SPECIFICATION SHEET

Project

Notes

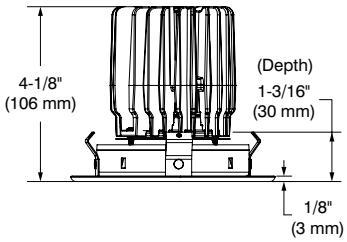
Fixture Type

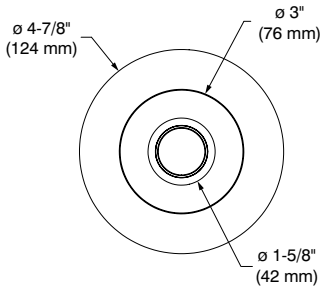
Date

UR4E

4" Series
Round Downlight Regressed Trim

UR4E-1111 (illustrated)





SPECIFICATIONS

LED MODULE

SOLID COLORS

Lumileds Luxeon CoB
2,700K - CRI: 80+
3,000K - CRI: 80+

2,700K - CRI: 90+
3,000K - CRI: 90+
3,500K - CRI: 90+
4,000K - CRI: 90+

JA8 LISTED

Lumens Maintenance:
L_{70} @ 50,000 hours

Color 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 Binning: 3 SDCM

DELIVERED LUMENS

Performance 1 (10W): JA8 LISTED

850 lumens @ 3,000K, 85 lms/W

Performance 2 (15W): JA8 LISTED

1,107 lumens @ 3,000K, 73.8 lms/W

Warm Dimming (WD)
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.**

LENSES

Without lens (std) JA8 LISTED
Clear **(C)**, Frosted **(F)**
Honeycomb **(H)**, Linear **(L)**
Prismatic **(P)**, Solite **(S)**

PAINTED REFLECTORS

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

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.

CEILING CUTOUT

ø 4-1/4" (108 mm)

CONTRASTE

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2018-01
Revision 1

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UR4E

4" Series
Round Downlight 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 REUR4-UV1	**IC and Air Tight** NWUR4-120D1 NWUR4-120E1 NWUR4-277D1 NWUR4-UV1 **Emergency Driver Non-IC and Air Tight** NWUR4-120D1-EM NWUR4-120E1-EM NWUR4-277D1-EM NWUR4-UV1-EM	**Air Tight** ISUR4-120D1 ISUR4-120E1 ISUR4-277D1 ISUR4-UV1 **Chicago Plenum and Polyurethane Air Tight** ISUR4-120D1P ISUR4-120E1P ISUR4-277D1P ISUR4-UV1P
Performance 2 15W MAX	**Non-IC and Air Tight** REUR4-120D2 REUR4-120E2 REUR4-120EB2 REUR4-2772 REUR4-277D2 REUR4-UV2	**Non-IC and Air Tight** NWUR4-120D2 NWUR4-120E2 NWUR4-120EB2 NWUR4-2772 NWUR4-277D2 NWUR4-UV2 **Emergency Driver Non-IC and Air Tight** NWUR4-120D2-EM NWUR4-120E2-EM NWUR4-120EB2-EM NWUR4-2772-EM NWUR4-277D2-EM NWUR4-UV2-EM	**Air Tight** ISUR4-120D2 ISUR4-120E2 ISUR4-120EB2 ISUR4-2772 ISUR4-277D2 ISUR4-UV2 **Chicago Plenum Air Tight** ISUR4-120D2P ISUR4-120E2P ISUR4-120EB2P ISUR4-2772P ISUR4-277D2P ISUR4-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

COMPATIBLE HOUSINGS

	Remodel Housings	New Construction Housings	IC Housings
Performance 1 10W	**IC and Air Tight** REUR4-120D1	**IC and Air Tight** NWUR4-120D1	**Air Tight** ISUR4-120D1
Performance 2 15W	N/A	N/A	**Air Tight** ISUR4-120D2

CERTIFICATION

cULus **E343977** for damp locations
Certified under California Energy Commission according to reference Appendix JA8

WARRANTY

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

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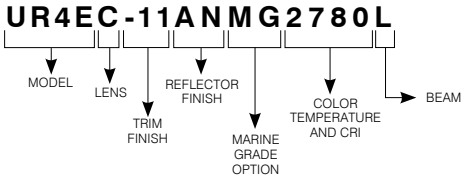
UR4E

4" Series
Round Downlight Regressed Trim

CODIFICATION EXAMPLE



JA8 certified trim available without lens (std) and with 90+ CRI only. Not available with Warm Dimming

ORDERING CODES

MODEL	LENSES	TRIM FINISHES	REFLECTOR FINISHES	MARINE GRADE	COLOR TEMPERATURES AND CRI	BEAMS
UR4E						
UR4E	Without lens (std) JA8	**-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	**3080** 3,000K (80+ CRI)	**M** Narrow Flood (32°)
	F Frosted	**-04BR** Brushed Chrome	**11** Matte White	on finishes: -01,	**2790** 2,700K (90+ CRI)	**L** Flood (48°)
	H Honeycomb	**-11** Matte White	**22** Matte Black	-11, -22 and -25	**3090** 3,000K (90+ CRI)	JA8
	L Linear	**-12BR** Brushed Nickel			**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	(Not available with **-03SA** finish)		Compatible with 15W drivers only (EB2, D2 and UV2)	
		(**-25** finish perfecly matches with **AN** reflector finish)				

GOOF RINGS

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

Code: **RR4-01** (White)
RR4-03SA (Satin Gold)
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)

MARINE GRADE

2-year warranty on finish

This option increases the painted finishes resistance by reducing and delaying apparition and propagation of oxidation (ex: rust and others).

MARINE GRADE treatment is recommended for damp to wet locations.

Unless otherwise indicated, trims are for interior use. Also suitable for cold and exterior locations, as in soffits, where fixtures are not subject to direct rain or snow exposure.

WARNING – This option is not suitable for salt environments and/or highly corrosive areas such as soffits in coastal regions and natatoriums. Such usage would void warranty on the product.

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UR4E

4" Series
Round Downlight Regressed Trim

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˚)		Flood (48˚)	
2,700K with 80+ CRI	673 lms	67.3 lms/W	830 lms	83 lms/W	830 lms	83 lms/W
3,000K with 80+ CRI	689 lms	68.9 lms/W	850 lms	85 lms/W	850 lms	85 lms/W
2,700K with 90+ CRI	559 lms	55.9 lms/W	689 lms	68.9 lms/W	689 lms	68.9 lms/W
3,000K with 90+ CRI	578 lms	57.8 lms/W	712 lms	71.2 lms/W	712 lms	71.2 lms/W
3,500K with 90+ CRI	610 lms	61 lms/W	752 lms	75.2 lms/W	752 lms	75.2 lms/W
4,000K with 90+ CRI	626 lms	62.6 lms/W	772 lms	77.2 lms/W	772 lms	77.2 lms/W
Warm Dimming with 90+ CRI	Not available with performance 1 housings					

JA8 LISTED

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

With performance 2 housing

	Spot (16˚)		Narrow Flood (32˚)		Flood (48˚)	
2,700K with 80+ CRI	876 lms	58.4 lms/W	1,081 lms	72 lms/W	1,081 lms	72 lms/W
3,000K with 80+ CRI	898 lms	59.8 lms/W	1,107 lms	73.8 lms/W	1,107 lms	73.8 lms/W
2,700K with 90+ CRI	728 lms	48.5 lms/W	898 lms	59.8 lms/W	898 lms	59.8 lms/W
3,000K with 90+ CRI	752 lms	50.1 lms/W	928 lms	61.8 lms/W	928 lms	61.8 lms/W
3,500K with 90+ CRI	794 lms	52.9 lms/W	980 lms	65.3 lms/W	980 lms	65.3 lms/W
4,000K with 90+ CRI	816 lms	54.4 lms/W	1,006 lms	67 lms/W	1,006 lms	67 lms/W
Warm Dimming with 90+ CRI	440 lms	29.3 lms/W	542 lms	36.1 lms/W	542 lms	36.1 lms/W

JA8 LISTED

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

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2018-01
Revision 1

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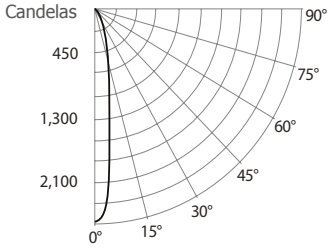
UR4E

4" Series
Round Downlight Regressed Trim

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

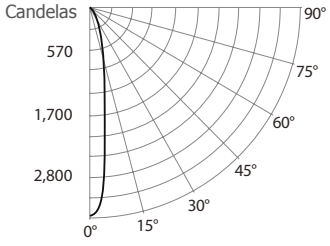
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

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

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2018-01
Revision 1

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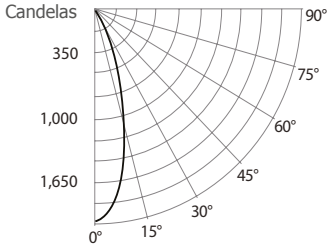
UR4E

4" Series
Round Downlight Regressed Trim

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** 10W	**277V** 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

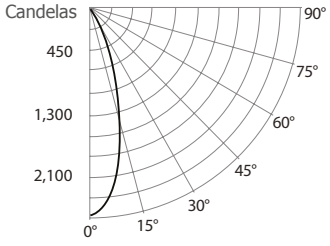
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

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** 15W	**277V** 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

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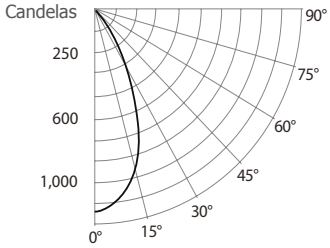
UR4E

4" Series
Round Downlight Regressed Trim

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

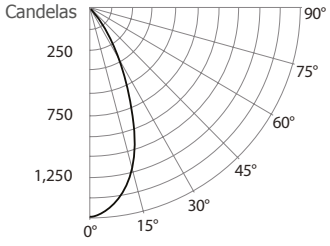
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

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

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