

DESCRIPTION

Low brightness 4-1/2-inch aperture open wall wash downlight for use with 13W Quad tube 4-pin compact fluorescent lamps. The Geometric reflector maximizes flux toward the wall and is spectrally neutral leaving the color temperature and color rendering unchanged. Available in single, double and corner wall wash versions. The one piece design eliminates light leaks at the ceiling. Standard features include low iridescent finish on all reflectors and venting to ensure maximum lamp life and lumen output. Optics offer unparalleled performance with uniform illuminance on wall, no flashback, and glare-free downlighting. Open downlight, lensed, and open wall wash trims are interchangeable within the same housing.

SPECIFICATION FEATURES

Reflector

Injection molded Geometric Reflector for Uniform Vertical Illumination is vacuum metallized with polysiloxane hardcoat finish. One piece spun macrofocal parabolic downlight reflector, .050 thick aluminum, available in a variety of Alzak® finishes. Positive reflector mounting pulls trim tight to ceiling.

Trim Ring Options

Self flanged or molded white trim ring. Rimless or metal trim ring accessories available.

Socket Cap

One piece vented and finned die cast aluminum cap for maximum thermal performance.

Housing Mounting Frame

One piece precision die cast aluminum 1-1/2" deep collar accommodates varying dimensions of ceiling materials.

Universal Mounting Bracket

Accepts 1/2" EMT, C Channel, T bar fasteners, and bar hangers. Adjusts 5" vertically from above or below ceiling.

Conduit Fittings

Die cast screw tight connectors.

Junction Box

Listed for eight #12AWG (four in, four out) 90°C conductors feed through branch wiring. 1/2" and two 3/4" pry outs. Positioned to allow straight conduit runs. Access to junction box by removing reflector.

Socket

4-pin G24q1 base with fatigue free stainless steel lamp spring ensures positive lamp retention.

Electronic Ballasts

Electronic ballast provides full light output and rated lamp life. Provides flicker free and noise free operation and starting. End of lamp life protection is standard.

Labels

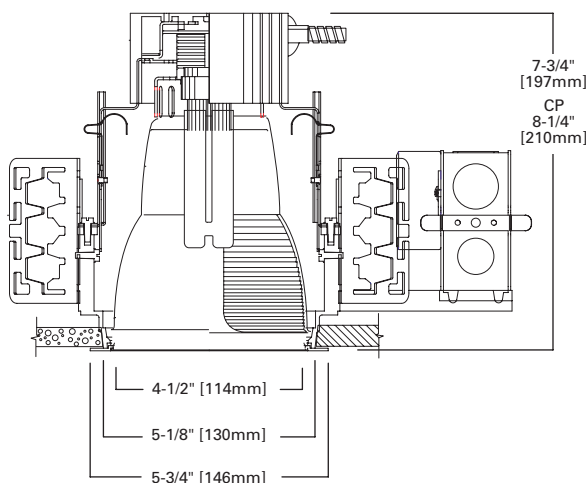
cULus listed, standard damp label.



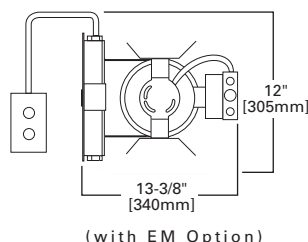
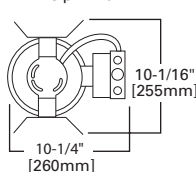
C4013
4010/4011
4020/4021
4030/4031

13W Quad
Compact Fluorescent

4-Inch Open Wall Wash



Top View



ENERGY DATA	
13W TTT 4-pin	
Ballast: Electronic	
120V Input Watts: 16	Line Amps: 0.13
277V Input Watts: 16	Line Amps: 0.06
Power Factor: >0.99	THD: <10%
Min. Starting Temperature: -10°C (15°F)	
Sound Rating: Class A Standards	

NOTES: Accessories should be ordered separately. For additional options, please consult your Cooper Lighting Representative. Alzak is a registered trademark of Aluminum Company of America.

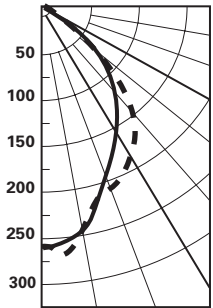
EXAMPLE: C4013E 4011LI

Housing	Wattage	Ballast	Options	Trims	Finish	Options	Accessories
C40 =4" CF Vertical	13 =(1) 13W DTT Lamp	E =120/277V 50/60 Hz Electronic 3E =347V 50/60 Hz Electronic	CP =Chicago Plenum EM =Emergency Module with Remote Test Switch	4011 =Reflector, Single Wall Wash, Self Flanged 4010 =Reflector, Single Wall Wash, Molded Trim Ring, White 4021 =Reflector, Double Wall Wash, Self Flanged 4020 =Reflector, Double Wall Wash, Molded Trim Ring, White 4031 =Reflector, Corner Wall Wash, Self Flanged 4030 =Reflector, Corner Wall Wash, Molded Trim Ring, White	LI =Low Iridescent Clear H =Haze WMH =Warm Haze G =Gold WH =Wheat W =Gloss White GP =Graphite GPH =Graphite Haze	WF =White painted flange (self flanged only)	HB26 =C Channel Bar Hangers, 26" Long, Pair HB50 =C Channel Bar Hangers, 50" Long, Pair TRM4 =Metal Trim Ring, Specify Finish ¹ TRR4 =Rimless Trim Ring, White FK5 =5 Amp Field Installable Fuse Kit 300V Max RMB-22 =Wood Joist Bar Hanger, 22" Long, Pair

Notes: ¹Order trim with polymer trim ring (Consult specification sheet for ordering information and options).

PHOTOMETRICS

Candlepower Distribution



Test No. H21023
C4013 4010LI
Lamp=13W DTT
Lumens=860
Spacing Criterion
180°=1.1
Efficiency=51.5%

--- 0°
— 180°

Candlepower

Deg.	0° Wall	180° Dwnlt
0	261	261
5	261	272
15	219	224
25	182	212
35	149	181
45	114	129
55	63	52
65	35	1
75	13	0
85	4	0
90	0	0

Average Luminance CD/SCM

Deg.	0° Wall	180° Dwnlt
45	15638	17704
55	10769	8849
65	8068	300
75	4931	0
85	4248	0

Single Fixture 2'6" From Wall

DD	1'	2'	3'	4'	5'	6'
1	3	3	2	1	0	0
2	6	6	3	1	1	0
3	6	5	3	2	1	1
4	4	4	3	2	1	1
5	3	2	2	2	1	1
6	2	2	1	1	1	1
7	1	1	1	1	1	1
8	1	1	1	1	1	0
9	1	1	1	1	0	0
10	1	1	1	0	0	0

2' Distance From Wall

DD	3'	4'
1	11 12 11	7 4 7
2	19 20 19	11 8 11
3	15 16 15	9 8 9
4	11 11 11	7 6 7
5	7 7 7	5 5 5
6	5 5 5	4 4 4
7	4 4 4	3 3 3
8	3 3 3	2 2 2
9	2 2 2	2 2 2
10	2 2 2	1 1 1

2'6" Distance From Wall

DD	3'	4'
1	5 5 5	4 3 4
2	9 9 9	7 6 7
3	10 10 10	8 7 8
4	8 8 8	6 6 6
5	6 6 6	5 5 5
6	5 5 5	4 4 4
7	3 4 3	3 3 3
8	3 3 3	2 2 2
9	2 2 2	2 2 2
10	2 2 2	1 2 1

3' Distance From Wall

DD	4'	6'
1	3 3 3	2 2 2
2	6 6 6	5 5 5
3	8 9 8	7 6 7
4	7 8 7	6 6 6
5	6 6 6	5 5 5
6	5 5 5	4 4 4
7	4 4 4	3 3 3
8	3 3 3	2 3 2
9	2 2 2	2 2 2
10	2 2 2	2 2 2

Notes:

- Illuminance values for multiple fixtures are based upon the center two units of a four unit array. Footcandle values are centerline of fixtures and centered between fixtures.
- Illuminance values are cosine corrected initial values with no contribution from inter reflections from other room surfaces. Total illumination may increase from contributions from other surfaces.
- Changing fixture spacing will affect illuminance level.

$$\text{New } F_c = \frac{\text{Existing Spacing}}{\text{New Spacing}} \times \text{Average Table } F_c \text{ Level}$$

- When selecting colored cones option, only downlight cone is colored; the wall wash reflector is specular clear. This allows the color (CRI, °K) of the light source to be unaffected and maximizes lumen output.

