Incandescent

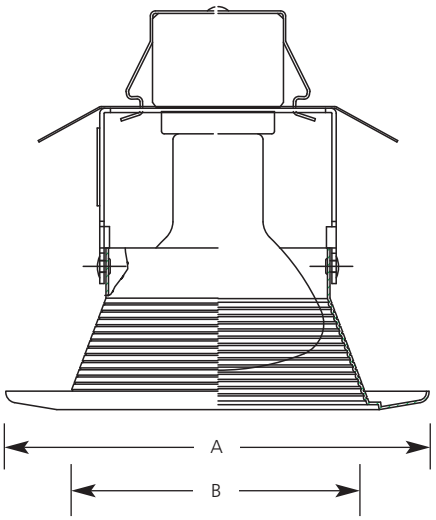
4" Step Baffle IC & Non-IC

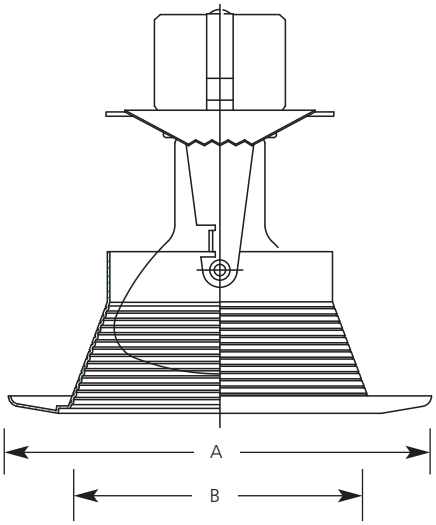
Recessed

Type _____

	-09	-20	-28	-31	-36
P8037	☐	☐	☐	☐	☐

	Finish					Dimensions (Inches)	
Catalog No.	Brushed Nickel	Antique Bronze	White	Black	Chestnut	A	B
P8044	-09	-20	-28	-31	-36	5	3-1/2





Lamp Wattage

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

Specifications:

Flange

- White powder coated flange on white (-28) and black (-31) trims
- Brushed nickel (-09), antique bronze (-20), and chestnut (-36) have unpainted flanges that match the baffle finish
- No light leaks around trim flange
- Covers irregular ceiling openings

Trim

- Push-in leaf spring action forces trim to fit snugly against the ceiling
- Patented "Hurricane" leaf spring allows ease of trim removal by rotating counter-clockwise.

Trim con't

- Socket mounts to trim for optimum performance and consistent lamp position
- Steel construction

Options

- White (-28), black (-31), or chestnut (-36) painted finishes
- Brushed nickel (-09) or antique bronze (-20) plated finishes

Labels

- UL-CUL damp location listed

Progress Lighting
701 Millennium Blvd.
Greenville, South Carolina
29607

www.progresslighting.com

Rev. 6/09

P830-TG

P830-TG WITH P8044-28

Report No. 98256

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

Fixture Efficiency: 93.4%

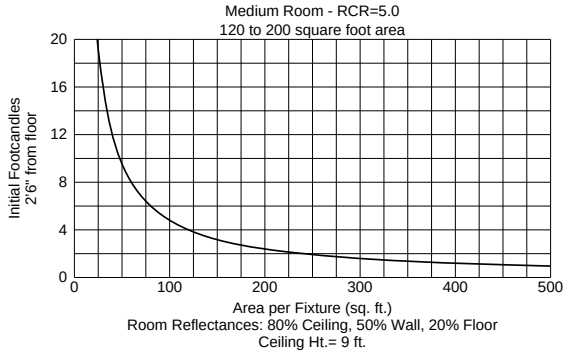
S/MH Ratio: 0.3

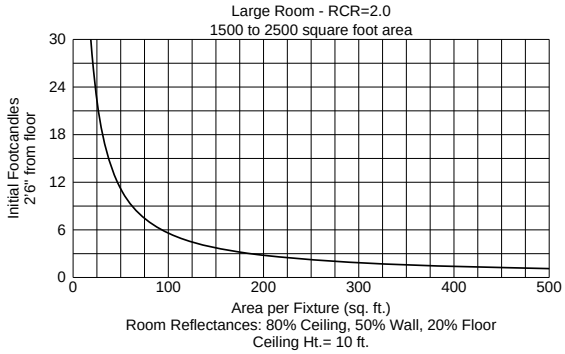
Single Fixture Data

Ceiling Ht.(Ft.)	10% Values Beam Angle - 47° Ft.-C	10% Values Beam Angle - 47° Beam Dia.	Zero Degrees Ft.-C	50% Values Beam Angle - 19° Ft.-C	50% Values Beam Angle - 19° Beam Dia.
8	7.6	5	75.5	37.8	2
10	4.1	6	40.6	20.3	3
12	2.5	8	25.3	12.7	3
14	1.7	10	17.3	8.6	4
16	1.3	12	12.5	6.3	5

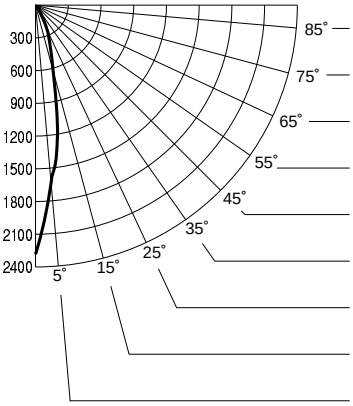
Ft.-C (Footcandles) are initial and measured 2'-6" from floor

Quick Calculator Charts





DISTRIBUTION CURVE



INTENSITY DATA

DEGREES	CANDELA
90	0
85	1
80	2
75	4
70	6
65	8
60	11
55	14
50	17
45	22
40	35
35	69
30	132
25	254
20	392
15	627
10	1161
5	1632
0	2285

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	0
0	111	111	111	111	108	108	108	108	104	104	104	99	99	99	95	95	95	93
1	106	104	102	100	104	102	100	98	98	97	95	95	94	92	92	91	90	88
2	102	98	94	92	100	96	93	91	93	91	89	90	88	87	88	86	85	83
3	98	92	88	85	96	91	87	84	89	86	83	87	84	82	85	82	81	79
4	94	88	83	80	92	87	83	79	85	81	78	83	80	78	81	79	77	75
5	90	84	79	75	89	83	78	75	81	77	75	80	76	74	78	75	73	72
6	87	80	75	72	86	79	75	72	78	74	71	77	73	71	75	72	70	69
7	84	77	72	69	83	76	72	68	75	71	68	74	70	68	73	70	67	66
8	81	74	69	66	80	73	69	66	72	68	65	71	68	65	70	67	65	64
9	78	71	66	63	77	70	66	63	70	66	63	69	65	63	68	65	62	61
10	76	68	64	61	75	68	64	61	67	63	61	67	63	60	66	63	60	59

P830-TG

P830-TG WITH P8044-28

Report No. 98257

No. Lamps: 1 Type Lamp: 50PAR20/NFL-SYLVANIA Total Lumens: 530

Fixture Efficiency: 91.1%

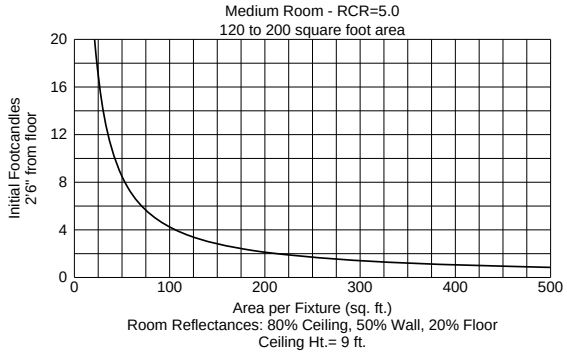
S/MH Ratio: 0.5

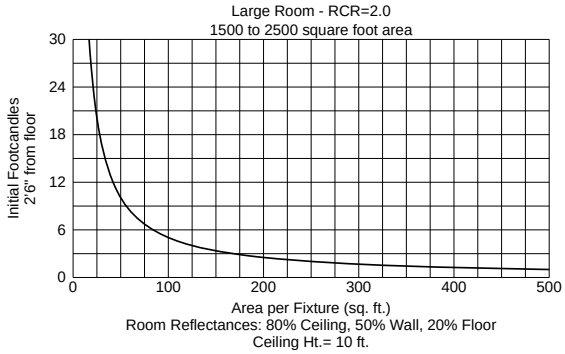
Single Fixture Data

Ceiling Ht.(Ft.)	10% Values Beam Angle - 53° Ft.-C	10% Values Beam Angle - 53° Beam Dia.	Zero Degrees Ft.-C	50% Values Beam Angle - 28° Ft.-C	50% Values Beam Angle - 28° Beam Dia.
8	4.4	5	43.7	21.8	3
10	2.3	7	23.5	11.7	4
12	1.5	9	14.6	7.3	5
14	1.0	11	10.0	5.0	6
16	0.7	13	7.2	3.6	7

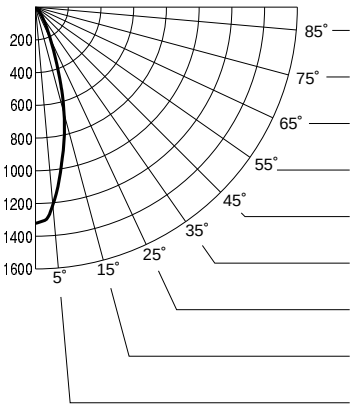
Ft.-C (Footcandles) are initial and measured 2'-6" from floor

Quick Calculator Charts





DISTRIBUTION CURVE



INTENSITY DATA

DEGREES	CANDELA
90	0
85	1
80	2
75	4
70	6
65	8
60	11
55	13
50	16
45	21
40	38
35	72
30	125
25	217
20	396
15	675
10	939
5	1214
0	1321

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	0
0	108	108	108	108	106	106	106	106	101	101	101	97	97	97	93	93	93	91
1	104	101	99	97	101	99	97	96	96	94	93	92	91	90	89	88	87	86
2	99	95	92	89	97	93	90	88	91	88	86	88	86	84	85	84	82	81
3	95	90	85	82	93	88	84	81	86	83	80	84	81	79	82	80	78	76
4	91	85	80	77	89	84	79	76	82	78	75	80	77	75	78	76	74	72
5	87	80	76	72	86	80	75	72	78	74	71	77	73	71	75	72	70	69
6	84	77	72	68	83	76	71	68	75	71	68	73	70	67	72	69	67	66
7	81	73	68	65	79	73	68	65	72	68	65	71	67	64	70	66	64	63
8	78	70	65	62	77	70	65	62	69	65	62	68	64	62	67	64	61	60
9	75	67	63	60	74	67	62	59	66	62	59	65	62	59	65	61	59	58
10	72	65	60	57	71	64	60	57	64	60	57	63	59	57	62	59	57	56

P830-TG

P830-TG WITH P8044-28

Report No. 98244

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

Fixture Efficiency: 84.0%

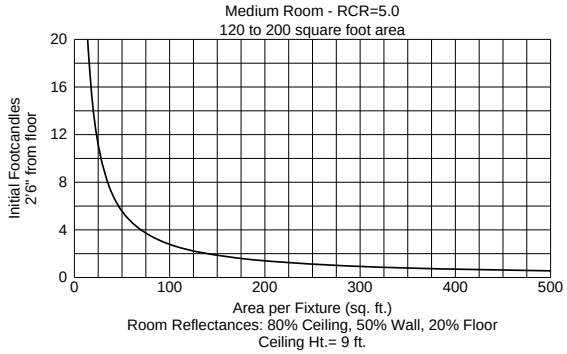
S/MH Ratio: 0.8

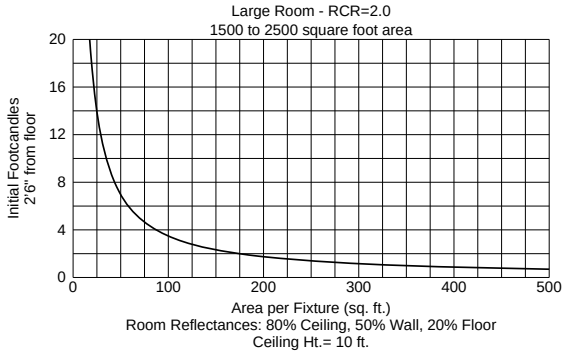
Single Fixture Data

Ceiling Ht.(Ft.)	10% Values Beam Angle - 76° Ft.-C	10% Values Beam Angle - 76° Beam Dia.	Zero Degrees Ft.-C	50% Values Beam Angle - 42° Ft.-C	50% Values Beam Angle - 42° Beam Dia.
8	1.4	9	13.7	6.8	4
10	0.7	12	7.4	3.7	6
12	0.5	15	4.6	2.3	7
14	0.3	18	3.1	1.6	9
16	0.2	21	2.3	1.1	10

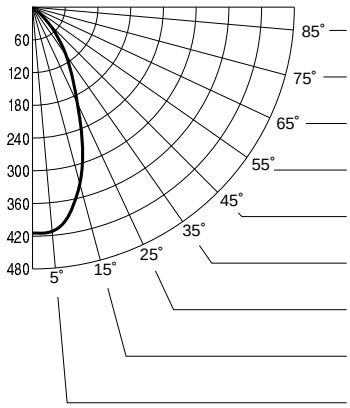
Ft.-C (Footcandles) are initial and measured 2'-6" from floor

Quick Calculator Charts





DISTRIBUTION CURVE



INTENSITY DATA

DEGREES	CANDELA
90	0
85	1
80	3
75	4
70	6
65	8
60	10
55	12
50	16
45	42
40	72
35	107
30	145
25	195
20	268
15	335
10	386
5	412
0	414

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	0
0	100	100	100	100	98	98	98	98	94	94	94	90	90	90	86	86	86	84
1	95	93	90	88	93	91	89	87	87	86	84	84	83	82	81	80	79	78
2	90	85	82	78	88	84	81	78	81	78	76	79	76	74	76	74	73	71
3	85	79	74	71	83	78	74	70	76	72	69	74	71	68	72	69	67	66
4	80	73	68	65	79	72	68	64	71	67	63	69	65	63	67	64	62	61
5	76	68	63	59	75	68	63	59	66	62	58	65	61	58	63	60	57	56
6	72	64	59	55	71	63	58	55	62	58	54	61	57	54	60	56	54	52
7	68	60	55	51	67	60	54	51	58	54	51	57	53	50	56	53	50	49
8	65	57	51	48	64	56	51	48	55	51	47	54	50	47	53	50	47	46
9	62	53	48	45	61	53	48	45	52	48	44	51	47	44	51	47	44	43
10	59	50	45	42	58	50	45	42	49	45	42	49	45	42	48	44	42	40

P830-TG

P830-TG WITH P8044-31

Report No. 98246

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

Fixture Efficiency: 85.5%

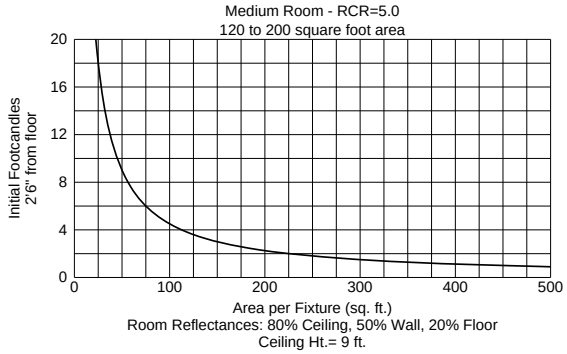
S/MH Ratio: 0.4

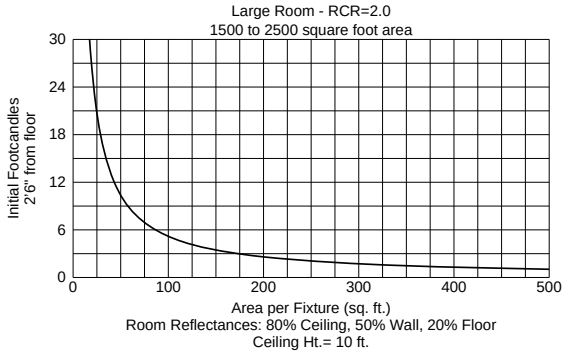
Single Fixture Data

Ceiling Ht.(Ft.)	10% Values Beam Angle - 51˚ Ft.-C	10% Values Beam Angle - 51˚ Beam Dia.	Zero Degrees Ft.-C	50% Values Beam Angle - 24˚ Ft.-C	50% Values Beam Angle - 24˚ Beam Dia.
8	5.6	5	56.2	28.1	2
10	3.0	7	30.2	15.1	3
12	1.9	9	18.8	9.4	4
14	1.3	11	12.8	6.4	5
16	0.9	13	9.3	4.7	6

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

Quick Calculator Charts





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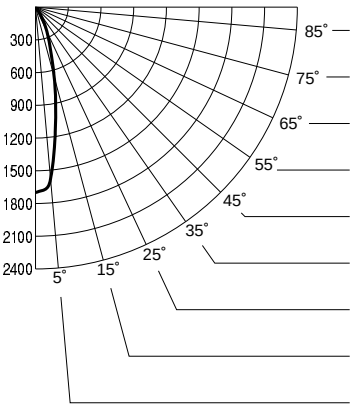


INTENSITY DATA

DEGREES	CANDELA
90	0
85	0
80	0
75	0
70	0
65	0
60	2
55	3
50	6
45	12
40	27
35	66
30	139
25	244
20	395
15	661
10	1060
5	1583
0	1699

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	0
0	102	102	102	102	99	99	99	99	95	95	95	91	91	91	87	87	87	85
1	98	96	94	93	96	94	93	91	91	89	88	88	87	86	85	84	83	82
2	94	91	88	86	92	89	87	85	87	85	83	84	83	81	82	81	79	78
3	91	86	83	80	89	85	82	79	83	80	78	81	79	77	79	77	76	75
4	87	82	78	76	86	81	78	75	80	77	74	78	75	73	76	74	73	71
5	84	79	75	72	83	78	74	71	76	73	71	75	72	70	74	71	70	69
6	81	75	71	68	80	75	71	68	73	70	68	72	69	67	71	69	67	66
7	78	72	68	65	77	72	68	65	71	67	65	70	67	64	69	66	64	63
8	76	69	65	63	75	69	65	63	68	65	62	67	64	62	67	64	62	61
9	73	67	63	60	73	66	63	60	66	62	60	65	62	60	64	62	60	59
10	71	64	61	58	70	64	60	58	64	60	58	63	60	58	62	60	58	57

P830-TG

P830-TG WITH P8044-31

Report No. 98245

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

Fixture Efficiency: 73.0%

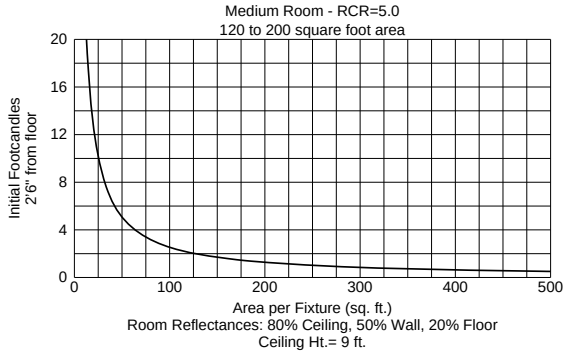
S/MH Ratio: 0.7

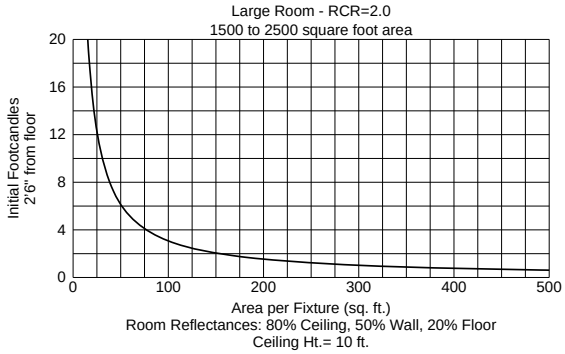
Single Fixture Data

Ceiling Ht.(Ft.)	10% Values Beam Angle - 74˚ Ft.-C	10% Values Beam Angle - 74˚ Beam Dia.	Zero Degrees Ft.-C	50% Values Beam Angle - 41˚ Ft.-C	50% Values Beam Angle - 41˚ Beam Dia.
8	1.3	8	13.4	6.7	4
10	0.7	11	7.2	3.6	6
12	0.4	14	4.5	2.2	7
14	0.3	17	3.1	1.5	9
16	0.2	20	2.2	1.1	10

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

Quick Calculator Charts





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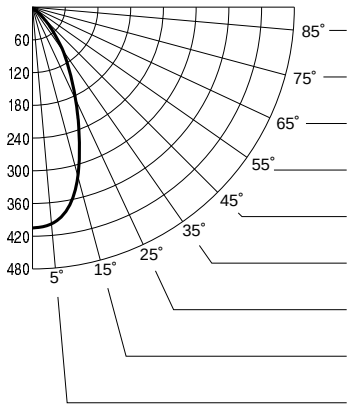

INTENSITY DATA

DEGREES	CANDELA
90	0
85	0
80	0
75	1
70	1
65	2
60	3
55	4
50	6
45	29
40	59
35	97
30	136
25	187
20	251
15	321
10	374
5	399
0	405

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	0
0	87	87	87	87	85	85	85	85	81	81	81	78	78	78	75	75	75	73
1	83	81	79	78	81	79	78	76	77	75	74	74	73	72	71	71	70	68
2	79	75	73	70	77	74	72	69	72	70	68	70	68	66	68	66	65	64
3	75	70	67	64	74	69	66	63	68	65	62	66	63	61	64	62	61	59
4	71	66	62	59	70	65	61	59	64	60	58	62	59	57	61	58	57	55
5	68	62	58	55	67	61	57	54	60	56	54	59	56	53	58	55	53	52
6	65	58	54	51	63	58	54	51	56	53	50	55	52	50	54	52	50	48
7	61	55	50	47	60	54	50	47	53	50	47	52	49	47	52	49	47	46
8	59	52	47	44	58	51	47	44	51	47	44	50	46	44	49	46	44	43
9	56	49	45	42	55	49	45	42	48	44	42	47	44	41	47	44	41	40
10	53	46	42	39	53	46	42	39	46	42	39	45	42	39	44	41	39	38