

SPECIFICATION SHEET

UR3J**3-1/2" Series**

Project _____

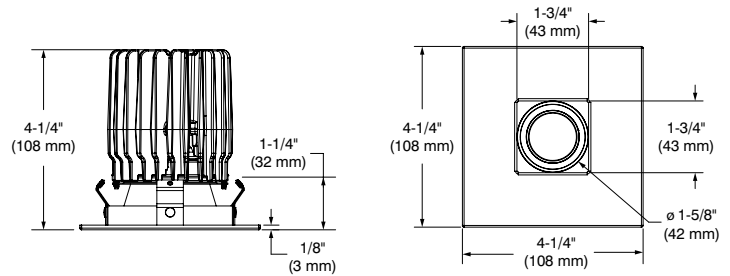
Notes _____

Fixture Type _____

Date _____

Square Downlight Regressed Trim with Square Pinhole Opening

UR3J-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) - 675 lumens @ 3,000K, 67 lm/W

Performance 2 (15W) - 879 lumens @ 3,000K, 59 lm/W

Performance 3 (24W) - 1,319 lumens @ 3,000K, 55 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 400 lumens

Performance 2 (15W) - up to 525 lumens

Performance 3 (24W) - up to 785 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 3-3/4" (95 mm)

CERTIFICATION

cULus **E343977** for damp locations

WARRANTY

1 year limited warranty on components against manufacturing defects

5-year limited warranty on LED arrays and drivers

CONTRASTE2020-10
Revision 6

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UR3J

3-1/2" Series

Square Downlight Regressed Trim with Square Pinhole Opening



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 REUR3-120D1 REUR3-120E1 REUR3-277D1 REUR3-UV1</p>	<p>IC Air Tight NWUR3-120D1 NWUR3-120E1 NWUR3-277D1 NWUR3-UV1</p> <p>Non-IC Air Tight Emergency Driver NWUR3-120D1-EM NWUR3-120E1-EM NWUR3-277D1-EM NWUR3-UV1-EM</p>	<p>IC Air Tight ISUR3-120D1 ISUR3-120E1 ISUR3-277D1 ISUR3-UV1</p> <p>IC Air Tight Chicago Plenum and Polyurethane ISUR3-120D1P ISUR3-120E1P ISUR3-277D1P ISUR3-UV1P</p>
<p>Performance 2 15W MAX</p>	<p>Non-IC Air Tight REUR3-120D2 REUR3-120E2 REUR3-120EB2 REUR3-2772 REUR3-277D2 REUR3-UV2</p>	<p>Non-IC Air Tight NWUR3-120D2 NWUR3-120E2 NWUR3-120EB2 NWUR3-2772 NWUR3-277D2 NWUR3-UV2</p> <p>Non-IC Air Tight Emergency Driver NWUR3-120D2-EM NWUR3-120E2-EM NWUR3-120EB2-EM NWUR3-2772-EM NWUR3-277D2-EM NWUR3-UV2-EM</p>	<p>IC Air Tight ISUR3-120D2 ISUR3-120E2 ISUR3-120EB2 ISUR3-2772 ISUR3-277D2 ISUR3-UV2</p> <p>IC Air Tight Chicago Plenum ISUR3-120D2P ISUR3-120E2P ISUR3-120EB2P ISUR3-2772P ISUR3-277D2P ISUR3-UV2P</p>
<p>Performance 3 24W MAX</p>	N/A	<p>Non-IC Non-Air Tight NWUR3-UV3</p> <p>Non-IC Non-Air Tight Emergency Driver NWUR3-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

SPECIFICATION SHEET

UR3J

3-1/2" Series

Square Downlight Regressed Trim with Square Pinhole Opening

SPECIFICATIONS (CONT'D)

TRIM	Powder coat painted or plated die-formed steel. 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	PAINTED 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 (without lens) Clear (C) Frosted (F) Honeycomb (H): the honeycomb louver reduces glare Linear (L): the linear lens directs the lamp beam to create a strip of light Prismatic (P): the prismatic lens diffuses and spreads the light in an even overall pattern Solite (S): the solite lens softens the light in an even overall pattern Optical reflectors available: Spot and Narrow Flood <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2" style="text-align: center;">Standard</th> </tr> </thead> <tbody> <tr> <td>Spot (S)</td> <td style="text-align: center;">16°</td> </tr> <tr> <td>Narrow Flood (M)</td> <td style="text-align: center;">32°</td> </tr> </tbody> </table> * Average beams shown. Consult .ies files on our Website for more details.	Standard		Spot (S)	16°	Narrow Flood (M)	32°
Standard							
Spot (S)	16°						
Narrow Flood (M)	32°						
ACCESSORIES	Goof Rings (see ordering code)						

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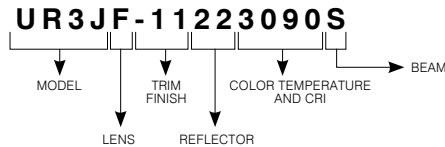
SPECIFICATION SHEET

UR3J

3-1/2" Series

Square Downlight Regressed Trim with Square Pinhole Opening

CODIFICATION EXAMPLE



Options in red may generate a longer production lead time.

ORDERING CODES

MODEL	LENSES	TRIM FINISHES	REFLECTOR FINISHES	COLOR TEMPERATURE AND CRI	BEAMS
UR3J					
UR3J	Whitout lens (std)	-01 White	PAINTED	2780 2,700K (80+ CRI)	S Spot (16°) M Narrow Flood (32°) <i>Not available with Warm Dimming</i>
C	Clear	-04BR Brushed Chrome	AN Natural Anodized Aluminum	3080 3,000K (80+ CRI)	
F	Frosted	-11 Matte White	11 Matte White	2790 2,700K (90+ CRI)	
H	Honeycomb	-12BR Brushed Nickel	22 Matte Black	3090 3,000K (90+ CRI)	
L	Linear	-22 Matte Black		3590 3,500K (90+ CRI)	
P	Prismatic	-25 Polar Grey		4090 4,000K (90+ CRI)	
S	Solite	-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: RS3-01 (white)
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: \varnothing 3-11/16" (94 mm)

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UR3J**3-1/2" Series****Square Downlight Regressed Trim with Square Pinhole Opening**

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)

	Spot (16°)		Narrow Flood (32°)	
	lm	lm/W	lm	lm/W
2,700K with 80+ CRI	534	53	658	66
3,000K with 80+ CRI	547	55	675	67

2,700K with 90+ CRI	444	44	547	55
3,000K with 90+ CRI	458	46	565	57
3,500K with 90+ CRI	484	48	597	60
4,000K with 90+ CRI	497	49	613	61
Warm Dimming with 90+ CRI	Not available		400	40

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

Lens Factors			
STD	1	F	0.68
C	0.97	H	0.54

Reflector Factors			
11	1	AN	0.99
22	0.97		

WITH PERFORMANCE 2 HOUSING (15W)

	Spot (16°)		Narrow Flood (32°)	
	lm	lm/W	lm	lm/W
2,700K with 80+ CRI	696	46	858	57
3,000K with 80+ CRI	713	48	879	59

2,700K with 90+ CRI	578	39	713	48
3,000K with 90+ CRI	597	40	737	49
3,500K with 90+ CRI	631	42	778	52
4,000K with 90+ CRI	648	43	798	53
Warm Dimming with 90+ CRI	Not available		525	35

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

Lens Factors			
STD	1	F	0.68
C	0.97	H	0.54

Reflector Factors			
11	1	AN	0.99
22	0.97		

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SPECIFICATION SHEET

UR3J

3-1/2" Series

Square Downlight Regressed Trim with Square Pinhole Opening

PHOTOMETRIC DATA



WITH PERFORMANCE 3 HOUSING (24W)

	Spot (16°)		Narrow Flood (32°)	
	lm	lm/W	lm	lm/W
2,700K with 80+ CRI	1,043	43	1,286	54
3,000K with 80+ CRI	1,069	45	1,319	55

2,700K with 90+ CRI	867	36	1,069	45
3,000K with 90+ CRI	896	37	1,105	46
3,500K with 90+ CRI	946	39	1,166	49
4,000K with 90+ CRI	972	41	1,197	50
Warm Dimming with 90+ CRI	Not available		785	33

Lens Factors				Reflector Factors			
STD	1	F	0.68	11	1	AN	0.99
C	0.97	H	0.54	22	0.97		

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UR3J

3-1/2" Series

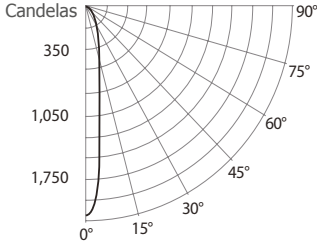
Square Downlight Regressed Trim with Square Pinhole Opening

PHOTOMETRIC DATA



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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	56.7	1.7'
08'	31.9	2.3'
10'	20.4	2.8'
12'	14.2	3.4'
14'	10.4	4.0'
16'	7.9	4.5'

Beam: 16.1°
Beam Edge defined as 50% of Maximum Nadir Candle-power.

LUMINAIRE

Performance 1 LED	3,000K Spot	
CBCP / Lumens	2,042	460.1
120V	277V	
Watts	10W	10.5W
Operating AMPS	0.08A	0.038A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	46	
Spacing Criteria	0.28	

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	94	94	
4	92	87	89	85	87	84	84	84	
6	83	78	81	77	80	76	76	76	
8	76	71	74	70	73	69	69	69	
10	70	65	69	64	68	64	64	64	

Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	351.8	76.5%
0-40	424.1	92.2%
0-60	445.3	96.8%
60-90	14.8	3.2%
0-90	460.1	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	22	0.44
6'	17	0.34
7'	13	0.25
8'	9	0.17
9'	9	0.17

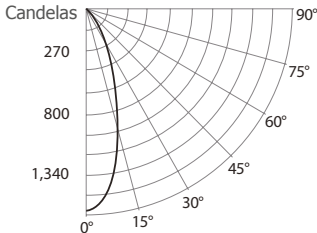
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS	DEGREES/VERTICAL	CANDELAS
0	2,042	45	17
5	1,553	55	9
10	745	65	6
15	454	75	5
20	325	85	3
25	221	90	0
30	157		

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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	43.3	3.5'
08'	24.4	4.7'
10'	15.6	5.9'
12'	10.8	7.1'
14'	7.9	8.3'
16'	6.1	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	1,558	565.6
120V	277V	
Watts	10W	10.5W
Operating AMPS	0.08A	0.038A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	56.6	
Spacing Criteria	0.56	

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

Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	521.9	92.3%
0-40	561.2	99.2%
0-60	565.6	100%
60-90	0	0%
0-90	565.6	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	28	0.44
6'	21	0.34
7'	16	0.25
8'	11	0.17
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	1,558
15	872
30	166
45	3
60	0
75	0
90	0

UR3J

3-1/2" Series

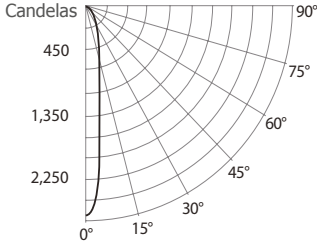
Square Downlight Regressed Trim with Square Pinhole Opening

PHOTOMETRIC DATA



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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	73.8	1.7'
08'	41.5	2.3'
10'	26.6	2.8'
12'	18.5	3.4'
14'	13.6	4.0'
16'	10.4	4.5'

Beam: 16.1°
Beam Edge defined as 50% of Maximum Nadir Candle-power.

LUMINAIRE

Performance 2 LED	3,000K Spot	
CBCP / Lumens	2,658	/ 596.5
Watts	120V	277V
	15W	15.5W
Operating AMPS	0.12A	0.055A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	39.8	
Spacing Criteria	0.28	

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	
	2	104	100	99	96	96	94	94	
	4	92	87	89	85	87	84	84	
	6	83	78	81	77	80	76	76	
	8	76	71	75	70	74	70	70	
	10	70	65	69	65	68	64	64	

Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	457.8	76.8%
0-40	552.2	92.6%
0-60	578.6	97%
60-90	17.9	3%
0-90	596.5	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	29	0.66
6'	22	0.51
7'	16	0.37
8'	11	0.26
9'	11	0.26

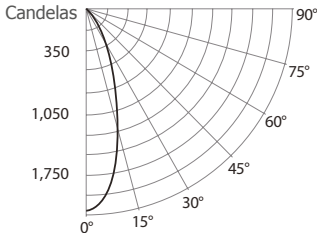
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS	DEGREES/VERTICAL	CANDELAS
0	2,658	45	22
5	2,021	55	11
10	970	65	8
15	590	75	6
20	422	85	4
25	288	90	0
30	203		

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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	56.4	3.5'
08'	31.7	4.7'
10'	20.3	5.9'
12'	14.1	7.1'
14'	10.4	8.3'
16'	7.9	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	2,029	/ 736.3
Watts	120V	277V
	15W	15.5W
Operating AMPS	0.12A	0.055A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	49.1	
Spacing Criteria	0.56	

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

Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	679.4	92.3%
0-40	730.5	99.2%
0-60	736.3	100%
60-90	0	0%
0-90	736.3	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	32	0.58
6'	28	0.51
7'	21	0.37
8'	14	0.26
9'	14	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	2,029
15	1,135
30	217
45	4
60	0
75	0
90	0

UR3J

3-1/2" Series

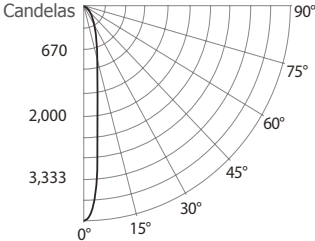
Square Downlight Regressed Trim with Square Pinhole Opening

PHOTOMETRIC DATA



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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	110.8	1.7'
08'	62.3	2.3'
10'	39.9	2.8'
12'	27.7	3.4'
14'	20.3	4.0'
16'	15.6	4.5'

Beam: 16.1°
Beam Edge defined as 50% of Maximum Nadir Candle-power.

LUMINAIRE

Performance 3 LED	3,000K Spot	
CBCP / Lumens	3,987 / 894.7	
Watts	120V	277V
	24W	24.5W
Operating AMPS	0.20A	0.088A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	37.3	
Spacing Criteria	0.28	

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
	2	104	100	99	96	96	94	94	94
	4	92	87	89	85	87	84	84	84
	6	83	78	81	77	80	76	76	76
	8	76	71	75	70	74	70	70	70
	10	70	65	69	65	68	64	64	64

Zonal Cavity Method
Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	686.7	76.8%
0-40	828.3	92.6%
0-60	867.9	97%
60-90	26.8	3%
0-90	894.7	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	33	0.80
6'	28	0.70
7'	24	0.60
8'	17	0.42
9'	17	0.42

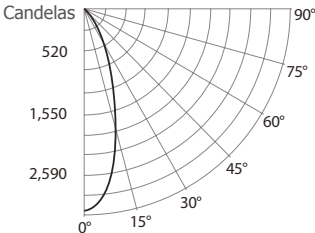
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS	DEGREES/VERTICAL	CANDELAS
0	3,987	45	32
5	3,031	55	16
10	1,455	65	11
15	885	75	10
20	633	85	6
25	433	90	0
30	305		

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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	84.6	3.5'
08'	47.6	4.7'
10'	30.4	5.9'
12'	21.1	7.1'
14'	15.5	8.3'
16'	11.9	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	3,044 / 1,104.4	
Watts	120V	277V
	24W	24.5W
Operating AMPS	0.20A	0.088A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	46	
Spacing Criteria	0.56	

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

Zonal Cavity Method
Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1,019.2	92.3%
0-40	1,095.8	99.2%
0-60	1,104.4	100%
60-90	0	0%
0-90	1,104.4	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	27	0.53
6'	30	0.58
7'	31	0.60
8'	21	0.42
9'	21	0.42

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

CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS	DEGREES/VERTICAL	CANDELAS
0	3,044	45	6
15	1,703	60	0
30	326	75	0
45	6	90	0
60	0		
75	0		
90	0		