SPECIFICATION SHEET

Shop Now

Project Name: Type: Quantity:

Alcon 14121 2-Inch Recessed Trimless LED Downlights

INTENDED USE

Our recessed, trimless, two-inch direct LED downlights includes a ring designed to be plastered over for the flush, smooth, trimless look. With a high-Color Rendering Index and varying design and architectural specifications, the fixture is made to last for 50,000 hours. The product, with multifaceted specular reflector, is perfect for retail, hospitality, commercial and certain residential settings. Housed in diecast metal. This lighting fixture is made to be secured to existing sheet rock or paneled ceilings up to three inches in thickness. Dimming features included.

Fixed

Adjustable

Fixed Pinhole

Adjustable Pinhole

Wall Wash

PRODUCT FAMILY (Trimless Round)

14121-F	Fixed
14121-A	Adjustable
14121-FP	Fixed Pinhole
14121-AP	Adjustable Pinhole
14131-PL	Pull Down Light
14131-WW	Wall Wash

FEATURES

Construction: Die-cast aluminum housing engineered for secure installation in existing drywall or panel ceilings up to 1-1/4" thick
Trim Ring: Reflector and die-cast aluminum trim secure to sheet rock ceiling or Housing Frame with drywall screws secured to trim ring
Optics: Chip-on-board LED
Reflector: Multifaceted TIR reflector locks into place on LED Light Engine
Voltage: 120-277V
Dimming Driver: Universal dimming to 5%, @ 120/277V and TRIAC dimming to 7 % @ 120V
CRI: +90, +97 upon request
Life: 50,000 hours (L70)
Warranty: 5 years carefree for parts and components (labor not included). A reduced LED lamp life and a warranty void will result in installations where temperatures exceed 95°F
Listings: ETL/cETL listed to UL 1598 and UL 8750. Suitable for damp and wet locations (specify Airtight Lensed). NYC Approved: Calendar #41937. CCEA (City of Chicago Environmental Air) Certified: Conforms to CCEA-200, including Section 18-27-300.22 and special requirements per Section 14-20-210C-4

SPEC GRADE · DIMMABLE · c ETL US · CA T24 · DAMP · ASSEMBLED IN USA

ORDERING INFORMATION Example: 14121-F-L10-B25-2790-WH-D10-RM-HEX

Model	Trim	Lumens| Watts	Beam Spread	Color Temp	Finish	Dimming Driver	Housing	Options
14121	**F** Fixed **A**[1] Adjustable **FP** Fixed Pinhole **AP**[1] Adjustable Pinhole **WW**[2] Wall Wash	**L10** 1000 lm | 15W **L14** 1400 lm | 22W **L24** 2400 lm | 30W	**B25** 25° Spot **B35** 35° Flood **B45** 45° Wide Flood **B55** 55° Full Flood **Blank** Wall Wash	**2790** 2700K (90 CRI) **2797** 2700K (97 CRI) **3090** 3000K (90 CRI) **3097** 3000K (97 CRI) **3590** 3500K (90 CRI) **4090** 4000K (90 CRI)	**WH** White **BK** Black	**Blank** Triac & ELV (120V) **D10** 0-10V (120V / 277V)	**RM** Remodel - No Housing Required **NC** New Construction Non-IC Rated **IC** New Construction IC Rated **FR** New Construction Fire Rated	**EM** Emergency Backup **HEX**[3] Black Hex Cell Louver **WT** Airtight Lensed (Wet Location) **W** Wood Ceiling Installation

1 Adjustable tilt up to 30°
2 hoose BLANK for Beam Spread
3 Not available for Wall Wash

DIMENSIONS

-Lxx:
H2: 4"

-Lxx:
H2: 5-1/8"

Ceiling Cut-Out: 2-15/16" Max
Ceiling Thickness: 3-1/4" Max**

**1-1/4" Max Ceiling Thickness
for Adjustable Options

Fixed
14121-F

Adjustable
14121-A

Fixed
Pinhole
14121-FP

Adjustable
Pinhole
14121-AP

Wall Wash
14121-WW

HOUSING DIMENSIONS

New Construction IC Rated

New Construction Non-IC Rated

New Construction Fire Rated

D: Ceiling Cut-out 3" Max

PHOTOMETRY

DOWNLIGHT & ADJUSTABLE

14121-DB-L24-B25-30K-WH-UNI (2400lm, 30W, 25°, 3000K)

System Power:	30.3W
Test Date:	03/2025
Beam Angle 50%:	26.2°
Field Angle 10%:	45.8°
Color Temperature:	3000K
CRI:	90
Lumens Delivered:	3410.2
CBCP:	12188.4
Power Factor:	>0.90

MULTIPLIERS

LUMEN OUTPUT	
1000lm (-L09) :	0.38
1400lm (-L14) :	0.58
2400lm (-L24) :	**1.00**
COLOR TEMPERATURE	
2700K :	0.79
3000K :	**1.00**
3500K :	1.02
4000K :	1.03
CRI	
90 CRI :	**1.00**
97 CRI :	0.90

CANDELA TABULATION

FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
10.0'	4.65'	121.88
20.0'	9.31'	30.47
30.0'	13.96'	13.54
50.0'	23.27'	4.88
78.0'	36.30'	2.00

14121-DB-L24-B35-30K-WH-UNI (2400lm, 30W, 35°, 3000K)

System Power:	30.3W
Test Date:	03/2025
Beam Angle 50%:	32.8°
Field Angle 10%:	50.2°
Color Temperature:	3000K
CRI:	90
Lumens Delivered:	2797
CBCP:	10304.0
Power Factor:	>0.90

MULTIPLIERS

LUMEN OUTPUT	
1000lm (-L09) :	0.38
1400lm (-L14) :	0.58
2400lm (-L24) :	**1.00**
COLOR TEMPERATURE	
2700K :	0.79
3000K :	**1.00**
3500K :	1.02
4000K :	1.03
CRI	
90 CRI :	**1.00**
97 CRI :	0.90

CANDELA TABULATION

FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
10.0'	5.89'	102.84
20.0'	11.77'	25.71
30.0'	17.66'	11.43
50.0'	29.43'	4.11
71.0'	41.79'	2.04

14121-DB-L24-B45-30K-WH-UNI (2400lm, 30W, 45°, 3000K)

System Power:	30.3W
Test Date:	03/2025
Beam Angle 50%:	44.3°
Field Angle 10%:	64.7°
Color Temperature:	3000K
CRI:	90
Lumens Delivered:	3205
CBCP:	6112.6
Power Factor:	>0.90

MULTIPLIERS

LUMEN OUTPUT	
1000lm (-L09) :	0.38
1400lm (-L14) :	0.58
2400lm (-L24) :	**1.00**
COLOR TEMPERATURE	
2700K :	0.79
3000K :	**1.00**
3500K :	1.02
4000K :	1.03
CRI	
90 CRI :	**1.00**
97 CRI :	0.90

CANDELA TABULATION

FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
10.0'	8.14'	61.05
20.0'	16.28'	15.26
30.0'	24.42'	6.78
40.0'	32.57'	3.82
55.0'	44.78'	2.02

14121-DB-L24-B55-30K-WH-UNI (2400lm, 30W, 55°, 3000K)

System Power:	30.3W
Test Date:	03/2025
Beam Angle 50%:	54.0°
Field Angle 10%:	74.4°
Color Temperature:	3000K
CRI:	90
Lumens Delivered:	2797
CBCP:	4221.6
Power Factor:	>0.90

MULTIPLIERS

LUMEN OUTPUT	
1000lm (-L09) :	0.38
1400lm (-L14) :	0.58
2400lm (-L24) :	**1.00**
COLOR TEMPERATURE	
2700K :	0.79
3000K :	**1.00**
3500K :	1.02
4000K :	1.03
CRI	
90 CRI :	**1.00**
97 CRI :	0.90

CANDELA TABULATION

FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
10.0'	10.19'	41.50
20.0'	20.38'	10.40
30.0'	30.57'	4.62
40.0'	40.76'	2.60
45.0'	22.93'	2.05

HOUSING DIMENSIONS

PHOTOMETRY - DOWNLIGHT & ADJUSTABLE

14121-DP-L24-B25-30K-WH-UNI (2400lm, 30W, 25°, 3000K)

System Power:	30.3W
Test Date:	03/2025
Beam Angle 50%:	24.5°
Field Angle 10%:	42.8°
Color Temperature:	3000K
CRI:	90
Lumens Delivered:	3660.3
CBCP:	10014.6
Power Factor:	>0.90

MULTIPLIERS

LUMEN OUTPUT	
1000lm (-L09) :	0.38
1400lm (-L14) :	0.58
2400lm (-L24) :	**1.00**
COLOR TEMPERATURE	
2700K :	0.79
3000K :	**1.00**
3500K :	1.02
4000K :	1.03
CRI	
90 CRI :	**1.00**
97 CRI :	0.90

CANDELA TABULATION

FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
10.0'	4.34'	100.07
20.0'	8.68'	25.02
30.0'	13.03'	11.12
50.0'	21.71'	4.00
70.0'	30.40'	2.04

14121-DP-L24-B35-30K-WH-UNI (2400lm, 30W, 35°, 3000K)

System Power:	30.3W
Test Date:	03/2025
Beam Angle 50%:	31.6°
Field Angle 10%:	49.2°
Color Temperature:	3000K
CRI:	90
Lumens Delivered:	3660.3
CBCP:	8159.2
Power Factor:	>0.90

MULTIPLIERS

LUMEN OUTPUT	
1000lm (-L09) :	0.38
1400lm (-L14) :	0.58
2400lm (-L24) :	**1.00**
COLOR TEMPERATURE	
2700K :	0.79
3000K :	**1.00**
3500K :	1.02
4000K :	1.03
CRI	
90 CRI :	**1.00**
97 CRI :	0.90

CANDELA TABULATION

FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
10.0'	5.66'	87.41
20.0'	11.32'	20.35
30.0'	16.98'	9.05
50.0'	28.30'	3.26
63.0'	35.65'	2.05

14121-DP-L24-B45-30K-WH-UNI (2400lm, 30W, 45°, 3000K)

System Power:	30.3W
Test Date:	03/2025
Beam Angle 50%:	43.0°
Field Angle 10%:	63.2°
Color Temperature:	3000K
CRI:	90
Lumens Delivered:	3660.3
CBCP:	4872.6++
Power Factor:	>0.90

MULTIPLIERS

LUMEN OUTPUT	
1000lm (-L09) :	0.38
1400lm (-L14) :	0.58
2400lm (-L24) :	**1.00**
COLOR TEMPERATURE	
2700K :	0.79
3000K :	**1.00**
3500K :	1.02
4000K :	1.03
CRI	
90 CRI :	**1.00**
97 CRI :	0.90

CANDELA TABULATION

FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
10.0'	7.88'	48.70
20.0'	15.76'	12.18
30.0'	23.63'	5.41
40.0'	31.51'	3.04
49.0'	38.60'	2.03

14121-DP-L24-B55-30K-WH-UNI (2400lm, 30W, 55°, 3000K)

System Power:	30.3W
Test Date:	03/2025
Beam Angle 50%:	53.3°
Field Angle 10%:	72.8°
Color Temperature:	3000K
CRI:	90
Lumens Delivered:	3660.3
CBCP:	3302.1
Power Factor:	>0.90

MULTIPLIERS

LUMEN OUTPUT	
1000lm (-L09) :	0.38
1400lm (-L14) :	0.58
2400lm (-L24) :	**1.00**
COLOR TEMPERATURE	
2700K :	0.79
3000K :	**1.00**
3500K :	1.02
4000K :	1.03
CRI	
90 CRI :	**1.00**
97 CRI :	0.90

CANDELA TABULATION

FOOTCANDLE DISTRIBUTION

Height	Beam Diameter	FC
10.0'	10.04'	32.84
20.0'	20.07'	8.21
30.0'	30.11'	3.65
35.0'	35.13'	2.68
40.0'	40.15	2.05

HOUSING DIMENSIONS

WALL WASH

(2400lm, 30W, Wall Wash, 3000K)

System Power:	30.3W
Test Date:	03/2025
Color Temperature:	3000K
CRI:	90
Lumens Delivered:	3847.1
CBCP:	2619.4
Power Factor:	>0.90

MULTIPLIERS

LUMEN OUTPUT	
1000lm (-L09) :	0.38
1400lm (-L14) :	0.58
2400lm (-L24) :	**1.00**
COLOR TEMPERATURE	
2700K :	0.79
3000K :	**1.00**
3500K :	1.02
4000K :	1.03
CRI	
90 CRI :	**1.00**
97 CRI :	0.90

CANDELA TABULATION

PERFORMANCE DATA

LUMINAIRE SPACED 3.5' FROM WALL

Footcandles On Wall

5.0 fc 10.0 fc 15.0 fc

3' 1.5'

3.5 ft. setback

4.4	6.6	6.7	7.4	7.0	7.6	7.1	7.5	6.6	5.9
14.3	19.3	21.2	21.9	22.1	22.2	22.2	22.0	20.9	16.0
14.5	19.9	21.9	23.1	23.2	23.6	23.4	23.5	21.9	16.7
13.2	18.0	20.2	21.4	21.6	22.1	21.9	22.0	19.9	15.4
12.5	16.7	18.9	20.0	20.5	20.8	20.8	20.2	18.1	14.2
11.8	15.7	17.7	18.8	19.3	19.6	19.4	18.6	16.7	13.1
11.1	14.6	16.5	17.7	18.1	18.3	17.9	17.2	15.4	12.2
10.3	13.4	15.3	16.3	16.7	16.8	16.5	15.7	14.0	11.2
9.3	12.1	13.9	14.8	15.2	15.2	14.9	14.2	12.7	10.2
8.4	10.8	12.4	13.3	13.7	13.7	13.4	12.7	11.3	9.1

10'

15'

HOUSING DIMENSIONS

COLOR TEMPERATURE GUIDE