

DESCRIPTION

Low brightness 7-3/8-inch aperture lens downlight for use with a 26W, 32W or 42W Triple Tube 4-pin compact fluorescent lamp. The deeply regressed lens provides superb shielding in comparison to shallow lenses. Reflector trim eliminates brightness at higher angles. Choice of lens types for various aesthetics. Standard features include low iridescent finish on all reflectors, and one electronic ballast to operate 26W, 32W and 42W triple tube 4-pin lamps. Venting ensures maximum lamp life and lumen output. Open downlight, lensed, and open wall wash trims are interchangeable within the same housing.

SPECIFICATION FEATURES

Reflector

Clear upper Alzak® reflector for maximum light output. Positive reflector mounting, without tools, pulls trim tight to ceiling. Lower spun parabolic reflector, .050 thick aluminum, available in a variety of Alzak® finishes. Also available with black or white baffle.

Lens

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

Trim Ring Options

Self flanged or molded white trim ring.

Socket Connector

One piece die cast aluminum connection allows venting 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

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

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 GX24q3/4 base with fatigue free stainless steel lamp spring ensures positive lamp retention.

Electronic Ballast

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

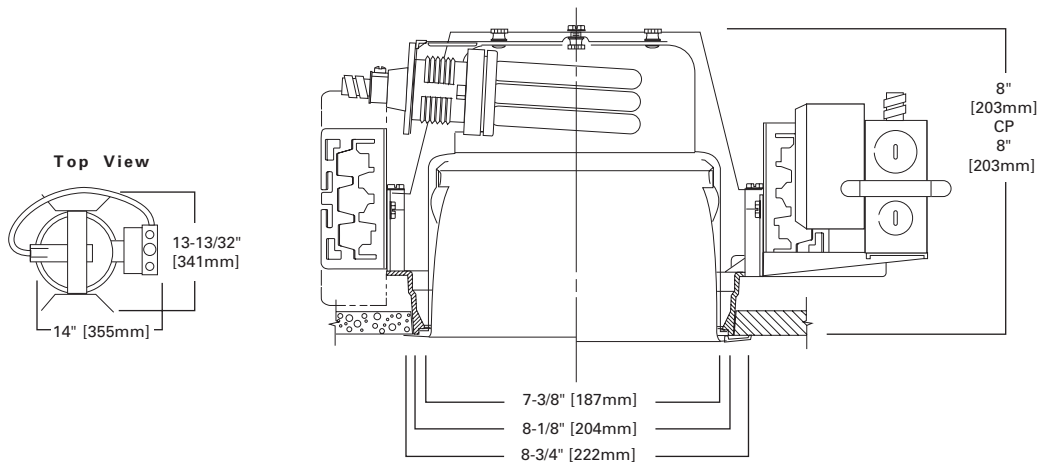
cULus listed, Wet label.



C7142 7181/7180

26W, 32W, 42W
TTT or PLT
Compact Fluorescent

7-Inch Lensed Downlight



ENERGY DATA

26W TTT 4-pin

Ballast: Electronic	
120V Input Watts: 29	Line Amps: 0.25
277V Input Watts: 29	Line Amps: 0.10
Power Factor: >0.99	THD: <10%
Min. Starting Temperature: -10°C (15°F)	
Sound Rating: Class A Standards	

32W TTT 4-pin

Ballast: Electronic	
120V Input Watts: 34.5	Line Amps: 0.30
277V Input Watts: 34.5	Line Amps: 0.13
Power Factor: >0.99	THD: <10%
Min. Starting Temperature: -10°C (15°F)	
Sound Rating: Class A Standards	

42W TTT 4-pin

Ballast: Electronic	
120V Input Watts: 48	Line Amps: 0.32
277V Input Watts: 48	Line Amps: 0.18
Power Factor: >0.99	THD: <10%
Min. Starting Temperature: -10°F (0°C)	
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

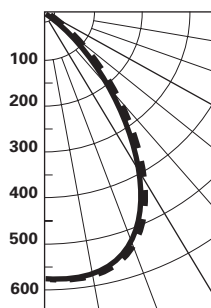
EXAMPLE: C7142E 7181LI1

Housing	Number of Lamps	Wattage	Ballast	Options	Trims	Finish	Lens	Options	Accessories
C7= 7" Horizontal Lamp	1=1 Lamp	42=26W, 32W, or 42W TTT or PLT Lamp	E=120/277V 50/60 Hz Electronic 3E=347V 50/60 Hz Electronic D5LT26=26W 120-277V Fifth Light (DALI Dimming) D5LT32=32W 120-277V Fifth Light (DALI Dimming) D5LT42=42W 120-277V Fifth Light (DALI Dimming) 3D5LT26/32=26 or 32W 347V Fifth Light (DALI Dimming) 3D5LT42=42W 347V Fifth Light (DALI Dimming) D26/32=26 or 32W 120-277V Lutron Ecosystem Dimming D42=42W 120-277V Lutron Ecosystem Dimming EDR26=DeRated Wattage Label, 26W EDR32=DeRated Wattage Label, 32W	CP=Chicago Plenum EM=Emergency Module with RemoteTest Switch	7181=Lensed Self Flanged 7180=Lens 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 (7180 only) WB=White Baffle (7180 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 HSA7=Slope Adapter for 7" Aperture Housings, Specify Slope

PHOTOMETRICS

C7142 7181/7180

Candlepower Distribution



Test No. H23202
C7132 7181LI1
Open Reflector with Prismatic Lens
Lamp=32W TTT
Lumens=2400
Spacing Criteria=0°=1.1, 90°=1.1
Efficiency=35.8%

Candlepower

Deg.	CD 0°	90°
0	578	578
5	582	579
15	577	565
25	487	512
35	312	323
45	152	167
55	66	71
65	11	13
75	0	0
85	0	0
90	0	0

Average Luminance

Deg.	CD/SQ M 0°	90°
45	7781	8551
55	4167	4471
65	901	1124
75	0	0
85	0	0

Cone of Light

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
5'6"	19	6'0"
6'6"	14	7'6"
8'0"	9	9'0"
10'0"	6	11'6"
12'0"	4	13'6"
14'0"	3	16'0"

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.

Lamp Multiplier:	Reflector Multiplier:	EM Multiplier (in emergency mode)
26W TTT=.70	Haze=.95 Straw=.9 Wheat=.9	EM=.27

Zonal Lumen Summary

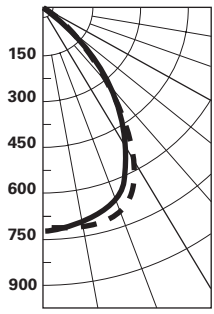
Zone	Lumens	%Lamp	%Luminaire
0-30	442	18.4	51.4
0-40	640	26.7	74.5
0-60	829	34.6	96.5
0-90	860	35.8	100.0
90-180	0	0.0	0.0
0-180	860	35.8	100.0

Coefficient of Utilization

rc	80%				70%				50%				30%				10%				0%
	70	50	30	10	50	30	10	50	10	50	10	50	10	50	10	50	10	0			
RCR																					
0	43	43	43	43	42	42	42	40	40	38	38	37	37	37	37	37	37	36			
1	41	39	39	38	39	38	37	37	36	36	35	35	34	35	34	34	33	33			
2	38	37	35	34	36	35	33	35	33	34	32	33	31	31	31	31	31	31			
3	36	34	32	30	33	32	30	32	30	32	29	31	29	29	29	29	29	28			
4	34	31	29	28	31	29	28	30	27	30	27	29	27	27	27	27	27	26			
5	32	29	27	25	29	27	25	28	25	27	25	27	24	24	24	24	24	24			
6	30	27	25	23	27	25	23	26	23	26	23	25	23	23	23	23	23	22			
7	29	25	23	21	25	22	21	24	21	24	21	23	21	21	21	21	21	20			
8	27	23	21	19	23	21	19	23	19	22	19	22	19	19	19	19	19	18			
9	25	21	19	18	21	19	18	21	17	21	17	20	17	17	17	17	17	17			
10	24	20	18	16	20	18	16	19	16	19	16	19	16	16	16	16	16	15			

rc=Ceiling reflectance, rw=Wall reflectance, RCR=Room cavity ratio
CU Data Based on 20% Effective Floor Cavity Reflectance.

Candlepower Distribution



Test No. H23204
C7132 7181LI1
Open Reflector
with Prismatic
Lens
 Lamp=32W PLT
 Lumens=2400
 Spacing Criteria=
 0°=1.1, 90°=1.2
 Efficiency=48.4%

Candlepower

Deg.	CD	
	0°	90°
0	730	730
5	728	734
15	716	749
25	609	692
35	416	468
45	206	241
55	91	100
65	18	20
75	0	0
85	0	0
90	0	0

Average Luminance

Deg.	CD/SQ M	
	0°	90°
45	10562	12383
55	5736	6336
65	1502	1682
75	0	0
85	0	0

Cone of Light

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
5'6"	24	6'6"
6'6"	17	8'0"
8'0"	11	9'6"
10'0"	7	12'0"
12'0"	5	14'6"
14'0"	4	17'0"

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.

Lamp Multiplier: 26W PLT=.71	Reflector Multiplier: Haze=.95 Straw=.9 Wheat=.9	EM Multiplier (in emergency mode) EM=.27
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Zonal Lumen Summary

Zone	Lumens	%Lamp	%Luminaire
0-30	576	24.0	49.6
0-40	853	35.5	73.5
0-60	1119	46.6	96.4
0-90	1162	48.4	100.0
90-180	0	0.0	0.0
0-180	1162	48.4	100.0

Coefficient of Utilization

rc rw	80%				70%				50%				30%				10%				0%			
	70	50	30	10	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10			
RCR																								
0	58	58	58	58	56	56	56	54	54	51	51	49	49	48										
1	55	53	52	51	52	51	50	50	48	48	47	47	46	45										
2	52	49	47	45	48	47	45	47	44	45	43	44	42	41										
3	49	46	43	41	45	43	41	44	40	42	39	41	39	38										
4	46	42	39	37	42	39	37	41	36	40	36	39	36	35										
5	43	39	36	34	39	36	34	38	33	37	33	36	33	32										
6	41	36	33	31	36	33	31	35	30	34	30	34	30	29										
7	38	33	30	28	33	30	28	32	28	32	27	31	27	27										
8	36	31	28	25	31	28	25	30	25	29	25	29	25	24										
9	34	29	25	23	28	25	23	28	23	27	23	27	23	22										
10	32	26	23	21	26	23	21	26	21	25	21	25	21	20										

rc=Ceiling reflectance, rw=Wall reflectance, RCR=Room cavity ratio
 CU Data Based on 20% Effective Floor Cavity Reflectance.