

SPECIFICATION SHEET

UR4C

4" Series

Round Shower Trim

Project _____

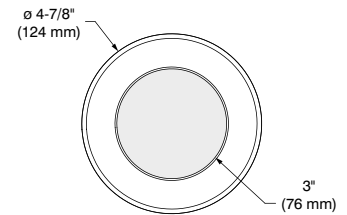
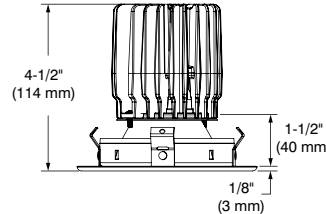
Notes _____

Fixture Type _____

Date _____



UR4CF-2211 (illustrated)



SPECIFICATIONS

LED MODULE

STANDARD (SOLID WHITE)

Lumileds Luxeon CoB 1203 GEN4

L₇₀ @ 50,000 hours of operation. 3-Step MacAdam ellipse (3 SDCM)

Color temperatures: 2,700K - 3,000K - 3,500K - 4,000K

CRI: 80+ (only 2,700K and 3,000K), 90+ ()

Delivered Lumens: Performance 1 (10W) - 892 lumens @ 3,000K, 89 lm/W

Performance 2 (15W) - 1,162 lumens @ 3,000K, 77 lm/W

Performance 3 (24W) - 1,743 lumens @ 3,000K, 73 lm/W

Power supply (*determined by the choice of housing*): 120V, 277V or 120V/277V

Several driver models available in three performances (10W, 15W and 24W) offered in two dimming options:

ELV: 120V only 0-10V: 120V / 277V

Consult housing specification sheet for more details.

WARM DIMMING (WD)

LTF 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.

L₇₀ @ 50,000 hours of operation. 3-Step MacAdam ellipse (3 SDCM)

Color Temperature: 3,050K to 1,800K

CRI: 90+ (over the entire dimming range)

Delivered Lumens: Performance 1 (10W) - up to 525 lumens

Performance 2 (15W) - up to 700 lumens

Performance 3 (24W) - up to 1,005 lumens

Power supply (*determined by the choice of housing*): 120V, 277V or 120V/277V

Several driver models available in three performances (10W, 15W and 24W) offered in two dimming options:

ELV: 120V only 0-10V: 120V / 277V

Consult housing specification sheet for more details.

CEILING CUTOUT

ø 4-1/4" (108 mm)

CERTIFICATION

- cULus **E343977** for wet locations
- Certified under California Energy Commission according to reference joint Appendix 8 (JA8-2016)

WARRANTY

1 year limited warranty on components against manufacturing defects
 5-year limited warranty on LED arrays and drivers

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Revision 6

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UR4C

4" Series

Round Shower Trim



SPECIFICATIONS (CONT'D)

COMPATIBLE HOUSINGS

	Remodel Housings	New Construction Housings	IC Housings
<p>Performance 1 10W</p> <p>Warm Dimming not compatible</p>	<p>IC Air Tight REUR4-120D1 REUR4-120E1 REUR4-277D1 REUR4-UV1</p>	<p>IC Air Tight NWUR4-120D1 NWUR4-120E1 NWUR4-277D1 NWUR4-UV1</p> <p>Non-IC Air Tight Emergency Driver NWUR4-120D1-EM NWUR4-120E1-EM NWUR4-277D1-EM NWUR4-UV1-EM</p>	<p>IC Air Tight ISUR4-120D1 ISUR4-120E1 ISUR4-277D1 ISUR4-UV1</p> <p>IC Air Tight Chicago Plenum and Polyurethane ISUR4-120D1P ISUR4-120E1P ISUR4-277D1P ISUR4-UV1P</p>
<p>Performance 2 15W MAX</p>	<p>Non-IC Air Tight REUR4-120D2 REUR4-120E2 REUR4-120EB2 REUR4-2772 REUR4-277D2 REUR4-UV2</p>	<p>Non-IC Air Tight NWUR4-120D2 NWUR4-120E2 NWUR4-120EB2 NWUR4-2772 NWUR4-277D2 NWUR4-UV2</p> <p>Non-IC Air Tight Emergency Driver NWUR4-120D2-EM NWUR4-120E2-EM NWUR4-120EB2-EM NWUR4-2772-EM NWUR4-277D2-EM NWUR4-UV2-EM</p>	<p>IC Air Tight ISUR4-120D2 ISUR4-120E2 ISUR4-120EB2 ISUR4-2772 ISUR4-277D2 ISUR4-UV2</p> <p>IC Air Tight Chicago Plenum ISUR4-120D2P ISUR4-120E2P ISUR4-120EB2P ISUR4-2772P ISUR4-277D2P ISUR4-UV2P</p>
<p>Performance 3 24W MAX</p>	N/A	<p>Non-IC Non-Air Tight NWUR4-UV3</p> <p>Non-IC Non-Air Tight Emergency Driver NWUR4-UV3-EM</p>	N/A

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) and UV3 (ELV/0-10V/24W)
dimming type and performance to use with Warm Dimming

COMPATIBLE HOUSINGS



	Remodel Housings	New Construction Housings	IC Housings
<p>Performance 1 10W</p>	<p>IC Air Tight REUR4-120D1</p>	<p>IC Air Tight NWUR4-120D1</p>	<p>IC Air Tight ISUR4-120D1</p>
<p>Performance 2 15W MAX</p>	N/A	N/A	<p>IC Air Tight ISUR4-120D2</p>

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





SPECIFICATION SHEET

UR4C

4" Series

Round Shower Trim

SPECIFICATIONS (CONT'D)

TRIM	Powder coat painted or plated die-formed steel. Double seals. Different finishes available: White (-01), Brushed Chrome (-04BR), Matte White (-11), Brushed Nickel (-12BR), Satin Nickel (-13) , Matte Black (-22) and Polar Grey (-25)				
REFLECTORS	PEINT Natural Anodized Aluminum (AN) Matte White (11) Matte Black (22)				
HEAT SINK	High quality aluminum injected heat sink ensuring maximum heat dissipation				
OPTIC SYSTEM	Optical reflectors and lenses available to customize your lighting. Choice of available lenses: Standard : Frosted (F) Clear (C)  Frosted (F) Frosted center clear (FC) Optical reflectors available: Narrow Flood and Flood				
	Standard				
	<table border="1"> <tr> <td>Narrow Flood (M)</td> <td>32°</td> </tr> <tr> <td>Flood (L) </td> <td>48°</td> </tr> </table>	Narrow Flood (M)	32°	Flood (L) 	48°
Narrow Flood (M)	32°				
Flood (L) 	48°				
	* Average beams shown. Consult .ies files on our Website for more details.				
ACCESSORIES	Goof Rings (see ordering code)				

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SPECIFICATION SHEET

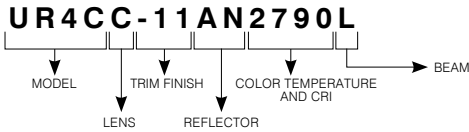
UR4C

4" Series

Round Shower Trim



CODIFICATION EXAMPLE



JA8 certified trim available without lens (std) only.
Not available with Warm Dimming

Options in red may generate a longer production lead time.

ORDERING CODES

MODEL	LENSES	TRIM FINISHES	REFLECTOR FINISHES	COLOR TEMPERATURE AND CRI	BEAMS
UR4C					
UR4C	C Clear	-01 White	PAINTED	2780 2,700K (80+ CRI)	M Narrow Flood (32°)
	F Frosted	-04BR Brushed Chrome	AN Natural Anodized Aluminum	3080 3,000K (80+ CRI)	L Flood (48°)
	FC Frosted center clear (standard)	-11 Matte White	11 Matte White	2790 2,700K (90+ CRI)	}
		-12BR Brushed Nickel	22 Matte Black	3090 3,000K (90+ CRI)	
		-22 Matte Black		3590 3,500K (90+ CRI)	
		-25 Polar Grey		4090 4,000K (90+ CRI)	
		-13 <i>Satin Nickel</i>			
		<i>(-25 finish perfectly matches with AN reflector)</i>		WD90 Warm Dimming 3,050K to 1,800K (90+ CRI)	
				<i>Compatible with 15W and 24W drivers only (EB2, D2, UV2 and UV3)</i>	

GOOF RINGS

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

- Code: **RR4-01** (white)
RR4-04BR (brushed chrome)
RR4-11 (matte white)
RR4-12BR (brushed nickel)
RR4-13 (satin nickel)
RR4-22 (matte black)
RR4-25 (polar grey)

Outside diameter: ø 6-1/8" (156 mm)
 Inside diameter: ø 4-1/8" (105 mm)

SPECIFICATION SHEET

UR4C**4" Series****Round Shower Trim**

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 (10W)

	Narrow Flood (32°)		Flood (48°)	
2,700K with 80+ CRI	871 lm	87 lm/W	2,700K with 80+ CRI	871 lm / 87 lm/W
3,000K with 80+ CRI	892 lm	89 lm/W	3,000K with 80+ CRI	892 lm / 89 lm/W
2,700K with 90+ CRI	724 lm	72 lm/W	2,700K with 90+ CRI	724 lm / 72 lm/W
3,000K with 90+ CRI	748 lm	75 lm/W	3,000K with 90+ CRI	748 lm / 75 lm/W
3,500K with 90+ CRI	789 lm	79 lm/W	3,500K with 90+ CRI	789 lm / 79 lm/W
4,000K with 90+ CRI	876 lm	88 lm/W	4,000K with 90+ CRI	876 lm / 88 lm/W
Warm Dimming with 90+ CRI	525 lm	52.5 lm/W	Warm Dimming with 90+ CRI	525 lm / 52.5 lm/W

JA8 LISTED

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

Lens Factors	
C	1
F	0.69
FC	0.99

Reflector Factors	
11	1
22	0.97
AN	0.99

WITH PERFORMANCE 2 HOUSING (15W)

	Narrow Flood (32°)		Flood (48°)	
2,700K with 80+ CRI	1,135 lm	76 lm/W	2,700K with 80+ CRI	1,135 lm / 76 lm/W
3,000K with 80+ CRI	1,162 lm	77 lm/W	3,000K with 80+ CRI	1,162 lm / 77 lm/W
2,700K with 90+ CRI	943 lm	63 lm/W	2,700K with 90+ CRI	943 lm / 63 lm/W
3,000K with 90+ CRI	974 lm	65 lm/W	3,000K with 90+ CRI	974 lm / 65 lm/W
3,500K with 90+ CRI	1,028 lm	69 lm/W	3,500K with 90+ CRI	1,028 lm / 69 lm/W
4,000K with 90+ CRI	1,056 lm	70 lm/W	4,000K with 90+ CRI	1,056 lm / 70 lm/W
Warm Dimming with 90+ CRI	700 lm	46.6 lm/W	Warm Dimming with 90+ CRI	700 lm / 46.6 lm/W

JA8 LISTED

Performance 2 Housings Factors	
XXUR-120E2	0.95
XXUR-120EB2, XXUR-120D2, XXUR-2772 or XXUR-277D2	1

Lens Factors	
C	1
F	0.69
FC	0.99

Reflector Factors	
11	1
22	0.97
AN	0.99

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UR4C

4" Series

Round Shower Trim

PHOTOMETRIC DATA



WITH PERFORMANCE 3 HOUSING (24W)

	Narrow Flood (32°)	
2,700K with 80+ CRI	1,703 lm	71 lm/W
3,000K with 80+ CRI	1,743 lm	73 lm/W

	Flood (48°)	
2,700K with 80+ CRI	1,703 lm	71 lm/W
3,000K with 80+ CRI	1,743 lm	73 lm/W

2,700K with 90+ CRI	1,414 lm	59 lm/W
3,000K with 90+ CRI	1,461 lm	61 lm/W
3,500K with 90+ CRI	1,542 lm	64 lm/W
4,000K with 90+ CRI	1,584 lm	66 lm/W
Warm Dimming with 90+ CRI	1,005 lm	42 lm/W

2,700K with 90+ CRI	1,414 lm	59 lm/W
3,000K with 90+ CRI	1,461 lm	61 lm/W
3,500K with 90+ CRI	1,542 lm	64 lm/W
4,000K with 90+ CRI	1,584 lm	66 lm/W
Warm Dimming with 90+ CRI	1,005 lm	42 lm/W

Lens Factors	
C	1
F	0.69
FC	0.99

Reflector Factors	
11	1
22	0.97
AN	0.99

UR4C

4" Series

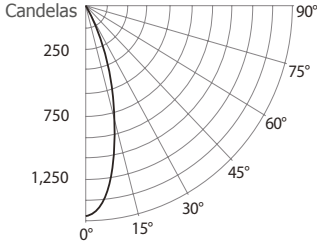
Round Shower Trim

PHOTOMETRIC DATA



3,000K, 90+ CRI, Narrow Flood, Performance 1 — WITH FROSTED LENS

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	40.5	3.5'
08'	22.8	4.7'
10'	14.6	5.9'
12'	10.1	7.1'
14'	7.4	8.3'
16'	5.7	9.5'

Beam: 32.9°
Beam Edge defined as 50% of Maximum Nadir Candle-power.

LUMINAIRE

Performance 1 LED	3,000K Narrow Flood	
CBCP / Lumens	1,457	528.7
Watts	120V	277V
	10W	10.5W
Operating AMPS	0.08A	0.038A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	52.8	
Spacing Criteria	0.56	

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	487.9	92.3%
0-40	524.7	99.2%
0-60	528.7	100%
60-90	0.0	0%
0-90	528.7	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	26	0.44
6'	20	0.34
7'	15	0.25
8'	10	0.17
9'	10	0.17

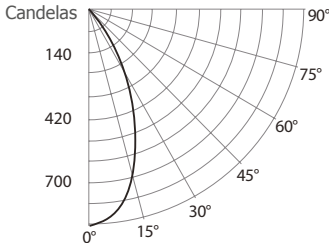
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS
0	1,457
15	815
30	156
45	3
60	0
75	0
90	0

3,000K, 90+ CRI, Flood, Performance 1 — WITH FROSTED LENS

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	23.3	5.4'
08'	13.1	7.2'
10'	8.3	9.0'
12'	5.8	10.8'
14'	4.2	12.6'
16'	3.2	14.4'

Beam: 48.4°
Beam Edge defined as 50% of Maximum Nadir Candle-power.

LUMINAIRE

Performance 1 LED	3,000K Flood	
CBCP/ Lumens	839	529.3
Watts	120V	277V
	10W	10.5W
Operating AMPS	0.08A	0.038A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	52.9	
Spacing Criteria	0.82	

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	435.5	82.3%
0-40	510.2	96.4%
0-60	528.3	99.8%
60-90	1	0.2%
0-90	529.3	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	26	0.44
6'	20	0.34
7'	15	0.25
8'	10	0.17
9'	10	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	839
15	664
30	232
45	18
60	2
75	0
90	0

UR4C

4" Series

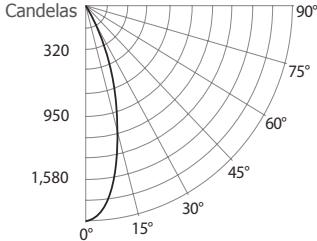
Round Shower Trim

PHOTOMETRIC DATA



3,000K, 90+ CRI, Narrow Flood, Performance 2 — WITH FROSTED LENS

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	52.6	3.5'
08'	29.6	4.7'
10'	18.9	5.9'
12'	13.2	7.1'
14'	9.7	8.3'
16'	7.4	9.5'

Beam: 32.9°
Beam Edge defined as 50% of Maximum Nadir Candle-power.

LUMINAIRE

Performance 2 LED	3,000K	Narrow Flood
CBCP / Lumens	1,894	/ 687.6
Watts	120V	277V
	15W	15.5W
Operating AMPS	0.12A	0.055A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	45.8	
Spacing Criteria	0.56	

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	634.3	92.2%
0-40	682.2	99.2%
0-60	687.6	100%
60-90	0.0	0%
0-90	687.6	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	30	0.58
6'	26	0.51
7'	19	0.37
8'	13	0.26
9'	13	0.26

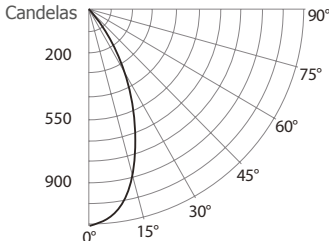
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS
0	1,894
15	1,060
30	203
45	4
60	0
75	0
90	0

3,000K, 90+ CRI, Flood, Performance 2 — WITH FROSTED LENS

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	30.3	5.4'
08'	17.1	7.2'
10'	10.9	9.0'
12'	7.6	10.8'
14'	5.6	12.6'
16'	4.3	14.4'

Beam: 48.4°
Beam Edge defined as 50% of Maximum Nadir Candle-power.

LUMINAIRE

Performance 2 LED	3,000K	Flood
CBCP / Lumens	1,093	/ 689.2
Watts	120V	277V
	15W	15.5W
Operating AMPS	0.12A	0.055A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	45.9	
Spacing Criteria	0.82	

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	567	82.3%
0-40	664.4	96.4%
0-60	688.2	99.9%
60-90	1	0.1%
0-90	689.2	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	29	0.58
6'	26	0.51
7'	19	0.37
8'	13	0.26
9'	13	0.26

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

CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS
0	1,093
15	864
30	301
45	25
60	2
75	0
90	0

UR4C

4" Series

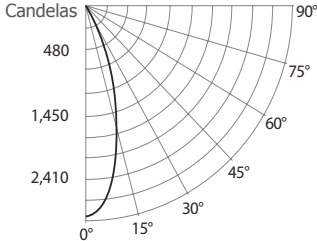
Round Shower Trim

PHOTOMETRIC DATA



3,000K, 90+ CRI, Narrow Flood, Performance 3 — WITH FROSTED LENS

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	78.9	3.5'
08'	44.4	4.7'
10'	28.4	5.9'
12'	19.7	7.1'
14'	14.5	8.3'
16'	11.1	9.5'

Beam: 32.9°
Beam Edge defined as 50% of Maximum Nadir Candle-power.

LUMINAIRE

Performance 3 LED	3,000K Narrow Flood	
CBCP / Lumens	2,842 / 1,031.9	
Watts	120V	277V
	24W	24.5W
Operating AMPS	0.20A	0.088A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	43	
Spacing Criteria	0.56	

COEFFICIENT OF UTILIZATION - %

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

Zonal Cavity Method
Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	951.9	92.2%
0-40	1023.8	99.2%
0-60	1031.9	100%
60-90	0.0	0%
0-90	1031.9	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	32	0.66
6'	28	0.58
7'	29	0.60
8'	20	0.42
9'	20	0.42

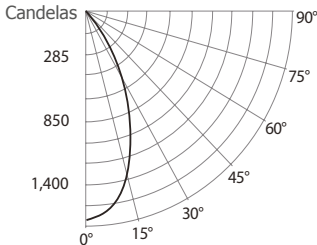
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS
0	2,842
15	1,590
30	305
45	7
60	0
75	0
90	0

3,000K, 90+ CRI, Flood, Performance 3 — WITH FROSTED LENS

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	45.5	5.4'
08'	25.6	7.2'
10'	16.4	9.0'
12'	11.4	10.8'
14'	8.4	12.6'
16'	6.4	14.4'

Beam: 48.4°
Beam Edge defined as 50% of Maximum Nadir Candle-power.

LUMINAIRE

Performance 3 LED	3,000K Flood	
CBCP/ Lumens	1,639 / 1,033.8	
Watts	120V	277V
	24W	24.5W
Operating AMPS	0.20A	0.088A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	43	
Spacing Criteria	0.82	

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80			50			30			
Wall Reflect %	50	30	50	30	50	30	50	30	50	30
RCR 0	119	119	111	111	106	106	106	106	106	106
2	105	101	100	97	97	94	97	94	97	94
4	93	88	89	85	87	84	87	84	87	84
6	83	77	81	76	79	75	79	75	79	75
8	75	69	73	68	72	68	72	68	72	68
10	68	62	66	62	66	61	66	61	66	61

Zonal Cavity Method
Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	850.5	82.3%
0-40	996.6	96.4%
0-60	1,032.3	99.9%
60-90	1.4	0.1%
0-90	1,033.8	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	32	0.66
6'	28	0.58
7'	28	0.60
8'	20	0.42
9'	20	0.42

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

CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS
0	1,639
15	1,296
30	452
45	37
60	3
75	0
90	0