SPECIFICATION SHEET

Project

Notes

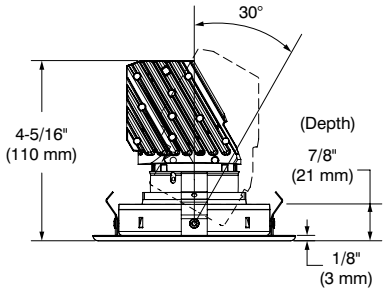
Fixture Type

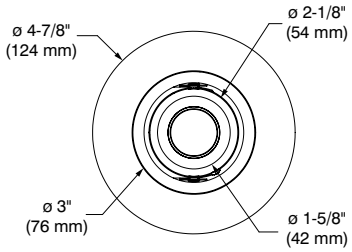
Date

UR4D

4" Series
Round Adjustable Regressed Trim

UR4D-12BR22 (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

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)**
Honeycombs **(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. Tilt: up to 30˚.

CEILING CUTOUT

ø 4-1/4" (108 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

2017-06 PRINTED IN CANADA

UR4D

4" Series
Round Adjustable 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** REUR4-120D1 REUR4-120E1 REUR4-277D1	**IC and Air Tight** NWUR4-120D1 NWUR4-120E1 NWUR4-277D1 **Emergency Driver Non-IC and Air Tight** NWUR4-120D1-EM NWUR4-120E1-EM NWUR4-277D1-EM	**Air Tight** ISUR4-120D1 ISUR4-120E1 ISUR4-277D1 **Chicago Plenum and Polyurethane Air Tight** ISUR4-120D1P ISUR4-120E1P ISUR4-277D1P
Performance 2 15W MAX	**Non-IC and Air Tight** REUR4-120D2 REUR4-120E2 REUR4-120EB2 REUR4-2772 REUR4-277D2	**Non-IC and Air Tight** NWUR4-120D2 NWUR4-120E2 NWUR4-120EB2 NWUR4-2772 NWUR4-277D2 **Emergency Driver Non-IC and Air Tight** NWUR4-120D2-EM NWUR4-120E2-EM NWUR4-120EB2-EM NWUR4-2772-EM NWUR4-277D2-EM	**Air Tight** ISUR4-120D2 ISUR4-120E2 ISUR4-120EB2 ISUR4-2772 ISUR4-277D2 **Chicago Plenum Air Tight** ISUR4-120D2P ISUR4-120E2P ISUR4-120EB2P ISUR4-2772P ISUR4-277D2P

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

CODIFICATION EXAMPLE

UR4DC-11ANMG2780L

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
UR4D							
UR4D	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	**30** 3,000K (80+ and 90+ CRI)	**90** 90+	**M** Narrow Flood (32°)
	F Frosted	**-11** Matte White	**11** Matte White	on finishes:	**35** 3,500K (90+ CRI)		**L** Flood (48°)
	H Honeycombs	**-12BR** Brushed Nickel	**22** Matte Black	-11 and -22	**40** 4,000K (90+ CRI)		
	L Linear	**-13** Satin Nickel			**WD** Warm Dimming (90+ CRI)		
	P Prismatic	**-22** Matte Black					
	S Solite		(Not available with **-03SA** finish)				

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

UR4D

4" Series
Round Adjustable Regressed Trim

GOOF RINGS

Code: RR4-03SA (Satin Gold)
RR4-04BR (Brushed Chrome)
RR4-11 (Matte White)
RR4-12BR (Brushed Nickel)
RR4-13 (Satin Nickel)
RR4-22 (Matte Black)

Outside diameter: ø 6-1/8" (156 mm)
Inside diameter: ø 4-1/4" (108 mm)

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

UR4D

4" Series
Round Adjustable 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

2017-06

PRINTED IN CANADA

UR4D

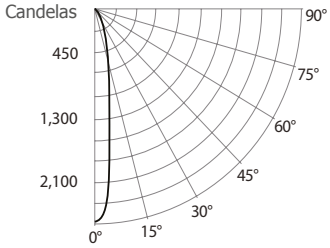
4" Series
Round Adjustable Regressed Trim

c UL us LISTED

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** 10W	**277V** 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**
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	74	69
	10	70	65	69	64	68	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

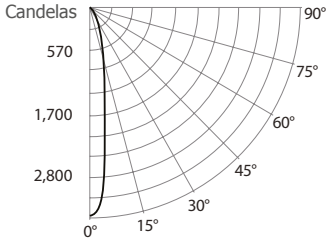
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

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** 15W	**277V** 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**
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	69
	10	70	65	69	64	68	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

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

UR4D

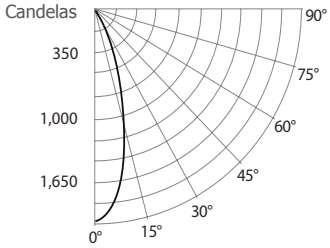
4" Series
Round Adjustable Regressed Trim

c UL us LISTED

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**
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	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

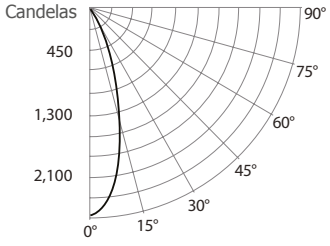
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

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**
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	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

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

UR4D

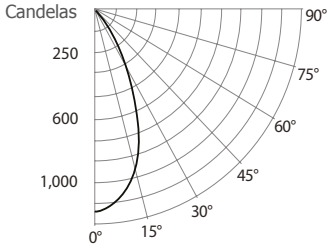
4" Series
Round Adjustable Regressed Trim

c UL us LISTED

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** 10W	**277V** 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**
RCR	0	119	119	111	111	106	106
	2	105	101	100	97	97	94
	4	93	88	89	85	87	84
	6	83	77	81	76	79	75
	8	75	69	73	68	72	68
	10	68	62	67	62	66	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

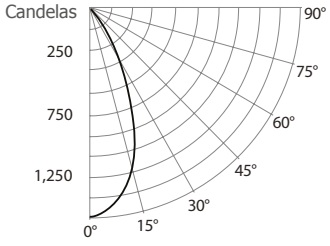
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

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** 15W	**277V** 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**
RCR	0	119	119	111	111	106	106
	2	105	101	100	97	97	94
	4	93	88	89	85	87	84
	6	83	77	81	76	79	75
	8	75	69	73	68	72	68
	10	68	62	66	62	66	61

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

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