SPECIFICATION SHEET

Project

Notes

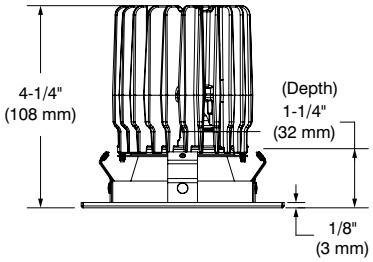
Fixture Type

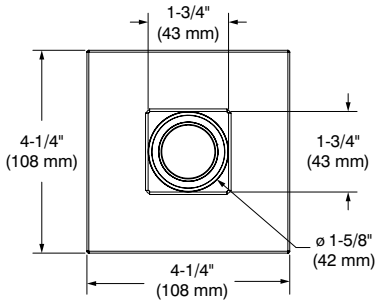
Date

UR3J

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

UR3J-111 (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 (15W):
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.**

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)

CONTRASTE

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2017-05 PRINTED IN CANADA

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	**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

UR3JF-1122MG2780M

MODEL · LENS · TRIM FINISH · REFLECTOR · MARINE GRADE OPTION · COLOR TEMPERATURE · CRI · BEAM

ORDERING CODE

MODEL	LENS	TRIM FINISHES	REFLECTORS	MARINE GRADE	COLOR TEMPERATURES	CRI	BEAMS
UR3J							
UR3J	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)		
	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

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UR3J

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

GOOF RINGS

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

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

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UR3J

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

PHOTOMETRIC DATA

With performance 1 housing

	Spot		Narrow Flood	
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

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

With performance 2 housing

	Spot		Narrow Flood	
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	323 lms	21.5 lms/W	399 lms	26.6 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

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2017-06

PRINTED IN CANADA

UR3J

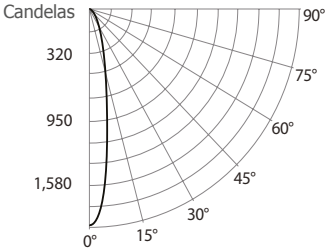
3-1/2" Series
Square Downlight Regressed Trim with Square Pinhole Aperture

c UL us LISTED

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

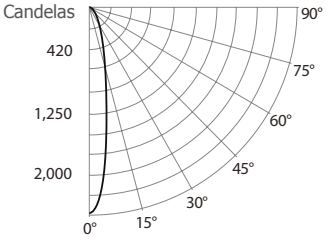
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

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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UR3J

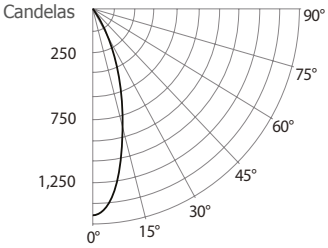
3-1/2" Series
Square Downlight Regressed Trim with Square Pinhole Aperture

c UL us LISTED

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

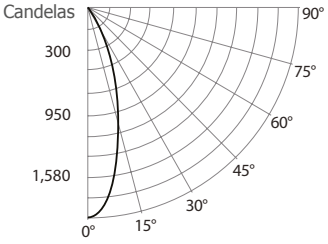
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

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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