943 lms	62.8 lms/W
3,500K with 90+ CRI	794 lms	52.9 lms/W	980 lms	65.3 lms/W	996 lms	66.4 lms/W
4,000K with 90+ CRI	816 lms	54.4 lms/W	1,006 lms	67 lms/W	1,023 lms	68.2 lms/W
Warm Dimming with 90+ CRI	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

1009, rue du Parc Industriel
Lévis (Québec) G6Z 1C5 Canada
Tel.: 1-888-839-4624
Fax.: 1-877-839-7057
contrastlighting.com
info@contrastlighting.com

© 2017 Contrast Lighting M.L. Inc.
All rights reserved

Contrast Lighting M.L. Inc. reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication.

UR3E

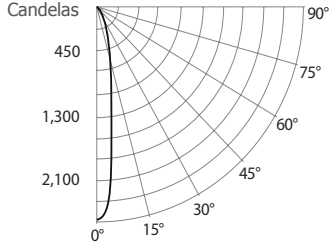
3-1/2" Series Round Downlight Regressed Trim



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	
	2	104	100	99	96	96	94	94	
	4	92	87	89	85	87	84	84	
	6	83	78	81	77	80	76	76	
	8	76	71	74	70	74	69	69	
	10	70	65	69	64	68	64	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

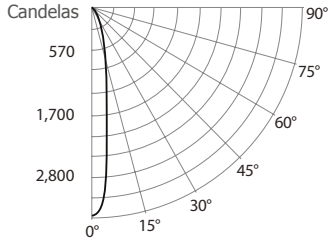
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

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	
	2	104	100	99	96	96	94	94	
	4	92	87	89	85	87	84	84	
	6	83	78	81	77	80	76	76	
	8	76	71	75	70	74	69	69	
	10	70	65	69	64	68	64	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

UR3E

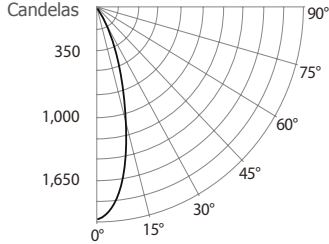
3-1/2" Series Round Downlight Regressed Trim



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

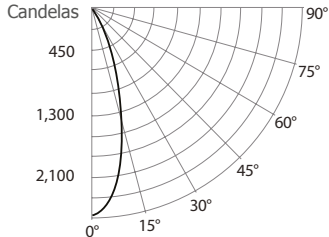
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

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

UR3E

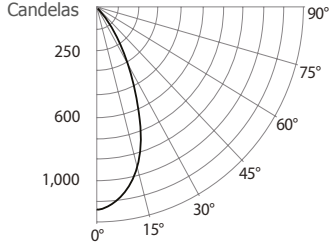
3-1/2" Series Round Downlight Regressed Trim



PHOTOMETRIC DATA

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

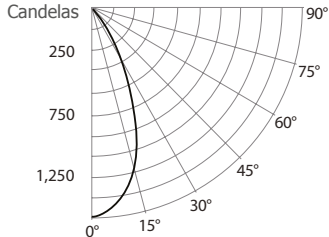
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

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