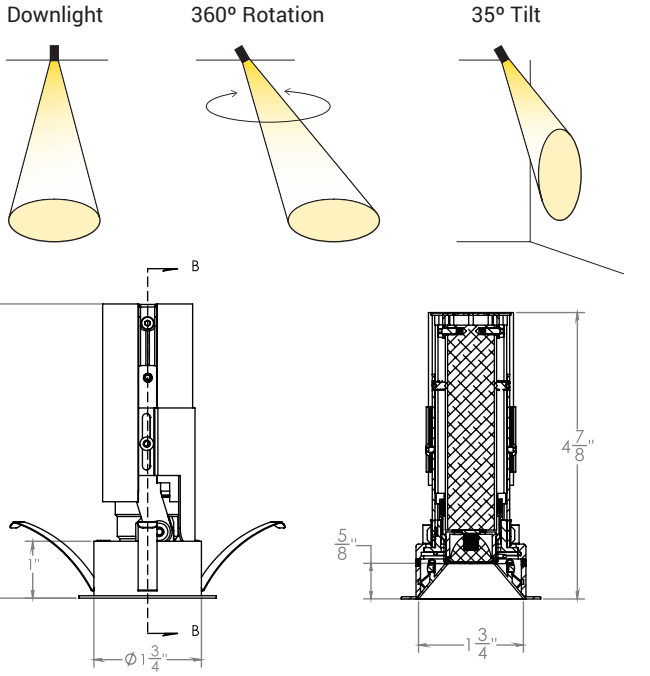
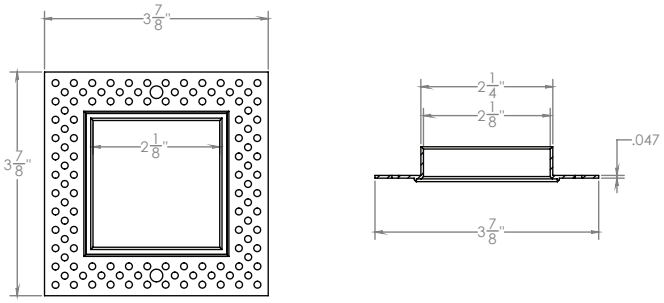
elite LED LIGHTING
By Elite Lighting

A1S-TL-1102-LED

1" Square LED Trim-less Adjustable and Fixed Downlight

1"





VERTICAL ADJUSTMENT

Slide upper module up and down to achieve exact desired beam angle from narrow to wide distribution. Alternatively, an Allen wrench is provided with the fixture, which decreases the height of the upper module for a wider distribution. Twisting the captive screws counterclockwise increases the height of the upper module for a narrower distribution.

TOOL-LESS HOT AIMING

Achieve full 35-degree tilt and 360-degree rotation and can be securely locked into place on reaching desired position.

SHIELDING

Once tilt, rotation, and beam angle are adjusted and locked in place, shielding of the LEDs can be adjusted to prevent light loss and enhance directional aiming.

TRIMS

Round, square and wall wash trims available.

LUMENS	800, 1000
CCT	27K, 30K, 35K, 40K, 50K
CRI	90
COLOR QUALITY	2 Step MacAdam Ellipse
OPTIC	MD (Medium) *Consult factory for narrow or wide distribution
FINISH	Chrome, White
DIMMING	DIM10 (0-10V dimming), DIMTR (Triac & Electronic low voltage dimming. Available in 120V only)
SHAPE	Round (Flanged, Trim-less) Square (Flanged, Trim-less)
PHOTOMETRIC TESTS	In Accordance with IES LM79 and LM80

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
800	861	10W
1000	1007	14W

Based on 3000K, 90+ CRI. Actual wattage may vary +/- 5%

c UL us LISTED

5 YEARS LIMITED WARRANTY

DIMMABLE 0-10V DIMMING

TRIM OPTIONS (Select only one)

A1S-F-1102-LED -
1" Square Flanged LED
Adjustable and Fixed
Downlight

A1S-TL-1102-LED -
1" Square Trimless LED
Adjustable and Fixed
Downlight

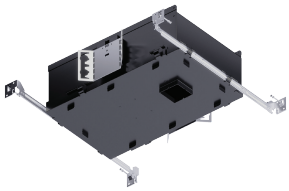
Example: **A1S-F-1102-LED-800L-MD-30K-90-CL-WH**

SERIES	PERFORMANCE	DISTRIBUTION	CCT	CRI	FINISH
A1S-F-1102-LED **A1S-TL-1102-LED**	**800L** - 800 lumens **1000L** - 1000 lumens	**MD** - Medium *Consult factory for narrow or wide distribution	**27K** - 2700K **30K** - 3000K **35K** - 3500K **40K** - 4000K **50K** - 5000K	**90** - 90 CRI	**CL** - Chrome **WH** - White

800L - only 10W new construction and remodel housing
1000L - only 15W new construction and remodel housing

HOUSING OPTIONS (Select only one)

IC NEW CONSTRUCTION



Example: **A1S-LED-IC-10W-DIM10-MVOLT-BP30**

POWER PACK	DIMMING	VOLTAGE	DRIVER
A1S-LED-IC-10W- For 800L Lumens **A1S-LED-IC-15W**- For 1000 Lumens	**DIM10** **DIMTR** - Triac (120V only)	**120** **277** **MVOLT** DIMTR - only 120V	**BP30**

NON-IC REMODEL/ NEW CONSTRUCTION

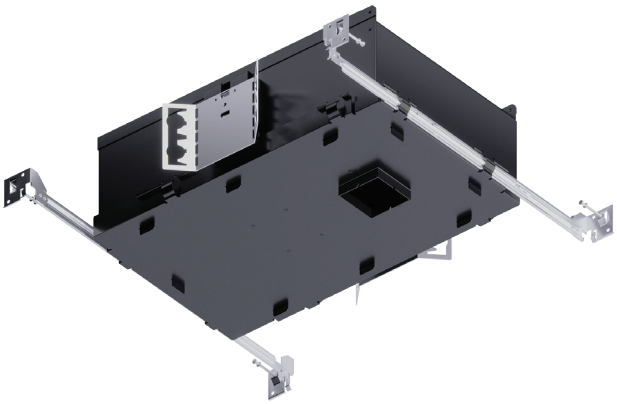
Example: **A1S-LED-R-10W-DIM10-MVOLT-BP30**

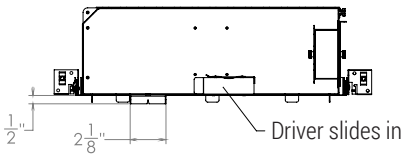
POWER PACK	DIMMING	VOLTAGE	DRIVER
A1S-LED-R-10W - For 800 Lumens **A1S-LED-R-15W** - For 1000 Lumens	**DIM10** - 0-10V **DIMTR** - Triac (120V only)	**120** **277** **MVOLT** DIMTR - only 120V	**BP30**

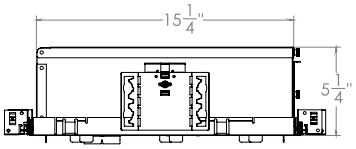
A1S-LED-IC

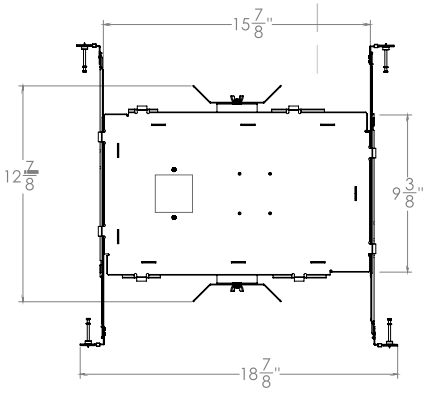
IC Housing for 1" Round LED Adjustable and Fixed Downlight

1"









NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
800	861	10W
1000	1007	14W

Based on 3000K, 90+ CRI. Actual wattage may vary +/- 5%

IC HOUSING

Thermally protected, specification grade adjustable recessed housing. For new contruction insulated ceilings where housing will be in direct contact with insulation. Die-formed all aluminum construction matte black painted for maximum heat dissipation, rust protection and glare free illumination.

ELECTRICAL/TRANSFORMER

Junction box and driver can be accessed from below the ceiling and above the ceiling. Junction box is listed for through branch circuit wiring,12 AWG 90º C supply conductors, and has four 1/2" KOs, one 3/4" KO and four Romex knockouts with true pry-out slots and strain clamps.

DIMMING & DRIVER INFORMATION
DIM10 - 0-10V dimming on either MVOLT 120V or 277V. Dimmable down to 5% of initial lumens, standard.
DIMTR - Triac & Electronic low voltage dimming. Available in 120V only.

ACCESSIBLE DRIVER

Driver is connected to wire, which is attached to body of luminaire. Driver is housed within the housing, and can be accessed from below the ceiling by a simple pull-down mechanism

MOUNTING

Pre-installed bar hangers allow housing to be positioned and locked at any point within a 24" joist span. They can be positioned on either the long or short axis of the housing and can be shortened for 12" joists. A double-headed real nail attaches housing securely into the joist. Bar hanger nails are installed on a 20º downward angle for better contact, and the 90º pivoting mounting plate makes installation fast and accurate. Bar hangers can fit onto T-Bar spline with additional slots and holes for special mounting methods if necessary. 18-gauge steel butterfly brackets can be adjusted vertically. Butterfly brackets may be installed with 3/4" or 1-1/2" lathing channel, 1/2" EMT, or optional C-Channel mounting bars are available.

LABELS

c-UL-us liste for damp location
c-UL-us liste for feed through wiring
c-UL-us liste for direct contact with insulation

WARRANTY

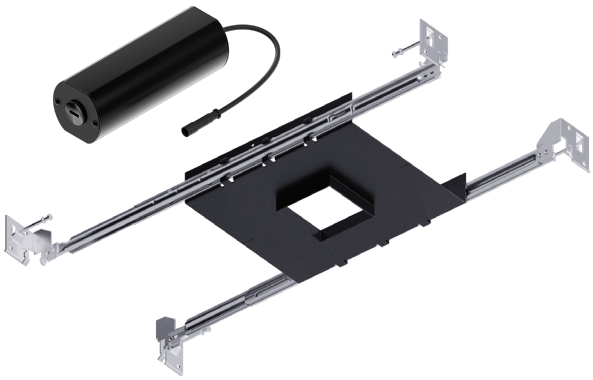
5-year limited warranty for parts and components (labor not included).

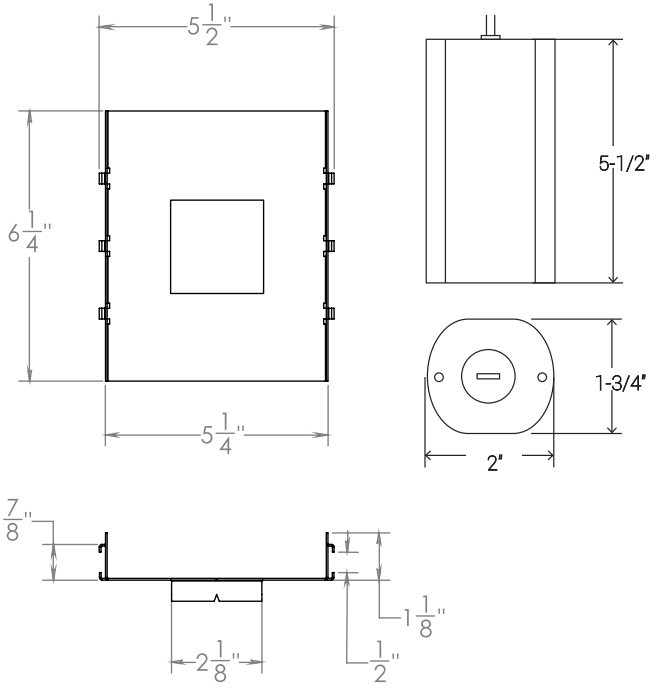
LUMENS	800 - **A1S-LED-IC-10W** 1000 - **A1S-LED-IC-15W**
DIMMING	DIM10 (0-10V dimming),DIMTR (Triac-120V only)
VOLTAGE	120V, 277V, MVOLT

c UL us LISTED
5 YEARS LIMITED WARRANTY
DIMMABLE 0-10V DIMMING

A1S-LED-R 1"

For New Construction Non-IC Housing Mounting Tray for 1" Square LED Adjustable and Fixed Downlight





NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
800	861	10W
1000	1007	14W

Based on 3000K, 90+ CRI. Actual wattage may vary +/- 5%

IC HOUSING

Thermally protected, specification grade adjustable recessed housing. For new contruction insulated ceilings where housing will be in direct contact with insulation. Die-formed all aluminum construction matte black painted for maximum heat dissipation, rust protection and glare free illumination.

ELECTRICAL/TRANSFORMER

Junction box and driver can be accessed from below the ceiling and above the ceiling. Junction box is listed for through branch circuit wiring,12 AWG 90º C supply conductors, and has four 1/2" KOs, one 3/4" KO and four Romex knockouts with true pry-out slots and strain clamps.

DIMMING & DRIVER INFORMATION
DIM10 - 0-10V dimming on either MVOLT 120V or 277V. Dimmable down to 5% of initial lumens, standard.
DIMTR - Triac & Electronic low voltage dimming. Available in 120V only.

ACCESSIBLE DRIVER

Driver is connected to wire, which is attached to body of luminaire. Driver is housed within the housing, and can be accessed from below the ceiling by a simple pull-down mechanism

MOUNTING

Pre-installed bar hangers allow housing to be positioned and locked at any point within a 24" joist span. They can be positioned on either the long or short axis of the housing and can be shortened for 12" joists. A double-headed real nail attaches housing securely into the joist. Bar hanger nails are installed on a 20º downward angle for better contact, and the 90º pivoting mounting plate makes installation fast and accurate. Bar hangers can fit onto T-Bar spline with additional slots and holes for special mounting methods if necessary. 18-gauge steel butterfly brackets can be adjusted vertically. Butterfly brackets may be installed with 3/4" or 1-1/2" lathing channel, 1/2" EMT, or optional C-Channel mounting bars are available.

LABELS

c-UL-us listed for damp location
c-UL-us listed for feed through wiring
c-UL-us listed for direct contact with insulation

WARRANTY

5-year limited warranty for parts and components (labor not included).

LUMENS	800 - **A1S-LED-R-10W** 1000 - **A1S-LED-R-15W**
DIMMING	DIM10 (0-10V dimming),DIMTR (Triac-120V only)
VOLTAGE	120V, 277V, MVOLT

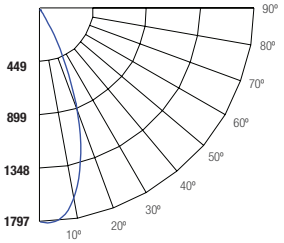
c UL us LISTED
5 YEARS LIMITED WARRANTY
DIMMABLE 0-10V DIMMING

A1S-TL-1102-LED-800L-DIM10-120-MD-30K-90-CL

TEST NO.: EL05112058

INPUT WATTS: **10.5** LUMENS: **861** CRI: **90** EFFICACY: **81** CCT: **3000K** SPACING CRITERIA: **0.66**

Candle Power Distribution (Candelas)



Cone of Light			
2	620	1.3	1.3
3	164	2.6	2.6
5	71.6	3.9	3.9
7	39.9	5.2	5.2
8	26.0	6.4	6.4
10	17.9	7.7	7.7
(FT.)Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	530.8	61.7	61.7
0-30	800.81	93.1	93.1
0-40	855.06	99.4	99.4
0-60	859.39	99.9	99.9
0-80	859.64	99.9	99.9
0-90	859.65	99.9	99.9

Luminance (Average candela/M^2)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	1254	1428	1631
55	519	597	746
65	227	154	16
75	13	13	13
85	39	39	39

Lumens Per Zone

Zone	Lumens
0-10	162.45
10-20	368.35
20-30	270.01
30-40	54.26
40-50	3.12
50-60	1.21
60-70	0.22
70-80	0.03
80-90	0.01

Candela Tabulation

	0
0	1790.43
5	1753.59
15	1350.57
25	579.58
35	54.49
45	2.59
55	0.87
65	0.28
75	0.01
85	0.01
90	0.01

Coefficients of Utilization - Zonal Cavity Method

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	103	100	108	104	101	99	101	99	96	98	96	94	95	94	92	91
3	106	100	96	93	104	99	95	92	97	93	91	94	92	89	92	90	88	87
4	102	96	91	88	100	94	90	87	92	89	86	90	87	85	89	86	84	83
5	98	91	86	83	96	90	86	82	88	85	82	87	84	81	85	83	80	79
6	94	87	82	79	93	86	82	78	85	81	78	83	80	77	82	79	77	76
7	91	83	78	75	90	83	78	75	81	77	74	80	77	74	79	76	74	72
8	87	80	75	71	86	79	75	71	78	74	71	77	73	71	76	73	70	69
9	84	76	72	68	83	76	71	68	75	71	68	74	71	68	74	70	68	67
10	81	73	69	66	80	73	68	65	72	68	65	72	68	65	71	67	65	64

ROOM CAVITY RATIO

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

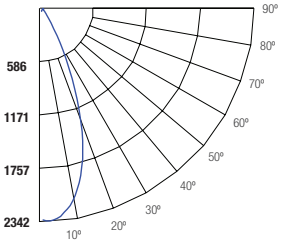
RC - Ceiling Cavity Reflectance RW - Wall Reflectance

A1S-TL-1102-LED-1000L-DIM10-120-MD-30K-90-CL

TEST NO.: EL05112058

INPUT WATTS: **14.4** LUMENS: **1007** CRI: **90** EFFICACY: **76** CCT: **3000K** SPACING CRITERIA: **0.66**

Candle Power Distribution (Candelas)



Cone of Light			
2	808	1.3	1.3
3	214	2.5	2.6
5	93.4	3.8	3.9
7	50.4	5.1	5.2
8	33.9	6.3	6.4
10	23.3	7.6	7.8
(FT.)Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	692.04	62.5	62.5
0-30	1033.71	93.3	93.3
0-40	1098.33	99.2	99.2
0-60	1105.88	99.9	99.9
0-80	1106.31	99.9	99.9
0-90	1106.32	99.9	99.9

Luminance (Average candela/M^2)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	3892	3950	3156
55	2524	2372	1665
65	275	300	113
75	13	13	26
85	39	39	39

Lumens Per Zone

Zone	Lumens
0-10	212.42
10-20	479.62
20-30	341.67
30-40	64.61
40-50	5.36
50-60	2.2
60-70	0.38
70-80	0.04
80-90	0.01

Candela Tabulation

	0
0	2333.92
5	2266.09
15	1654.85
25	634.72
35	56.39
45	8.04
55	4.23
65	0.34
75	0.01
85	0.01
90	0.01

Coefficients of Utilization - Zonal Cavity Method

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	103	100	108	104	101	99	101	99	97	98	96	94	96	94	93	91
3	106	101	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87
4	102	96	91	88	100	95	90	87	92	89	86	91	88	85	89	86	84	83
5	98	91	86	83	96	90	86	83	89	85	82	87	84	81	86	83	80	79
6	94	87	82	79	93	86	82	79	85	81	78	84	80	77	82	79	77	76
7	91	83	78	75	90	83	78	75	82	77	74	80	77	74	79	76	74	73
8	88	80	75	72	87	79	75	72	78	74	71	77	74	71	77	73	71	70
9	84	77	72	69	84	76	72	69	75	71	68	75	71	68	74	70	68	67
10	82	74	69	66	81	73	69	66	73	68	66	72	68	65	71	68	65	64

ROOM CAVITY RATIO

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

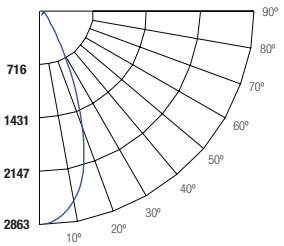
RC - Ceiling Cavity Reflectance RW - Wall Reflectance

A1S-TL-1102-LED-1200L-DIM10-120-MD-30K-90-CL

TEST NO.: EL05112058

INPUT WATTS: **18.8** LUMENS: **1361** CRI: **90** EFFICACY: **72** CCT: **3000K** SPACING CRITERIA: **0.66**

Candle Power Distribution (Candelas)



Cone of Light			
2	985	1.3	1.3
3	261	2.5	2.6
5	114	3.8	3.9
7	63.4	5.1	5.2
8	41.3	6.4	6.5
10	28.5	7.7	7.8
(FT.)Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	845.21	62.1	62.1
0-30	1266.26	93	93
0-40	1350.45	99.2	99.2
0-60	1359.38	99.9	99.9
0-80	1359.89	99.9	99.9
0-90	1359.91	99.9	99.9

Luminance (Average candela/M^2)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	4342	4628	4115
55	1438	2912	2292
65	292	381	275
75	13	20	13
85	39	39	39

Lumens Per Zone

Zone	Lumens
0-10	259.2
10-20	586.01
20-30	421.04
30-40	84.2
40-50	6.43
50-60	2.5
60-70	0.46
70-80	0.05
80-90	0.02

Candela Tabulation

	0
0	2846.18
5	2760.65
15	2008.66
25	738.49
35	56.49
45	8.97
55	2.41
65	0.36
75	0.01
85	0.01
90	0.01

Coefficients of Utilization - Zonal Cavity Method

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	103	100	108	104	101	99	101	99	96	98	96	94	95	94	92	91
3	106	100	96	93	104	99	95	92	97	93	91	94	92	90	92	90	88	87
4	102	96	91	88	100	94	90	87	92	89	86	91	88	85	89	86	84	83
5	98	91	86	83	96	90	86	82	89	85	82	87	84	81	85	83	80	79
6	94	87	82	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76
7	91	83	78	75	90	83	78	75	81	77	74	80	77	74	79	76	74	72
8	87	80	75	72	86	79	75	71	78	74	71	77	74	71	76	73	71	69
9	84	77	72	68	83	76	71	68	75	71	68	74	71	68	74	70	68	67
10	81	74	69	66	81	73	69	66	72	68	65	72	68	65	71	68	65	64

ROOM CAVITY RATIO

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

RC - Ceiling Cavity Reflectance RW - Wall Reflectance