

Ardito LED - A4RAF

4" Series

Ultra-Thin Profile Round Adjustable Trim

Project _____

Notes _____

Fixture Type _____

Date _____



WITH FLANGE

A4RAF-03 - XXX (illustrated)



FLANGELESS TRIM

A4RAF-TR03 - XXX (illustrated)

Aluminum round, adjustable, 4" high efficiency dimmable LED downlight allowing up to 30° tilt and 359° internal rotation. Adjustable and lockable from below the ceiling. May be installed with a low profile ultra-thin flange or flangeless trim in configuration for insulated, non-insulated and remodel (non-IC) ceilings.



SPECIFICATIONS

TRIM DETAILS Requires a 5-1/2" (140 mm) clearance beyond the ceiling level for standard using and 6" (152 mm) for Lumenetix option using (NON-IC configurations).

Perfect fit into ceiling

Each part of the housing should be at LEAST 3" (76 mm) from insulation (non-IC configurations)

Can fit in ceilings up to 1-1/2" (38 mm) thick

Junction box is accessible from below the ceiling for ease of maintenance

AJUSTABILITY Swivel: 359°
Tilt: 30°

Locking device: choose aiming angle then tighten the screw to lock both axis into position from below the ceiling.

HEAT SINK High quality injection molded aluminum heat sink ensuring maximum heat dissipation for optimal performance.

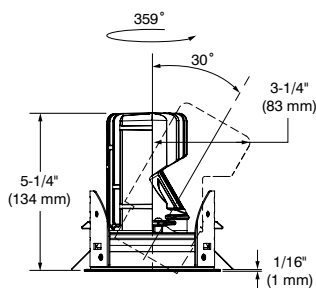
CEILING CUTOUT **ø 4-1/4" (108 mm)**

CERTIFICATION

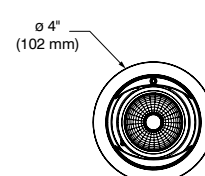
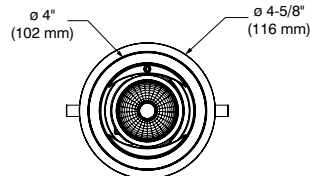
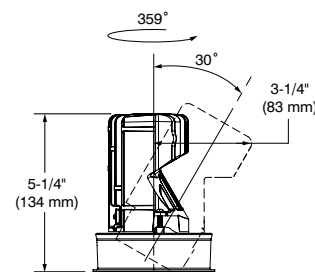
- cULus **E343977** for damp locations
- Certified under California Energy Commission according to reference joint Appendix 8 (JA8-2016)
- Air Tight when used with ICAT Housing

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

WITH FLANGE



FLANGELESS TRIM



CONTRASTE

2018-03
Revision 1

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Ardito LED - A4RAF

4" Series

Ultra-Thin Profile Round Adjustable Trim



SPECIFICATIONS (CONT'D)

COMPATIBLE HOUSINGS

	Remodel Housing	New Construction Housing	Insulated Housing	Insulated Air Tight Housing (Title 24)
Performance 1 (14W)	REA4V1	NWA4RV1	ISA4RV1	ICAT6R4-ARV1
Performance 2 (23W)	REA4V2	NWA4RV2	ISA4RV2	ICAT6R4-ARV2
Lumenetix (12.5W)	REA4VL	NWA4RVL	ISA4RVL	

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

LIGHT ENGINE

STANDARD (SOLID WHITE)

Lumileds Luxeon CoB 1205 GEN3 for Narrow Flood and Flood beams. Lumileds Luxeon CoB 1203 GEN3 for Spot beam.

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

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

CRI: 90+ (93 typical)

R9: >50

Delivered Lumens: Performance 1 (14W) - 1,356 lumens @ 3,000K, 96 lm/W

Performance 2 (23W) - 1,923 lumens @ 3,000K, 81 lm/W

Power Supply: 120V / 277V (universal input)

One driver available in 2 performances (14W and 23W) and offering 2 dimming options within the same unit:

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

Consult housing specification sheet for more details.

WARM DIMMING (WD)

Lumenetix Araya DDM1 Dynamic Dimming Module. Delivers dimmable (100% - 1%) white light that warms as it dims, reproducing dimming conditions of a halogen lamp. It allows the user to change the color temperature from 3,050K to 1,800K at minimum intensity all this while ensuring a 90+ CRI over the full dimming range.

L₇₀ @ 50,000 hours of operation. 2-Step MacAdam ellipse (2 SDCM)

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

CRI: 90+ (over the entire dimming range)

Delivered Lumens: Performance L (12.5W) - up to 700 lumens

Power Supply: 120V - 277V (universal input)

One driver available in one performance (12.5W) and offering one dimming option:

0-10V: 120V / 277V

Consult Lumenetix Website (www.lumenetix.com) and refer to the documentation for the DDM119 module for more information.

COLOR TUNING (CT)

Lumenetix Araya CTM1 Color Tuning Module. Delivers tunable and dimmable (100% - 1%) white light from 1,650K to 4,000K as well as millions of colors.

L₇₀ @ 50,000 hours of operation. 2-Step MacAdam ellipse (2 SDCM)

Color Temperatures: 1,650K to 4,000K (adjustable)

CRI: 90+ (for all solid white)

Delivered Lumens: Performance L (12.5W) - up to 700 lumens

Power Supply: 120V - 277V (universal input)

One driver available in one performance (12.5W) and offering different control options:

DMX512-A: 4 channels - DIM (dim level) - CCT (correlated color temperature)
- SAT (saturation level) - HUE (color)

0-10V: One dimmer per channel (ex.: DIM and CCT)

"Araya 5" iOS App. (free): Allows programmation of up to 5 scenes. The App. can be used to override the cabled system.

Consult Lumenetix Website (www.lumenetix.com) and refer to the documentation for the CTM119 module for more information.

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Ardito LED - A4RAF

4" Series

Ultra-Thin Profile Round Adjustable Trim



SPECIFICATIONS (CONT'D)

OPTIC SYSTEM

Interchangeable optional optical reflectors and lenses available to customize your lighting.

Choice of available lenses:

Stackable (up to 2) (also sold separately)

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, Narrow Flood, Flood

	Standard	Lumenetix
Spot (S)	15°	Not available
Narrow Flood (M)	32°	30°
Flood (L)	40°	42°

* Average beams shown. Consult .ies files on our Website for more details.

FLANGE AND LIGHT ENGINE FINISHES

Powder coat painted or plated aluminum.

Different finishes available:

24K Gold Plated (**-03**), Chrome (**-04**), Brushed Chrome (**-04BR**), Matte White (**-11**), Brushed Nickel (**-12BR**), Satin Nickel (**-13**) and Matte Black (**-22**)

FLANGELESS TRIMS (OPTION)

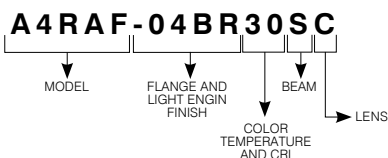
Perforated aluminum plate for flangeless product, allowing you to plaster up to the edge of the opening of the Ardito luminaire.

Mud-in-plate sold separately.

Ordering code: MIPA4R

Consult housing specification sheet for more details.

TRIM WITH FLANGE CODIFICATION EXAMPLE



TRIM WITH FLANGE ORDERING CODES A4RAF

MODEL	FLANGE AND LIGHT ENGIN FINISHES		COLOR TEMPERATURES AND CRI		BEAMS		LENSES		
A4RAF									
A4RAF	-03	24K Gold Plated	27	2,700K (90+ CRI)		S	Spot (15°) (not available with CT and WD)	C	Clear 
	-04	Chrome	30	3,000K (90+ CRI)		M	Narrow Flood (32°)	F	Frosted
	-04BR	Brushed Chrome	35	3,500K (90+ CRI)		L	Flood (40°)	H	Honeycomb
	-11	Matte White	40	4,000K (90+ CRI)				L	Linear
	-12BR	Brushed Nickel	CT	1,650K to 4,000K (90+ CRI)				P	Prismatic
	-13	Satin Nickel	WD	3,050K to 1,800K (90+ CRI)				S	Solite
	-22	Matte Black							

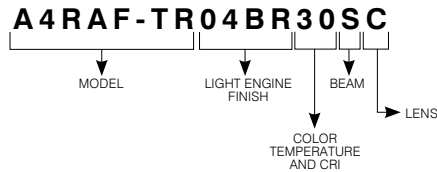
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SPECIFICATION SHEET

Ardito LED - A4RAF

4" Series**Ultra-Thin Profile Round Adjustable Trim**

FLANGELESS TRIM OPTION — CODIFICATION EXAMPLE



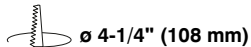
Mud-in-plate required for use
of flangeless trim
(see ordering code below)

FLANGELESS TRIM OPTION — ORDERING CODES **A4RAF-TR**

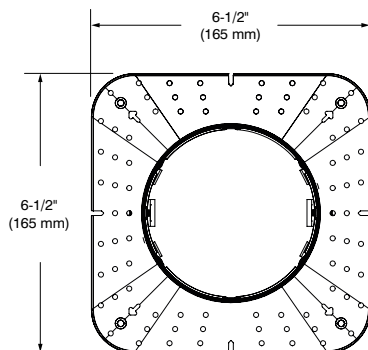
MODEL	LIGHT ENGINE FINISHES		COLOR TEMPERATURES AND CRI		BEAMS		LENSES	
A4RAF-TR								
A4RAF-TR	03	24K Gold Plated	27	2,700K (90+ CRI)	S	Spot (15°) (not available with CT and WD)	C	Clear
	04	Chrome	30	3,000K (90+ CRI)	M	Narrow Flood (32°)	F	Frosted
	04BR	Brushed Chrome	35	3,500K (90+ CRI)	L	Flood (40°)	H	Honeycomb
	11	Matte White	40	4,000K (90+ CRI)			L	Linear
	12BR	Brushed Nickel	CT	1,650K to 4,000K (90+ CRI)			P	Prismatic
	13	Satin Nickel	WD	3,050K to 1,800K (90+ CRI)			S	Solite
	22	Matte Black						

MUD-IN-PLATE

Required with the use of flangeless trims.
Consult housing specification sheet for more details.



Code: **MIPA4R**

**ORDERING CODES****for replacement lenses and reflectors**

For future on-site modifications of the light distribution.

Lenses (to modify light diffusion)**Stackable (up to 2)**

Clear (C): **104036**

Frosted (F): **317240**

Linear (L): **104037**

Solite (S): **104038**

Prismatic (P): **104039**

Honeycomb (H): **104040**

Reflectors (to modify the beam angle)

For a Spot: **103942**

For a Narrow Flood: **103912**

For a Flood: **103943**

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Ardito LED - A4RAF

4" Series

Ultra-Thin Profile Round Adjustable 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 (14W)

	Spot (15°)		Narrow Flood (32°)		Flood (40°)	
2,700K with 90+ CRI	1,309 lm	93.5 lm/W	1,249 lm	89.2 lm/W	1,214 lm	86.7 lm/W
3,000K with 90+ CRI	1,356 lm	96.9 lm/W	1,294 lm	92.4 lm/W	1,258 lm	89.9 lm/W
3,500K with 90+ CRI	1,422 lm	101.6 lm/W	1,356 lm	96.9 lm/W	1,319 lm	94.2 lm/W
4,000K with 90+ CRI	1,458 lm	104.1 lm/W	1,391 lm	99.4 lm/W	1,353 lm	96.6 lm/W



WITH PERFORMANCE 2 HOUSING (23W)

	Spot (15°)		Narrow Flood (32°)		Flood (40°)	
2,700K with 90+ CRI	1,856 lm	80.7 lm/W	1,804 lm	78.4 lm/W	1,812 lm	78.8 lm/W
3,000K with 90+ CRI	1,923 lm	83.6 lm/W	1,869 lm	81.3 lm/W	1,878 lm	81.7 lm/W
3,500K with 90+ CRI	2,016 lm	87.7 lm/W	1,960 lm	85.2 lm/W	1,969 lm	85.6 lm/W
4,000K with 90+ CRI	2,068 lm	89.9 lm/W	2,010 lm	87.4 lm/W	2,019 lm	87.8 lm/W



WITH PERFORMANCE L HOUSING (12.5W)

	Faisceau moyen (30°)		Faisceau large (42°)	
Warm Dimming (WD) with 90+ CRI	668 lm	53.4 lm/W	649 lm	51.9 lm/W
Color Tuning (CT) with 90+ CRI	700 lm	56 lm/W	680 lm	54.4 lm/W

Lens Factors	
C	1
F	0.71
H	0.57

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SPECIFICATION SHEET

Ardito LED - A3RAF

3-1/2" Series

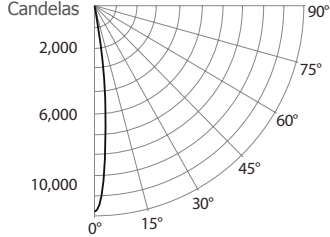
Ultra-Thin Profile Round Adjustable Trim

PHOTOMETRIC DATA



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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	326.5	1.6'
08'	183.6	2.1'
10'	117.5	2.6'
12'	81.6	3.2'
14'	59.9	3.7'
16'	45.9	4.2'

Beam: 15°
Beam Edge defined as 50%
of Maximum Nadir Candle-power.

LUMINAIRE

Performance 1 LED	3,000K	Spot
CBCP / Lumens	11,753	1,356.2
Watts	120V	277V
	14W	14.5W
Operating AMPS	0.12A	0.052A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	96.9	
Spacing Criteria	0.26	

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80		50		30	
Wall Reflect %	50	30	50	30	50	30
RCR	0	119	119	111	111	106
	2	109	106	104	102	101
	4	101	97	98	95	96
	6	95	91	93	90	92
	8	90	86	89	86	88
	10	86	82	85	82	84

Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1,327.6	97.9%
0-40	1,356.1	100%
0-60	1,356.2	100%
60-90	0.0	0%
0-90	1,356.2	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/ SQ. FT.
5'	69	0.59
6'	39	0.33
7'	27	0.23
8'	27	0.23
9'	17	0.15

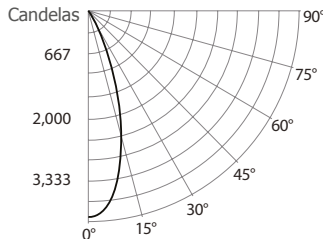
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

CANDELAS DISTRIBUTION

DEGREES/ VERTICAL	CANDELAS	DEGREES/ VERTICAL	CANDELAS
0	11,753	40	0
5	8,353	50	0
10	3,936	60	0
15	1,524	70	0
20	836	80	0
25	490	90	0
30	204		

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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	109.4	3.4'
08'	61.6	4.6'
10'	39.4	5.7'
12'	27.4	6.9'
14'	20.1	8.0'
16'	15.4	9.2'

Beam: 32°
Beam Edge defined as 50%
of Maximum Nadir Candle-power.

LUMINAIRE

Performance 1 LED	3,000K	Narrow Flood
CBCP / Lumens	3,940	1,294.3
Watts	120V	277V
	14W	14.5W
Operating AMPS	0.12A	0.052A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	92.5	
Spacing Criteria	0.55	

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80		50		30	
Wall Reflect %	50	30	50	30	50	30
RCR	0	119	119	111	111	106
	2	107	104	102	100	99
	4	97	93	94	91	93
	6	90	85	88	84	86
	8	83	79	82	78	81
	10	78	73	77	73	76

Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1,236.5	95.5%
0-40	1,294.2	100%
0-60	1,294.3	100%
60-90	0.0	0%
0-90	1,294.3	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/ SQ. FT.
5'	65	0.59
6'	36	0.33
7'	25	0.23
8'	25	0.23
9'	16	0.15

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	3,940	40	2
5	3,712	50	0
10	3,055	60	0
15	2,111	70	0
20	1,232	80	0
25	644	90	0
30	293		

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SPECIFICATION SHEET

Ardito LED - A3RAF

3-1/2" Series

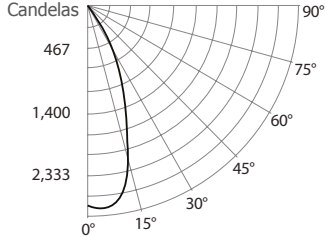
Ultra-Thin Profile Round Adjustable Trim

PHOTOMETRIC DATA



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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	74.8	4.3'
08'	42.1	5.7'
10'	26.9	7.1'
12'	18.7	8.5'
14'	13.7	10.0'
16'	10.5	11.4'

Beam: 40°
Beam Edge defined as 50%
of Maximum Nadir Candle-power.

LUMINAIRE

Performance 1 LED	3,000K Flood	
CBCP / Lumens	2,692	/ 1,257.3
Watts	120V	277V
	14W	14.5W
Operating AMPS	0.12A	0.052A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	89.9	
Spacing Criteria	0.68	

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80		50		30	
Wall Reflect %	50	30	50	30	50	30
RCR	0	119	119	111	111	106
	2	106	103	101	99	98
	4	96	91	93	89	91
	6	87	82	85	81	84
	8	80	75	78	74	78
	10	74	69	73	69	72

Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1,170.6	93.1%
0-40	1,255.4	99.9%
0-60	1,257.3	100%
60-90	0.0	0%
0-90	1,257.3	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/ SQ. FT.
5'	62	0.58
6'	35	0.33
7'	24	0.23
8'	24	0.23
9'	16	0.15

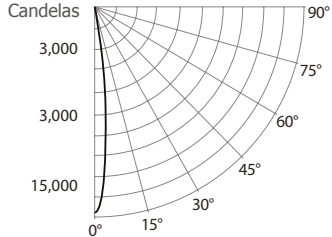
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

CANDELAS DISTRIBUTION

DEGREES/ VERTICAL	CANDELAS	DEGREES/ VERTICAL	CANDELAS
0	2,692	40	11
5	2,715	50	0
10	2,508	60	0
15	1,952	70	0
20	1,329	80	0
25	847	90	0
30	391		

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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	478.9	1.5'
08'	269.4	2.1'
10'	172.4	2.6'
12'	119.7	3.1'
14'	87.9	3.6'
16'	67.3	4.1'

Beam: 15°
Beam Edge defined as 50%
of Maximum Nadir Candle-power.

LUMINAIRE

Performance 2 LED	3,000K Spot	
CBCP / Lumens	17,240	/ 1,923
Watts	120V	277V
	23W	23.5W
Operating AMPS	0.19A	0.085A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	83.6	
Spacing Criteria	0.26	

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80		50		30	
Wall Reflect %	50	30	50	30	50	30
RCR	0	121	121	113	113	108
	2	110	107	105	103	101
	4	103	99	100	97	98
	6	96	93	94	91	93
	8	91	88	90	87	89
	10	87	84	86	83	86

Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1,883.2	97.9%
0-40	1,922.6	100%
0-60	1,923.0	100%
60-90	0.0	0%
0-90	1,923.0	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/ SQ. FT.
5'	97	1.02
6'	55	0.57
7'	38	0.4
8'	38	0.4
9'	24	0.25

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	17,240	40	1
5	12,102	50	0
10	5,541	60	0
15	2,109	70	0
20	1,173	80	0
25	699	90	0
30	278		

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SPECIFICATION SHEET

Ardito LED - A3RAF

3-1/2" Series

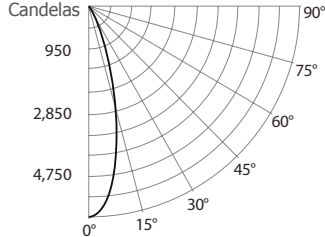
Ultra-Thin Profile Round Adjustable Trim

PHOTOMETRIC DATA



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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	158.3	3.4'
08'	89.04	4.6'
10'	56.9	5.7'
12'	39.6	6.9'
14'	29.1	8.0'
16'	22.3	9.2'

Beam: 32°
Beam Edge defined as 50%
of Maximum Nadir Candle-power.

LUMINAIRE

Performance 2 LED	3,000K	Narrow Flood
CBCP / Lumens	5,699	/ 1,868.7
Watts	120V	277V
	23W	23.5W
Operating AMPS	0.19A	0.085A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	81.2	
Spacing Criteria	0.55	

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80		50		30	
Wall Reflect %	50	30	50	30	50	30
RCR	0	119	119	111	111	106
	2	107	104	102	100	99
	4	97	93	94	91	93
	6	90	85	88	84	86
	8	83	79	82	78	81
	10	78	73	77	73	76

Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1,785.1	95.5%
0-40	1,868.5	100%
0-60	1,868.7	100%
60-90	0.0	0%
0-90	1,868.7	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/ SQ. FT.
5'	93	1.01
6'	52	0.57
7'	36	0.39
8'	36	0.39
9'	23	0.25

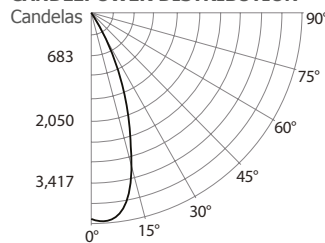
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

CANDELAS DISTRIBUTION

DEGREES/ VERTICAL	CANDELAS	DEGREES/ VERTICAL	CANDELAS
0	5,699	40	2
5	5,377	50	0
10	4,410	60	0
15	3,039	70	0
20	1,777	80	0
25	931	90	0
30	407		

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

CANDLEPOWER DISTRIBUTION



LIGHT CONE

Distance	FC	DIA
06'	111.5	4.2'
08'	62.7	5.7'
10'	40.1	7.1'
12'	27.9	8.5'
14'	20.5	9.9'
16'	15.7	11.3'

Beam: 40°
Beam Edge defined as 50%
of Maximum Nadir Candle-power.

LUMINAIRE

Performance 2 LED	3,000K	Flood
CBCP / Lumens	4,012	/ 1,878.2
Watts	120V	277V
	23W	23.5W
Operating AMPS	0.19A	0.085A
Lumen Maintenance	L70 @ 50,000 Hrs	
CRI	90+	
Lumens/Watt	81.7	
Spacing Criteria	0.98	

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80		50		30	
Wall Reflect %	50	30	50	30	50	30
RCR	0	119	119	111	111	106
	2	106	103	101	99	98
	4	96	91	93	89	91
	6	87	82	85	81	84
	8	80	75	78	74	78
	10	74	69	73	69	72

Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	1,747.1	93%
0-40	1,875.4	99.8%
0-60	1,878.2	100%
60-90	0.0	0%
0-90	1,878.2	100%

MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/ SQ. FT.
5'	93	1.01
6'	52	0.57
7'	36	0.39
8'	36	0.39
9'	23	0.25

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	4,012	40	19
5	4,053	50	0
10	3,761	60	0
15	2,915	70	0
20	1,974	80	0
25	1,268	90	0
30	582		

CONTRASTE

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