

Ardito LED - A4RAR (DL4RAR)

4" Series

Ultra-Thin Profile Round Adjustable Regressed Trim

Project _____

Notes _____

Fixture Type _____

Date _____



WITH FLANGE

A4RAR-1111 - XXX (illustrated)
(DL4RAR-1111 - XXX)

FLANGELESS TRIM

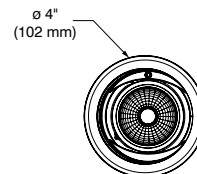
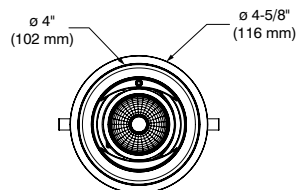
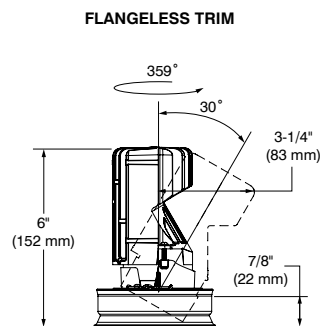
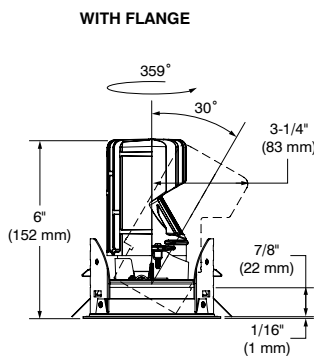
A4RAR-TR11 - XXX (illustrated)
(DL4RAR-TR11 - XXX)

Aluminum round, adjustable, 4" high efficiency regressed 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 6-1/2" (165 mm) clearance beyond the ceiling level for standard using and 7" (178 mm) for Lumenetix option using. 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
ADJUSTABILITY	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



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4" Series

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SPECIFICATION SHEET

Ardito LED - A4RAR

(DL4RAR)

4" Series

Ultra-Thin Profile Round Adjustable Regressed Trim



SPECIFICATIONS (CONT'D)

COMPATIBLE HOUSINGS

	Remodel Housing	New Construction Housing	Insulated Housing IC	Insulated Air Tight Housing (Title 24) IC AIR TIGHT 124	Ceiling thickness suggested for insulated housing as a using standard and Lumenetix option
Performance 1 (14W)	REA4V1	NWA4RV1	*ISA4RV1	*ICAT6R4-ARV1 JA8 LISTED	* Ceiling thickness must be at least 1/4" (6.4 mm) for insulated housing as a using standard. ** Ceiling thickness must be at least 3/4" (19 mm) for insulated housing with Lumenetix option.
Performance 2 (23W)	REA4V2	NWA4RV2	*ISA4RV2	*ICAT6R4-ARV2 JA8 LISTED	
Lumenetix (12.5W)	REA4VL	NWA4RVL	**ISA4RVL		

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

OPTIC SYSTEM

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

Choice of available lenses:

Stackable (up to 2) (sold separately)

Clear (C) JA8 LISTED

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°	33°
Flood (L)	40°	44°

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

FLANGE FINISHES

Powder coat painted or plated die formed steel.

Options in red may generate a longer production lead time

Different finishes available:

24K Gold Plated **(-03)**, Chrome **(-04)**, Brushed Chrome **(-04BR)**, Matte White **(-11)**, Brushed Nickel **(-12BR)**, Satin Nickel **(-13)**, Matte Black **(-22)** and Polar Grey **(-25)**

REFLECTOR FINISHES

Options in red may generate a longer production lead time

Specular
Clear **(CL)**

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

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.



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SPECIFICATION SHEET

Ardito LED - A4RAR

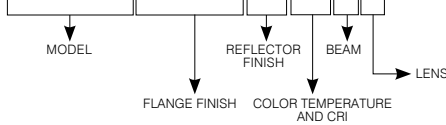
(DL4RAR)

4" Series

Ultra-Thin Profile Round Adjustable Regressed Trim



TRIM WITH FLANGE CODIFICATION EXAMPLE

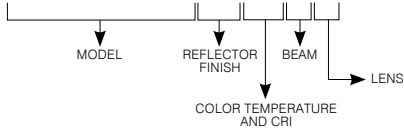
A4RAR-04BR2230SC

Options in red may generate a longer production lead time.

TRIM WITH FLANGE ORDERING CODES **A4RAR**

MODEL	FLANGE FINISHES	REFLECTOR FINISHES	COLOR TEMPERATURES AND CRI	BEAMS	LENSES
A4RAR (DL4RAR)	-04BR Brushed Chrome -11 Matte White -12BR Brushed Nickel -22 Matte Black -25 Polar Grey -03 24K Gold Plated -04 Chrome -13 Satin Nickel	PAINTED 11 Matte White 22 Matte Black AN Natural Anodized Aluminum BK Black SPECULAR CL Clear	27 2,700K (90+ CRI) 30 3,000K (90+ CRI) 35 3,500K (90+ CRI) 40 4,000K (90+ CRI) CT 1,650K to 4,000K (90+ CRI) WD 3,050K to 1,800K (90+ CRI)	S Spot (15°) <i>(not available with CT and WD)</i> M Narrow Flood (32°) <i>CT and WD (33°)</i> L Flood (40°) <i>CT and WD (44°)</i>	C Clear F Frosted H Honeycomb L Linear P Prismatic S Solite

FLANGELESS TRIM OPTION — CODIFICATION EXAMPLE

A4RAR-TR2230SC

Mud-in-plate required for use
of flangeless trim
(see ordering code on next page)

Options in red may generate a longer production lead time.

FLANGELESS TRIM OPTION — ORDERING CODES **A4RAR-TR**

MODEL	REFLECTOR FINISHES	COLOR TEMPERATURES AND CRI	BEAMS	LENSES
A4RAR-TR (DL4RAR-TR)	PAINTED 11 Matte White 22 Matte Black AN Natural Anodized Aluminum BK Black SPECULAR CL Clear	27 2,700K (90+ CRI) 30 3,000K (90+ CRI) 35 3,500K (90+ CRI) 40 4,000K (90+ CRI) CT 1,650K to 4,000K (90+ CRI) WD 3,050K to 1,800K (90+ CRI)	S Spot (15°) <i>(not available with CT and WD)</i> M Narrow Flood (32°) <i>CT and WD (33°)</i> L Flood (40°) <i>CT and WD (44°)</i>	C Clear F Frosted H Honeycomb L Linear P Prismatic S Solite



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SPECIFICATION SHEET

Ardito LED - A4RAR

(DL4RAR)

4" Series

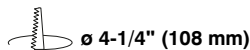
Ultra-Thin Profile Round Adjustable Regressed Trim



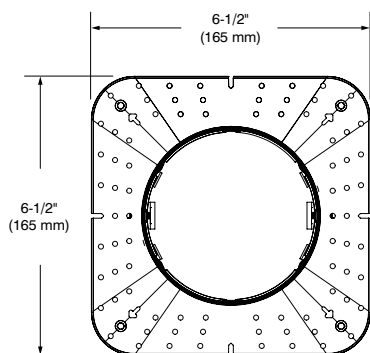
MUD-IN-PLATE

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 - A4RAR

(DL4RAR)

4" Series

Ultra-Thin Profile Round Adjustable 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).
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)

	Narrow Flood (33°)		Flood (44°)	
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 - A4RAR

(DL4RAR)

4" Series

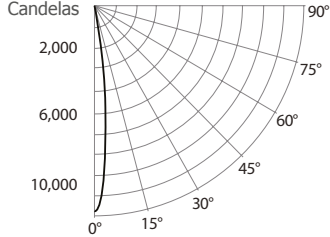
Ultra-Thin Profile Round Adjustable Regressed Trim

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

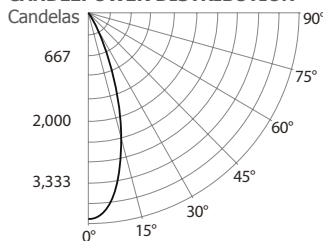
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

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

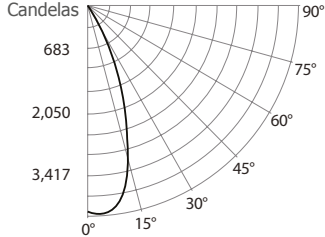
Ardito LED - A4RAR

(DL4RAR)

4" Series

Ultra-Thin Profile Round Adjustable Regressed 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%

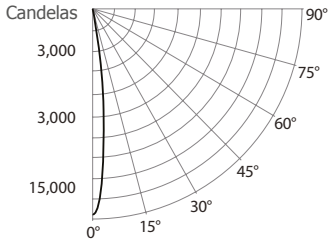
MULTIPLE UNIT DATA - (RCR 2)

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 - A4RAR

(DL4RAR)

4" Series

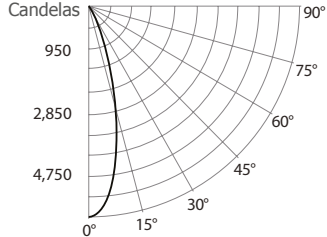
Ultra-Thin Profile Round Adjustable Regressed Trim

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	106	
	2	107	104	102	100		99	97	
	4	97	93	94	91		93	90	
	6	90	85	88	84		86	83	
	8	83	79	82	78		81	78	
	10	78	73	77	73		76	72	

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

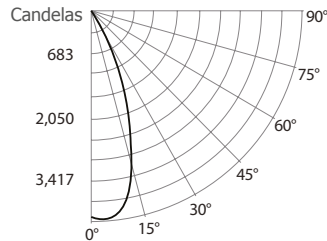
38' x 38' x 10' Room. Workplan located 2-1/2' (30").
Reflectance factor 80%/50%/30%

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	106
	2	106	103	101	99	98	96
	4	96	91	93	89	91	88
	6	87	82	85	81	84	80
	8	80	75	78	74	78	74
	10	74	69	73	69	72	68

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		



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