



Compact Fluorescent  
Trims

**8" Pro-Optic™**  
**Alzak® Shallow Cross Louver**  
**2-Lamp Horizontal**  
**Non-IC**

**Recessed**

Type \_\_\_\_\_  
-21A -22A  
P8170

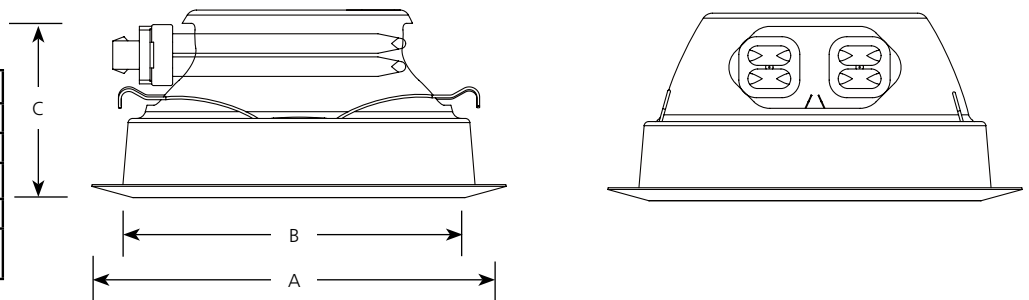
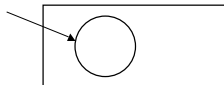
Catalog No.	Finish		Dimensions (Inches)		
	Clear Alzak®	Gold Alzak®	A	B	C
P8170	-21A	-22A	9-1/8	7-1/4	4-3/16

Maximum Ceiling Thickness: 1-1/4"  
Ceiling Cutout: 8-1/4" (See guide for retrofit)

**P183H, P188H, P186H**

HOUSING COMPATIBILITY GUIDE		
ORDERING GUIDELINES	8 INCH OPENING RANGE	
	MIN	MAX
REQUIRES SD HOUSING OPTION	7-15/16	8-1/8
ALL STANDARD HOUSINGS	8-1/8	8-3/4
ONLY P8130 SERIES TRIMS AVAILABLE: 'WF' OPTION.	8-3/4	9-1/8

Dimensions shown are for the diameter of the frame flange at it's narrowest point



\*Lamps shown are 26w quad tube compact fluorescent

**Lamp Wattage**

**Housings**

New Construction	Retrofit	IC	Non-IC
P8213-EB	P183H-EB	N/A	2 13w Quad Tube
P8218-DVEB	P188H-DVEB	N/A	2 18w Quad Tube
P8226-DVEB	P186H-DVEB	N/A	2 26w Quad Tube
P8226-DM	P186H-DM	N/A	2 26w Quad Tube

**Specifications:**

Flange

- White painted flange integral to louver assembly

Upper Reflector

- Single piece, all aluminum construction
- No light leaks around trim flange
- Socket box mounts to reflector for optimum performance and consistent lamp position
- Reflector retention accomplished by 3 spring clips located in aperture of housing
- Clear Alzak finish on upper reflector
- Housing socket box mounts to trim for optimum performance, and consistent lamp position

Louver Assembly

- Anodized Alzak cross louvers match sku finish
- Provides a broad, even distribution of light
- Locks into reflector by means of 2 scissor springs
- Eliminates high angle brightness
- Removable from below for lamp replacement without the use of tools

Labeling

- cCSAus damp location listed
- Non-IC Rated

Progress Lighting  
701 Millennium Blvd.  
Greenville, South Carolina  
29607

www.progresslighting.com

Patent# 6,254,257

Rev. 8/10



# P8226-DVEB/P8170-21A

## 8" Prp-Optic DOWNLIGHT - 1100 Alloy Aluminum Reflector w/

Report No. 2418

No. Lamps: 2 Type Lamp: 2 - CFL/QUAD/26W SYLVANI Total Lumens: 3420

Fixture Efficiency: 43.2%

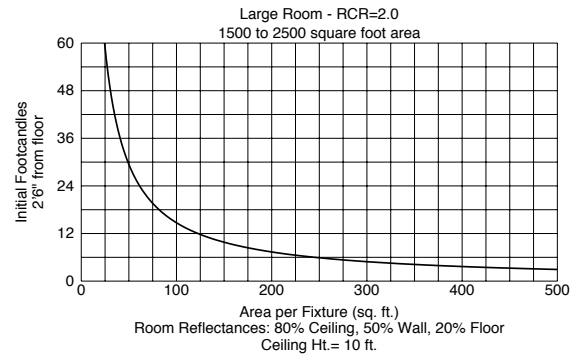
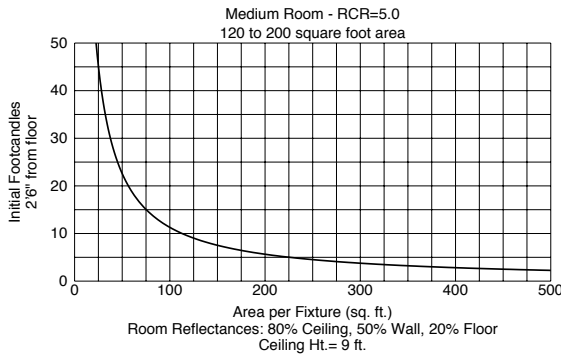
S/MH Ratio: 1.0 (0°) 1.1 (90°)

### Single Fixture Data

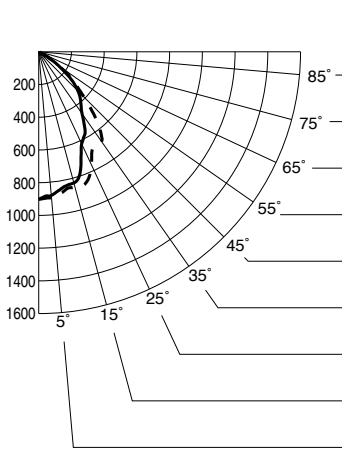
Ceiling Ht.(Ft.)	10% Values		Zero Degrees Ft.-C	50% Values	
	Beam Angle - 96°			Beam Angle - 55°	
	Ft.-C	Beam Dia.		Ft.-C	Beam Dia.
8	3.0	12	29.8	14.9	6
10	1.6	17	16.0	8.0	8
12	1.0	21	10.0	5.0	10
14	0.7	26	6.8	3.4	12
16	0.5	30	4.9	2.5	14

Ft.-C (Footcandles) are initial and measured 2'-6" from floor

### Quick Calculator Charts



### DISTRIBUTION CURVE



### INTENSITY DATA

DEGREES	CANDELA	
	AT 0°	AT 90°
90	0	0
85	0	0
80	1	1
75	3	3
70	6	7
65	20	14
60	61	58
55	145	152
50	254	276
45	339	391
40	400	556
35	462	670
30	567	673
25	621	761
20	752	849
15	830	858
10	843	867
5	882	895
0	902	902

### ZONAL CAVITY COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 0.20

RC	Effective Floor Cavity Reflectance 0.20																						
	80				70				50				30				10				0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
0	51	51	51	51	50	50	50	50	48	48	48	46	46	46	44	44	44	44	44	44	43		
1	49	47	46	45	47	46	45	44	44	43	43	43	42	41	41	41	40	40	39	39	39		
2	45	43	41	39	44	42	40	39	41	39	38	39	38	37	38	37	36	36	35	35	35		
3	42	39	36	34	41	38	36	34	37	35	33	36	34	33	35	34	32	32	31	31	31		
4	40	36	33	30	39	35	32	30	34	32	30	33	31	30	32	31	29	28	28	27	27		
5	37	33	30	27	36	32	29	27	31	29	27	31	28	27	30	28	26	26	26	25	25		
6	35	30	27	25	34	30	27	24	29	26	24	28	26	24	28	26	24	23	23	23	23		
7	32	28	24	22	32	27	24	22	27	24	22	26	24	22	26	23	22	22	21	21	21		
8	30	25	22	20	30	25	22	20	25	22	20	24	22	20	24	22	20	20	19	19	19		
9	29	24	21	19	28	23	20	18	23	20	18	23	20	18	22	20	18	18	18	18	18		
10	27	22	19	17	26	22	19	17	21	19	17	21	19	17	21	18	17	17	17	17	17		



# P8218-DVEB/P8170-22A

## 8" DOWNLIGHT Postpainted Steel Housing 3002 Alloy Aluminum

Report No. 2956

No. Lamps: 2 Type Lamp: 2 - CFL, QUAD TUBE SLVAN Total Lumens: 2300

Fixture Efficiency: 38.8%

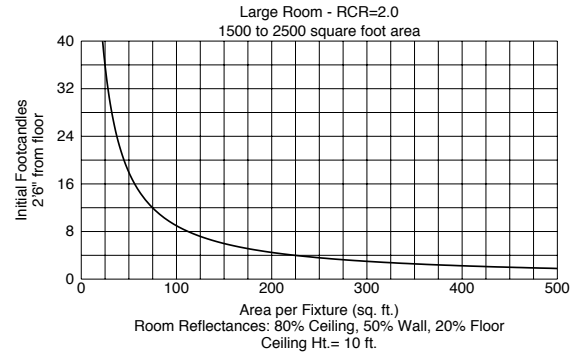
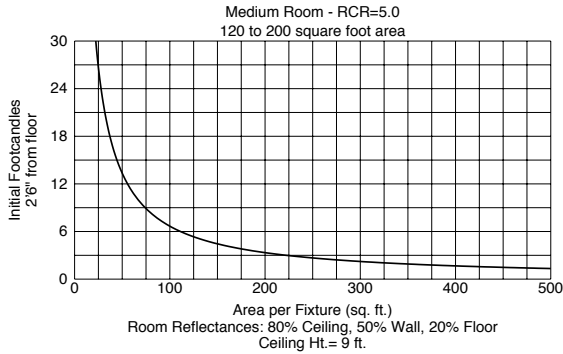
S/MH Ratio: 1.1 (0°) 1.1 (90°)

### Single Fixture Data

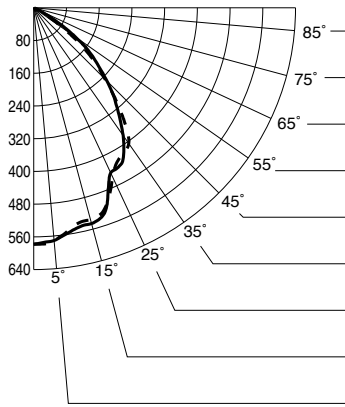
Ceiling Ht.(Ft.)	10% Values		Zero Degrees Ft.-C	50% Values	
	Beam Angle - 97°			Beam Angle - 58°	
	Ft.-C	Beam Dia.		Ft.-C	Beam Dia.
8	1.9	13	19.1	9.6	6
10	1.0	17	10.3	5.1	8
12	0.6	22	6.4	3.2	11
14	0.4	26	4.4	2.2	13
16	0.3	31	3.2	1.6	15

Ft.-C (Footcandles) are initial and measured 2'-6" from floor

### Quick Calculator Charts



#### DISTRIBUTION CURVE



#### INTENSITY DATA

DEGREES	CANDELA	
	AT 0°	AT 90°
90	0	0
85	0	0
80	0	0
75	1	1
70	2	2
65	15	4
60	54	31
55	125	95
50	192	176
45	253	246
40	316	331
35	381	405
30	434	422
25	445	456
20	520	516
15	546	536
10	552	544
5	571	571
0	578	578

#### ZONAL CAVITY COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 0.20

RC	Effective Floor Cavity Reflectance 0.20																	
	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	46	46	46	46	45	45	45	45	43	43	43	41	41	41	40	40	40	39
1	44	42	41	40	43	42	40	40	40	39	38	38	38	37	37	37	36	35
2	41	39	37	35	40	38	36	35	37	35	34	35	34	33	34	33	33	32
3	38	35	33	31	37	35	32	31	34	32	30	33	31	30	32	30	29	29
4	36	32	29	28	35	32	29	27	31	29	27	30	28	27	29	28	26	26
5	33	29	27	25	33	29	26	24	28	26	24	28	26	24	27	25	24	23
6	31	27	24	22	31	27	24	22	26	24	22	25	23	22	25	23	22	21
7	29	25	22	20	29	25	22	20	24	22	20	24	21	20	23	21	20	19
8	27	23	20	18	27	23	20	18	22	20	18	22	20	18	21	19	18	17
9	26	21	19	17	25	21	18	17	21	18	17	20	18	17	20	18	17	16
10	24	20	17	15	24	20	17	15	19	17	15	19	17	15	19	17	15	15