

DESCRIPTION

Low brightness 4-1/2-inch aperture lensed reflector for use with 18W Triple Twin Tube compact fluorescent lamps. The deeply regressed lens provides superb shielding to eliminate brightness at higher angles. Choice of lenses for various aesthetics. Standard features include low iridescent finish on all reflector colors to eliminate "rainbowing" and venting to ensure maximum lamp life and lumen output. The modular housing will also accept various downlight and wall wash reflectors.

SPECIFICATION FEATURES

Reflector

.050 thick aluminum, in a one piece spun macrofocal parabolic contour. Available in a variety of Alzak® finishes. Also available with white or black baffle. Positive reflector mounting pulls trim tight to ceiling.

Lens

Choice of tempered fresnel, prismatic, diffuse, or clear glass lenses or molded prismatic acrylic, opal diffuser or clear UV stabilized acrylic. Lens is fixed to lower reflector.

Trim Ring Options

Self flanged or molded white trim ring.

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.

Catalog

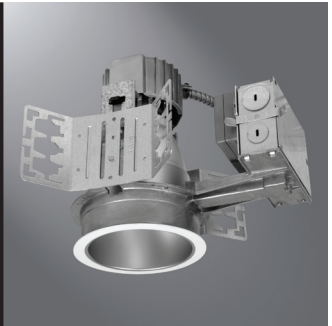
Project

Comments

Prepared by

Type

Date



C4018 4080/4081

18W TTT

Compact Fluorescent

4-Inch Lensed Downlight

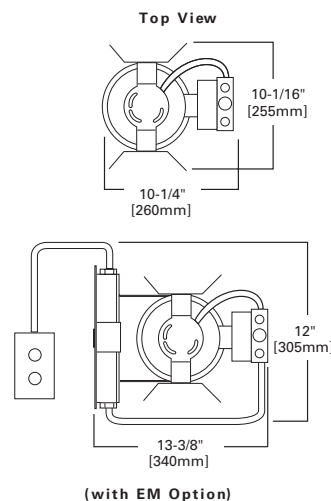
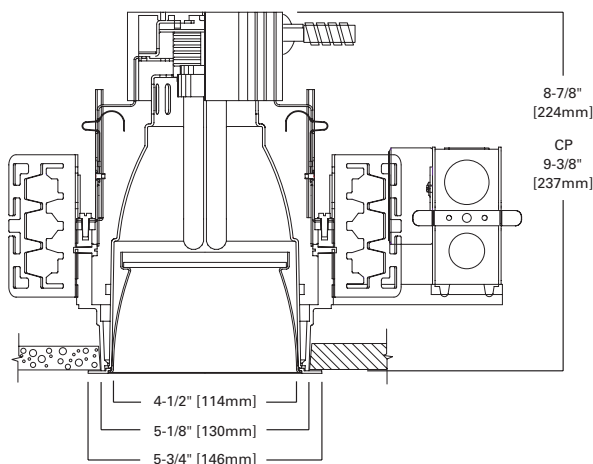
ENERGY DATA

18W TTT 4-pin

Ballast: Electronic

120V Input Watts: 22	Line Amps: 0.18
277V Input Watts: 22	Line Amps: 0.08
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.



ORDERING INFORMATION

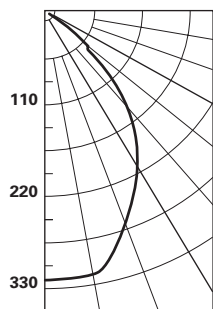
C4018 4080/4081

EXAMPLE: C4018E 4080LI4G

Housing	Wattage	Ballast	Options	Trims	Finish	Lens	Options	Accessories
C40 =4" CF Vertical			CP =Chicago Plenum EM =Emergency Module with RemoteTest Switch	4081 =Lensed Reflector, Self-Flanged 4080 =Lensed Reflector, Molded Trim Ring	LI =Low Iridescent Clear H =Haze WMH =Warm Haze G =Gold WH =Wheat W =Gloss White GP =Graphite GPH =Graphite Haze BB =Black Baffle (4080 only) WB =White Baffle (4080 only)	1 =Prismatic Lens 2 =Diffuse Lens 3 =Clear Lens 1G =Prismatic Glass 2G =Diffuse Glass 3G =Clear Glass 4G =Fresnel Glass	WF =White painted Flange (self Flanged only)	HB26 =C Channel Bar Hangers, 26" Long, Pair HB50 =C Channel Bar Hangers, 50" Long, Pair FK5 =5 Amp Field Installable Fuse Kit 300V Max RMB-22 =Wood Joist Bar Hanger, 22" Long, Pair HS44 =Slope Adapter for 4" Aperture Housings, Specify Slope
18 =(1) 18WTTT Lamp								
E =120/277V 50/60 Hz Electronic 3E =347V 50/60 Hz Electronic D5LT =120-277V Fifth Light (DALI Dimming) D =120-277V DimmingLutron EcoSystem/ 3-Wire Control (Factory Wired for 3-Wire) DMARKVII =18W 120-277V Advance MARK 7 1DMARKX =18W 120V Advance MARK 10 2DMARKX =18W 277V Advance MARK 10								

PHOTOMETRICS

Candlepower Distribution



Test No. H21303
C4018 4080LI4G
Open Reflector
Lamp=18W
PL-T18W/30/4P
Lumens=1200
Spacing
Criterion=1.1
Efficiency=37.7%

Candlepower

Deg.	CD
0	316
5	316
15	299
25	246
35	184
45	98
55	38
65	2
75	1
85	1
90	0

Average Luminance

Deg.	CD/SQ M
45	17525
55	9970
65	0
75	0
85	0

Cone of Light

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
4' 0"	20	4' 6"
6' 0"	9	6' 6"
7' 0"	6	7' 6"
8' 0"	5	8' 6"
10' 0"	3	10' 6"

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

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

EM Multiplier
(in emergency mode)

EM=.42

Zonal Lumen Summary

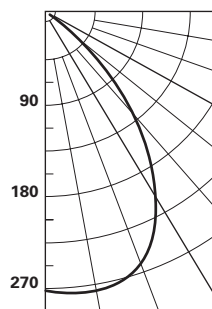
Zone	Lumens	%Lamp	%Luminaire
0-30	227	18.9	50.2
0-40	342	28.5	75.5
0-60	449	37.4	99.2
0-90	453	37.7	100.0
90-180	0	0.0	0.0
0-180	453	37.7	100.0

Coefficient of Utilization

rc	80%				70%				50%				30%				10%				0%
rw	70	50	30	10	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	50	0
RCR																					
0	45	45	45	45	44	44	44	42	42	40	40	39	39	39	39	38	38	38	38	38	38
1	42	41	40	39	40	40	39	39	37	38	36	36	36	36	35	35	35	35	35	35	35
2	40	38	36	35	37	35	34	36	33	35	33	34	32	34	32	32	32	32	32	32	31
3	37	35	32	31	34	32	30	33	30	32	29	31	29	31	29	28	28	28	28	28	28
4	35	32	29	27	31	29	27	30	27	30	27	29	26	29	26	26	26	26	26	26	26
5	33	29	27	25	29	26	25	28	24	27	24	27	24	27	24	23	23	23	23	23	23
6	31	27	24	22	27	24	22	26	22	25	22	25	22	25	22	21	21	21	21	21	21
7	29	25	22	20	25	22	20	24	22	24	20	23	20	23	20	19	19	19	19	19	19
8	27	23	20	19	23	20	19	22	18	22	18	22	18	22	18	18	18	18	18	18	18
9	26	21	19	17	21	19	17	21	17	20	17	20	17	20	17	17	17	17	17	17	17
10	24	20	17	16	20	17	16	19	16	19	16	19	16	19	16	16	16	16	16	16	16

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

CU Data Based on 20% Effective Floor Cavity Reflectance.

Candlepower Distribution

Test No. H21306
C4018 4080LI1G
Open Reflector
 Lamp=18W
 PL-T18W/30/4P
 Lumens=1200
 Spacing
 Criterion=1.1
 Efficiency=35.6%

Candlepower

Deg.	CD
0	268
5	271
15	272
25	244
35	176
45	96
55	3826
65	2
75	1
85	0
90	0

Average Luminance

Deg.	CD/SQ M
45	17525
55	9970
65	0
75	0
85	0

Cone of Light

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
4' 0"	17	4' 6"
6' 0"	7	7' 0"
7' 0"	5	8' 0"
8' 0"	4	9' 6"
10' 0"	3	12' 0"

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

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

**EM Multiplier
(in emergency mode)**

EM=.42

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Luminaire
0-30	214	17.8	50.1
0-40	323	27.0	75.7
0-60	424	35.4	99.3
0-90	428	35.6	100.0
90-180	0	0.0	0.0
0-180	428	35.6	100.0

Coefficient of Utilization

rc	80%				70%			50%		30%		10%		0%
rw	70	50	30	10	50	30	10	50	10	50	10	50	10	0
RCR														
0	42	42	42	42	41	41	41	40	40	38	38	36	36	36
1	40	39	38	37	38	37	37	37	35	35	34	34	33	33
2	38	36	34	33	35	34	32	34	32	33	31	32	30	30
3	35	33	31	29	32	30	29	31	28	30	28	29	27	27
4	33	30	28	26	30	27	26	29	25	28	25	27	25	24
5	31	28	25	23	27	25	23	26	23	26	23	25	23	22
6	29	25	23	21	25	23	21	24	21	24	21	23	21	20
7	27	23	21	19	23	21	19	23	19	22	19	22	19	18
8	26	22	19	18	21	19	17	21	17	21	17	20	17	17
9	24	20	18	16	20	18	16	20	16	19	16	19	16	15
10	23	19	16	15	19	16	15	18	15	18	15	18	15	14

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

CU Data Based on 20% Effective Floor Cavity Reflectance.