SPECIFICATION SHEET

Project

Notes

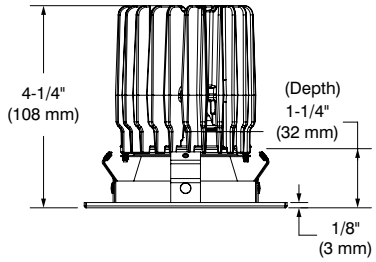
Fixture Type

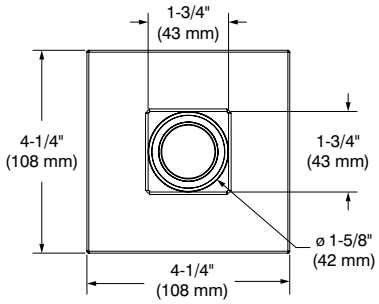
Date

UR3J

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

UR3J-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_{70} @ 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_{70} @ 50,000 hours

Color sorting: 3 SDCM

DELIVERED LUMENS

Performance 1 (10W):
625 lumens @ 3,000K, 62.5 lms/W

Performance 2 (15W):
814 lumens @ 3,000K, 54.2 lms/W

Warm Dimming (WD)
399 lumens @ 3,000K, 26.6 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.**

LENSES

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

PAINTED REFLECTORS

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

POWER SUPPLY

(Determined by the choice of housing)
120V, 277V or 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)

CONTRASTE

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UR3J

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

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 REUR3-UV1	**IC and Air Tight** NWUR3-120D1 NWUR3-120E1 NWUR3-277D1 NWUR3-UV1 **Emergency Driver Non-IC and Air Tight** NWUR3-120D1-EM NWUR3-120E1-EM NWUR3-277D1-EM NWUR3-UV1-EM	**Air Tight** ISUR3-120D1 ISUR3-120E1 ISUR3-277D1 ISUR3-UV1 **Chicago Plenum and Polyurethane Air Tight** ISUR3-120D1P ISUR3-120E1P ISUR3-277D1P ISUR3-UV1P
Performance 2 15W MAX	**Non-IC and Air Tight** REUR3-120D2 REUR3-120E2 REUR3-120EB2 REUR3-2772 REUR3-277D2 REUR3-UV2	**Non-IC and Air Tight** NWUR3-120D2 NWUR3-120E2 NWUR3-120EB2 NWUR3-2772 NWUR3-277D2 NWUR3-UV2 **Emergency Driver Non-IC and Air Tight** NWUR3-120D2-EM NWUR3-120E2-EM NWUR3-120EB2-EM NWUR3-2772-EM NWUR3-277D2-EM NWUR3-UV2-EM	**Air Tight** ISUR3-120D2 ISUR3-120E2 ISUR3-120EB2 ISUR3-2772 ISUR3-277D2 ISUR3-UV2 **Chicago Plenum Air Tight** ISUR3-120D2P ISUR3-120E2P ISUR3-120EB2P ISUR3-2772P ISUR3-277D2P ISUR3-UV2P

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

CERTIFICATION

cULus **E343977** for damp locations

WARRANTY

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

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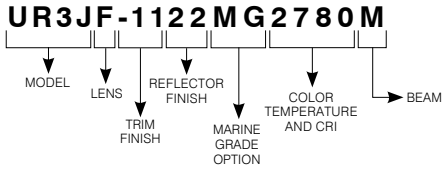
CODIFICATION EXAMPLE



ORDERING CODES

MODEL	LENSES	TRIM FINISHES	REFLECTOR FINISHES	MARINE GRADE	COLOR TEMPERATURES AND CRI	BEAMS
UR3J						
UR3J	Without lens (std)	**-01** White	**PAINTED**	**MG (optional)**	**2780** 2,700K (80+ CRI)	**S** Spot (16°)
	C Clear	**-03SA** Satin Gold	**AN** Natural Anodized Aluminum	May be applied	**3080** 3,000K (80+ CRI)	**M** Narrow Flood (32°)
	F Frosted	**-04BR** Brushed Chrome	**11** Matte White	on finishes: -01,	**2790** 2,700K (90+ CRI)	
	H Honeycomb	**-11** Matte White	**22** Matte Black	-11, -22 and -25	**3090** 3,000K (90+ CRI)	Not available with Warm Dimming
	L Linear	**-12BR** Brushed Nickel			**3590** 3,500K (90+ CRI)	
	P Prismatic	**-13** Satin Nickel	(Not available with **-03SA** finish)		**4090** 4,000K (90+ CRI)	
	S Solite	**-22** Matte Black			**WD90** Warm Dimming (90+ CRI)	
		-25 Polar Grey			Compatible with 15W drivers only (EB2, D2 and UV2)	
		(**-25** finish perfecly matches with **AN** reflector finish)				

GOOF RINGS

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

Code: **RS3-01** (White)
RS3-03SA (Satin Gold)
RS3-04BR (Brushed Chrome)
RS3-11 (Matte White)
RS3-12BR (Brushed Nickel)
RS3-13 (Satin Nickel)
RS3-22 (Matte Black)
RS3-25 (Polar Grey)

Outside diameter: 5" (127 mm) x 5" (127 mm)
Inside diameter: ø 3-11/16" (94 mm)

MARINE GRADE

2-year warranty on finish

This option increases the painted finishes resistance by reducing and delaying apparition and propagation of oxidation (ex: rust and others).

MARINE GRADE treatment is recommended for damp to wet locations.

Unless otherwise indicated, trims are for interior use. Also suitable for cold and exterior locations, as in soffits, where fixtures are not subject to direct rain or snow exposure.

WARNING – This option is not suitable for salt environments and/or highly corrosive areas such as soffits in coastal regions and natatoriums. Such usage would void warranty on the product.

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UR3J

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

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

	Spot (16˚)		Narrow Flood (32˚)	
2,700K with 80+ CRI	495 lms	49.5 lms/W	610 lms	61 lms/W
3,000K with 80+ CRI	507 lms	50.7 lms/W	625 lms	62.5 lms/W

2,700K with 90+ CRI	411 lms	41.1 lms/W	507 lms	50.7 lms/W
3,000K with 90+ CRI	425 lms	42.5 lms/W	524 lms	52.4 lms/W
3,500K with 90+ CRI	448 lms	44.8 lms/W	553 lms	55.3 lms/W
4,000K with 90+ CRI	460 lms	46 lms/W	568 lms	56.8 lms/W
Warm Dimming with 90+ CRI	Not available with performance 1 housings			

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

With performance 2 housing

	Spot (16˚)		Narrow Flood (32˚)	
2,700K with 80+ CRI	644 lms	42.9 lms/W	794 lms	52.9 lms/W
3,000K with 80+ CRI	660 lms	44 lms/W	814 lms	54.2 lms/W

2,700K with 90+ CRI	535 lms	35.6 lms/W	660 lms	44 lms/W
3,000K with 90+ CRI	553 lms	36.8 lms/W	682 lms	45.4 lms/W
3,500K with 90+ CRI	584 lms	38.9 lms/W	720 lms	48 lms/W
4,000K with 90+ CRI	600 lms	40 lms/W	739 lms	49.2 lms/W
Warm Dimming with 90+ CRI	Not available		399 lms	26.6 lms/W

Performance 2 Housings Factors	
XXUR-120E2	0.95
XXUR-120EB2, XXUR-120D2, XXUR-2772 or 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

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

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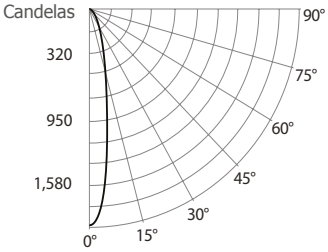
PHOTOMETRIC DATA

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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06′	52.5	1.7′
08′	29.5	2.3′
10′	18.9	2.8′
12′	13.1	3.4′
14′	9.6	4.0′
16′	7.4	4.5′

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

LUMINAIRE

Performance 1 LED	3,000K Spot	
CPCB / Lumens	1,891 / 426	
Watts	**120V** 10W	**277V** 10W
Operating AMPS	0.083A	0.036A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	42.6	
Spacing Criteria	0.07	

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	74	70	73	69
	10	70	65	69	64	68	64

Zonal Cavity Method
Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	325.7	76.5%
0-40	392.7	92.2%
0-60	412.3	96.8%
60-90	13.7	3.2%
0-90	426	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/ SQ. FT.
5'	21	0.44
6'	12	0.25
7'	8	0.17
8'	8	0.17
9'	5	0.11

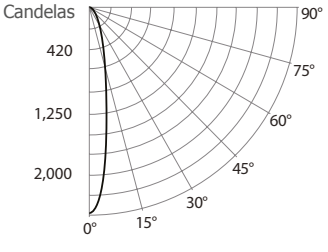
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

CANDELAS DISTRIBUTION

DEGREES/ VERTICAL	CANDELAS
0	1,891
15	420
30	145
45	16
65	6
75	5
90	0

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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06′	68.4	1.7′
08′	38.5	2.3′
10′	24.6	2.8′
12′	17.1	3.4′
14′	12.6	4.0′
16′	9.6	4.5′

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

LUMINAIRE

Performance 2 LED	3,000K Spot	
CPCB / Lumens	2,461 / 552.3	
Watts	**120V** 15W	**277V** 15W
Operating AMPS	0.125A	0.054A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	36,8	
Spacing Criteria	0.07	

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	70
	10	70	65	69	65	68	64

Zonal Cavity Method
Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	423.9	76.8%
0-40	511.3	92.6%
0-60	535.7	97%
60-90	16.6	3%
0-90	552.3	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/ SQ. FT.
5'	27	0.66
6'	15	0.37
7'	10	0.26
8'	10	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	2,461
15	546
30	188
45	20
65	7
75	6
90	0

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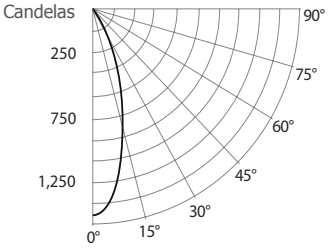
PHOTOMETRIC DATA

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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06′	40.1	3.5′
08′	22.5	4.7′
10′	14.4	5.9′
12′	10.0	7.1′
14′	7.4	8.3′
16′	5.6	9.5′

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

LUMINAIRE

Performance 1 LED	3,000K	Narrow Flood
CPCB / Lumens	1,443 /	523.7
Watts	**120V**	**277V**
	10W	10W
Operating AMPS	0.083A	0.036A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	52.3	
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	483.2	92.3%
0-40	519.7	99.2%
0-60	523.7	100 %
60-90	0	0%
0-90	523.7	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/ SQ. FT.
5'	26	0.44
6'	15	0.25
7'	10	0.17
8'	10	0.17
9'	6	0.11

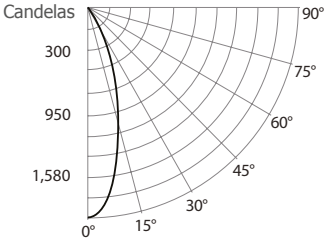
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

CANDELAS DISTRIBUTION

DEGREES/ VERTICAL	CANDELAS
0	1,443
15	807
30	154
45	3
60	0
75	0
90	0

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

DISTRIBUTION DES CANDELAS



LIGHT CONE

Distance	FC	DIA
06′	52.2	3.5′
08′	29.4	4.7′
10′	18.8	5.9′
12′	13.0	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	1,879 /	681.8
Watts	**120V**	**277V**
	15W	15W
Operating AMPS	0.125A	0.054A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	45.4	
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	629.1	92.3%
0-40	676.4	99.2%
0-60	681.8	100 %
60-90	0	0%
0-90	681.8	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	1,879
15	1,051
30	201
45	4
60	0
75	0
90	0

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