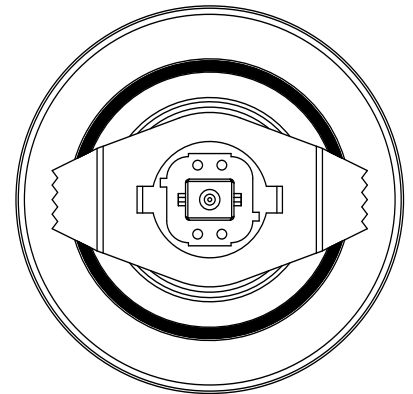
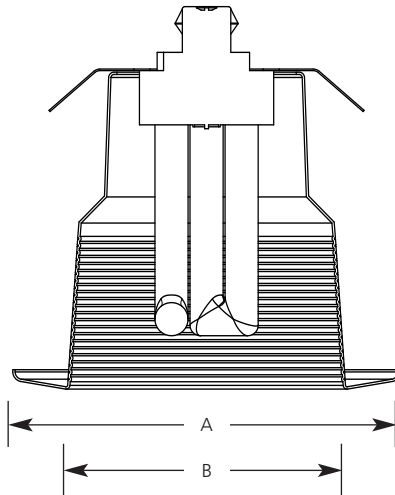


Type _____
 -28 -31 -20 -36
 P8144

Catalog No.	Finish				Dimensions (Inches)	
	White	Black	Antique Bronze	Chestnut	A	B
P8144	-28	-31	-20	-36	5	3-1/2



Lamp Wattage

Housing	IC	Non-IC
P830-13ICAT	13w 4-Pin Triple tube CF	Same as IC
P830-18ICAT	18w 4-Pin Triple tube CF	Same as IC

Specifications:

Flange

- Brite white powdered painted metal flange for -28.
- Flanges are same finishes as reflector for -20 and -36
- No light leaks around trim flange
- Covers irregular ceiling openings

Trim

- One piece aluminum construction
- Push-in leaf spring installation
- Socket mounts to trim for optimum performance and consistent lamp position
- Patented "Hurricane" leaf spring allows ease of trim removal by rotating counter-clockwise

Options

- White baffle - specify "-28" after catalog number
- Black baffle - specify "-31" after catalog number
- Chestnut baffle - specify "-36" after catalog number
- Antique Bronze baffle - specify "-20" after catalog number

Labels

- UL-CUL damp location

P830-18ICAT/P8144-31

4" RECESSED/DOWNLIGHT

Report No. 1619

No. Lamps: 1 Type Lamp: 1-CF18DT/E/IN/841 SYLVAN Total Lumens: 1200

Fixture Efficiency: 17.7%

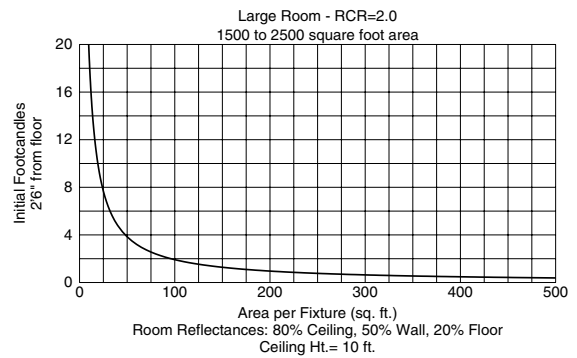
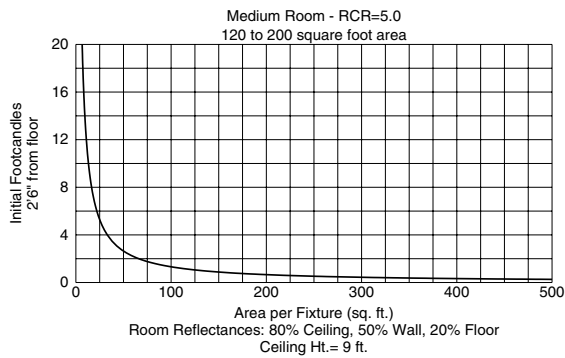
S/MH Ratio: 1.7

Single Fixture Data

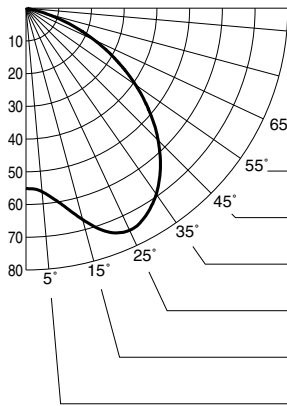
Ceiling Ht.(Ft.)	10% Values		Zero Degrees	50% Values	
	Beam Angle - 115°			Beam Angle - 81°	
	Ft.-C	Beam Dia.	Ft.-C	Ft.-C	Beam Dia.
8	0.2	17	1.8	0.9	9
10	0.1	24	1.0	0.5	13
12	0.1	30	0.6	0.3	16
14	0.0	36	0.4	0.2	20
16	0.0	43	0.3	0.2	23

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	1
75	6
70	14
65	23
60	32
55	41
50	49
45	57
40	64
35	69
30	73
25	75
20	73
15	67
10	61
5	56
0	55

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	21	21	21	21	21	21	21	21	20	20	20	19	19	19	18	18	18	18	18	18	18
1	19	19	18	17	19	18	18	17	18	17	17	17	16	16	16	16	16	16	16	16	15
2	18	16	15	14	17	16	15	14	15	15	14	15	14	14	14	14	14	14	13	13	13
3	16	14	13	12	16	14	13	12	14	13	12	13	12	12	13	12	11	11	11	11	11
4	15	13	11	10	14	13	11	10	12	11	10	12	11	10	11	10	10	10	9	9	9
5	14	11	10	9	13	11	10	9	11	10	9	11	9	9	10	9	8	8	8	8	8
6	13	10	9	8	12	10	9	8	10	8	8	9	8	7	9	8	7	7	7	7	7
7	12	9	8	7	11	9	8	7	9	8	7	9	7	7	8	7	7	7	6	6	6
8	11	8	7	6	11	8	7	6	8	7	6	8	7	6	8	7	6	6	6	5	5
9	10	8	6	5	10	8	6	5	7	6	5	7	6	5	7	6	5	5	5	5	5
10	9	7	6	5	9	7	6	5	7	6	5	7	5	5	6	5	5	5	5	4	4

P830-18ICAT/P8144-28

4" RECESSED/DOWNLIGHT

Report No. 1618

No. Lamps: 1 Type Lamp: 1-CF18DT/E/IN/841 SYLVAN Total Lumens: 1200

Fixture Efficiency: 40.7%

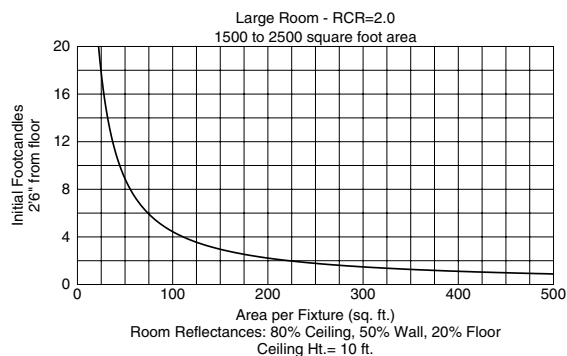
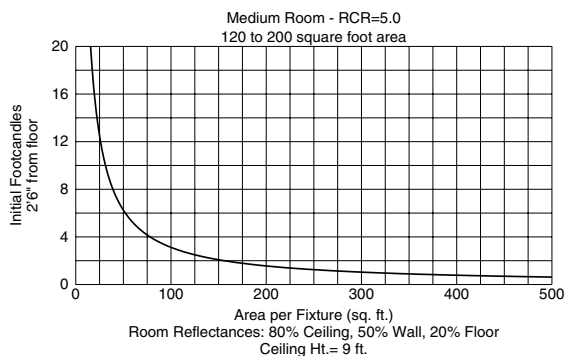
S/MH Ratio: 1.6

Single Fixture Data

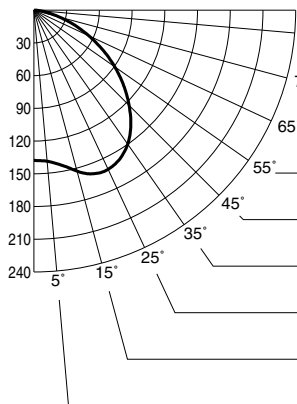
Ceiling Ht.(Ft.)	10% Values		Zero Degrees	50% Values	
	Beam Angle - 114°			Beam Angle - 77°	
	Ft.-C	Beam Dia.	Ft.-C	Ft.-C	Beam Dia.
8	0.5	17	4.6	2.3	9
10	0.2	23	2.4	1.2	12
12	0.2	29	1.5	0.8	15
14	0.1	35	1.0	0.5	18
16	0.1	41	0.8	0.4	21

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

Quick Calculator Charts



DISTRIBUTION CURVE



INTENSITY DATA

DEGREES	CANDELA
90	1
85	6
80	13
75	24
70	39
65	56
60	73
55	91
50	107
45	123
40	138
35	150
30	158
25	161
20	160
15	153
10	144
5	139
0	138

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	50	30	10
0	48	48	48	48	47	47	47	47	45	45	45	43	43	43	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41		
1	44	42	41	39	43	42	40	39	40	39	37	38	37	36	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22		
2	40	37	34	32	39	36	34	32	35	33	31	34	32	30	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17		
3	37	33	29	27	36	32	29	27	31	28	26	30	27	26	29	27	25	24	23	22	21	20	19	18	17	16	15	14	13	12		
4	34	29	25	23	33	28	25	23	27	24	22	26	24	22	26	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9		
5	31	26	22	19	30	25	22	19	24	21	19	24	21	19	23	21	19	18	17	16	15	14	13	12	11	10	9	8	7	6		
6	29	23	20	17	28	23	19	17	22	19	17	21	19	17	21	18	16	15	14	13	12	11	10	9	8	7	6	5	4	3		
7	26	21	17	15	26	21	17	15	20	17	15	19	17	15	19	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2		
8	25	19	16	13	24	19	15	13	18	15	13	18	15	13	17	15	13	12	11	10	9	8	7	6	5	4	3	2	1	0		
9	23	17	14	12	22	17	14	12	17	14	12	16	14	12	16	13	12	11	10	9	8	7	6	5	4	3	2	1	0	0		
10	21	16	13	11	21	16	13	11	15	13	11	15	12	11	15	12	10	9	8	7	6	5	4	3	2	1	0	0	0	0		