

UR3J

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



Project _____

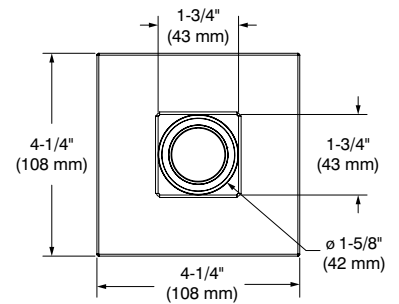
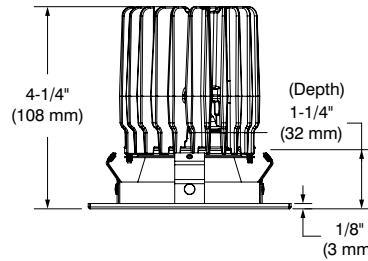
Notes _____

Fixture Type _____

Date _____



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:
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
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)

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.

PAINTED REFLECTORS

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

CEILING CUTOUT

ø 3-3/4" (95 mm)

CONTRASTE

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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

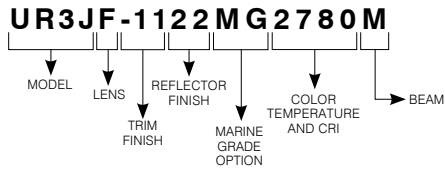
1 year on components against manufacturing defects
 5 years on LED arrays and drivers

UR3J

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



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 on finishes: -01, -11, -22 and -25	3080 3,000K (80+ CRI)	M Narrow Flood (32°)
F	Frosted	-04BR Brushed Chrome	11 Matte White		2790 2,700K (90+ CRI)	
H	Honeycomb	-11 Matte White	22 Matte Black		3090 3,000K (90+ CRI)	
L	Linear	-12BR Brushed Nickel	(Not available with -03SA finish)		3590 3,500K (90+ CRI)	
P	Prismatic	-13 Satin Nickel			4090 4,000K (90+ CRI)	
S	Solite	-22 Matte Black			WD90 Warm Dimming (90+ CRI)	
		-25 Polar Grey				
		(-25 finish perfectly matches with AN reflector finish)				

Compatible with 15W drivers only (EB2, D2 and UV2)

GOOF RINGS

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

- Code: RR3-01** (White)
RR3-03SA (Satin Gold)
RR3-04BR (Brushed Chrome)
RR3-11 (Matte White)
RR3-12BR (Brushed Nickel)
RR3-13 (Satin Nickel)
RR3-22 (Matte Black)
RR3-25 (Polar Grey)

Outside diameter: ø 6-1/8" (156 mm)
 Inside diameter: ø 3-11/16" (94 mm)

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) below tables. 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°)	
	lms	lms/W	lms	lms/W
2,700K with 80+ CRI	495	49.5	610	61
3,000K with 80+ CRI	507	50.7	625	62.5
2,700K with 90+ CRI	411	41.1	507	50.7
3,000K with 90+ CRI	425	42.5	524	52.4
3,500K with 90+ CRI	448	44.8	553	55.3
4,000K with 90+ CRI	460	46	568	56.8
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°)	
	lms	lms/W	lms	lms/W
2,700K with 80+ CRI	644	42.9	794	52.9
3,000K with 80+ CRI	660	44	814	54.2
2,700K with 90+ CRI	535	35.6	660	44
3,000K with 90+ CRI	553	36.8	682	45.4
3,500K with 90+ CRI	584	38.9	720	48
4,000K with 90+ CRI	600	40	739	49.2
Warm Dimming with 90+ CRI	323	21.5	399	26.6

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

CONTRASTE

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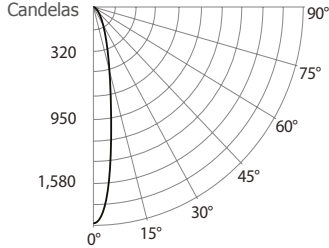
3-1/2" Series Square Downlight Regressed Trim with Square Pinhole Aperture



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	277V
	10W	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	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	73	69	73	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	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

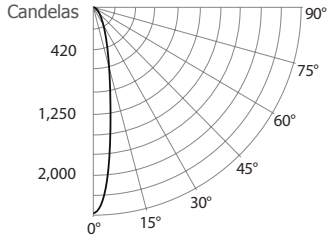
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

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	277V
	15W	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	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	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

CONTRASTE

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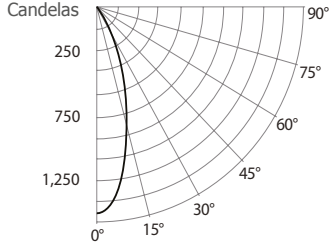
3-1/2" Series Square Downlight Regressed Trim with Square Pinhole Aperture



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

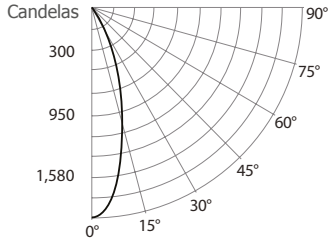
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

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