

DESCRIPTION

Recessed lens downlight luminaire with 5 inch aperture utilizing vertical 26/32WTTT compact fluorescent lamp. Platform is suitable for commercial construction. Insulation must be kept 3" from top and sides of housing. Regressed frosted lens obscures lamp and provides smooth 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. Integral frosted glass lens obscures lamp and provides smooth distribution.

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.

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 output for 26 or 32W triple twin tube lamps. Available with 1% and 5% dimming options, see ordering information for details.

Compliance

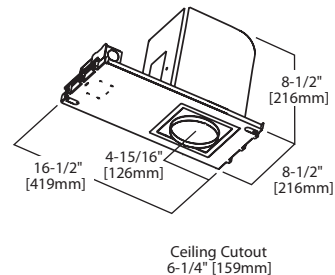
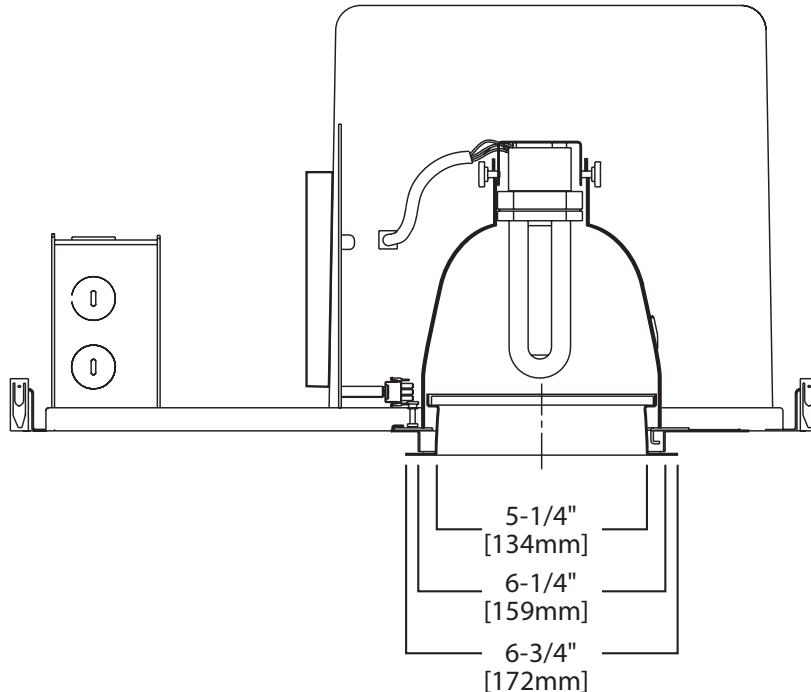
Thermally protected, cULus listed for wet locations and ASTM-E283 AIRTITE™. EMI/RFI emissions per FCC 47CFR Part 18 non consumer limits.



**PN532
E5SR**

**26/32W
Compact
Fluorescent
Lens 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 + E5SR

Platform	Lamp Type / Wattage	Ballast	Optical Element	Finishes	Options	Housing Accessories
PN5			E5SR			
PN5 = 5" Aperture Non-IC, AT CFL housing	26 = 26W TTT CFL derated label 32 = 26/32W TTT 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 = 277, 60Hz 32W electronic 1% 3-wire dimming	E5SR = 5" aperture regressed lens 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

PHOTOMETRICS

PN532 E5SR

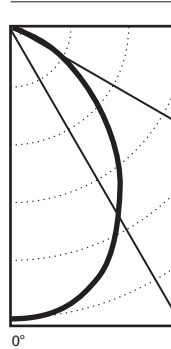
P532-E5SRC

Test No. H36117
Lamp: 26W PLT
Lumens: 1800
Cutoff: 75°
Spacing: 1.1
Efficiency: 32.4%
Unit LPW: 22.43

Candelas

Vertical Angle	CD
90	0
85	0
75	5
65	37
55	82
45	142
35	202
25	256
15	294
5	309
0	311

Distribution



Luminance

Degree	cd/m ²
85°	0
75°	1410
65°	6266
55°	10183
45°	14384

Cone of Light

Distance to Illuminated Plane	Initial Nadir Footcandles	Beam Diameter
4'6"	15	5'0"
5'6"	10	6'6"
6'6"	7	7'6"
8'0"	5	9'6"
10'0"	3	11'6"
12'0"	2	14'0"

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Luminaire
0-30	230	12.8	39.5
0-40	356	19.8	61.1
0-60	539	30.0	92.6
0-90	582	32.4	100.0
90-180	0	0.0	0.0
0-180	582	32.4	100.0

Coefficient of Utilization

Ceiling Reflectance	80%				70%				50%				30%				0%
Wall Reflectance	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	0
Room Cavity Ratio																	
0	38	38	38	38	38	38	36	36	34	34	32						
1	36	35	34	33	34	33	33	32	32	31	29						
2	34	32	31	29	32	29	30	28	29	28	26						
3	32	29	27	26	32	29	30	28	29	28	26						
4	30	27	25	23	26	23	26	22	25	22	21						
5	28	24	22	20	24	20	23	20	23	20	19						
6	26	22	20	18	22	18	21	18	21	18	17						
7	24	20	18	16	20	16	19	16	19	16	15						
8	22	18	16	14	18	14	18	14	17	14	14						
9	21	17	15	13	17	13	16	13	16	13	12						
10	19	16	13	12	15	12	15	12	15	12	11						

Notes and Formulas:

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

Cone of Light:

- Footcandle and CU multiplier: clear x 1.0, Haze x .95, Gold x .90, Black x .65, Warm Haze x .90
- 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.

CU Notes/Formulas:

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