DESCRIPTION

Low brightness 4-1/2-inch aperture reflector for use with 13W Quad tube compact fluorescent lamps. The precisely formed non-imaging reflector ensures 55° cutoff to lamp and lamp image and the one piece design eliminates light leaks at the ceiling. Standard features include low iridescent finish on all reflector colors (to eliminate "rainbowing") and venting to ensure maximum lamp life and lumen output. The fixture optics offer unparalleled performance in glare free lighting providing a smooth beam devoid of hot spots. Open downlight, lens, and open wall wash trims are interchangeable within the same housing.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Reflector

.050 thick aluminum in a one piece spun macrofocal parabolic contour. 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 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 for C4013, 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.



PORTFOLIO™

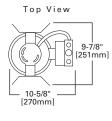
C4013 4050/4051

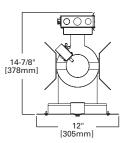
13W Quad Compact Fluorescent

4-Inch Open Downlight

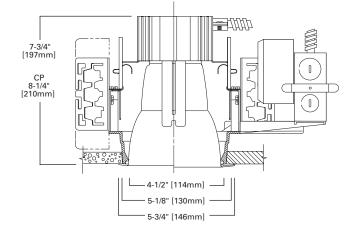
ENERGY DATA								
13W TTT 4-pin								
Ballast: E	Electronic							
120V Input Watts: 16	Line Amps: 0.13							
277V Input Watts: 16	Line Amps: 0.06							
Power Factor: >0.99	THD: <10%							
Min. Starting Temp	Min. Starting Temperature: -10°C (15°F)							
Sound Rating: Class A Standards								

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.



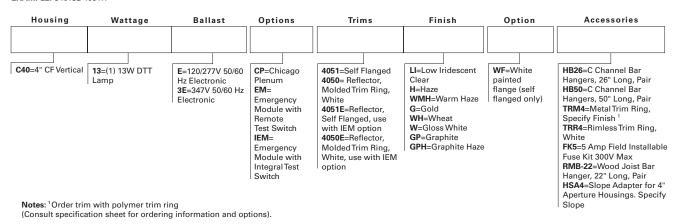


(with IEM Option)



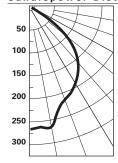
ORDERING INFORMATION C4013 4050/4051

EXAMPLE: C4013E 4051H



PHOTOMETRICS

Candlepower Distribution



Test No. H21022 C4013 4050LI **Open** Reflector Lamp=13W DTT Lumens=860 Spacing Criterion=1.1 Efficiency=51.8%

Candlepower							
Deg.	CD						
0	265						
5	272						
15	225						
25	205						
35	176						
45	127						
55	59						
65	0						
75	0						
85	0						
90	0						

Average Luminance								
Deg.	CD/SQM							
45	17525							
55	9970							
65	0							
75	0							
85	0							

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
4'6"	13	5'0"
5'6"	9	6'0"
6'6"	6	7'0"
8'0" /	4	9'0"
10'0"	3	11'0"
12'0"	2	\ 13'0"

Beam diameter is to 50% of maximum footcandles, rounded to the nearest half-foot.

Footcandle values are initial, apply appropriat light loss factors where necessary.

Reflector Multiplier: Haze=.95

EM Multiplier (in emergency mode)

Straw=.9 Wheat=.9 EM=.75

Zonal Lumen Summary

Zon e	Lumens	%Lamp	%Luminaire
0-30	184	21.4	41.4
0-40	294	34.1	65.9
0-60	444	51.6	99.7
0-90	445	51.8	100.0
90-180	0	0.0	0.0
0-18 0	445	51.8	100.0

Coefficient of Utilization

rc		8	0%			70%		50%	6	30 %		10%	0%
rw	70	50	30	10	50	30	10	50	10	50	10 50	10	0
RCR													
0	62	62	62	62	60	60	60	57	57	55	55 53	53	52
1	58	57	55	54	56	54	53	53	52	52	50 50	49	48
2	55	52	50	48	51	49	48	50	47	48	16 47	45	44
3	52	48	45	43	47	45	43	46	42	45	11 43	41	40
4	49	44	41	39	44	41	38	42	38	41	37 40	37	36
5	46	41	37	35	40	37	34	39	34	38	34 37	34	33
6	42	37	34	31	37	33	31	36	31	35	30 34	30	29
7	39	34	30	27	33	30	27	33	27	32	27 31	27	26
8	37	31	27	25	31	27	25	30	24	29	24 29	24	23
9	34	28	24	22	28	24	22	27	22	27	22 26	22	21
10	32	26	22	20	25	22	20	25	20	25	20 24	19	19
			_										

rc=Ceiling reflectance, rw=Wall reflectance, RCR=Rom cavity ratio

CU Data Based on 20% Effective Floor Cavity Reflectance.