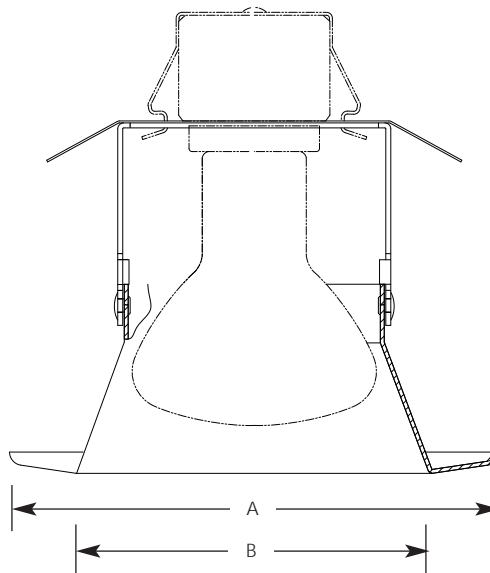


Type _____

-21 -22

P8043

Catalog No.	Finish		Dimensions (Inches)	
	Clear Alzak®	Gold Alzak®	A	B
P8043	-21	-22	5	3-7/8



Lamp Wattage

Housing	IC	Non-IC
P831-AT	75PAR16/R20/50PAR20	75PAR16/R20/50PAR20
P830-TG	N/A	55PAR16/50R/PAR20
P832-TG	N/A	55PAR16/50R/PAR20

Specifications:

Flange

- Bright white powdered painted metal flange
- No light leaks around trim flange
- Covers irregular ceiling openings

Trim

- Aluminum construction
- Push-in Leaf Spring installation
- Lamp tilts 20 degrees., 360-degree positioning
- Socket mounts to trim for optimum performance and consistent lamp position
- Patented "hurricane" retention spring allows trim to be easily disengaged from below for maintenance.

Options

- Specular Clear Alzak® finish - specify "21" after catalog number
- Polished gold Alzak® finish - specify "22" after catalog number

Labels

- UL-CUL damp location listed

P830-TG

P830-TG WITH P8043-21

Report No. 98261

No. Lamps: 1 Type Lamp: 50PAR20/NFL-GE Total Lumens: 570

Fixture Efficiency: 98.8%

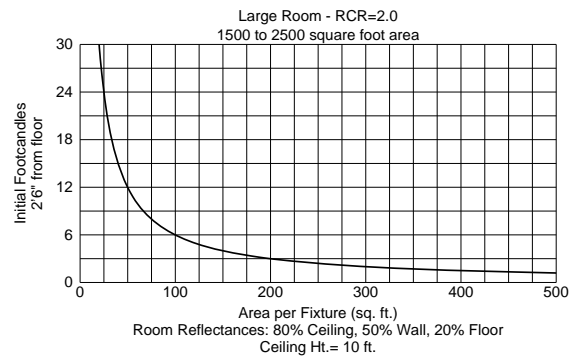
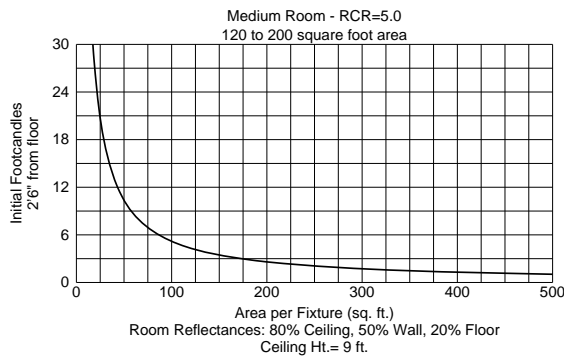
S/MH Ratio: 0.3

Single Fixture Data

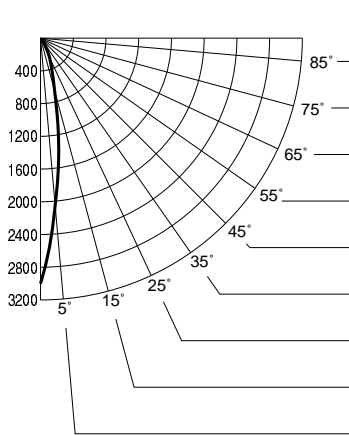
Ceiling Ht.(Ft.)	10% Values		Zero Degrees	50% Values	
	Beam Angle - 42°			Beam Angle - 16°	
	Ft.-C	Beam Dia.		Ft.-C	Beam Dia.
8	9.9	4	99.2	49.6	2
10	5.3	6	53.3	26.7	2
12	3.3	7	33.2	16.6	3
14	2.3	9	22.7	11.3	3
16	1.6	10	16.5	8.2	4

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

Quick Calculator Charts



DISTRIBUTION CURVE



INTENSITY DATA

DEGREES	CANDELA
90	0
85	0
80	0
75	0
70	1
65	3
60	6
55	8
50	10
45	17
40	35
35	78
30	142
25	257
20	406
15	670
10	1271
5	2050
0	3000

ZONAL CAVITY COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 0.20

RC	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	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10																																	
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	101	101	101	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67																						
1	113	111	109	107	111	109	107	106	105	104	102	101	100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60																			
2	109	105	102	99	107	103	101	98	100	98	96	98	96	94	95	93	92	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56																				
3	105	100	96	93	103	99	95	92	96	93	91	94	91	89	92	90	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53																				
4	101	95	91	88	100	94	90	87	92	89	86	90	87	85	89	86	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50																					
5	98	91	87	83	96	90	86	83	89	85	82	87	84	81	86	83	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47																					
6	94	87	83	79	93	87	82	79	85	82	79	84	81	78	83	80	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44																					
7	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40																				
8	88	81	76	73	87	80	76	73	79	76	73	79	75	72	78	75	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37																				
9	86	78	74	71	85	78	73	70	77	73	70	76	73	70	75	72	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35																				
10	83	76	71	68	82	75	71	68	74	71	68	74	70	68	73	70	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33																				

P830-TG

P830-TG WITH P8043-21

Report No. 98263

No. Lamps: 1 Type Lamp: 75PAR16/NFL-SYLVANIA Total Lumens: 1900

Fixture Efficiency: 95.5%

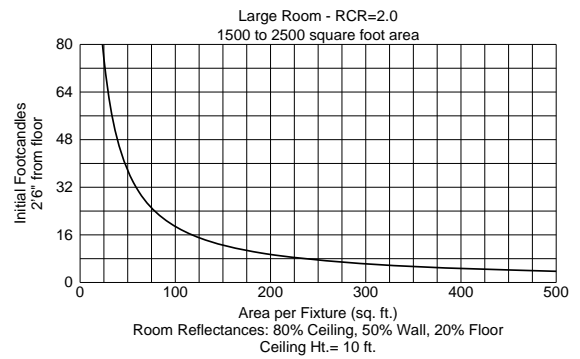
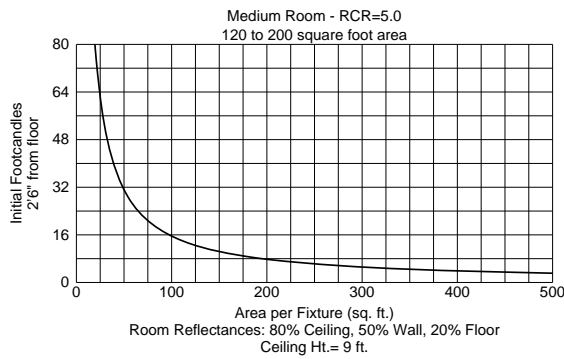
S/MH Ratio: 0.6

Single Fixture Data

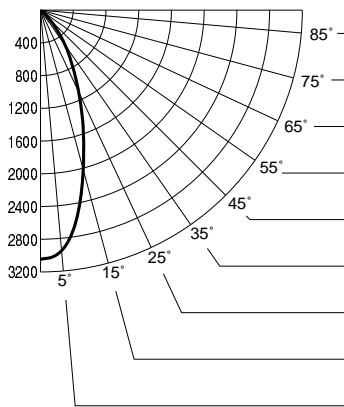
Ceiling Ht.(Ft.)	10% Values		Zero Degrees Ft.-C	50% Values	
	Beam Angle - 69°			Beam Angle - 35°	
	Ft.-C	Beam Dia.		Ft.-C	Beam Dia.
8	10.1	8	100.6	50.3	3
10	5.4	10	54.1	27.0	5
12	3.4	13	33.7	16.9	6
14	2.3	16	23.0	11.5	7
16	1.7	19	16.7	8.3	9

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

Quick Calculator Charts



DISTRIBUTION CURVE



INTENSITY DATA

DEGREES	CANDELA
90	0
85	2
80	2
75	3
70	4
65	5
60	6
55	16
50	47
45	139
40	313
35	530
30	776
25	1105
20	1523
15	2018
10	2567
5	2950
0	3043

ZONAL CAVITY COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 0.20

RC	80				70				50				30				10				0				
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30
0	114	114	114	114	111	111	111	111	106	106	106	102	102	102	98	98	98	96							
1	109	106	104	102	106	104	102	100	100	99	97	97	95	94	93	92	91	90							
2	104	99	95	92	101	97	94	91	94	92	89	92	89	87	89	87	86	84							
3	99	93	88	85	97	91	87	84	89	85	83	87	84	81	85	82	80	79							
4	94	87	82	78	92	86	81	78	84	80	77	82	79	76	80	77	75	74							
5	90	82	77	73	88	81	76	72	79	75	72	78	74	71	76	73	71	69							
6	85	77	72	68	84	77	71	68	75	71	67	74	70	67	73	69	66	65							
7	82	73	68	64	80	72	67	64	71	67	63	70	66	63	69	65	63	61							
8	78	69	64	60	77	69	64	60	68	63	60	67	63	59	66	62	59	58							
9	74	66	60	57	73	65	60	57	64	60	56	64	59	56	63	59	56	55							
10	71	63	57	54	70	62	57	54	61	57	54	61	56	53	60	56	53	52							

P830-TG

P830-TG WITH P8043-22

Report No. 98258

No. Lamps: 1 Type Lamp: 50PAR20/NFL-GE Total Lumens: 570

Fixture Efficiency: 98.2%

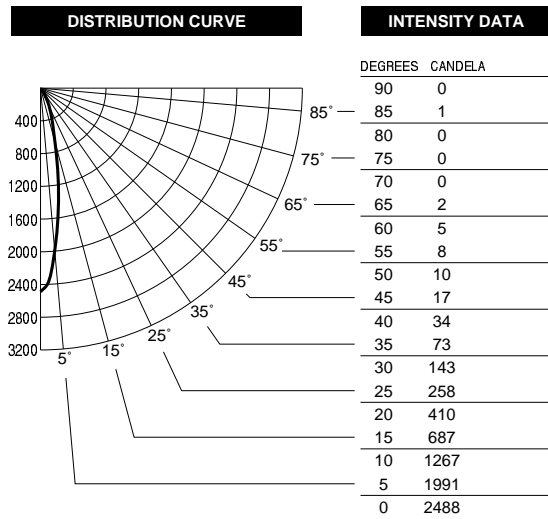
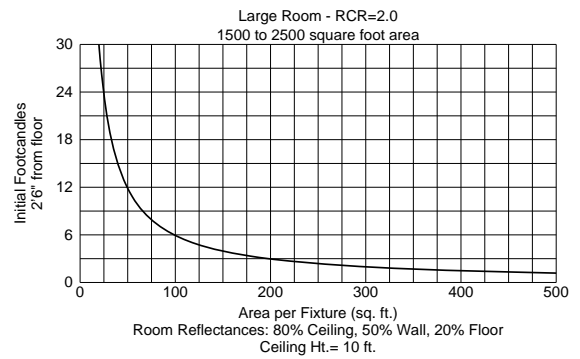
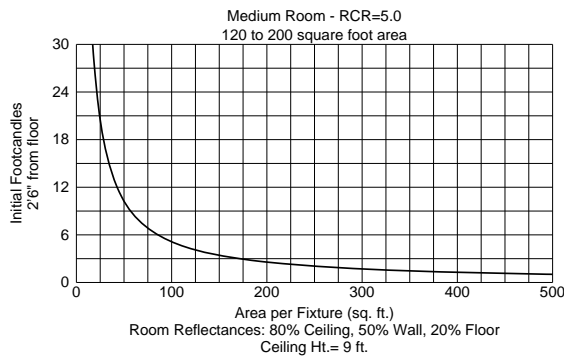
S/MH Ratio: 0.3

Single Fixture Data

Ceiling Ht.(Ft.)	10% Values		Zero Degrees Ft.-C	50% Values	
	Beam Angle - 46°			Beam Angle - 20°	
	Ft.-C	Beam Dia.		Ft.-C	Beam Dia.
8	8.2	5	82.2	41.1	2
10	4.4	6	44.2	22.1	3
12	2.8	8	27.6	13.8	3
14	1.9	10	18.8	9.4	4
16	1.4	11	13.7	6.8	5

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

Quick Calculator Charts



ZONAL CAVITY COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance 0.20

RC	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	50	30	10	50	30	10	50	30	10	50	30	10																																							
0	117	117	117	117	114	114	114	114	109	109	109	104	104	104	100	100	100	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66																						
1	112	110	108	106	110	108	106	104	104	103	101	100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60																				
2	108	104	101	98	106	102	100	97	99	97	95	97	95	93	94	92	91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56																				
3	104	99	95	92	102	98	94	91	95	92	90	93	90	88	91	89	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52																				
4	100	94	90	87	99	93	89	86	91	88	85	89	87	84	88	85	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48																				
5	97	90	86	82	95	89	85	82	88	84	81	86	83	81	85	82	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46																					
6	93	86	82	79	92	86	81	78	84	81	78	83	80	77	82	79	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42																				
7	90	83	79	75	89	83	78	75	81	78	75	80	77	74	79	76	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38																			
8	87	80	75	72	86	80	75	72	79	75	72	78	74	72	77	74	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36																			
9	85	77	73	70	84	77	73	70	76	72	69	75	72	69	75	71	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34																				
10	82	75	70	67	81	74	70	67	74	70	67	73	69	67	72	69	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32																				

P830-TG

P830-TG WITH P8043-22

Report No. 98240

No. Lamps: 1 Type Lamp: 50R20-GE Total Lumens: 410

Fixture Efficiency: 84.9%

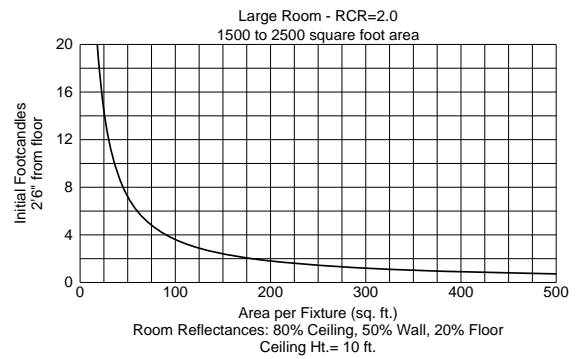
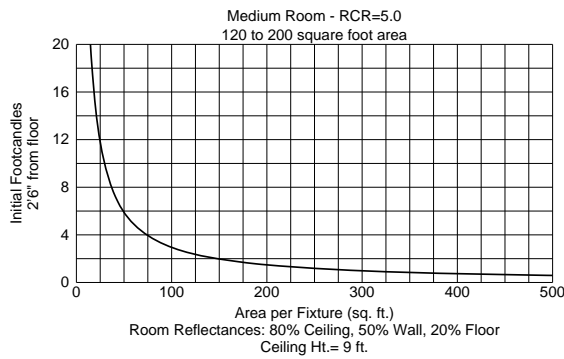
S/MH Ratio: 0.7

Single Fixture Data

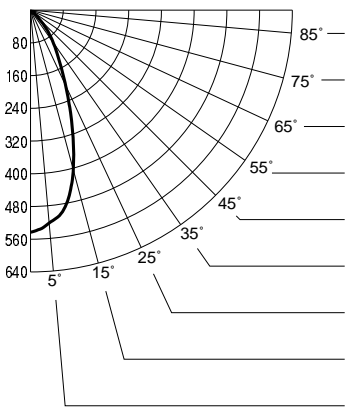
Ceiling Ht.(Ft.)	10% Values		Zero Degrees	50% Values	
	Beam Angle - 70°			Beam Angle - 38°	
	Ft.-C	Beam Dia.		Ft.-C	Beam Dia.
8	1.8	8	18.0	9.0	4
10	1.0	10	9.7	4.8	5
12	0.6	13	6.0	3.0	6
14	0.4	16	4.1	2.1	8
16	0.3	19	3.0	1.5	9

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

Quick Calculator Charts



DISTRIBUTION CURVE



INTENSITY DATA

DEGREES	CANDELA
90	0
85	0
80	0
75	1
70	1
65	2
60	4
55	6
50	11
45	30
40	64
35	97
30	138
25	203
20	296
15	404
10	488
5	522
0	543

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	50	30	10	50	30	10	50	30	10
0	101	101	101	101	98	98	98	98	94	94	94	90	90	90	86	86	86	85	85	85	85	85	85	85	85	85	85	85	
1	96	94	92	90	94	92	90	89	89	87	86	86	84	83	83	82	81	79	79	77	75	74	74	74	74	74	74	74	
2	92	88	84	81	90	86	83	81	83	81	79	81	79	77	79	77	75	74	74	72	71	69	69	69	69	69	69	69	
3	87	82	78	75	85	81	77	74	79	75	73	76	74	72	75	72	71	69	69	67	66	65	65	65	65	65	65	65	
4	83	77	72	69	81	76	72	68	74	70	68	72	69	67	71	68	66	65	65	63	62	61	61	61	61	61	61	61	
5	79	72	67	64	78	71	67	64	70	66	63	68	65	62	67	64	62	61	61	59	58	57	57	57	57	57	57	57	
6	75	68	63	60	74	67	63	59	66	62	59	65	61	59	64	61	58	57	57	55	54	53	53	53	53	53	53	53	
7	72	64	59	56	71	64	59	56	63	58	55	62	58	55	61	57	55	54	54	52	51	50	50	50	50	50	50	50	
8	69	61	56	53	68	60	56	53	59	55	52	59	55	52	58	54	52	51	51	49	48	47	47	47	47	47	47	47	
9	66	58	53	50	65	57	53	50	57	52	49	56	52	49	55	52	49	48	48	46	45	44	44	44	44	44	44	44	
10	63	55	50	47	62	55	50	47	54	50	47	53	49	47	53	49	47	46	46	44	43	42	42	42	42	42	42	42	

