IRIS®

DESCRIPTION

Recessed open downlight luminaire with 5 inch aperture utilizing vertical 26/32WTTT compact fluourescent lamp. Platform is suitable for commercial construction. Insulation must be kept 3" from top and sides of housing. Platform + optical element combination produces smooth medium beam distribution with excellent light control and low aperture brightness.

Catalog #		**Type**
Project		
Comments		**Date**
Prepared By		

SPECIFICATION FEATURES

Frame
Galvanized steel plaster frame with integral bar hanger receivers. Setscrews provide positive horizontal locking. Integral gun sights facilitate the use of guide strings or laser lines. Shipped with overspray protector installed.

Housing
Steel housing painted matte black for a visually dark interior.

Bar Hangers
Bar hangers adjust from 8-1/2" to 24" wide; pass thru feature allows shortening without removal. Captive nail penetrates standard and engineered lumber. Mounting flange levels platform with ceiling. Integral clip attached directly to tee-bar.

Gaskets
Closed cell gaskets achieve restrictive airflow requirements without additional caulking.

Reflector
Spun 0.04" thick aluminum parabolic contour provides smooth medium beam distribution with excellent light control and low aperture brightness and is available in a wide range of specular and semi- specular Alzak® finishes.

Flange
Reflector is available self flanged, flange finish follows reflector finish, self flanged also available with painted white flange. Reflector also available with die cast flange in painted white or raw aluminum with protective clear coat. The die cast flange can be removed for field painting and is keyed to maintain proper orientation.

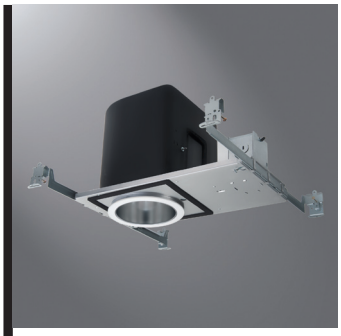
Flush Mount Option
Reflector with die cast flange can be installed flush to finished ceiling surface using option flush mound collar accessory.

Trim Retention
Retained with two torsion springs holding the flange tightly to the finished ceiling surface and accommodates ceiling thickness with 1/2 -1" thick. Uses PLE5 to adapt to ceilings up to 2" thick.

Junction Box
Rated for (4) #12 or (6) #14 AWG thru branch, (5) 1/2" trade size pry outs positioned to allow straight conduit runs.

Ballast
Thermally protected universal input 120-277V electronic ballast provides program start for full light output and rated lamp life. Multi wattage ouput for 26 or 32W triple twin tube lamps. Available with 1% and 5% dimming options, see ordering information for details.

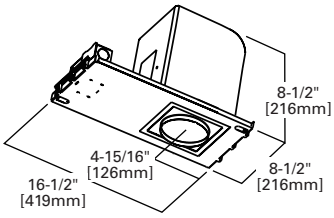
Compliance
Thermally protected, cULus listed for damp locations and ASTM-E283 AIRTITE™. EMI/RFI emissions per FCC 47CFR Part 18 non consumer limits.

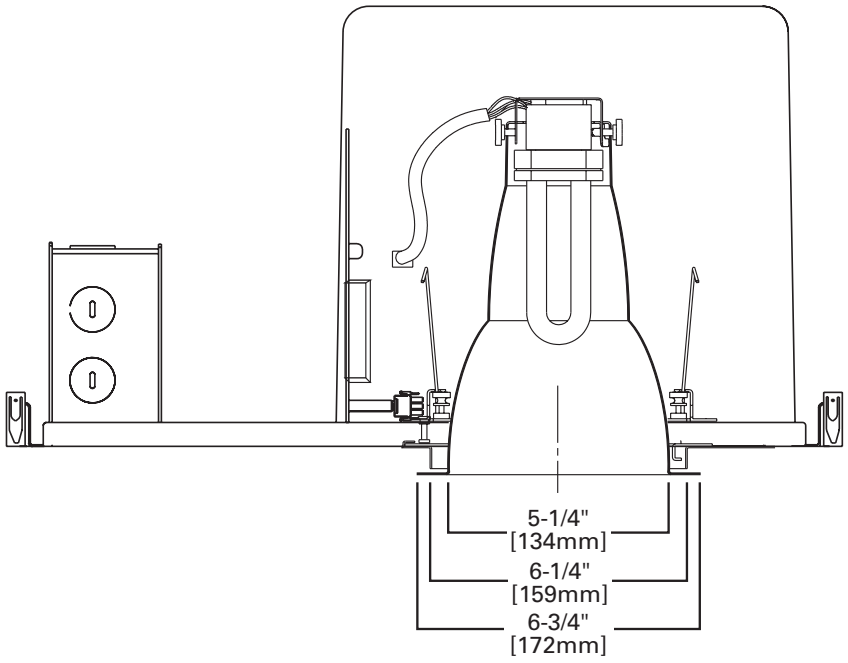


PN532 E5T

26/32W Compact Fluorescent Open Downlight

5" Aperture





ENERGY DATA		
26W		
Input Voltage	120V	277V
Input Current	0.24	0.11
Input Power	29	29
32W		
Input Voltage	120V	277V
Input Current	0.31	0.13
Input Power	36	36
THD: ≤ 10%		
PF: ≥ .98		
T Ambient -30° C - +40° C		
Sound Rating A		

ORDERING INFORMATION: Complete unit consists of platform, lamp module and optical element.

Example: PN5 + 32 + E5T

Platform	Lamp Type / Wattage	Ballast	Optical Element	Finishes	Options	Housing Accessories
PN5			**E5T**			

PN5 = 5" Aperture Non-IC, AT CFL housing

26 = 26WTTT CFL derated label
32 = 26/32WTTT CFL

E = UNV 120-277V electronic, 50/60Hz
3E = 347V electronic, 50/60Hz
ED26/32ES = 120-277V, 50/60Hz 26/32W electronic 5% 3-wire & EcoSystems
1D26HL = 120V, 60Hz 26W electronic 1% 3-wire dimming
1D32HL = 120V, 60Hz 32W electronic 1% 3-wire dimming
2D26HL = 277V, 60Hz 26W electronic 1% 3-wire dimming
2D32HL = 277V, 60Hz 32W electronic 1% 3-wire dimming

E5T = 5" aperture downlight reflector

Alzak® Finishes
C = Specular Clear
H = Semi-Specular Clear
G = Gold
WMH = Warm Haze
WH = Wheat
WHH = Wheat Haze
GP = Graphite
GPH = Graphite Haze
K = Cognac
KH = Cognac Haze
CC = Chocolate
CCH = Chocolate Haze
B = Black

Painted Finishes
MW = Matte white
W = Gloss white

[Blank] = Metal trim ring, matte white
RAW = Metal trim ring, natural aluminum, clear protective coat
SF = Self Flanged
SFWF = Self flanged, matte white flange

PLE5 = Plaster lip extension, for ceilings up to 2" thick
FMC5 = Flush mount collar for 5-inch aperture

PHOTOMETRICS

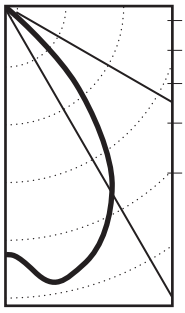
PN532-E5TC

Test No.	H36087
Lamp:	32W PLT
Lumens:	2400
Cutoff:	50°
Spacing:	1.1
Efficiency:	33.7%
Unit LPW:	22.4

Candelas

Vertical Angle	CD
90	0
85	0
75	0
65	0
55	0
45	134
35	365
25	522
15	605
5	586
0	552

Distribution



Luminance

Degree	cd/m²
85°	0
75°	0
65°	0
55°	0
45°	13584

Cone of Light

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
4'6"	29	5'0"
5'6"	19	6'6"
6'6"	14	7'6"
8'0"	9	9'6"
10'0"	6	11'6"
12'0"	4	14'0"

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Luminaire
0-30	466	19.4	57.6
0-40	692	28.8	85.5
0-60	803	33.4	99.1
0-90	810	33.7	100.0
90-180	0	0.0	0.0
0-180	810	33.7	100.0

Coefficient of Utilization

Ceiling Reflectance	80%				70%		50%		30%		0%
Wall Reflectance	70	50	30	10	50	10	50	10	50	10	0
Room Cavity Ratio											
0	40	40	40	40	39	39	37	37	36	36	34
1	38	37	37	36	37	35	35	34	34	33	32
2	37	35	34	33	34	32	33	32	32	31	30
3	35	33	31	30	32	30	31	29	31	29	28
4	33	31	29	28	30	27	30	27	29	27	26
5	31	29	27	25	28	25	28	25	27	25	24
6	30	27	25	24	27	24	26	23	26	23	23
7	28	25	23	22	25	22	25	22	24	21	21
8	27	23	21	20	23	20	23	20	23	20	19
9	25	22	20	18	22	18	21	18	21	18	18
10	24	20	18	17	20	17	20	17	20	17	16

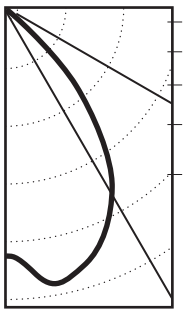
PN532-E5TC

Test No.	H36107
Lamp:	26W PLT
Lumens:	1800
Cutoff:	50°
Spacing:	1.1
Efficiency:	38.7%
Unit LPW:	23.2

Candelas

Vertical Angle	CD
90	0
85	0
75	0
65	0
55	0
45	103
35	305
25	460
15	566
5	572
0	540

Distribution



Luminance

Degree	cd/m²
85°	0
75°	0
65°	0
55°	123
45°	10406

Cone of Light

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
4'6"	27	5'0"
5'6"	18	6'0"
6'6"	13	7'0"
8'0"	8	9'0"
10'0"	5	11'0"
12'0"	4	13'0"

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Luminaire
0-30	426	23.7	60.8
0-40	616	34.2	87.9
0-60	698	38.8	99.6
0-90	701	38.9	100.0
90-180	0	0.0	0.0
0-180	701	38.9	100.0

Coefficient of Utilization

Ceiling Reflectance	80%				70%		50%		30%		0%
Wall Reflectance	70	50	30	10	50	10	50	10	50	10	0
Room Cavity Ratio											
0	46	46	46	46	45	45	43	43	41	41	39
1	44	43	42	42	43	41	41	40	40	39	37
2	425	41	39	38	40	38	39	37	38	36	35
3	41	38	36	35	38	35	37	34	36	34	33
4	39	36	34	33	36	32	35	32	34	32	31
5	37	34	32	30	33	30	33	30	32	29	29
6	35	32	30	28	32	28	31	28	30	28	27
7	33	30	28	26	30	26	29	26	29	26	25
8	31	28	26	24	28	24	27	24	27	24	23
9	30	26	24	22	26	22	25	22	25	22	21
10	28	24	22	21	24	21	24	21	24	20	20

Notes and Formulas:

Luminance: To convert cd/m² to footlamberts, multiply by 0.2919

Cone of Light:

- 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. See page 64-65 of catalog.

CU Notes/Formulas:

- maintained illuminance=$\frac{\text{lamp lumens x CU x light loss factors}}{\text{room area}}$
- total number of luminaires=$\frac{\text{total room area x maintained illuminance}}{\text{lamp lumens x CU x light loss factors}}$
- CU data based on 20% effective floor cavity reflectance.